

PROTEOMICS

Supporting Information for Proteomics

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**From proteomics to systems biology of bacterial pathogens: Approaches,
tools, and applications**

MasterSpot	X	Y	UniProt ID	Acc	Sec Acc	SAV
79	1157	64	Q99VC3_STAAM	Q99VC3		SAV0967
79	1157	64	Q99WA0_STAAM	Q99WA0		SAV0503
90	1101	68	Q99U47_STAAM	Q99U47		SAV1441
94	1424	72	Q99UN6_STAAM	Q99UN6		SAV1234
185	1592	90	RPOC_STAAM	P60284	Q99W64;	SAV0543
205	1340	92	RPOC_STAAM	P60284	Q99W64;	SAV0543
222	957	93	Q931G2_STAAM	Q931G2		SAV2309
222	957	93	RPOC_STAAM	P60284	Q99W64;	SAV0543
252	838	99	CARB_STAAM	P63739	Q99UR5;	SAV1203
252	838	99	RPOC_STAAM	P60284	Q99W64;	SAV0543
254	1111	102	Q99UY8_STAAM	Q99UY8		SAV1114
254	1111	102	RPOC_STAAM	P60284	Q99W64;	SAV0543
256	1164	105	Q99UY8_STAAM	Q99UY8		SAV1114
256	1164	105	RPOC_STAAM	P60284	Q99W64;	SAV0543
257	1138	106	Q99UY8_STAAM	Q99UY8		SAV1114
261	2027	109	Q99XB9_STAAM	Q99XB9		SAV0093
266	1099	113	RPOC_STAAM	P60284	Q99W64;	SAV0543
288	2163	114	UVRA_STAAM	P63382	Q99VL6;	SAV0759
299	775	115	ACON_STAAM	P63433	Q99UC8;	SAV1350
299	775	115	RPOC_STAAM	P60284	Q99W64;	SAV0543
313	2103	116	DPO3A_STAAM	P63979	Q99TG0;	SAV1703
326	814	117	ACON_STAAM	P63433	Q99UC8;	SAV1350
327	1594	117	ODO1_STAAM	Q931R8	Q7ASB7; Q7	SAV1413
329	2237	117	UVRA_STAAM	P63382	Q99VL6;	SAV0759
345	837	121	ACON_STAAM	P63433	Q99UC8;	SAV1350
345	837	121	CARB_STAAM	P63739	Q99UR5;	SAV1203
350	1431	121	ODO1_STAAM	Q931R8	Q7ASB7; Q7	SAV1413
352	1543	121	ODO1_STAAM	Q931R8	Q7ASB7; Q7	SAV1413
360	1470	122	ODO1_STAAM	Q931R8	Q7ASB7; Q7	SAV1413
364	1283	123	GYRA_STAAM	Q932M0		SAV0006
364	1283	123	SYI_STAAM	P67508	Q99US4;	SAV1193
365	1361	123	SYI_STAAM	P67508	Q99US4;	SAV1193
366	912	124	MUTS_STAAM	Q931S8	Q931S9;	SAV1295
368	1506	125	ODO1_STAAM	Q931R8	Q7ASB7; Q7WRN1; Q7WZ40	SAV1413
370	1321	127	SYI_STAAM	P67508	Q99US4;	SAV1193
374	995	129	SYA_STAAM	P67010	Q99TN1;	SAV1618
384	1023	137	SYA_STAAM	P67010	Q99TN1;	SAV1618
393	1049	143	SYA_STAAM	P67010	Q99TN1;	SAV1618
393	1049	143	SYL_STAAM	P67512	Q99TA8;	SAV1760
405	933	148	CLPB_STAAM	Q99VB5		SAV0975
408	977	151	SYV_STAAM	Q931Q1		SAV1663
409	1001	151	Q99TH2_STAAM	Q99TH2		SAV1690
409	1001	151	SYV_STAAM	Q931Q1		SAV1663
420	604	160	SYFB_STAAM	P67040	Q99UW6;	SAV1139
421	1031	160	Q99TH2_STAAM	Q99TH2		SAV1690
421	1031	160	SYL_STAAM	P67512	Q99TA8;	SAV1760
441	1275	167	MUTL_STAAM	P65491	Q99UH7;	SAV1297
447	1202	168	SECA_STAAM	Q99VM2		SAV0753
457	1173	173	SECA_STAAM	Q99VM2		SAV0753
468	2275	176	PARC_STAAM	Q931S2		SAV1355
470	2144	177	MUTS2_STAAM	P65495	Q99UW1;	SAV1144
493	1531	189	Q99W78_STAAM	Q99W78		SAV0525
495	1655	189	Q99W78_STAAM	Q99W78		SAV0525

498	1563	190	Q99W78 STAAM	Q99W78		SAV0525
510	1610	195	METE STAAM	P65342	Q99WM1;	SAV0356
510	1610	195	Q99W78 STAAM	Q99W78		SAV0525
530	945	199	Q99UZ3 STAAM	Q99UZ3		SAV1109
539	600	202	IF2 STAAM	P65133	Q99UK3;	SAV1269
553	1155	206	IF2 STAAM	P65133	Q99UK3;	SAV1269
559	2364	207	Q99UQ6 STAAM	Q99UQ6		SAV1212
561	1088	208	IF2 STAAM	P65133	Q99UK3;	SAV1269
564	668	209	IF2 STAAM	P65133	Q99UK3;	SAV1269
568	1120	211	IF2 STAAM	P65133	Q99UK3;	SAV1269
573	1824	213	PCRA STAAM	P64318	Q99SY2;	SAV1905
575	512	214	Q99R17 STAAM	Q99R17		SAV2620
577	929	214	CLPB STAAM	Q99VB5		SAV0975
579	1392	214	Q99WZ7 STAAM	Q99WZ7		SAV0226
580	1810	214	PCRA STAAM	P64318	Q99SY2;	SAV1905
582	701	219	EFG STAAM	P68788	P81683;Q99	SAV0547
627	1165	233	DNLJ STAAM	Q99SY3		SAV1904
628	2143	234	Q99S19 STAAM	Q99S19		SAV2063
634	2327	238	Q99S19 STAAM	Q99S19		SAV2063
636	2116	239	RECG STAAM	P64324	Q99UP1;	SAV1227
639	2233	240	Q99S19 STAAM	Q99S19		SAV2063
654	1902	246	Q99QZ4 STAAM	Q99QZ4		SAV2644
666	282	249	TIG STAAM	P66934	Q99T16;	SAV1675
669	1848	249	GYRB STAAM	P66936	Q99XG6;	SAV0005
674	1108	251	SYM STAAM	P67578	Q99WB3;	SAV0490
675	1366	251	SYT STAAM	P67584	Q99TH9;	SAV1683
681	1148	254	SYM STAAM	P67578	Q99WB3;	SAV0490
682	1320	254	SYT STAAM	P67584	Q99TH9;	SAV1683
689	849	258	ODP2 STAAM	P65635	Q99V06;	SAV1095
690	1071	258	SYM STAAM	P67578	Q99WB3;	SAV0490
691	1175	258	Q99VP2 STAAM	Q99VP2		SAV0731
701	918	264	ODP2 STAAM	P65635	Q99V06;	SAV1095
701	918	264	TKT STAAM	P66962	Q99UD4;	SAV1342
704	1917	265	GYRB STAAM	P66936	Q99XG6;	SAV0005
704	1917	265	Q99S85 STAAM	Q99S85		SAV2181
705	1480	266	GIDA STAAM	P64229	Q99QT4;	SAV2711
708	940	269	TKT STAAM	P66962	Q99UD4;	SAV1342
709	1191	269	Q99TG5 STAAM	Q99TG5		SAV1697
710	1415	269	GIDA STAAM	P64229	Q99QT4;	SAV2711
712	1007	270	TKT STAAM	P66962	Q99UD4;	SAV1342
714	1291	271	GIDA STAAM	P64229	Q99QT4;	SAV2711
714	1291	271	Q99TG5 STAAM	Q99TG5		SAV1697
716	750	272	Q99R88 STAAM	Q99R88		SAV2548
717	974	272	TKT STAAM	P66962	Q99UD4;	SAV1342
726	570	276	DNAK STAAM	P64407	Q99TR7;	SAV1580
729	1356	276	GIDA STAAM	P64229	Q99QT4;	SAV2711
729	1356	276	Q99SK5 STAAM	Q99SK5		SAV2047
730	1566	276	Q99WC5 STAAM	Q99WC5		SAV0478
731	613	277	Q99U98 STAAM	Q99U98		SAV1384
734	2019	278	Q99RB9 STAAM	Q99RB9		SAV2516
737	703	280	GPMI STAAM	P64269	Q99VK6;	SAV0775
748	491	282	FTSA STAAM	P63764	Q99US9;	SAV1185
749	672	282	GPMI STAAM	P64269	Q99VK6;	SAV0775
755	1383	284	Q99VQ3 STAAM	Q99VQ3		SAV0720
757	2090	284	Q99RB9 STAAM	Q99RB9		SAV2516
759	414	285	FTSA STAAM	P63764	Q99US9;	SAV1185

761	1865	285	TETM_STAAM	Q932I8		SAV0398
763	442	287	FTSA_STAAM	P63764	Q99US9;	SAV1185
768	465	289	FTSA_STAAM	P63764	Q99US9;	SAV1185
769	815	289	LEPA_STAAM	P65271	Q99TR4;	SAV1585
771	736	292	GPMI_STAAM	P64269	Q99VK6;	SAV0775
775	1321	293	GLMS_STAAM	P64227	Q99SA5;	SAV2154
777	516	295	FTSA_STAAM	P63764	Q99US9;	SAV1185
777	516	295	PT1_STAAM	Q931U2		SAV1084
779	1182	299	Q99V90_STAAM	Q99V90		SAV1000
782	1019	300	SYP_STAAM	Q99UK9		SAV1263
783	1104	300	Q99V90_STAAM	Q99V90		SAV1000
783	1104	300	SYP_STAAM	Q99UK9		SAV1263
784	1144	300	Q99V90_STAAM	Q99V90		SAV1000
789	1058	302	SYP_STAAM	Q99UK9		SAV1263
791	781	303	GLMS_STAAM	P64227	Q99SA5;	SAV2154
796	627	305	Q99UP2_STAAM	Q99UP2		SAV1226
799	925	305	SYD_STAAM	P67014	Q99TL9;	SAV1630
802	990	306	SYD_STAAM	P67014	Q99TL9;	SAV1630
805	605	307	Q99UP2_STAAM	Q99UP2		SAV1226
806	848	307	GLMS_STAAM	P64227	Q99SA5;	SAV2154
809	814	311	Q99UI4_STAAM	Q99UI4		SAV1289
810	701	312	GPMI_STAAM	P64269	Q99VK6;	SAV0775
829	2260	318	Q99WX0_STAAM	Q99WX0		SAV0253
832	572	319	PT1_STAAM	Q931U2		SAV1084
834	1349	319	Q99UW2_STAAM	Q99UW2		SAV1143
839	1292	320	Q99UW2_STAAM	Q99UW2		SAV1143
841	502	321	CH60_STAAM	P63766	Q99SL7;	SAV2029
847	933	325	SYD_STAAM	P67014	Q99TL9;	SAV1630
849	538	326	CH60_STAAM	P63766	Q99SL7;	SAV2029
856	1868	328	Q7A2T1_STAAM	Q7A2T1		SAV1011
858	1003	329	PYRG_STAAM	P65923	Q99SD1;	SAV2127
880	732	342	Q99U75_STAAM	Q99U75		SAV1412
882	1927	343	Q99RE2_STAAM	Q99RE2		SAV2491
882	1927	343	Q99UJ7_STAAM	Q99UJ7		SAV1275
886	1071	345	Q931P3_STAAM	Q931P3		SAV1733
891	691	348	EFG_STAAM	P68788	P81683;Q99	SAV0547
891	691	348	Q99U75_STAAM	Q99U75		SAV1412
893	1978	349	Q99UJ7_STAAM	Q99UJ7		SAV1275
895	665	352	Y385_STAAM	P60854	Q99WJ4;	SAV0385
898	2078	352	Q99RE2_STAAM	Q99RE2		SAV2491
904	1495	356	Q99UV8_STAAM	Q99UV8		SAV1148
905	473	357	DNAK_STAAM	P64407	Q99TR7;	SAV1580
907	1022	358	Q99TX4_STAAM	Q99TX4		SAV1519
910	1264	359	Q99UV8_STAAM	Q99UV8		SAV1148
911	1319	359	Q99UV8_STAAM	Q99UV8		SAV1148
915	1241	363	HUTU_STAAM	Q931G1		SAV2331
915	1241	363	Q99UV8_STAAM	Q99UV8		SAV1148
917	1437	364	Q99UV8_STAAM	Q99UV8		SAV1148
918	838	366	Q99U92_STAAM	Q99U92		SAV1392
933	1049	372	Q99VF9_STAAM	Q99VF9		SAV0846
935	405	373	Q99TY6_STAAM	Q99TY6		SAV1507
935	405	373	Q99UH2_STAAM	Q99UH2		SAV1302
936	1106	373	Q99VF9_STAAM	Q99VF9		SAV0846
937	2077	373	Q99UI1_STAAM	Q99UI1		SAV1292
944	434	376	Q99TY6_STAAM	Q99TY6		SAV1507
948	659	377	Q99XF5_STAAM	Q99XF5		SAV0016

949	1290	377	CATA STAAM	Q99UE2		SAV1334
950	1643	377	GCSPB STAAM	P64219	Q99TV9;	SAV1535
950	1643	377	Q99TG5 STAAM	Q99TG5		SAV1697
954	514	378	Q99UH2 STAAM	Q99UH2		SAV1302
957	2184	378	Q99UI1 STAAM	Q99UI1		SAV1292
963	1416	380	CATA STAAM	Q99UE2		SAV1334
967	1612	381	GCSPB STAAM	P64219	Q99TV9;	SAV1535
968	1777	381	GCSPB STAAM	P64219	Q99TV9;	SAV1535
969	1804	381	FTHS STAAM	Q99TD2		SAV1732
974	1696	383	GCSPB STAAM	P64219	Q99TV9;	SAV1535
979	2005	385	Q99UT3 STAAM	Q99UT3		SAV1177
980	2112	385	Q99V50 STAAM	Q99V50		SAV1043
984	2281	386	Q99WW5 STAAM	Q99WW5		SAV0258
987	902	388	GUA_A STAAM	P64296	Q99W18;	SAV0391
988	1018	388	GUA_A STAAM	P64296	Q99W18;	SAV0391
992	1899	389	FTHS STAAM	Q99TD2		SAV1732
993	1941	390	PPCK STAAM	P0A0B3	P51065;	SAV1791
993	1941	390	PUR9 STAAM	P67543	Q99V24;	SAV1073
997	2382	392	Q99WW5 STAAM	Q99WW5		SAV0258
999	1429	394	Q99TE0 STAAM	Q99TE0		SAV1724
1009	667	396	Q932G9 STAAM	Q932G9		SAV0431
1009	667	396	Q99T62 STAAM	Q99T62		SAV1808
1012	1078	397	LACG STAAM	P67767	Q99S78;	SAV2189
1012	1078	397	Q99X33 STAAM	Q99X33		SAV0188
1013	1149	397	SYK STAAM	P67609	Q99W86;	SAV0517
1015	2241	398	Q99RR0 STAAM	Q99RR0		SAV2367
1021	1193	402	SYK STAAM	P67609	Q99W86;	SAV0517
1029	1032	407	SYR STAAM	Q932F6		SAV0607
1032	1058	408	GATA STAAM	P63488	Q99SY6;	SAV1900
1032	1058	408	Q99WC8 STAAM	Q99WC8		SAV0475
1033	1261	408	HSLU STAAM	P63796	Q99UL7;	SAV1254
1038	576	411	GLMM STAAM	P65704	Q99QR5;	SAV2161
1039	798	411	AACA STAAM	P0A0C0	P14507;	SAVP026
1039	798	411	DLTA STAAM	P68876	Q53661;	SAV0932
1042	737	412	AACA STAAM	P0A0C0	P14507;	SAVP026
1051	882	419	DLTA STAAM	P68876	Q53661;	SAV0932
1054	2175	422	Q99TH7 STAAM	Q99TH7		SAV1685
1057	1514	423	Q99R28 STAAM	Q99R28		SAV2609
1063	1649	424	Q99SX4 STAAM	Q99SX4		SAV1913
1063	1649	424	Q99TS0 STAAM	Q99TS0		SAV1576
1075	1474	428	GID STAAM	P64234	Q99UM0;	SAV1251
1078	1236	429	SYE STAAM	P67021	Q99W75;	SAV0528
1079	1423	429	Q99TX5 STAAM	Q99TX5		SAV1518
1085	497	432	Q7A2R1 STAAM	Q7A2R1		SAV1751
1087	1897	432	MENE STAAM	P63525	Q99T73;	SAV1797
1088	421	433	DNAK STAAM	P64407	Q99TR7;	SAV1580
1089	767	433	GLPK STAAM	P63741	Q99UH3;	SAV1301
1091	1293	433	SYE STAAM	P67021	Q99W75;	SAV0528
1096	1496	435	IMDH STAAM	P65169	Q99W19;	SAV0390
1096	1496	435	MURE STAAM	P65479	Q99V74;	SAV1018
1103	1025	438	Q99SD6 STAAM	Q99SD6		SAV2122
1104	1787	438	IMDH STAAM	P65169	Q99W19;	SAV0390
1105	1344	439	SYE STAAM	P67021	Q99W75;	SAV0528
1105	1344	439	SYN STAAM	P67571	Q99U35;	SAV1454
1106	1601	439	IMDH STAAM	P65169	Q99W19;	SAV0390
1108	794	441	GLPK STAAM	P63741	Q99UH3;	SAV1301

1110	2067	442	ARAB STAAM	P63549	Q99W57;	SAV0552
1118	1691	449	IMDH STAAM	P65169	Q99WI9;	SAV0390
1121	1185	450	GLNA STAAM	P60890	Q99UG5;	SAV1310
1122	646	451	Q99UN5 STAAM	Q99UN5		SAV1235
1123	831	451	GLPK STAAM	P63741	Q99UH3;	SAV1301
1123	831	451	Q99X58 STAAM	Q99X58		SAV0163
1124	1134	451	GLNA STAAM	P60890	Q99UG5;	SAV1310
1124	1134	451	LACG STAAM	P67767	Q99S78;	SAV2189
1125	1216	451	DNAA STAAM	P68865	P49994;	SAV0001
1126	952	452	GATB STAAM	P64201	Q99SY7;	SAV1899
1126	952	452	SYG STAAM	P67034	Q99TT1;	SAV1565
1130	2189	453	MQO2 STAAM	P65424	Q99R30;	SAV2607
1133	884	454	ATPA STAAM	P63675	Q99SF3;	SAV2105
1134	1272	454	Q99WV9 STAAM	Q99WV9		SAV0266
1134	1272	454	SYE STAAM	P67021	Q99W75;	SAV0528
1136	585	455	Q99UK6 STAAM	Q99UK6		SAV1266
1137	675	455	EFTU STAAM	P64028	Q99W61;	SAV0548
1137	675	455	Q99UN5 STAAM	Q99UN5		SAV1235
1148	1305	457	SYC STAAM	Q932G0		SAV0530
1148	1305	457	SYE STAAM	P67021	Q99W75;	SAV0528
1150	2252	459	PUR1 STAAM	P65831	Q99V27;	SAV1070
1152	2006	460	Q99SB8 STAAM	Q99SB8		SAV2141
1155	2299	462	MQO2 STAAM	P65424	Q99R30;	SAV2607
1156	983	463	SYG STAAM	P67034	Q99TT1;	SAV1565
1157	1439	463	Q99TX8 STAAM	Q99TX8		SAV1515
1158	1527	463	MURA2 STAAM	P65456	Q99SD4;	SAV2124
1159	1905	463	Q99W18 STAAM	Q99W18		SAV0594
1160	2346	464	MQO2 STAAM	P65424	Q99R30;	SAV2607
1160	2346	464	PUR1 STAAM	P65831	Q99V27;	SAV1070
1162	459	466	ENO STAAM	P64078	Q99VK5;	SAV0776
1164	855	469	ATPA STAAM	P63675	Q99SF3;	SAV2105
1164	855	469	FTSZ STAAM	P0A029	P45498;	SAV1186
1165	2464	469	MQO1 STAAM	P65421	Q99RR2;	SAV2365
1167	956	472	GATB STAAM	P64201	Q99SY7;	SAV1899
1167	956	472	GCSPA STAAM	P64217	Q99TV8;	SAV1536
1168	1794	472	Q99QZ1 STAAM	Q99QZ1		SAV2647
1169	2124	473	Q99SB8 STAAM	Q99SB8		SAV2141
1171	1018	474	GCSPA STAAM	P64217	Q99TV8;	SAV1536
1171	1018	474	SYS STAAM	P61083	Q99XG2;	SAV0009
1175	499	475	ENO STAAM	P64078	Q99VK5;	SAV0776
1175	499	475	RS1 STAAM	Q99U14		SAV1476
1176	802	475	ATPA STAAM	P63675	Q99SF3;	SAV2105
1176	802	475	GLPK STAAM	P63741	Q99UH3;	SAV1301
1184	2522	477	MQO2 STAAM	P65424	Q99R30;	SAV2607
1190	1675	480	MURD STAAM	P0A089	O07323;O33	SAV1183
1192	716	481	EFTU STAAM	P64028	Q99W61;	SAV0548
1198	1836	483	Q99VD9 STAAM	Q99VD9		SAV0942
1199	643	484	DPO3B STAAM	P0A022	P50029;	SAV0002
1202	1032	488	RPOD STAAM	P0A018	P26766;	SAV1561
1202	1032	488	SYS STAAM	P61083	Q99XG2;	SAV0009
1203	1053	488	Q99SH5 STAAM	Q99SH5		SAV2082
1213	452	492	ENO STAAM	P64078	Q99VK5;	SAV0776
1214	531	492	ENO STAAM	P64078	Q99VK5;	SAV0776
1215	675	492	EFTU STAAM	P64028	Q99W61;	SAV0548
1216	755	492	EFTU STAAM	P64028	Q99W61;	SAV0548
1224	1408	496	CSD STAAM	P63518	Q99VG1;	SAV0844

1231	1086	502	FUMC STAAM	P64172	Q99T27;	SAV1851
1233	565	504	EFTU STAAM	P64028	Q99W61;	SAV0548
1233	565	504	ENO STAAM	P64078	Q99VK5;	SAV0776
1234	1289	504	CDR STAAM	Q99VC0		SAV0970
1234	1289	504	ENGA STAAM	P64059	Q99U15;	SAV1475
1235	1364	507	CDR STAAM	Q99VC0		SAV0970
1241	1341	510	ENGA STAAM	P64059	Q99U15;	SAV1475
1243	1208	511	DHE2 STAAM	Q99VD0		SAV0958
1246	854	515	FTSZ STAAM	P0A029	P45498;	SAV1186
1246	854	515	METK STAAM	P66766	Q99T79;	SAV1790
1248	2218	515	Q99TP3 STAAM	Q99TP3		SAV1606
1250	494	516	ENO STAAM	P64078	Q99VK5;	SAV0776
1253	601	517	ATPB STAAM	P63679	Q99SF5;	SAV2103
1254	631	517	ATPB STAAM	P63679	Q99SF5;	SAV2103
1254	631	517	Q99WL4 STAAM	Q99WL4		SAV0363
1256	2404	518	Q99UB4 STAAM	Q99UB4		SAV1367
1258	1821	521	MURA1 STAAM	Q931H5	Q931H4;Q99	SAV2099
1258	1821	521	MURA1 STAAM	Q931H5	Q931H4;Q99	SAV2099
1260	1773	522	GLYA STAAM	P66803	Q99SE5;	SAV2113
1261	900	523	DEOB STAAM	P63925	Q99X76;	SAV0139
1261	900	523	Q99T34 STAAM	Q99T34		SAV1844
1263	1686	523	Q7A2R9 STAAM	Q7A2R9		SAV1400
1268	1111	526	PUR2 STAAM	P65895	Q99V23;	SAV1074
1268	1111	526	PURA STAAM	P65884	Q99XF4;	SAV0017
1269	1882	526	GLYA STAAM	P66803	Q99SE5;	SAV2113
1272	716	528	EFTU STAAM	P64028	Q99W61;	SAV0548
1272	716	528	Q99T02 STAAM	Q99T02		SAV1879
1275	1651	528	Q99SX9 STAAM	Q99SX9		SAV1908
1278	1936	529	Q99UQ7 STAAM	Q99UQ7		SAV1211
1282	1707	532	MOEA STAAM	P65407	Q99RZ9;	SAV2273
1286	1737	533	Q99SX9 STAAM	Q99SX9		SAV1908
1288	939	534	DEOB STAAM	P63925	Q99X76;	SAV0139
1288	939	534	MURC STAAM	P65474	Q99TC4;	SAV1740
1289	1238	534	Q99UG6 STAAM	Q99UG6		SAV1308
1292	762	536	G6PI STAAM	P64194	Q99VC6;	SAV0962
1293	857	536	METK STAAM	P66766	Q99T79;	SAV1790
1293	857	536	RF2 STAAM	Q99VM1		SAV0754
1298	822	539	RF1 STAAM	P66018	Q99SE0;	SAV2118
1299	1261	539	Q99TW7 STAAM	Q99TW7		SAV1526
1299	1261	539	Q99X63 STAAM	Q99X63		SAV0154
1302	2209	540	Q99SZ4 STAAM	Q99SZ4		SAV1892
1303	566	541	EFTU STAAM	P64028	Q99W61;	SAV0548
1305	1562	541	MURA2 STAAM	P65456	Q99SD4;	SAV2124
1307	1360	542	Q99TW7 STAAM	Q99TW7		SAV1526
1310	2488	542	Q99WF6 STAAM	Q99WF6		SAV0446
1316	1208	545	RECA STAAM	P68843	Q02350;	SAV1285
1322	1299	549	DHE2 STAAM	Q99VD0		SAV0958
1322	1299	549	TRMU STAAM	Q931Q6		SAV1621
1324	1986	551	Q99UQ1 STAAM	Q99UQ1		SAV1217
1329	2378	555	Q99RI0 STAAM	Q99RI0		SAV2451
1330	737	558	PEPT STAAM	P65805	Q99VN1;	SAV0743
1340	847	564	Q99SC3 STAAM	Q99SC3		SAV2136
1345	906	567	6PGD STAAM	Q931R3		SAV1511
1346	1019	567	AROA STAAM	P63584	Q99U25;	SAV1464
1346	1019	567	Q99SV2 STAAM	Q99SV2		SAV1936
1354	1188	572	KBL STAAM	P60121	Q99W59;	SAV0550

1356	967	573	6PGD_STAAM	Q931R3		SAV1511
1357	1798	573	ACKA_STAAM	Q931P6		SAV1711
1360	1275	575	Q7A2N0_STAAM	Q7A2N0		SAV2133
1360	1275	575	SYH_STAAM	P60909	O32422;	SAV1631
1361	1938	575	TELL_STAAM	P60107	Q99U81;	SAV1406
1365	1150	578	Q99U44_STAAM	Q99U44		SAV1444
1365	1150	578	Q99WZ2_STAAM	Q99WZ2		SAV0231
1368	1210	579	Q7A2N0_STAAM	Q7A2N0		SAV2133
1368	1210	579	SYT_STAAM	Q99TD5		SAV1729
1375	579	582	FTSZ_STAAM	P0A029	P45498;	SAV1186
1377	1618	582	FEMB_STAAM	P0A0A6	P14305;	SAV1375
1381	610	584	EFTU_STAAM	P64028	Q99W61;	SAV0548
1382	740	585	IDH_STAAM	P65099	Q99TG8;	SAV1694
1386	1517	586	FEMB_STAAM	P0A0A6	P14305;	SAV1375
1388	1857	587	Q99TC7_STAAM	Q99TC7		SAV1737
1389	785	588	IDH_STAAM	P65099	Q99TG8;	SAV1694
1390	2196	588	Q99RI3_STAAM	Q99RI3		SAV2448
1391	2266	588	Q99VE3_STAAM	Q99VE3		SAV0938
1394	1678	591	Q99VS2_STAAM	Q99VS2		SAV0701
1395	1781	591	Q99X57_STAAM	Q99X57		SAV0164
1400	1564	595	Q99SY4_STAAM	Q99SY4		SAV1903
1400	1564	595	Q99VE0_STAAM	Q99VE0		SAV0941
1403	1355	596	Q99VE0_STAAM	Q99VE0		SAV0941
1405	2026	597	Q99TC7_STAAM	Q99TC7		SAV1737
1406	1001	598	Q99TQ0_STAAM	Q99TQ0		SAV1599
1407	1278	598	Q7A2N0_STAAM	Q7A2N0		SAV2133
1412	1948	601	Q99UJ4_STAAM	Q99UJ4		SAV1278
1415	850	604	DDL_STAAM	P63891	Q99SH4;	SAV2083
1416	1034	604	Q99TG1_STAAM	Q99TG1		SAV1702
1418	1320	606	Q99WM3_STAAM	Q99WM3		SAV0354
1419	1619	606	Q99W60_STAAM	Q99W60		SAV0549
1423	618	608	EFTU_STAAM	P64028	Q99W61;	SAV0548
1426	1388	610	Q99TB9_STAAM	Q99TB9		SAV1745
1431	1172	612	PGK_STAAM	P68819	Q9Z5C4;	SAV0773
1433	1142	613	PGK_STAAM	P68819	Q9Z5C4;	SAV0773
1433	1142	613	Q99VN2_STAAM	Q99VN2		SAV0742
1436	1749	614	DHA2_STAAM	Q931P7		SAV1709
1436	1749	614	Q99W51_STAAM	Q99W51		SAV0558
1438	1127	615	Q99SC6_STAAM	Q99SC6		SAV2132
1439	814	616	Q99S95_STAAM	Q99S95		SAV2171
1440	2068	617	TGT_STAAM	P66904	Q99TL4;	SAV1639
1441	1476	618	IMDH_STAAM	P65169	Q99WI9;	SAV0390
1442	763	619	Q99TM7_STAAM	Q99TM7		SAV1622
1446	2203	621	G3P2_STAAM	P64180	Q99TH5;	SAV1687
1447	885	622	SUCC_STAAM	P66871	Q99UM5;	SAV1245
1449	2125	623	Q99T98_STAAM	Q99T98		SAV1771
1455	923	627	ODPA_STAAM	P60089	Q931U0;	SAV1093
1457	977	627	ODPA_STAAM	P60089	Q931U0;	SAV1093
1461	1337	629	GSA1_STAAM	P63508	Q99TJ4;	SAV1667
1464	645	631	RPOA_STAAM	P66705	Q99S45;	SAV2224
1465	1072	632	RIBAB_STAAM	Q99TA0		SAV1769
1466	1986	632	PURK_STAAM	Q99V32		SAV1065
1468	1297	633	DLDH_STAAM	P0A0E6	Q59822;	SAV1096
1471	1853	635	Q99RY7_STAAM	Q99RY7		SAV2285
1477	1271	638	Q931R7_STAAM	Q931R7		SAV1429
1486	1123	643	Y524_STAAM	P65205	Q99W79;	SAV0524

1489	1571	644	Q99TG7_STAAM	Q99TG7		SAV1695
1489	1571	644	SYFA_STAAM	P68847	Q99QR1;	SAV1138
1491	2014	645	Q7A2Y3_STAAM	Q7A2Y3		SAV0155
1493	776	647	GCST_STAAM	P64224	Q99TV7;	SAV1537
1494	1444	647	QUEA_STAAM	P65950	Q99TL3;	SAV1640
1495	2046	648	Q99UI8_STAAM	Q99UI8		SAV1284
1502	1232	654	ARGD2_STAAM	P60297	Q99VD1;	SAV0957
1503	612	655	Q931H2_STAAM	Q931H2		SAV2143
1506	741	657	G3P1_STAAM	P0A036	Q9Z5C5;	SAV0772
1506	741	657	GCST_STAAM	P64224	Q99TV7;	SAV1537
1507	1032	657	Q99SK3_STAAM	Q99SK3		SAV2049
1508	1758	657	Q99U31_STAAM	Q99U31		SAV1458
1510	804	659	G3P1_STAAM	P0A036	Q9Z5C5;	SAV0772
1516	857	661	G3P1_STAAM	P0A036	Q9Z5C5;	SAV0772
1521	960	670	Q7A2U2_STAAM	Q7A2U2		SAV0930
1522	1007	670	MTLD_STAAM	P63955	Q99SA1;	SAV2159
1523	1284	670	Q99SA0_STAAM	Q99SA0		SAV2165
1525	918	671	G3P1_STAAM	P0A036	Q9Z5C5;	SAV0772
1525	918	671	Q99R90_STAAM	Q99R90		SAV2546
1537	1147	676	Q99RW8_STAAM	Q99RW8		SAV2305
1541	628	683	Q99TF9_STAAM	Q99TF9		SAV1704
1542	770	684	LDH2_STAAM	P65258	Q99R35;	SAV2602
1543	512	686	EFTU_STAAM	P64028	Q99W61;	SAV0548
1545	1122	687	HIS8_STAAM	P67724	Q99VP9;	SAV0724
1547	1570	688	K6PF_STAAM	P65694	Q99TG4;	SAV1698
1547	1570	688	Q7A2Y4_STAAM	Q7A2Y4		SAV0153
1548	1691	688	Q99T74_STAAM	Q99T74		SAV1796
1549	1436	689	Q7A2Y4_STAAM	Q7A2Y4		SAV0153
1549	1436	689	RUVB_STAAM	P66757	Q99TL2;	SAV1641
1550	1971	689	Q7A2U8_STAAM	Q7A2U8		SAV0771
1551	799	690	Q99RX1_STAAM	Q99RX1		SAV2302
1553	2338	690	Q99SE7_STAAM	Q99SE7		SAV2111
1556	1282	694	Q99VQ1_STAAM	Q99VQ1		SAV0722
1557	1745	694	K6PF_STAAM	P65694	Q99TG4;	SAV1698
1558	1945	694	K6PF_STAAM	P65694	Q99TG4;	SAV1698
1561	887	696	Y1559_STAAM	P67272	Q99TT7;	SAV1559
1564	1496	697	Q99U10_STAAM	Q99U10		SAV1480
1565	1240	698	HEM3_STAAM	P64340	Q99TJ1;	SAV1670
1565	1240	698	Q931R2_STAAM	Q931R2		SAV1529
1568	2230	701	ALR2_STAAM	P63482	Q99U86;	SAV1399
1570	847	706	FABH_STAAM	P68795	Q99VA7;	SAV0983
1571	923	706	ILVE_STAAM	P63512	Q99W55;	SAV0554
1578	1265	714	HEM3_STAAM	P64340	Q99TJ1;	SAV1670
1578	1265	714	Q99V65_STAAM	Q99V65		SAV1028
1579	1319	714	NADE_STAAM	P65506	Q99SX5;	SAV1912
1583	1662	718	DNAJ_STAAM	P63970	Q99TR8;	SAV1579
1583	1662	718	Q99VLO_STAAM	Q99VLO		SAV0766
1587	2403	722	Q99X04_STAAM	Q99X04		SAV0218
1588	530	723	ODPB_STAAM	P0A0A1	Q9L6H5;	SAV1094
1589	548	723	ODPB_STAAM	P0A0A1	Q9L6H5;	SAV1094
1593	1038	725	Q99QZ6_STAAM	Q99QZ6		SAV2642
1593	1038	725	Q99SE2_STAAM	Q99SE2		SAV2116
1595	1369	726	TYSY_STAAM	P67046	Q99U61;	SAV1427
1598	699	728	Q99X03_STAAM	Q99X03		SAV0219
1600	1096	730	EFTS_STAAM	P64054	Q99UL4;	SAV1257
1601	1967	730	Q99WP8_STAAM	Q99WP8		SAV0328

1604	638	731	PTA STAAM	P65862	Q99W23;	SAV0588
1605	1300	731	Q99S80 STAAM	Q99S80		SAV2187
1606	1693	731	Q99TY5 STAAM	Q99TY5		SAV1508
1607	2260	731	PLSX STAAM	P65738	Q99UN9;	SAV1229
1608	587	734	ODPB STAAM	P0A0A1	Q9L6H5;	SAV1094
1609	799	734	Q7A2V3 STAAM	Q7A2V3		SAV0732
1610	905	736	Q99QV3 STAAM	Q99QV3		SAV2688
1611	1165	736	EFTS STAAM	P64054	Q99UL4;	SAV1257
1611	1165	736	HEM2 STAAM	P64333	Q99TJ3;	SAV1668
1612	1001	737	LDH1 STAAM	P65255	Q99WY2;	SAV0241
1614	1236	738	EFTS STAAM	P64054	Q99UL4;	SAV1257
1618	1525	740	Q99UJ1 STAAM	Q99UJ1		SAV1281
1619	2178	740	Q932M1 STAAM	Q932M1		SAVP034
1623	1945	741	MOAA STAAM	Q931G4		SAV2268
1624	2302	742	Q7A2Q3 STAAM	Q7A2Q3		SAV1842
1625	2365	742	Q99W20 STAAM	Q99W20		SAV0592
1629	1784	745	ZDH1 STAAM	P63475	Q99S81;	SAV2186
1630	1405	746	FMT STAAM	P64136	Q99UQ2;	SAV1216
1631	1483	747	Q99SI7 STAAM	Q99SI7		SAV2067
1631	1483	747	Q99V34 STAAM	Q99V34		SAV1063
1633	1338	749	SUCD STAAM	P66866	Q99UM4;	SAV1246
1636	2143	750	DUS STAAM	P67716	Q99XC3;	SAV0089
1642	1732	754	CCPA STAAM	P67655	Q99TC8;	SAV1736
1643	684	755	Q99RU5 STAAM	Q99RU5		SAV2328
1645	537	757	Q99VK2 STAAM	Q99VK2		SAV0779
1654	635	762	PPAC STAAM	P65752	Q99SW8;	SAV1919
1655	1653	762	Q99T17 STAAM	Q99T17		SAV1862
1656	1042	764	Q99RY9 STAAM	Q99RY9		SAV2283
1657	1106	764	LDHD STAAM	P63940	Q99RB1;	SAV2524
1661	284	769	TIG STAAM	P66934	Q99TI6;	SAV1675
1662	2075	769	AROB STAAM	P63617	Q99U24;	SAV1465
1663	1582	771	SUCD STAAM	P66866	Q99UM4;	SAV1246
1664	980	772	Q99SW6 STAAM	Q99SW6		SAV1921
1666	559	773	Q99W56 STAAM	Q99W56		SAV0553
1667	1183	774	Q99TX6 STAAM	Q99TX6		SAV1517
1669	1909	774	Q99WU5 STAAM	Q99WU5		SAV0281
1672	2143	777	DCUP STAAM	P67419	Q99T42;	SAV1834
1673	2162	777	DCUP STAAM	P67419	Q99T42;	SAV1834
1677	436	782	EFTU STAAM	P64028	Q99W61;	SAV0548
1680	1800	784	Y1425 STAAM	P67370	Q99U62;	SAV1425
1682	905	786	LACC STAAM	P65698	Q99S76;	SAV2193
1682	905	786	Q99R58 STAAM	Q99R58		SAV2580
1685	2008	789	Q99U33 STAAM	Q99U33		SAV1456
1688	1852	794	Q99UK0 STAAM	Q99UK0		SAV1272
1692	1486	800	HUTG STAAM	P63570	Q99RT9;	SAV2334
1693	2116	800	Q99UE7 STAAM	Q99UE7		SAV1329
1696	598	803	Q99R57 STAAM	Q99R57		SAV2581
1698	986	804	PDXS STAAM	P60797	Q99W84;	SAV0519
1704	716	808	O87369 STAAM	O87369		SAV0035
1706	1370	808	ARGI STAAM	P60087	Q9R2U3;	SAV2164
1710	1828	809	MRAW STAAM	P60485	O07320;	SAV1179
1716	671	812	Q99VP7 STAAM	Q99VP7		SAV0726
1717	864	813	Q99WY0 STAAM	Q99WY0		SAV0243
1718	1740	814	END4 STAAM	P63537	Q99TT9;	SAV1557
1721	2062	817	Q99VT3 STAAM	Q99VT3		SAV0688
1723	2357	820	Q931Q8 STAAM	Q931Q8		SAV1587

1728	1186	829	PANC STAAM	P65658	Q99R39;	SAV2598
1729	2087	830	GPDA STAAM	P64190	Q99U16;	SAV1474
1730	587	831	PRMA STAAM	P0A0P3	P45557;	SAV1578
1732	1160	834	TRXB STAAM	P66010	Q99VL2;	SAV0764
1733	1511	834	Q932G2 STAAM	Q932G2		SAV0484
1734	1652	834	KSGA STAAM	Q932G1		SAV0493
1738	1277	836	CYSK STAAM	P63870	Q99W90;	SAV0513
1741	1417	838	CYSK STAAM	P63870	Q99W90;	SAV0513
1745	2156	841	HPRK STAAM	P60700	Q99VL5;	SAV0760
1746	479	842	EFTU STAAM	P64028	Q99W61;	SAV0548
1752	315	846	Q99U76 STAAM	Q99U76		SAV1411
1752	315	846	RL25 STAAM	Q99WA2		SAV0501
1753	1865	846	PRSA STAAM	P60747	Q99T36;	SAV1841
1753	1865	846	Q7A2T1 STAAM	Q7A2T1		SAV1011
1754	869	848	Q931I9 STAAM	Q931I9		SAV1999
1755	216	849	Q99U76 STAAM	Q99U76		SAV1411
1756	1132	849	Q99U93 STAAM	Q99U93		SAV1391
1759	1588	850	RS2 STAAM	P66543	Q99UL5;	SAV1256
1760	2187	850	Q931F9 STAAM	Q931F9		SAV2341
1761	361	851	RL25 STAAM	Q99WA2		SAV0501
1762	435	851	EFTU STAAM	P64028	Q99W61;	SAV0548
1765	820	852	ALF1 STAAM	P67472	Q99R31;	SAV2606
1766	1225	852	Q99TU7 STAAM	Q99TU7		SAV1547
1766	1225	852	Q99UI3 STAAM	Q99UI3		SAV1290
1776	1438	862	Q99RD4 STAAM	Q99RD4		SAV2500
1776	1438	862	RS2 STAAM	P66543	Q99UL5;	SAV1256
1777	1814	862	Q99TB7 STAAM	Q99TB7		SAV1747
1779	2423	866	ERA STAAM	P64084	Q99TS9;	SAV1567
1785	1363	869	MENB STAAM	Q99V48		SAV1045
1785	1363	869	Q99UI3 STAAM	Q99UI3		SAV1290
1786	843	870	HCHA STAAM	P64312	Q99W58;	SAV0551
1788	2477	871	GUAC STAAM	P60562	Q99UD9;	SAV1337
1796	751	879	EFP STAAM	P64038	Q99TW5;	SAV1528
1797	694	880	EFP STAAM	P64038	Q99TW5;	SAV1528
1799	603	882	EFTU STAAM	P64028	Q99W61;	SAV0548
1799	603	882	Y669 STAAM	P67181	Q8NXR2;Q9	SAV0669
1801	1206	885	ACCA STAAM	Q99TG3		SAV1700
1804	2120	893	KPRS STAAM	P65236	Q99WA3;	SAV0500
1805	451	897	EFTU STAAM	P64028	Q99W61;	SAV0548
1805	451	897	RL2 STAAM	P60431	Q99S24;Q9	SAV2247
1807	820	897	Q99W50 STAAM	Q99W50		SAV0559
1808	1598	898	Q99WR0 STAAM	Q99WR0		SAV0316
1808	1598	898	RL2 STAAM	P60431	Q99S24;Q9	SAV2247
1809	2082	898	Q931H6 STAAM	Q931H6		SAV2064
1810	931	899	HSLO STAAM	P64400	Q99W91;	SAV0512
1811	381	900	GRPE STAAM	P63189	P45553;	SAV1581
1816	1866	900	Q7A2T1 STAAM	Q7A2T1		SAV1011
1817	1768	901	RL2 STAAM	P60431	Q99S24;Q9	SAV2247
1819	500	902	Q99RY8 STAAM	Q99RY8		SAV2284
1819	500	902	RL2 STAAM	P60431	Q99S24;Q9	SAV2247
1820	1721	902	Y765 STAAM	P67108	Q99VL1;	SAV0765
1822	2300	903	KPRS STAAM	P65236	Q99WA3;	SAV0500
1824	1059	904	Y566 STAAM	Q99W43		SAV0566
1825	1361	904	MENB STAAM	Q99V48		SAV1045
1826	1818	904	Q99R75 STAAM	Q99R75		SAV2562
1831	876	908	DAAA STAAM	P63511	Q99TB4;	SAV1750

1832	1306	908	Q99TZ3 STAAM	Q99TZ3		SAV1500
1832	1306	908	Q99U48 STAAM	Q99U48		SAV1440
1835	252	911	TIG STAAM	P66934	Q99T16;	SAV1675
1839	422	914	RL25 STAAM	Q99WA2		SAV0501
1840	1256	914	SRRA STAAM	Q7A2R6		SAV1492
1841	212	916	Q99UX7 STAAM	Q99UX7		SAV1127
1842	1472	916	Q99WM6 STAAM	Q99WM6		SAV0351
1843	1954	916	ATPG STAAM	Q99SF4		SAV2104
1845	2166	917	RECX STAAM	P66002	Q99T06;	SAV1873
1849	520	920	EFTU STAAM	P64028	Q99W61;	SAV0548
1853	853	922	FABD STAAM	Q99UN8		SAV1230
1857	609	924	PT1 STAAM	Q931U2		SAV1084
1859	1362	924	MENB STAAM	Q99V48		SAV1045
1864	787	929	Q99VC2 STAAM	Q99VC2		SAV0968
1865	1549	929	Q99VU9 STAAM	Q99VU9		SAV0672
1870	1153	934	Y566 STAAM	Q99W43		SAV0566
1872	660	935	Q99SC9 STAAM	Q99SC9		SAV2129
1873	2061	936	Q99U11 STAAM	Q99U11		SAV1479
1874	880	937	Y749 STAAM	P0A0N0	Q99VM6;	SAV0749
1879	1608	943	NAGB STAAM	P65512	Q99W40;	SAV0569
1881	1414	945	Q99S65 STAAM	Q99S65		SAV2204
1883	1969	945	Q99VY4 STAAM	Q99VY4		SAV0631
1883	1969	945	THID STAAM	P66915	Q99SG4;	SAV2093
1886	1849	946	Y1187 STAAM	Q99US8		SAV1187
1896	1047	953	Q99XF3 STAAM	Q99XF3		SAV0018
1899	398	958	Q99VE8 STAAM	Q99VE8		SAV0929
1904	926	960	Q99T40 STAAM	Q99T40		SAV1837
1909	896	964	NANA STAAM	P63949	Q99WR1;	SAV0315
1910	1471	964	Q99TW1 STAAM	Q99TW1		SAV1533
1913	953	967	NFRA STAAM	Q99WJ6		SAV0382
1915	1157	968	Q99WB2 STAAM	Q99WB2		SAV0491
1917	1603	970	Q99TA3 STAAM	Q99TA3		SAV1765
1918	1913	972	MECR STAAM	P0A0A9	P26597;P72	SAV0042
1920	607	980	EFTU STAAM	P64028	Q99W61;	SAV0548
1921	816	981	Q99W31 STAAM	Q99W31		SAV0580
1922	2308	981	Q99US6 STAAM	Q99US6		SAV1191
1926	446	983	Q99UE5 STAAM	Q99UE5		SAV1331
1927	1191	985	AMPM STAAM	P0A078	Q99KWL1;	SAV1888
1928	1224	985	Q99SA7 STAAM	Q99SA7		SAV2152
1933	671	987	EFTU STAAM	P64028	Q99W61;	SAV0548
1936	498	988	EFTU STAAM	P64028	Q99W61;	SAV0548
1944	1639	991	Q99WB4 STAAM	Q99WB4		SAV0489
1946	395	992	MECA STAAM	P60184	Q99V92;	SAV0998
1947	775	992	Q99SC7 STAAM	Q99SC7		SAV2131
1953	951	997	Q99RB0 STAAM	Q99RB0		SAV2525
1957	1609	1000	Q99SZ5 STAAM	Q99SZ5		SAV1891
1958	1300	1002	GPMA STAAM	P65708	Q99RL4;	SAV2416
1959	1081	1003	GPMA STAAM	P65708	Q99RL4;	SAV2416
1960	1240	1003	Q99SA7 STAAM	Q99SA7		SAV2152
1960	1240	1003	Q99VR7 STAAM	Q99VR7		SAV0706
1961	1785	1003	Q99W00 STAAM	Q99W00		SAV0612
1964	820	1007	Q99TQ0 STAAM	Q99TQ0		SAV1599
1964	820	1007	Q99W31 STAAM	Q99W31		SAV0580
1965	1694	1007	Q99RC6 STAAM	Q99RC6		SAV2509
1973	581	1019	Q99RG1 STAAM	Q99RG1		SAV2472
1973	581	1019	Q99UJ5 STAAM	Q99UJ5		SAV1277

1974	976	1019	Q99TR9_STAAM	Q99TR9		SAV1577
1975	1751	1019	Q99VB9_STAAM	Q99VB9		SAV0971
1976	904	1021	Q99U78_STAAM	Q99U78		SAV1409
1977	1480	1021	Q99V10_STAAM	Q99V10		SAV1088
1980	1673	1024	Q7A2V8_STAAM	Q7A2V8		SAV0647
1984	1218	1028	Q99TG9_STAAM	Q99TG9		SAV1693
1989	2381	1033	Q99RC1_STAAM	Q99RC1		SAV2514
1995	2482	1037	Q99UI5_STAAM	Q99UI5		SAV1288
1997	2273	1038	Q99QU3_STAAM	Q99QU3		SAV2699
2000	1580	1041	Q99T55_STAAM	Q99T55		SAV1818
2002	423	1043	Q99T14_STAAM	Q99T14		SAV1677
2006	1935	1044	CODY_STAAM	P63843	Q99UL6;	SAV1255
2007	2205	1044	Q7A2R0_STAAM	Q7A2R0		SAV1753
2009	582	1047	Q99VV8_STAAM	Q99VV8		SAV0663
2010	1035	1047	ISAA_STAAM	P65645	Q99R69;	SAV2569
2011	1124	1047	DHPS_STAAM	P64141	Q99W89;	SAV0514
2013	1616	1047	Q7A2V0_STAAM	Q7A2V0		SAV0748
2015	1743	1048	PANB_STAAM	Q931E6		SAV2599
2021	1171	1054	Q99VM3_STAAM	Q99VM3		SAV0752
2022	637	1056	Q99VV8_STAAM	Q99VV8		SAV0663
2022	637	1056	THIM_STAAM	P66922	Q99SG5;	SAV2092
2023	995	1056	Q99T81_STAAM	Q99T81		SAV1788
2024	1792	1057	PYRH_STAAM	P65935	P59006;Q99	SAV1258
2024	1792	1057	Q99VV6_STAAM	Q99VV6		SAV0665
2026	2116	1060	Q99RW2_STAAM	Q99RW2		SAV2311
2029	928	1062	Q99UP9_STAAM	Q99UP9		SAV1219
2030	882	1065	ARLR_STAAM	P0C000		SAV1415
2034	815	1069	Q99US5_STAAM	Q99US5		SAV1192
2036	962	1074	P5CR_STAAM	Q99TZ0		SAV1503
2037	2311	1074	Q99S08_STAAM	Q99S08		SAV2264
2038	2368	1076	Q99RW3_STAAM	Q99RW3		SAV2310
2039	2163	1078	CODY_STAAM	P63843	Q99UL6;	SAV1255
2041	1065	1079	Q99SL9_STAAM	Q99SL9		SAV2027
2041	1065	1079	Q99W24_STAAM	Q99W24		SAV0587
2044	2229	1081	Q99XG4_STAAM	Q99XG4		SAV0007
2049	2422	1082	Q99V78_STAAM	Q99V78		SAV1014
2052	1908	1085	Q932I2_STAAM	Q932I2		SAV0404
2052	1908	1085	Q99TT6_STAAM	Q99TT6		SAV1560
2053	1115	1092	Q99W42_STAAM	Q99W42		SAV0567
2058	741	1096	TPIS_STAAM	P68822	Q9Z5C3;	SAV0774
2060	1152	1097	Q7A2U6_STAAM	Q7A2U6		SAV0796
2062	1550	1099	KGUA_STAAM	P65219	Q99UQ9;	SAV1209
2063	1820	1100	Q7A2S6_STAAM	Q7A2S6		SAV1188
2067	1435	1102	PUR3_STAAM	P65897	Q99V25;	SAV1072
2068	1375	1103	KGUA_STAAM	P65219	Q99UQ9;	SAV1209
2072	2100	1107	PYRH_STAAM	P65935	P59006;Q99	SAV1258
2073	862	1108	Q99VG3_STAAM	Q99VG3		SAV0842
2075	687	1109	DEOC2_STAAM	P61084	Q99SC2;	SAV2137
2075	687	1109	KAD_STAAM	P65201	Q99S40;	SAV2229
2077	1183	1110	DAPB_STAAM	P63893	Q99U88;	SAV1396
2078	1322	1110	PUR7_STAAM	P65891	Q99V31;	SAV1066
2079	1496	1110	ISPD1_STAAM	P65176	Q99WX2;	SAV0251
2079	1496	1110	ISPD2_STAAM	Q99WW8		SAV0255
2080	1717	1110	Q99SC8_STAAM	Q99SC8		SAV2130
2081	638	1111	DEOC1_STAAM	P61108	Q99X77;	SAV0138
2081	638	1111	DEOC2_STAAM	P61084	Q99SC2;	SAV2137

2083	610	1116	EFTU STAAM	P64028	Q99W61;	SAV0548
2084	1581	1116	Q99RB2 STAAM	Q99RB2		SAV2523
2085	1884	1116	ISPD1 STAAM	P65176	Q99WX2;	SAV0251
2087	817	1120	Q99SC1 STAAM	Q99SC1		SAV2138
2088	2400	1120	TRMHL STAAM	Q99W72		SAV0531
2089	766	1122	KAD STAAM	P65201	Q99S40;	SAV2229
2090	1248	1122	HIS4 STAAM	P64359	Q99QW7;	SAV2674
2092	2480	1125	Q99VQ6 STAAM	Q99VQ6		SAV0717
2093	906	1127	Q99VG3 STAAM	Q99VG3		SAV0842
2094	1134	1129	Q99UW7 STAAM	Q99UW7		SAV1137
2095	2124	1129	Q932J2 STAAM	Q932J2		SAV0386
2096	941	1130	Q99W53 STAAM	Q99W53		SAV0556
2097	1438	1132	Q99WE5 STAAM	Q99WE5		SAV0457
2098	1036	1133	KCY STAAM	P63805	Q99U12;	SAV1478
2099	1080	1134	Q99VL9 STAAM	Q99VL9		SAV0756
2103	2181	1136	Q99RU9 STAAM	Q99RU9		SAV2324
2109	1382	1145	REX STAAM	P60385	Q99SK6;	SAV2046
2111	1459	1147	Q99TN5 STAAM	Q99TN5		SAV1614
2112	1181	1148	Q48363 STAAM	Q48363		SAV1653
2112	1181	1148	Q99XD8 STAAM	Q99XD8		SAV0050
2113	1733	1153	ALDA STAAM	Q99X54		SAV0167
2117	2025	1157	PYRF STAAM	P65595	Q99UR4;	SAV1204
2120	933	1161	Q99W37 STAAM	Q99W37		SAV0572
2121	1008	1162	RECR STAAM	Q932G3		SAV0480
2122	2332	1162	Q99SH7 STAAM	Q99SH7		SAV2079
2125	1254	1163	Q932E4 STAAM	Q932E4		SAV0784
2125	1254	1163	Q99R23 STAAM	Q99R23		SAV2614
2134	1105	1168	Y1707 STAAM	P67325	Q99TF6;	SAV1707
2139	1999	1175	Q99UP5 STAAM	Q99UP5		SAV1223
2143	888	1179	PURQ STAAM	P65904	Q99V29;	SAV1068
2145	1958	1181	RUVA STAAM	P66748	Q99TL1;	SAV1642
2147	1395	1185	FABG STAAM	P0A0H9	Q99QK7;	SAV1231
2148	1572	1186	VRAR STAAM	Q7A2Q1		SAV1884
2150	1147	1189	Q99RF5 STAAM	Q99RF5		SAV2478
2150	1147	1189	Q99WJ1 STAAM	Q99WJ1		SAV0388
2151	2021	1189	URK STAAM	P67410	Q99TN8;	SAV1611
2152	1324	1191	Q99TQ6 STAAM	Q99TQ6		SAV1593
2152	1324	1191	RS4 STAAM	P66562	Q99TE4;	SAV1719
2154	1069	1192	Q99SB5 STAAM	Q99SB5		SAV2144
2155	852	1193	Q99W52 STAAM	Q99W52		SAV0557
2156	468	1195	Q99W39 STAAM	Q99W39		SAV0570
2158	627	1200	Q99TM9 STAAM	Q99TM9		SAV1620
2159	1537	1200	Q99QZ3 STAAM	Q99QZ3		SAV2645
2160	715	1202	Q99RV3 STAAM	Q99RV3		SAV2320
2161	1022	1202	Q99WJ1 STAAM	Q99WJ1		SAV0388
2162	1424	1204	FABG STAAM	P0A0H9	Q99QK7;	SAV1231
2170	988	1213	HPRT STAAM	P65827	Q99W93;	SAV0510
2170	988	1213	Q99WJ1 STAAM	Q99WJ1		SAV0388
2171	1664	1213	Q99T30 STAAM	Q99T30		SAV1848
2173	1262	1214	Q99R83 STAAM	Q99R83		SAV2553
2173	1262	1214	Q99SG8 STAAM	Q99SG8		SAV2089
2178	646	1219	Q99TC2 STAAM	Q99TC2		SAV1742
2179	2426	1224	Q931V1 STAAM	Q931V1		SAV1006
2180	2300	1228	PTH STAAM	P65867	Q99WA1;	SAV0502
2182	918	1231	RRF STAAM	P68785	Q33276;	SAV1259
2187	525	1237	Q99VD4 STAAM	Q99VD4		SAV0954

2191	2506	1239	TRMB STAAM	P67500	Q99TB6;	SAV1748
2193	1839	1240	NADD STAAM	P65501	Q99TQ5;	SAV1594
2194	1474	1242	Q99V53 STAAM	Q99V53		SAV1040
2199	2268	1246	UPP STAAM	P67395	P58999;Q99	SAV2112
2201	1252	1249	PYRR STAAM	P65943	P59012;Q99	SAV1198
2202	399	1250	Q99TW6 STAAM	Q99TW6		SAV1527
2205	1346	1256	SODM2 STAAM	P66830	Q99X82;	SAV0133
2206	2067	1256	DEF STAAM	P68825	Q9F4L4;	SAV1091
2207	678	1258	Y1265 STAAM	P67220	Q99UK7;	SAV1265
2210	1887	1259	PDXT STAAM	Q99W83		SAV0520
2211	812	1260	AHPC STAAM	P0A0B5	Q53647;	SAV0381
2212	716	1261	AHPC STAAM	P0A0B5	Q53647;	SAV0381
2212	716	1261	Q99T45 STAAM	Q99T45		SAV1831
2216	2501	1269	UNG STAAM	P67075	Q99W30;	SAV0581
2218	1304	1276	Q99T24 STAAM	Q99T24		SAV1854
2221	340	1281	Q932N8 STAAM	Q932N8		SAVP008
2224	2164	1286	Q99TA5 STAAM	Q99TA5		SAV1763
2227	186	1289	ISAA STAAM	P65645	Q99R69;	SAV2569
2229	1345	1297	Q99U18 STAAM	Q99U18		SAV1472
2230	1130	1302	CLPP STAAM	P63785	Q99VK9;	SAV0768
2232	526	1304	Q99VD4 STAAM	Q99VD4		SAV0954
2240	397	1318	Q99TW6 STAAM	Q99TW6		SAV1527
2243	704	1324	EFTU STAAM	P64028	Q99W61;	SAV0548
2245	997	1332	53DR STAAM	P66840	Q99VP8;	SAV0725
2250	956	1338	Q99V77 STAAM	Q99V77		SAV1015
2252	1300	1340	Q99VU1 STAAM	Q99VU1		SAV0680
2260	1442	1347	Q99W71 STAAM	Q99W71		SAV0532
2261	1091	1351	EFTU STAAM	P64028	Q99W61;	SAV0548
2273	599	1379	Q99X50 STAAM	Q99X50		SAV0171
2278	359	1392	PTGA STAAM	P60856	Q99U65;	SAV1422
2280	1004	1393	Q99WL1 STAAM	Q99WL1		SAV0366
2281	1034	1394	MSRA1 STAAM	P0A081	Q99QD5;	SAV1361
2281	1034	1394	Q99RC5 STAAM	Q99RC5		SAV2510
2290	1644	1405	HSLV STAAM	P65796	Q99UL8;	SAV1253
2296	2079	1417	DYR STAAM	P0A016	P10167;	SAV1426
2301	1717	1435	Q99TF3 STAAM	Q99TF3		SAV1710
2308	1607	1453	Q99WN5 STAAM	Q99WN5		SAV0342
2313	2404	1465	ATPD STAAM	P63658	Q99SF2;	SAV2106
2315	907	1469	Q99RQ8 STAAM	Q99RQ8		SAV2369
2316	2455	1476	ATPD STAAM	P63658	Q99SF2;	SAV2106
2319	1026	1481	ASP23 STAAM	P0A0P6	Q53485;	SAV2182
2320	1164	1483	ASP23 STAAM	P0A0P6	Q53485;	SAV2182
2322	1447	1486	LACB STAAM	P65646	Q99S75;	SAV2194
2326	544	1491	Q99SZ3 STAAM	Q99SZ3		SAV1893
2329	627	1496	Q99SZ3 STAAM	Q99SZ3		SAV1893
2330	1093	1499	Q99SK0 STAAM	Q99SK0		SAV2052
2331	1651	1501	Y1054 STAAM	P0A0M6	P52080;	SAV1054
2337	363	1513	GREA STAAM	P64283	Q99TN9;	SAV1610
2341	463	1526	GREA STAAM	P64283	Q99TN9;	SAV1610
2342	1297	1529	Q99UV4 STAAM	Q99UV4		SAV1153
2343	2070	1529	MOAB STAAM	P65406	Q99RZ7;	SAV2275
2345	1687	1531	LACB STAAM	P65646	Q99S75;	SAV2194
2348	627	1551	Q99SZ3 STAAM	Q99SZ3		SAV1893
2349	988	1553	Q99TE5 STAAM	Q99TE5		SAV1718
2350	938	1554	MRAZ STAAM	P65438	Q99UT2;	SAV1178
2352	1157	1555	Q99W10 STAAM	Q99W10		SAV0602

2353	1954	1558	Q99VW4 STAAM	Q99VW4		SAV0657
2354	2483	1560	Q99UY0 STAAM	Q99UY0		SAV1124
2355	2411	1567	BSAA STAAM	P64290	Q99UG8;	SAV1306
2357	466	1573	TPX STAAM	P66954	Q99TF0;	SAV1713
2358	1543	1574	Q99UC7 STAAM	Q99UC7		SAV1351
2359	1488	1586	Q99T16 STAAM	Q99T16		SAV1863
2360	632	1587	Q99TX9 STAAM	Q99TX9		SAV1514
2368	723	1618	RL10 STAAM	P66048	Q99W67;	SAV0539
2373	870	1630	UP355 STAAM	Q99WJ2		SAV0387
2377	1441	1634	RL16 STAAM	Q99S28		SAV2243
2385	1158	1639	Q99UZ1 STAAM	Q99UZ1		SAV1111
2385	1158	1639	Q99V10 STAAM	Q99V10		SAV0826
2388	1310	1641	RL16 STAAM	Q99S28		SAV2243
2392	1808	1646	FABZ STAAM	P64107	Q99SF9;	SAV2098
2393	2519	1646	COAD STAAM	P63818	Q99UX9;	SAV1125
2394	2061	1656	Q7A2R5 STAAM	Q7A2R5		SAV1498
2398	2441	1660	Q7A2Q4 STAAM	Q7A2Q4		SAV1835
2399	1477	1664	LUXS STAAM	P65329	Q99SC5;	SAV2134
2399	1477	1664	O54520 STAAM	O54520		SAV0040
2407	1096	1682	NDK STAAM	P68869	P50588;	SAV1469
2413	739	1694	Q99VG0 STAAM	Q99VG0		SAV0845
2415	1155	1695	Q99TM3 STAAM	Q99TM3		SAV1626
2417	1957	1696	Q99T23 STAAM	Q99T23		SAV1855
2418	687	1697	RSBW STAAM	P0A0H6	O08077;P95	SAV2065
2430	1037	1723	Q99VF1 STAAM	Q99VF1		SAV0925
2432	456	1728	Q99R46 STAAM	Q99R46		SAV2592
2435	848	1734	Q99T39 STAAM	Q99T39		SAV1838
2436	579	1735	Q99SC0 STAAM	Q99SC0		SAV2139
2439	811	1738	Y1176 STAAM	Q931T2		SAV1176
2445	1086	1751	EFTU STAAM	P64028	Q99W61;	SAV0548
2451	1350	1761	Q99WK5 STAAM	Q99WK5		SAV0372
2452	2388	1761	Q99W08 STAAM	Q99W08		SAV0604
2453	256	1762	Y1845 STAAM	Q99T33		SAV1845
2454	1881	1762	RISB STAAM	P61595	Q931N8;Q99	SAV1767
2455	720	1764	MSRB STAAM	P65451	Q99U64;	SAV1423
2468	1198	1789	LACA STAAM	P65250	Q99S74;	SAV2195
2473	1776	1799	Q7A2W1 STAAM	Q7A2W1		SAV0641
2475	1578	1800	RL20 STAAM	P66107	Q99T13;	SAV1678
2478	2155	1812	Q99V33 STAAM	Q99V33		SAV1064
2483	571	1817	RL7 STAAM	P66061	Q99W66;	SAV0540
2487	852	1823	CH10 STAAM	P0A012	Q08841;	SAV2030
2507	1274	1843	ROT STAAM	Q99TA4		SAV1764
2508	1439	1844	RL21 STAAM	Q99TK6		SAV1647
2509	726	1848	Q99VH8 STAAM	Q99VH8		SAV0828
2510	1373	1849	ROT STAAM	Q99TA4		SAV1764
2512	654	1850	SP5G STAAM	Q99WA5		SAV0498
2514	1205	1851	YABA STAAM	Q99WB7		SAV0486
2533	2440	1887	SPX STAAM	P60378	Q99V93;	SAV0997
2536	1961	1893	Q99T38 STAAM	Q99T38		SAV1839
2537	2144	1895	RL21 STAAM	Q99TK6		SAV1647
2539	361	1900	Q7A2R8 STAAM	Q7A2R8		SAV1402
2543	674	1905	Q99WD6 STAAM	Q99WD6		SAV0467
2549	949	1914	Q99XE5 STAAM	Q99XE5		SAV0034
2552	2366	1916	RL21 STAAM	Q99TK6		SAV1647
2554	2021	1919	Q99U42 STAAM	Q99U42		SAV1446
2555	495	1923	ESXA STAAM	Q99WU4		SAV0282

2557	1807	1925	Q99W41 STAAM	Q99W41		SAV0568
2564	654	1939	Q99VN3 STAAM	Q99VN3		SAV0741
2569	1036	1945	EFTU STAAM	P64028	Q99W61;	SAV0548
2569	1036	1945	NUSB STAAM	P65577	Q99TW9;	SAV1524
2572	361	1948	Q7A2R8 STAAM	Q7A2R8		SAV1402
2575	1924	1952	EFTU STAAM	P64028	Q99W61;	SAV0548
2575	1924	1952	Q99UP3 STAAM	Q99UP3		SAV1225
2577	427	1961	PTHP STAAM	P0A0E1	P02907;	SAV1083
2578	204	1962	RSBV STAAM	P66837	Q925Z9;	SAV2066
2582	1835	1972	Q99TU8 STAAM	Q99TU8		SAV1546
2584	861	1977	Q99RB4 STAAM	Q99RB4		SAV2521
2597	255	1996	Q99VE5 STAAM	Q99VE5		SAV0936
2616	516	2015	Q99TA9 STAAM	Q99TA9		SAV1759
2618	1013	2017	RS6 STAAM	P66595	Q99WL2;	SAV0365
2619	832	2018	RS6 STAAM	P66595	Q99WL2;	SAV0365
2620	473	2020	Q99VH5 STAAM	Q99VH5		SAV0831
2622	657	2024	Y1236 STAAM	P67248	Q99UN4;	SAV1236
2627	383	2036	Q99RX7 STAAM	Q99RX7		SAV2296
2631	716	2041	Q99V30 STAAM	Q99V30		SAV1067
2632	305	2044	THIO STAAM	P0A0K4	Q9ZEH4;	SAV1145
2638	1340	2055	Y1090 STAAM	Q931U1		SAV1090
2641	1173	2063	Y1097 STAAM	P67358	Q99V05;	SAV1097
2872	1372	371	Q99TY8 STAAM	Q99TY8		SAV1505
2873	1352	386	CATA STAAM	Q99UE2		SAV1334
2877	2414	482	MQO2 STAAM	P65424	Q99R30;	SAV2607
2888	795	184	EFG STAAM	P68788	P81683;Q9X	SAV0547
2890	769	187	EFG STAAM	P68788	P81683;Q9X	SAV0547
2891	763	199	EFG STAAM	P68788	P81683;Q9X	SAV0547
2891	763	199	PURL STAAM	P65900	Q99V28;	SAV1069
2893	894	58	RPOB STAAM	Q932F8		SAV0542
2894	864	57	RPOB STAAM	Q932F8		SAV0542
2901	1573	428	Q99VG2 STAAM	Q99VG2		SAV0843
2902	1557	441	IMDH STAAM	P65169	Q99WI9;	SAV0390
2902	1557	441	Q99VG2 STAAM	Q99VG2		SAV0843
2909	1453	603	Q99VE0 STAAM	Q99VE0		SAV0941
2911	1445	540	MURA2 STAAM	P65456	Q99SD4;	SAV2124
2913	616	423	AHPF STAAM	P66012	Q99WJ7;	SAV0380
2913	616	423	GLMM STAAM	P65704	Q99QR5;	SAV2161
2915	750	733	PUR5 STAAM	P67721	Q99V26;	SAV1071
2915	750	733	Q7A2V3 STAAM	Q7A2V3		SAV0732
2920	632	797	EFTU STAAM	P64028	Q99W61;	SAV0548
2920	632	797	Q99TX7 STAAM	Q99TX7		SAV1516
2922	544	1916	Q7A2R8 STAAM	Q7A2R8		SAV1402
2927	1743	2025	Q99TQ4 STAAM	Q99TQ4		SAV1595
2932	1266	263	SYT STAAM	P67584	Q99TH9;	SAV1683
2932	1266	263	UVRB STAAM	P67424	Q99VL7;	SAV0758
2937	1004	458	GATB STAAM	P64201	Q99SY7;	SAV1899
2937	1004	458	SYG STAAM	P67034	Q99TT1;	SAV1565
2940	952	401	ROCA STAAM	P63939	Q99R82;	SAV2554
2943	934	419	DLDH STAAM	P0A0E6	Q59822;	SAV1096
2946	1071	602	GSA2 STAAM	Q99T15		SAV1864
2949	1100	606	PGK STAAM	P68819	Q9Z5C4;	SAV0773
2952	1119	557	Q932K4 STAAM	Q932K4		SAV0217
2960	1035	515	FABF STAAM	Q99VA6		SAV0984
2962	1876	650	Q99US1 STAAM	Q99US1		SAV1197
2966	1890	580	ACKA STAAM	Q931P6		SAV1711

2968	1881	628	Q7A2L0_STAAM	Q7A2L0		SAV2545
2973	1045	872	ALF2_STAAM	P67477	Q99SD3;	SAV2125
2974	1060	811	LACD_STAAM	P0A009	P11100;	SAV2192
2975	1096	804	PDXS_STAAM	P60797	Q99W84;	SAV0519
2977	1074	829	Q7A2W6_STAAM	Q7A2W6		SAV0591
2979	1424	1047	Q932I0_STAAM	Q932I0		SAV0406
2981	1448	1041	ISAA_STAAM	P65645	Q99R69;	SAV2569
2985	1295	1452	QUEF_STAAM	Q99VP5		SAV0728
2986	1303	1410	Q99W38_STAAM	Q99W38		SAV0571
2987	1309	1426	Q7A2T3_STAAM	Q7A2T3		SAV0634
2987	1309	1426	Q99RU8_STAAM	Q99RU8		SAV2325
2990	1022	1250	SODM1_STAAM	P0A0J1	Q9Z5W5;	SAV1553
2995	1052	1257	PYRE_STAAM	P65916	Q99UR3;	SAV1205
2998	1692	1852	ATPE_STAAM	P63664	Q99SF6;	SAV2102
3005	1622	630	AROC_STAAM	P63613	Q99U23;	SAV1466
3006	1633	648	DNAJ_STAAM	P63970	Q99TR8;	SAV1579
3013	1077	462	GLNA_STAAM	P60890	Q99UG5;	SAV1310
3013	1077	462	LACG_STAAM	P67767	Q99S78;	SAV2189
3015	1000	370	Q99R24_STAAM	Q99R24		SAV2613
3017	980	394	GUAA_STAAM	P64296	Q99W18;	SAV0391
3020	871	240	ODP2_STAAM	P65635	Q99V06;	SAV1095
3020	871	240	Q99UJ8_STAAM	Q99UJ8		SAV1274
3021	892	248	ODP2_STAAM	P65635	Q99V06;	SAV1095
3023	968	317	SYD_STAAM	P67014	Q99TL9;	SAV1630
3024	1237	267	Q99TG5_STAAM	Q99TG5		SAV1697
3025	1213	260	Q99VP2_STAAM	Q99VP2		SAV0731
3026	891	128	RPOB_STAAM	Q932F8		SAV0542
3027	1142	1347	NUSG_STAAM	P0A095	O08386;	SAV0535
3027	1142	1347	Q99SV9_STAAM	Q99SV9		SAV1929
3028	1137	1375	NUSG_STAAM	P0A095	O08386;	SAV0535
10051	904	374	Q99R96_STAAM	Q99R96		SAV2539
10058	882	394	BETA_STAAM	P60336	Q99R25;	SAV2612
10063	825	400	BETA_STAAM	P60336	Q99R25;	SAV2612
10072	861	452	Q99V09_STAAM	Q99V09		SAV1089
10073	827	453	Q99V09_STAAM	Q99V09		SAV1089
10076	718	454	Q99UH2_STAAM	Q99UH2		SAV1302
10077	795	454	Q99V09_STAAM	Q99V09		SAV1089
10080	624	459	Q99UH2_STAAM	Q99UH2		SAV1302
10089	1020	497	Q99R73_STAAM	Q99R73		SAV2564
10090	1189	499	Q931H3_STAAM	Q931H3		SAV2121
10094	749	508	Q99W44_STAAM	Q99W44		SAV0565
10097	632	511	Q99W77_STAAM	Q99W77		SAV0526
10100	1019	521	Q99R73_STAAM	Q99R73		SAV2564
10105	745	530	Q99T44_STAAM	Q99T44		SAV1832
10112	1318	545	Q99VQ4_STAAM	Q99VQ4		SAV0719
10117	644	552	Y1897_STAAM	Q99SY9		SAV1897
10120	792	555	Q99SW7_STAAM	Q99SW7		SAV1920
10122	709	559	Q99SW7_STAAM	Q99SW7		SAV1920
10130	1348	590	FEMX_STAAM	Q7A2M4		SAV2262
10139	1231	602	FEMX_STAAM	Q7A2M4		SAV2262
10141	1679	603	Q931F4_STAAM	Q931F4		SAV2418
10142	787	604	Q99UG7_STAAM	Q99UG7		SAV1307
10147	897	614	FEMA_STAAM	Q99UA7		SAV1374
10149	860	615	FEMA_STAAM	Q99UA7		SAV1374
10152	817	618	FEMA_STAAM	Q99UA7		SAV1374
10158	641	635	Q99V16_STAAM	Q99V16		SAV1081

10161	699	641	Q99X09_STAAM	Q99X09		SAV0213
10163	974	641	Q99TP6_STAAM	Q99TP6		SAV1603
10166	810	648	THII_STAAM	Q931P5		SAV1715
10167	1253	649	Q99TM2_STAAM	Q99TM2		SAV1627
10172	655	666	Q99WW9_STAAM	Q99WW9		SAV0254
10181	754	685	ALR1_STAAM	P63479	Q99SI5;	SAV2070
10190	1104	705	Q99VA2_STAAM	Q99VA2		SAV0988
10191	1368	713	Q99TQ2_STAAM	Q99TQ2		SAV1597
10199	862	730	Q99TE1_STAAM	Q99TE1		SAV1723
10203	760	745	Q99RZ6_STAAM	Q99RZ6		SAV2276
10205	638	746	TAGX_STAAM	Q99VX6		SAV0640
10206	1335	746	MURG_STAAM	P65481	Q99U69;	SAV1418
10212	795	759	Q99UQ0_STAAM	Q99UQ0		SAV1218
10215	868	761	Q99VG8_STAAM	Q99VG8		SAV0837
10216	1256	764	Q99R49_STAAM	Q99R49		SAV2589
10217	679	766	Q99UQ0_STAAM	Q99UQ0		SAV1218
10218	1418	772	Q99TA2_STAAM	Q99TA2		SAV1766
10223	749	785	NOSO_STAAM	P0A092	Q99SX3;	SAV1914
10234	1455	812	Q99VQ5_STAAM	Q99VQ5		SAV0718
10235	1665	814	Q931I5_STAAM	Q931I5		SAV2005
10235	1665	814	Q99U20_STAAM	Q99U20		SAV1470
10236	620	820	Q99XF9_STAAM	Q99XF9		SAV0012
10268	787	901	Q99TH8_STAAM	Q99TH8		SAV1684
10269	749	902	GUAC_STAAM	P60562	Q99UD9;	SAV1337
10274	1503	911	PRSA_STAAM	P60747	Q99T36;	SAV1841
10277	631	923	Y1743_STAAM	Q99TC1		SAV1743
10279	1106	932	Q99SV7_STAAM	Q99SV7		SAV1931
10281	1371	936	Q99TH3_STAAM	Q99TH3		SAV1689
10282	969	937	Q99T28_STAAM	Q99T28		SAV1850
10289	1557	952	Q99WF7_STAAM	Q99WF7		SAV0445
10290	1447	953	Q931T5_STAAM	Q931T5		SAV1149
10291	620	962	MIAA_STAAM	P65354	Q99UH0;	SAV1304
10293	783	970	CBIO1_STAAM	Q99S48		SAV2221
10297	1519	980	Q7A2J9_STAAM	Q7A2J9		SAVP016
10298	717	989	Q99W21_STAAM	Q99W21		SAV0590
10300	1182	991	Q99VC9_STAAM	Q99VC9		SAV0959
10301	749	992	Q932N5_STAAM	Q932N5		SAVP010
10302	1119	998	Q99TM1_STAAM	Q99TM1		SAV1628
10310	1318	1014	Q99TG2_STAAM	Q99TG2		SAV1701
10311	1490	1014	SSAA2_STAAM	Q99RX4		SAV2299
10312	1611	1014	Q99TZ8_STAAM	Q99TZ8		SAV1493
10314	1653	1016	Q99RE8_STAAM	Q99RE8		SAV2485
10314	1653	1016	Q99TZ8_STAAM	Q99TZ8		SAV1493
10314	1653	1016	TAGH_STAAM	Q7A2W2		SAV0637
10315	1697	1016	RL3_STAAM	P60448	Q99S21;	SAV2250
10319	1842	1023	RL3_STAAM	P60448	Q99S21;	SAV2250
10321	1528	1031	UBIE_STAAM	P67061	Q99U19;	SAV1471
10324	1155	1048	PPNK_STAAM	P65776	Q99V84;	SAV1007
10328	1447	1052	Q7A2Y5_STAAM	Q7A2Y5		SAV0150
10331	1315	1055	Q7A2V9_STAAM	Q7A2V9		SAV0633
10338	1529	1086	RL1_STAAM	P66091	Q932F9;	SAV0538
10350	939	1103	MURI_STAAM	P63637	Q99UV6;	SAV1151
10351	1320	1107	Q99TK4_STAAM	Q99TK4		SAV1649
10352	1030	1110	Q99TU0_STAAM	Q99TU0		SAV1556
10352	1030	1110	S3AD_STAAM	P0A0D0	P04827;	SAV0053
10353	1358	1115	Q7A2X0_STAAM	Q7A2X0		SAV0541

10354	1120	1120	MQO2_STAAM	P65424	Q99R30;	SAV2607
10360	1682	1130	CYSE_STAAM	P67764	Q99W74;	SAV0529
10361	540	1133	CODY_STAAM	P63843	Q99UL6;	SAV1255
10366	884	1150	Q7A2K3_STAAM	Q7A2K3		SAV2701
10373	696	1171	GIDB_STAAM	P64239	Q99QT5;	SAV2710
10383	1128	1203	Q99VC9_STAAM	Q99VC9		SAV0959
10384	1831	1211	RS3_STAAM	P66552	Q99S27;	SAV2244
10387	1574	1215	RS3_STAAM	P66552	Q99S27;	SAV2244
10388	1454	1220	Q931T8_STAAM	Q931T8		SAV1106
10388	1454	1220	RS3_STAAM	P66552	Q99S27;	SAV2244
10393	1545	1245	Q99WI7_STAAM	Q99WI7		SAV0416
10395	512	1263	RS4_STAAM	P66562	Q99TE4;	SAV1719
10395	512	1263	UPP_STAAM	P67395	P58999;Q99	SAV2112
10398	843	1266	ENGB_STAAM	P64070	Q99T18;	SAV1673
10401	1581	1300	RL5_STAAM	Q99S33		SAV2238
10403	1632	1305	RL5_STAAM	Q99S33		SAV2238
10404	1524	1307	RL5_STAAM	Q99S33		SAV2238
10407	1326	1329	QACR_STAAM	P0A0N3	P23217;	SAVP031
10410	1611	1347	Q99V07_STAAM	Q99V07		SAV1092
10411	1727	1360	RL6_STAAM	Q99S36		SAV2235
10412	1664	1363	RL6_STAAM	Q99S36		SAV2235
10417	1580	1414	Q99UH6_STAAM	Q99UH6		SAV1298
10419	1640	1436	Y024_STAAM	P0A0N6	Q99VW7;	SAV0024
10423	682	1451	MSRA2_STAAM	P65445	Q99U63;	SAV1424
10425	1576	1474	Q99VH6_STAAM	Q99VH6		SAV0830
10435	1069	1558	Q99RS1_STAAM	Q99RS1		SAV2354
10437	1745	1575	RS2_STAAM	P66543	Q99UL5;	SAV1256
10438	1774	1586	RS2_STAAM	P66543	Q99UL5;	SAV1256
10440	1634	1609	RL13_STAAM	Q99S51		SAV2218
10442	606	1614	Q7A2Q4_STAAM	Q7A2Q4		SAV1835
10443	1564	1615	RL13_STAAM	Q99S51		SAV2218
10446	1841	1630	RS5_STAAM	P66578	Q99S38;	SAV2233
10449	1210	1644	Q99R70_STAAM	Q99R70		SAV2568
10449	1210	1644	Q99TR0_STAAM	Q99TR0		SAV1589
10450	1401	1650	RL25_STAAM	Q99WA2		SAV0501
10451	1639	1665	Q932K6_STAAM	Q932K6		SAV0210
10451	1639	1665	RL9_STAAM	P66317	Q99XF6;	SAV0015
10452	1480	1669	Q99TB3_STAAM	Q99TB3		SAV1752
10454	1934	1683	RS7_STAAM	P66615	Q99W62;	SAV0546
10455	663	1684	DTD_STAAM	P0A025	O32420;	SAV1633
10459	702	1689	DTD_STAAM	P0A025	O32420;	SAV1633
10463	1733	1701	Q99W95_STAAM	Q99W95		SAV0508
10464	871	1703	Q99T31_STAAM	Q99T31		SAV1847
10467	1510	1740	Q7A2L7_STAAM	Q7A2L7		SAV2357
10470	1881	1750	RL22_STAAM	Q99S26		SAV2245
10471	1787	1754	RL17_STAAM	Q99S46		SAV2223
10478	835	1770	MGRA_STAAM	Q99VT5		SAV0686
10480	1589	1788	Q931V5_STAAM	Q931V5		SAV0917
10481	1644	1801	RL11_STAAM	P0A0F1	O06443;	SAV0537
10482	1845	1803	RS7_STAAM	P66615	Q99W62;	SAV0546
10486	1530	1812	ISAA_STAAM	P65645	Q99R69;	SAV2569
10486	1530	1812	RL11_STAAM	P0A0F1	O06443;	SAV0537
10490	1101	1829	RS9_STAAM	P66645	Q99S52;	SAV2217
10491	1147	1832	Q7A2T4_STAAM	Q7A2T4		SAV0953
10493	1733	1840	Q99TF7_STAAM	Q99TF7		SAV1706
10494	1801	1842	RL24_STAAM	P60734	Q99S32;	SAV2239

10495	1213	1861	SARA_STAAM	Q7A2W5		SAV0616
10496	1114	1862	SARA_STAAM	Q7A2W5		SAV0616
10497	1559	1863	RS8_STAAM	P66629	Q99S35;	SAV2236
10498	1631	1866	RS8_STAAM	P66629	Q99S35;	SAV2236
10501	908	1871	SARA_STAAM	Q7A2W5		SAV0616
10502	1994	1889	RL14_STAAM	Q99S31		SAV2240
10502	1994	1889	RS7_STAAM	P66615	Q99W62;	SAV0546
10504	1510	1898	SARV_STAAM	Q99S05		SAV2267
10505	1559	1902	SARR_STAAM	Q7A2M3		SAV2295
10509	1648	1919	SARR_STAAM	Q7A2M3		SAV2295
10510	942	1927	ACPS_STAAM	P63468	Q99S14;	SAV2071
10512	750	1949	Q99VH4_STAAM	Q99VH4		SAV0832
10515	1110	1968	RBFA_STAAM	P65966	Q99UK2;	SAV1270
10515	1110	1968	RL23_STAAM	Q99S23		SAV2248
10518	695	1983	Q931G8_STAAM	Q931G8		SAV2173
10520	886	1997	Q99TW8_STAAM	Q99TW8		SAV1525
10522	1719	2010	Q99TW8_STAAM	Q99TW8		SAV1525
10524	1938	2025	Q99SZ9_STAAM	Q99SZ9		SAV1882
10524	1938	2025	RS16_STAAM	P66439	Q99UN2;	SAV1238
10524	1938	2025	RS7_STAAM	P66615	Q99W62;	SAV0546
10526	1192	2070	RL31B_STAAM	P66195	Q99SD8;	SAV2120

Volume	Peak Height	Area	%Vol	Obs. pl	ps. MW (kDa)
453245	14751	406	5.7E-03	5.40	130
453245	14751	406	5.7E-03	5.40	130
1793679	19531	555	2.3E-02	5.34	129
1546649	17748	347	2.0E-02	5.66	128
540362	11037	411	6.8E-03	5.82	123
583456	9295	552	7.4E-03	5.57	122
402330	10195	287	5.1E-03	5.20	122
402330	10195	287	5.1E-03	5.20	122
1701636	22737	376	2.2E-02	5.09	120
1701636	22737	376	2.2E-02	5.09	120
866738	14805	365	1.1E-02	5.35	119
866738	14805	365	1.1E-02	5.35	119
449057	12155	338	5.7E-03	5.40	118
449057	12155	338	5.7E-03	5.40	118
4807067	23058	608	6.1E-02	5.38	118
786198	11193	579	9.9E-03	6.24	117
1055582	15571	270	1.3E-02	5.34	115
792063	7631	677	1.0E-02	6.38	115
2458200	23529	1377	3.1E-02	5.02	115
2458200	23529	1377	3.1E-02	5.02	115
717323	9651	555	9.1E-03	6.32	114
20574974	45380	1356	2.6E-01	5.06	114
955954	16119	472	1.2E-02	5.82	114
2693137	18890	523	3.4E-02	6.45	114
1360117	23315	384	1.7E-02	5.08	113
1360117	23315	384	1.7E-02	5.08	113
780732	8880	580	9.9E-03	5.66	113
1742862	14309	1001	2.2E-02	5.77	113
1985141	15364	687	2.5E-02	5.70	112
2263341	18987	997	2.9E-02	5.52	112
2263341	18987	997	2.9E-02	5.52	112
2369507	16950	825	3.0E-02	5.60	112
324183	6750	334	4.1E-03	5.16	112
7837398	29338	962	9.9E-02	5.74	112
11791028	31640	1246	1.5E-01	5.56	111
2454806	14219	769	3.1E-02	5.24	110
10924963	26255	1280	1.4E-01	5.27	108
5898170	31002	1457	7.5E-02	5.29	106
5898170	31002	1457	7.5E-02	5.29	106
2634674	19697	590	3.3E-02	5.18	104
8018229	25451	1051	1.0E-01	5.22	103
819004	14800	287	1.0E-02	5.24	103
819004	14800	287	1.0E-02	5.24	103
9375236	26641	1180	1.2E-01	4.86	100
965947	23046	283	1.2E-02	5.27	100
965947	23046	283	1.2E-02	5.27	100
1809451	17689	676	2.3E-02	5.51	98
815476	9846	519	1.0E-02	5.44	98
5749846	22114	1126	7.3E-02	5.41	97
3107003	18309	880	3.9E-02	6.49	96
2330302	16437	786	2.9E-02	6.36	95
145276	4469	223	1.8E-03	5.76	92
1647362	12996	920	2.1E-02	5.88	92

2237696	13830	952	2.8E-02	5.79	92
4387673	25189	1680	5.5E-02	5.84	90
4387673	25189	1680	5.5E-02	5.84	90
7302531	22447	1199	9.2E-02	5.19	89
139819	5272	145	1.8E-03	4.85	89
927450	8124	659	1.2E-02	5.39	88
1571813	13432	797	2.0E-02	6.57	87
2461749	13709	778	3.1E-02	5.33	87
424312	6075	419	5.4E-03	4.92	87
8281733	21932	1407	1.0E-01	5.36	86
1792359	15670	562	2.3E-02	6.05	86
1282966	14946	562	1.6E-02	4.77	86
2680992	19770	551	3.4E-02	5.17	86
1358168	14433	629	1.7E-02	5.63	86
1001738	15089	384	1.3E-02	6.03	86
439362	7531	341	5.6E-03	4.95	84
4654891	18781	810	5.9E-02	5.40	81
1248653	9471	733	1.6E-02	6.36	81
437011	4897	574	5.5E-03	6.54	80
746050	8260	569	9.4E-03	6.33	80
5404872	20473	1148	6.8E-02	6.45	80
1071652	9331	564	1.4E-02	6.12	78
25686965	37498	2085	3.2E-01	4.54	78
4948860	22274	1060	6.3E-02	6.07	78
1965861	11012	699	2.5E-02	5.35	78
1747451	9729	895	2.2E-02	5.60	78
10721135	23975	1219	1.4E-01	5.39	77
10162801	24140	1588	1.3E-01	5.56	77
5059805	14730	1270	6.4E-02	5.10	76
868012	7970	580	1.1E-02	5.31	76
4780691	18338	797	6.0E-02	5.41	76
2488342	16091	1139	3.1E-02	5.16	75
2488342	16091	1139	3.1E-02	5.16	75
1111220	16293	849	1.4E-02	6.14	75
1111220	16293	849	1.4E-02	6.14	75
727206	6616	683	9.2E-03	5.71	75
3819750	18801	692	4.8E-02	5.18	74
2700188	12776	555	3.4E-02	5.43	74
5986570	22506	1379	7.6E-02	5.65	74
4925918	18535	910	6.2E-02	5.25	74
1495860	15705	726	1.9E-02	5.53	74
1495860	15705	726	1.9E-02	5.53	74
2598181	16001	610	3.3E-02	5.00	74
31085516	37288	2168	3.9E-01	5.22	74
24849525	34843	2075	3.1E-01	4.82	73
1175820	13117	725	1.5E-02	5.59	73
1175820	13117	725	1.5E-02	5.59	73
496183	3164	837	6.3E-03	5.80	73
5820032	22498	822	7.4E-02	4.87	73
759127	5426	732	9.6E-03	6.24	73
13429537	30980	1533	1.7E-01	4.95	72
538051	4976	371	6.8E-03	4.75	72
3496632	16523	993	4.4E-02	4.92	72
2033949	14272	849	2.6E-02	5.62	72
3755597	18927	1061	4.7E-02	6.31	72
1726610	11448	917	2.2E-02	4.67	72

583987	7227	542	7.4E-03	6.09	72
9577403	25984	1484	1.2E-01	4.70	71
1356578	9952	840	1.7E-02	4.72	71
4482197	21932	758	5.7E-02	5.06	71
2614987	12756	874	3.3E-02	4.99	71
6755470	23707	1271	8.5E-02	5.56	70
4368700	24136	1267	5.5E-02	4.77	70
4368700	24136	1267	5.5E-02	4.77	70
2535863	12691	952	3.2E-02	5.42	70
2505445	12921	752	3.2E-02	5.26	69
3266856	18117	1537	4.1E-02	5.34	69
3266856	18117	1537	4.1E-02	5.34	69
16421650	29384	2192	2.1E-01	5.38	69
16532902	28380	2205	2.1E-01	5.30	69
754953	10735	430	9.5E-03	5.03	69
9809065	25362	1068	1.2E-01	4.88	69
1841894	12844	535	2.3E-02	5.17	69
2087121	15563	375	2.6E-02	5.23	69
1510624	14327	349	1.9E-02	4.86	69
14252643	28171	1516	1.8E-01	5.09	69
10432138	29271	941	1.3E-01	5.06	68
2449043	13642	680	3.1E-02	4.95	68
1157930	11278	658	1.5E-02	6.47	67
10390144	37249	574	1.3E-01	4.83	67
4950321	21695	1234	6.3E-02	5.58	67
737911	8251	494	9.3E-03	5.53	67
2521922	14058	674	3.2E-02	4.76	67
2257042	14907	773	2.9E-02	5.18	66
22156158	31813	1959	2.8E-01	4.79	66
1300578	9774	880	1.6E-02	6.09	66
14627732	29092	1301	1.8E-01	5.25	66
11506330	21060	2440	1.5E-01	4.98	64
1259895	12545	1093	1.6E-02	6.15	64
1259895	12545	1093	1.6E-02	6.15	64
3793488	20458	975	4.8E-02	5.31	64
1738014	14194	835	2.2E-02	4.94	64
1738014	14194	835	2.2E-02	4.94	64
12889045	26398	2069	1.6E-01	6.20	64
6198803	19542	1189	7.8E-02	4.92	63
1941258	13723	753	2.5E-02	6.29	63
1690408	13369	951	2.1E-02	5.73	63
695549	6917	511	8.8E-03	4.73	63
5307759	22075	805	6.7E-02	5.26	63
3182937	12424	1178	4.0E-02	5.50	63
15456365	29353	1783	2.0E-01	5.55	63
2160792	18470	1287	2.7E-02	5.48	62
2160792	18470	1287	2.7E-02	5.48	62
1189060	8144	728	1.5E-02	5.67	62
13877197	27974	1717	1.8E-01	5.09	62
12957852	30307	1310	1.6E-01	5.29	61
523810	7832	741	6.6E-03	4.66	61
523810	7832	741	6.6E-03	4.66	61
9171167	26763	1688	1.2E-01	5.35	61
760048	6902	542	9.6E-03	6.29	61
8505190	25889	1875	1.1E-01	4.69	61
1801541	15601	443	2.3E-02	4.91	61

4520805	16804	985	5.7E-02	5.53	61
565478	5714	915	7.1E-03	5.87	61
565478	5714	915	7.1E-03	5.87	61
169731	3307	327	2.1E-03	4.77	61
4383262	19783	1318	5.5E-02	6.40	61
3687649	12880	1307	4.7E-02	5.65	60
3018773	12036	1369	3.8E-02	5.84	60
2100270	10068	1044	2.7E-02	6.00	60
4806895	15686	1445	6.1E-02	6.03	60
23935848	36529	3070	3.0E-01	5.92	60
4423373	15467	1388	5.6E-02	6.22	60
2326616	16796	845	2.9E-02	6.33	60
686877	5981	493	8.7E-03	6.49	60
6459996	19968	1165	8.2E-02	5.15	60
4215166	17873	410	5.3E-02	5.26	60
29023893	36440	2471	3.7E-01	6.12	60
6955975	30467	2071	8.8E-02	6.16	60
6955975	30467	2071	8.8E-02	6.16	60
8068424	25424	2141	1.0E-01	6.59	59
682092	9551	311	8.6E-03	5.66	59
1540800	19898	735	1.9E-02	4.92	59
1540800	19898	735	1.9E-02	4.92	59
5214923	28156	1044	6.6E-02	5.32	59
5214923	28156	1044	6.6E-02	5.32	59
14476573	29979	1896	1.8E-01	5.39	59
2014428	13371	1084	2.5E-02	6.45	59
3768844	14077	1401	4.8E-02	5.43	58
15287548	29800	1016	1.9E-01	5.27	58
7754626	33206	859	9.8E-02	5.30	58
7754626	33206	859	9.8E-02	5.30	58
7630236	45524	941	9.6E-02	5.50	58
3768814	16108	895	4.8E-02	4.83	58
995325	10432	786	1.3E-02	5.05	58
995325	10432	786	1.3E-02	5.05	58
21051841	34923	2251	2.7E-01	4.99	57
30376485	40157	1908	3.8E-01	5.13	57
2171422	14865	860	2.7E-02	6.39	57
7828472	22099	1846	9.9E-02	5.74	56
4088649	22765	1435	5.2E-02	5.88	56
4088649	22765	1435	5.2E-02	5.88	56
5061467	16938	1448	6.4E-02	5.71	56
5574204	15758	1152	7.0E-02	5.47	56
7694889	22837	1717	9.7E-02	5.66	56
13907361	32337	1544	1.8E-01	4.75	56
2112890	9387	1097	2.7E-02	6.12	56
3529280	16701	1134	4.5E-02	4.68	56
15209703	30148	1606	1.9E-01	5.02	56
30670297	37637	2380	3.9E-01	5.53	56
2165571	20498	849	2.7E-02	5.73	55
2165571	20498	849	2.7E-02	5.73	55
8457144	26753	708	1.1E-01	5.27	55
4200979	14933	1428	5.3E-02	6.01	55
11652925	35312	3376	1.5E-01	5.58	55
11652925	35312	3376	1.5E-01	5.58	55
8441692	21990	1566	1.1E-01	5.83	55
5405903	20180	614	6.8E-02	5.04	55

1421329	9777	881	1.8E-02	6.28	55
52643315	45829	3411	6.7E-01	5.92	54
4976095	13352	1589	6.3E-02	5.42	54
11917744	27812	1203	1.5E-01	4.90	54
21044156	46748	2129	2.7E-01	5.08	54
21044156	46748	2129	2.7E-01	5.08	54
18092327	43316	3479	2.3E-01	5.37	54
18092327	43316	3479	2.3E-01	5.37	54
1437312	10607	486	1.8E-02	5.45	54
1113187	13646	350	1.4E-02	5.20	54
1113187	13646	350	1.4E-02	5.20	54
1994228	6188	1279	2.5E-02	6.40	54
4863781	20301	692	6.1E-02	5.13	54
3088707	24026	922	3.9E-02	5.51	54
3088707	24026	922	3.9E-02	5.51	54
17092383	31523	1649	2.2E-01	4.84	54
2246574	16643	932	2.8E-02	4.93	54
2246574	16643	932	2.8E-02	4.93	54
2050641	29240	600	2.6E-02	5.54	53
2050641	29240	600	2.6E-02	5.54	53
187327	3119	183	2.4E-03	6.46	53
633502	6760	709	8.0E-03	6.22	53
10755631	21783	2699	1.4E-01	6.51	53
22384797	38846	1659	2.8E-01	5.23	53
6839061	21604	1320	8.6E-02	5.67	53
639504	5161	645	8.1E-03	5.76	53
3253168	15700	1100	4.1E-02	6.13	53
2292989	16465	1586	2.9E-02	6.56	53
2292989	16465	1586	2.9E-02	6.56	53
5498095	13827	1462	7.0E-02	4.72	53
15547236	46258	1707	2.0E-01	5.10	52
15547236	46258	1707	2.0E-01	5.10	52
5428802	19168	1649	6.9E-02	6.67	52
960688	17479	423	1.2E-02	5.20	52
960688	17479	423	1.2E-02	5.20	52
1840112	9249	1136	2.3E-02	6.02	52
8020430	22765	1674	1.0E-01	6.34	52
13911316	37756	1795	1.8E-01	5.26	52
13911316	37756	1795	1.8E-01	5.26	52
8447159	34381	1174	1.1E-01	4.75	52
8447159	34381	1174	1.1E-01	4.75	52
1013928	12251	544	1.3E-02	5.05	52
1013928	12251	544	1.3E-02	5.05	52
4123006	12707	1798	5.2E-02	6.73	52
8824850	28151	1193	1.1E-01	5.90	52
138050539	65535	4781	1.7E+00	4.97	51
6652649	22877	1251	8.4E-02	6.06	51
15303369	28878	1471	1.9E-01	4.89	51
3181397	26664	456	4.0E-02	5.27	51
3181397	26664	456	4.0E-02	5.27	51
3787976	20755	453	4.8E-02	5.29	51
5348310	19504	1265	6.8E-02	4.71	51
84797292	57083	4525	1.1E+00	4.79	51
7723932	22002	872	9.8E-02	4.93	51
7177411	22801	1089	9.1E-02	5.00	51
10047191	24102	1998	1.3E-01	5.64	50

12422084	26946	1327	1.6E-01	5.33	50
5101494	23946	1405	6.4E-02	4.82	50
5101494	23946	1405	6.4E-02	4.82	50
578473	8754	645	7.3E-03	5.52	50
578473	8754	645	7.3E-03	5.52	50
10716857	25096	1413	1.4E-01	5.60	49
8509781	24001	1366	1.1E-01	5.58	49
11107398	24925	1887	1.4E-01	5.45	49
4207805	21198	974	5.3E-02	5.10	49
4207805	21198	974	5.3E-02	5.10	49
1373786	9971	853	1.7E-02	6.43	49
1739048	12262	775	2.2E-02	4.75	49
32094800	41193	2152	4.1E-01	4.85	49
3677352	24833	833	4.6E-02	4.88	49
3677352	24833	833	4.6E-02	4.88	49
789256	6643	599	1.0E-02	6.61	48
3246298	18152	1846	4.1E-02	6.04	48
3246298	18152	1846	4.1E-02	6.04	48
2011118	8524	1175	2.5E-02	6.00	48
2265117	22522	1262	2.9E-02	5.15	48
2265117	22522	1262	2.9E-02	5.15	48
4265463	18957	705	5.4E-02	5.91	48
4455850	22857	1229	5.6E-02	5.35	48
4455850	22857	1229	5.6E-02	5.35	48
13806213	27458	1927	1.7E-01	6.10	48
10971161	44091	1554	1.4E-01	4.97	48
10971161	44091	1554	1.4E-01	4.97	48
1241800	6168	843	1.6E-02	5.88	48
3171654	15031	1332	4.0E-02	6.16	48
4935103	18957	1212	6.2E-02	5.93	47
13770622	26791	1811	1.7E-01	5.96	47
3813966	26538	1085	4.8E-02	5.18	47
3813966	26538	1085	4.8E-02	5.18	47
2721366	15719	773	3.4E-02	5.48	47
30553913	39258	2116	3.9E-01	5.01	47
1650409	15503	520	2.1E-02	5.10	47
1650409	15503	520	2.1E-02	5.10	47
10260625	23233	1196	1.3E-01	5.07	47
3010988	20092	933	3.8E-02	5.50	47
3010988	20092	933	3.8E-02	5.50	47
2789769	12219	1310	3.5E-02	6.42	47
2174728	10277	834	2.7E-02	4.82	47
27955785	31479	3333	3.5E-01	5.79	47
11468010	25300	1387	1.4E-01	5.59	47
421606	4562	695	5.3E-03	6.69	47
7912406	20726	1047	1.0E-01	5.45	46
7214618	28186	1818	9.1E-02	5.53	46
7214618	28186	1818	9.1E-02	5.53	46
3761823	16840	1178	4.8E-02	6.20	46
567461	4978	646	7.2E-03	6.59	46
5414442	21045	636	6.8E-02	4.99	46
9785679	23649	1312	1.2E-01	5.09	45
4656984	13506	1462	5.9E-02	5.15	45
5865308	26177	1640	7.4E-02	5.26	45
5865308	26177	1640	7.4E-02	5.26	45
16378503	31902	1392	2.1E-01	5.43	45

29917701	38069	2815	3.8E-01	5.21	45
3741310	16179	1095	4.7E-02	6.02	45
5446662	25043	1433	6.9E-02	5.51	44
5446662	25043	1433	6.9E-02	5.51	44
2498433	14244	901	3.2E-02	6.16	44
2807581	17645	1295	3.5E-02	5.39	44
2807581	17645	1295	3.5E-02	5.39	44
5160228	27285	990	6.5E-02	5.45	44
5160228	27285	990	6.5E-02	5.45	44
2362136	12303	825	3.0E-02	4.83	44
2696585	14119	958	3.4E-02	5.85	44
2307487	11820	1023	2.9E-02	4.86	44
3329771	11949	1042	4.2E-02	4.99	44
9208540	22873	1797	1.2E-01	5.75	44
2811271	9275	1147	3.6E-02	6.08	44
27792423	37321	2189	3.5E-01	5.03	44
2631581	13023	965	3.3E-02	6.41	44
2701551	13378	1165	3.4E-02	6.48	44
4185689	21767	1394	5.3E-02	5.90	43
5730856	17920	1391	7.2E-02	6.00	43
1466191	10568	1251	1.9E-02	5.79	43
1466191	10568	1251	1.9E-02	5.79	43
2918467	11314	1123	3.7E-02	5.59	43
10574967	22498	2071	1.3E-01	6.24	43
7513579	22145	1111	9.5E-02	5.24	43
2159225	16457	524	2.7E-02	5.51	43
12684829	23319	2468	1.6E-01	6.17	43
10493553	18126	1335	1.3E-01	5.10	43
11355439	25957	1387	1.4E-01	5.28	43
8362919	21475	1243	1.1E-01	5.56	42
2074306	12010	778	2.6E-02	5.85	42
3150689	16139	600	4.0E-02	4.87	42
4308937	16693	1190	5.4E-02	5.62	42
26433423	31308	2197	3.3E-01	5.41	42
2366565	18950	692	3.0E-02	5.38	42
2366565	18950	692	3.0E-02	5.38	42
2256560	20056	1590	2.9E-02	5.97	42
2256560	20056	1590	2.9E-02	5.97	42
1281929	12490	384	1.6E-02	5.37	42
7874922	21844	1174	1.0E-01	5.06	42
10781763	21894	2270	1.4E-01	6.28	42
689311	7652	289	8.7E-03	5.71	42
4336764	16082	864	5.5E-02	5.01	42
7173647	18827	1548	9.1E-02	6.42	42
22098997	32229	1853	2.8E-01	5.13	41
2079961	10709	1144	2.6E-02	6.34	41
49883993	44262	3368	6.3E-01	5.17	41
3438986	11581	1184	4.3E-02	5.22	41
13431519	26108	1982	1.7E-01	5.57	41
24862508	31347	2582	3.1E-01	4.90	41
3858916	17262	954	4.9E-02	5.31	41
4445104	16105	1140	5.6E-02	6.20	41
1683869	10125	493	2.1E-02	5.53	41
2946796	11998	1144	3.7E-02	6.07	41
1394993	9017	638	1.8E-02	5.51	41
2591228	10033	1142	3.3E-02	5.36	40

14038018	33517	4204	1.8E-01	5.80	40
14038018	33517	4204	1.8E-01	5.80	40
5712498	18309	1460	7.2E-02	6.23	40
15663310	27075	1610	2.0E-01	5.02	40
6574844	18545	1542	8.3E-02	5.68	40
1754475	9209	960	2.2E-02	6.26	40
17467930	30079	1505	2.2E-01	5.47	40
2668312	12344	1068	3.4E-02	4.86	40
604639	7325	575	7.6E-03	4.99	40
604639	7325	575	7.6E-03	4.99	40
1807253	11146	899	2.3E-02	5.27	40
2508551	13451	966	3.2E-02	5.98	40
7266806	18831	1077	9.2E-02	5.05	39
63488829	46445	3045	8.0E-01	5.10	39
3998596	17344	1127	5.1E-02	5.20	39
3894199	17268	1034	4.9E-02	5.25	39
4125277	16669	748	5.2E-02	5.52	39
2071920	18056	664	2.6E-02	5.16	39
2071920	18056	664	2.6E-02	5.16	39
10497056	23377	1557	1.3E-01	5.39	39
3470679	15459	1146	4.4E-02	4.88	38
8729747	22305	992	1.1E-01	5.02	38
1505642	6872	1156	1.9E-02	4.77	38
4581089	18464	1027	5.8E-02	5.36	38
2963071	15522	1292	3.7E-02	5.80	38
2963071	15522	1292	3.7E-02	5.80	38
813810	5954	720	1.0E-02	5.92	38
1011892	8770	1023	1.3E-02	5.67	38
1011892	8770	1023	1.3E-02	5.67	38
1294864	8501	924	1.6E-02	6.19	38
14879169	28827	1375	1.9E-01	5.05	38
2445112	12283	1105	3.1E-02	6.55	38
1598685	11195	469	2.0E-02	5.52	38
16936290	26338	2369	2.1E-01	5.97	38
349739	3433	417	4.4E-03	6.16	38
4120579	16652	823	5.2E-02	5.13	38
4548934	15585	1576	5.8E-02	5.73	38
6081590	21027	1639	7.7E-02	5.48	38
6081590	21027	1639	7.7E-02	5.48	38
570591	4413	596	7.2E-03	6.44	38
11922334	22423	2292	1.5E-01	5.09	37
18717216	28420	2059	2.4E-01	5.17	37
2369138	17415	918	3.0E-02	5.50	37
2369138	17415	918	3.0E-02	5.50	37
4912729	15975	1150	6.2E-02	5.55	37
926540	9425	1101	1.2E-02	5.89	37
926540	9425	1101	1.2E-02	5.89	37
2856962	12290	1266	3.6E-02	6.61	37
838962	6878	570	1.1E-02	4.78	37
1811575	9201	719	2.3E-02	4.80	37
3334319	15332	1980	4.2E-02	5.28	37
3334319	15332	1980	4.2E-02	5.28	37
7268627	18280	1666	9.2E-02	5.60	37
10972370	19205	2526	1.4E-01	4.95	36
16180191	18930	2976	2.0E-01	5.34	36
3300740	12980	1102	4.2E-02	6.19	36

26248485	31557	2555	3.3E-01	4.89	36
6644684	18091	1331	8.4E-02	5.54	36
1218358	6889	945	1.5E-02	5.92	36
8406477	17290	2231	1.1E-01	6.47	36
45915713	42884	3608	5.8E-01	4.84	36
1121203	6786	895	1.4E-02	5.05	36
5945466	18699	1375	7.5E-02	5.15	36
26760308	39722	4894	3.4E-01	5.40	36
26760308	39722	4894	3.4E-01	5.40	36
2853056	11082	1106	3.6E-02	5.24	36
4735964	12424	1658	6.0E-02	5.47	36
2419401	8941	1442	3.1E-02	5.76	36
1566773	7018	1031	2.0E-02	6.39	36
1120565	7313	765	1.4E-02	6.16	36
8965196	19538	2100	1.1E-01	6.51	36
3293545	13159	1378	4.2E-02	6.57	36
5004718	16962	1457	6.3E-02	6.01	36
6613791	17761	1827	8.4E-02	5.64	36
6258775	21486	1947	7.9E-02	5.71	36
6258775	21486	1947	7.9E-02	5.71	36
784620	3816	721	9.9E-03	5.57	36
2136049	10483	909	2.7E-02	6.36	36
16417701	23820	2771	2.1E-01	5.96	36
4505818	15565	1154	5.7E-02	4.93	35
2304359	11692	780	2.9E-02	4.79	35
10415853	24938	1281	1.3E-01	4.89	35
3303495	12596	1521	4.2E-02	5.88	35
2181193	9309	1248	2.8E-02	5.28	35
7837045	20748	1300	9.9E-02	5.35	35
16127126	25748	2545	2.0E-01	4.54	35
2394624	12212	1138	3.0E-02	6.29	35
22352575	28979	2820	2.8E-01	5.81	35
8451400	21205	1559	1.1E-01	5.22	35
9356587	20744	1578	1.2E-01	4.81	35
8863817	21093	1518	1.1E-01	5.42	35
441991	3564	522	5.6E-03	6.13	35
2716381	13212	709	3.4E-02	6.36	35
3008205	13613	833	3.8E-02	6.38	35
1788362	8399	1014	2.3E-02	4.69	35
1636943	7016	1025	2.1E-02	6.02	35
5331952	20216	2970	6.7E-02	5.15	35
5331952	20216	2970	6.7E-02	5.15	35
2297621	11056	1286	2.9E-02	6.23	34
3723955	13463	1196	4.7E-02	6.07	34
3850243	13735	1413	4.9E-02	5.72	34
1613921	8143	1053	2.0E-02	6.33	34
5945861	16956	1278	7.5E-02	4.85	34
10201318	19279	1782	1.3E-01	5.23	34
19874042	23030	2964	2.5E-01	4.97	34
5886252	16051	1599	7.4E-02	5.60	34
4504349	14629	1473	5.7E-02	6.05	34
2318792	10392	1043	2.9E-02	4.92	34
1182084	7825	914	1.5E-02	5.11	34
8200266	18745	1756	1.0E-01	5.96	34
1423791	6968	949	1.8E-02	6.28	34
707504	3352	1136	8.9E-03	6.57	34

2336631	11504	891	3.0E-02	5.42	33
4995810	12618	1805	6.3E-02	6.30	33
6754560	16259	1530	8.5E-02	4.84	33
15088633	24409	2084	1.9E-01	5.40	33
1089990	11928	970	1.4E-02	5.74	33
4062083	13136	1588	5.1E-02	5.88	33
3232488	7942	1762	4.1E-02	5.51	33
27055288	33646	2792	3.4E-01	5.65	33
6103429	16046	1805	7.7E-02	6.37	33
4174310	12403	1708	5.3E-02	4.73	33
1782605	11062	1825	2.3E-02	4.58	33
1782605	11062	1825	2.3E-02	4.58	33
1114475	5800	1640	1.4E-02	6.09	33
1114475	5800	1640	1.4E-02	6.09	33
4395942	12763	1517	5.6E-02	5.12	33
2839642	5631	1972	3.6E-02	4.48	33
7408768	17491	1788	9.4E-02	5.37	33
30009172	31023	3709	3.8E-01	5.82	33
1690419	8004	1184	2.1E-02	6.40	33
24329370	26338	3666	3.1E-01	4.62	33
2769887	9136	1483	3.5E-02	4.69	33
30794930	32927	3366	3.9E-01	5.07	33
3451158	15171	1976	4.4E-02	5.46	33
3451158	15171	1976	4.4E-02	5.46	33
2240458	14259	1169	2.8E-02	5.67	33
2240458	14259	1169	2.8E-02	5.67	33
1060899	5592	873	1.3E-02	6.04	33
5186300	13388	1914	6.6E-02	6.63	33
8367362	24581	2196	1.1E-01	5.60	33
8367362	24581	2196	1.1E-01	5.60	33
8149728	26012	888	1.0E-01	5.09	33
382696	3268	666	4.8E-03	6.68	32
25063095	24195	3884	3.2E-01	5.00	32
2897388	8306	1552	3.7E-02	4.94	32
6848156	22044	2645	8.7E-02	4.86	32
6848156	22044	2645	8.7E-02	4.86	32
7312172	16646	1830	9.2E-02	5.44	32
14987317	19453	2767	1.9E-01	6.34	32
744071	7012	1074	9.4E-03	4.71	32
744071	7012	1074	9.4E-03	4.71	32
6444680	16408	1349	8.1E-02	5.07	32
593851	5778	818	7.5E-03	5.83	32
593851	5778	818	7.5E-03	5.83	32
6087836	12527	1814	7.7E-02	6.30	32
11507556	21528	2202	1.5E-01	5.18	32
10691730	17259	2675	1.4E-01	4.64	32
12236002	20668	2583	1.5E-01	6.09	32
363492	2917	443	4.6E-03	5.99	32
219101	4053	415	2.8E-03	4.76	32
219101	4053	415	2.8E-03	4.76	32
4052183	11486	1871	5.1E-02	5.95	32
1725283	15459	1544	2.2E-02	6.51	32
830778	6401	432	1.1E-02	5.30	32
1799923	9222	795	2.3E-02	5.60	32
1743797	6518	1124	2.2E-02	6.04	32
11489045	23290	1576	1.5E-01	5.12	32

3065576	13772	1991	3.9E-02	5.54	32
3065576	13772	1991	3.9E-02	5.54	32
15693153	20606	2638	2.0E-01	4.51	32
1545171	5791	1018	2.0E-02	4.68	32
8949130	16994	2475	1.1E-01	5.49	32
3751960	8687	1849	4.7E-02	4.47	32
2225033	25784	1301	2.8E-02	5.70	32
9873151	17175	2493	1.2E-01	6.17	32
1936716	7623	1268	2.4E-02	6.38	32
1256604	4265	1417	1.6E-02	4.77	32
9222747	20752	1524	1.2E-01	5.10	32
1337365	5878	994	1.7E-02	4.86	31
1621947	13663	925	2.1E-02	5.60	31
19338610	27554	2385	2.4E-01	5.04	31
1469844	7415	1045	1.9E-02	5.78	31
9735521	19232	2144	1.2E-01	5.39	31
3311841	10714	1394	4.2E-02	4.91	31
5014718	13458	1811	6.3E-02	6.28	31
4866115	18203	924	6.2E-02	5.13	31
1622381	7749	899	2.1E-02	5.84	31
2622243	9810	1400	3.3E-02	5.65	31
333582	5423	538	4.2E-03	6.19	31
333582	5423	538	4.2E-03	6.19	31
5749934	15179	1883	7.3E-02	6.07	31
6668405	14578	1917	8.4E-02	5.29	31
10905523	17698	2268	1.4E-01	4.66	31
5599016	12696	1570	7.1E-02	5.17	31
3759999	11567	1232	4.8E-02	5.14	31
4904774	12925	1844	6.2E-02	5.70	31
861800	6112	633	1.1E-02	5.20	31
4740625	14787	1159	6.0E-02	5.40	31
3937591	12307	1263	5.0E-02	5.83	31
1122181	5703	977	1.4E-02	6.13	31
701054	4795	575	8.9E-03	4.86	31
5271070	13289	1278	6.7E-02	5.06	31
2369842	8277	1376	3.0E-02	6.52	31
7446185	15470	1998	9.4E-02	4.70	30
8776137	17736	2269	1.1E-01	5.43	30
3541406	13458	1015	4.5E-02	5.46	30
6817825	15416	2091	8.6E-02	4.92	30
305225	5234	412	3.9E-03	4.75	30
1237683	5569	941	1.6E-02	5.87	30
2002969	9251	1003	2.5E-02	4.65	30
4450823	13634	1676	5.6E-02	5.02	30
1952556	8644	1194	2.5E-02	5.20	30
2680931	9733	1214	3.4E-02	5.84	30
16266972	23529	3126	2.1E-01	5.54	30
2788916	8900	1448	3.5E-02	5.32	30
3743968	16190	1583	4.7E-02	5.48	30
3743968	16190	1583	4.7E-02	5.48	30
6336375	14684	1789	8.0E-02	6.01	30
1889750	12631	1065	2.4E-02	5.07	30
1889750	12631	1065	2.4E-02	5.07	30
2817436	9702	1370	3.6E-02	5.92	30
1386342	11205	1208	1.8E-02	4.83	30
1386342	11205	1208	1.8E-02	4.83	30

1633785	7905	1017	2.1E-02	5.22	30
4467544	12900	1250	5.6E-02	5.98	30
9173844	16784	2510	1.2E-01	5.15	30
3814799	11306	1339	4.8E-02	5.71	30
1960685	8579	1013	2.5E-02	5.90	30
3387792	12587	1162	4.3E-02	5.46	30
8685501	18152	2621	1.1E-01	6.59	30
2818378	8167	1535	3.6E-02	6.69	30
2089575	8102	1238	2.6E-02	6.48	30
414624	3492	439	5.2E-03	5.81	29
10301388	16451	2827	1.3E-01	4.68	29
661282	3842	700	8.4E-03	6.15	29
675415	4025	718	8.5E-03	6.42	29
8330502	19617	1918	1.1E-01	4.84	29
57347888	40017	4919	7.3E-01	5.28	29
1888869	7120	1281	2.4E-02	5.36	29
2456037	8270	1489	3.1E-02	5.84	29
7570817	16190	1927	9.6E-02	5.97	29
13320771	18006	3260	1.7E-01	5.41	29
1091433	9090	1306	1.4E-02	4.89	29
1091433	9090	1306	1.4E-02	4.89	29
4351521	14494	1152	5.5E-02	5.24	29
348928	3876	721	4.4E-03	6.02	29
348928	3876	721	4.4E-03	6.02	29
1984510	6519	1290	2.5E-02	6.33	29
4286631	12116	1500	5.4E-02	5.17	29
3435005	9259	1497	4.3E-02	5.13	29
16110132	17568	2717	2.0E-01	5.06	29
7517694	18545	1926	9.5E-02	5.21	29
2859211	9921	1538	3.6E-02	6.52	29
1052438	5150	817	1.3E-02	6.58	29
20417237	26800	3136	2.6E-01	6.38	29
5563059	19144	2087	7.0E-02	5.31	29
5563059	19144	2087	7.0E-02	5.31	29
651695	3646	771	8.2E-03	6.44	29
1030632	5648	901	1.3E-02	6.63	29
1907296	11683	1549	2.4E-02	6.13	29
1907296	11683	1549	2.4E-02	6.13	29
3841560	10795	1375	4.9E-02	5.36	28
29956540	32616	3118	3.8E-01	4.99	28
4207066	11700	1377	5.3E-02	5.39	28
12865333	19604	2809	1.6E-01	5.78	28
9802289	16643	2750	1.2E-01	6.04	28
2137206	8073	1133	2.7E-02	5.67	28
661205	3865	715	8.4E-03	5.61	28
11203765	18600	2576	1.4E-01	6.32	28
17912729	24255	2891	2.3E-01	5.11	28
4963202	16153	2665	6.3E-02	4.94	28
4963202	16153	2665	6.3E-02	4.94	28
996562	5123	734	1.3E-02	5.42	28
11940550	15667	3125	1.5E-01	5.56	28
6289761	19137	3021	8.0E-02	5.73	28
6289761	19137	3021	8.0E-02	5.73	28
1426771	6062	1032	1.8E-02	5.94	28
2932769	14297	1762	3.7E-02	4.89	28
2932769	14297	1762	3.7E-02	4.89	28

2035783	7303	981	2.6E-02	4.86	28
906849	5216	587	1.1E-02	5.81	28
941458	4790	830	1.2E-02	6.11	28
27212002	30936	2846	3.4E-01	5.06	28
5549901	12687	2058	7.0E-02	6.61	28
14946430	25545	1874	1.9E-01	5.01	28
1180042	5087	867	1.5E-02	5.48	28
1747091	6310	1218	2.2E-02	6.69	28
2222794	6375	1506	2.8E-02	5.15	28
1370996	6022	764	1.7E-02	5.37	28
1852855	8264	947	2.3E-02	6.34	28
3021117	11060	1342	3.8E-02	5.19	28
3687380	10763	1491	4.7E-02	5.67	28
7262129	15276	2039	9.2E-02	5.28	28
2063603	8129	1012	2.6E-02	5.32	28
1801498	7095	1242	2.3E-02	6.39	28
4268215	11981	1769	5.4E-02	5.62	27
1172954	6111	735	1.5E-02	5.69	27
455342	5177	886	5.8E-03	5.42	27
455342	5177	886	5.8E-03	5.42	27
1191774	4146	1208	1.5E-02	5.96	27
1387325	6488	835	1.8E-02	6.24	27
1966591	7303	1026	2.5E-02	5.18	27
4567379	10193	1519	5.8E-02	5.25	27
1583008	5786	1160	2.0E-02	6.54	27
2292054	8980	1891	2.9E-02	5.49	27
2292054	8980	1891	2.9E-02	5.49	27
10387280	19137	2208	1.3E-01	5.35	27
1005350	7487	627	1.3E-02	6.22	27
5964350	14035	1590	7.5E-02	5.13	27
4122413	11567	1850	5.2E-02	6.18	27
1784265	8494	840	2.3E-02	5.63	26
11544824	18722	2668	1.5E-01	5.80	26
1390120	7770	1649	1.8E-02	5.39	26
1390120	7770	1649	1.8E-02	5.39	26
6013267	12694	1878	7.6E-02	6.24	26
1059112	7084	1346	1.3E-02	5.56	26
1059112	7084	1346	1.3E-02	5.56	26
5817435	13791	1635	7.4E-02	5.31	26
6123152	14542	2284	7.7E-02	5.10	26
13556760	21829	2832	1.7E-01	4.72	26
4588421	14249	1411	5.8E-02	4.88	26
2507644	9009	1315	3.2E-02	5.77	26
3380780	7975	1671	4.3E-02	4.97	26
14115206	22079	1514	1.8E-01	5.26	26
21852621	23558	3889	2.8E-01	5.66	26
10606057	25012	2961	1.3E-01	5.23	26
10606057	25012	2961	1.3E-01	5.23	26
1018270	4147	1036	1.3E-02	5.89	26
785078	5937	1015	9.9E-03	5.50	26
785078	5937	1015	9.9E-03	5.50	26
8167898	17015	1772	1.0E-01	4.90	26
3091344	9220	1659	3.9E-02	6.63	26
3536602	9015	1519	4.5E-02	6.51	25
32637422	26918	5169	4.1E-01	5.16	25
13352228	18623	2761	1.7E-01	4.78	25

3004619	11446	1522	3.8E-02	6.71	25
912644	4228	775	1.2E-02	6.06	25
1864175	6774	1237	2.4E-02	5.71	25
15486169	21513	3084	2.0E-01	6.48	25
2366377	6491	1521	3.0E-02	5.49	25
8468354	13305	2789	1.1E-01	4.66	25
8159151	15145	2160	1.0E-01	5.58	25
5876322	10845	2604	7.4E-02	6.28	25
3761936	8093	1500	4.8E-02	4.93	25
5832769	18347	2098	7.4E-02	6.11	25
41453818	39569	4002	5.2E-01	5.06	25
2336441	8198	2028	3.0E-02	4.97	25
2336441	8198	2028	3.0E-02	4.97	25
2072288	6964	1086	2.6E-02	6.71	24
23054515	25260	3759	2.9E-01	5.54	24
610577	3296	1006	7.7E-03	4.60	24
647962	3334	917	8.2E-03	6.38	24
1990178	4533	1604	2.5E-02	4.45	24
2903562	8575	1331	3.7E-02	5.58	24
30970327	27900	4506	3.9E-01	5.37	24
558664	7061	493	7.1E-03	4.78	24
1635749	5006	1322	2.1E-02	4.66	23
6167141	10528	2478	7.8E-02	4.95	23
4434449	10152	1416	5.6E-02	5.24	23
15635172	20792	3377	2.0E-01	5.20	23
10489858	16279	3150	1.3E-01	5.54	23
1119247	3901	1221	1.4E-02	5.67	22
569025	3607	491	7.2E-03	5.33	22
2562526	6831	1633	3.2E-02	4.85	22
14028640	18542	3519	1.8E-01	4.62	21
12087657	14939	2758	1.5E-01	5.25	21
3900710	11849	2023	4.9E-02	5.28	21
3900710	11849	2023	4.9E-02	5.28	21
5931629	10801	2516	7.5E-02	5.87	21
5701769	11943	2218	7.2E-02	6.30	21
12779303	20412	3166	1.6E-01	5.94	20
2042969	5614	1549	2.6E-02	5.84	20
1056120	3913	1010	1.3E-02	6.61	20
9754032	8433	3952	1.2E-01	5.15	19
11691880	14928	3566	1.5E-01	6.66	19
71888648	42562	6829	9.1E-01	5.27	19
3293952	5417	2256	4.2E-02	5.40	19
2207663	5156	1648	2.8E-02	5.68	19
1403599	3863	1350	1.8E-02	4.80	19
37724667	30741	5660	4.8E-01	4.88	19
1075794	4072	1034	1.4E-02	5.33	19
1835591	5358	1143	2.3E-02	5.88	19
16207088	20624	4146	2.0E-01	4.62	18
17537929	19154	3383	2.2E-01	4.72	18
793977	5384	1113	1.0E-02	5.53	18
3900562	8818	1974	4.9E-02	6.29	18
37689230	30153	5087	4.8E-01	5.91	18
1740790	10357	867	2.2E-02	4.88	18
4109165	9530	2038	5.2E-02	5.23	18
766156	3660	844	9.7E-03	5.18	17
4687387	9418	1993	5.9E-02	5.40	17

1389191	3709	1753	1.8E-02	6.17	17
825047	5291	1248	1.0E-02	6.69	17
7968483	12268	3006	1.0E-01	6.62	17
20134001	21550	3443	2.5E-01	4.72	17
3757903	7767	2047	4.8E-02	5.77	17
5062283	13854	2465	6.4E-02	5.72	17
5929402	9007	2535	7.5E-02	4.88	17
34701189	28077	4874	4.4E-01	4.97	16
12248289	15900	3486	1.5E-01	5.12	16
625938	8102	797	7.9E-03	5.67	16
4944132	14204	3731	6.3E-02	5.40	16
4944132	14204	3731	6.3E-02	5.40	16
1400849	4750	2097	1.8E-02	5.55	16
8846551	13747	3233	1.1E-01	6.03	15
2020027	5302	1515	2.6E-02	6.72	15
8091820	11859	2883	1.0E-01	6.28	15
18477606	19829	4065	2.3E-01	6.65	15
4413122	11146	2682	5.6E-02	5.71	15
4413122	11146	2682	5.6E-02	5.71	15
22393454	20905	4607	2.8E-01	5.34	15
8745882	11237	3121	1.1E-01	4.99	14
5779087	9300	2427	7.3E-02	5.39	14
3034214	6829	1781	3.8E-02	6.18	14
14276530	16509	3537	1.8E-01	4.94	14
1829827	5132	1269	2.3E-02	5.28	14
3304395	15775	2041	4.2E-02	4.71	14
8193907	11514	2595	1.0E-01	5.09	14
27359906	21585	5575	3.5E-01	4.83	14
6814147	11191	2290	8.6E-02	5.06	14
14705419	16646	3650	1.9E-01	5.33	13
1287375	5697	1118	1.6E-02	5.58	13
3920739	6847	2259	5.0E-02	6.60	13
38915601	20774	6908	4.9E-01	4.52	13
12834036	15153	3718	1.6E-01	6.10	13
7741293	11346	3027	9.8E-02	4.97	13
37773996	27094	5762	4.8E-01	5.44	13
1243395	5760	1369	1.6E-02	6.00	12
2731352	7825	1837	3.5E-02	5.81	12
5854138	9479	2601	7.4E-02	6.37	12
71831238	39590	6856	9.1E-01	4.82	12
12855049	14915	3446	1.6E-01	5.10	12
15898815	11749	4574	2.0E-01	5.51	12
168368	3021	657	2.1E-03	5.67	11
2784011	7803	1852	3.5E-02	4.98	11
570566	3674	1117	7.2E-03	5.61	11
21000101	17262	5169	2.7E-01	4.91	11
3643345	6465	1677	4.6E-02	5.44	11
1974012	5021	1683	2.5E-02	6.65	11
5474674	9178	2480	6.9E-02	6.18	11
1512608	3927	2005	1.9E-02	6.36	11
40157614	26631	4878	5.1E-01	4.62	10
1074367	5647	889	1.4E-02	4.93	10
38182850	23496	6415	4.8E-01	5.19	10
869108	3553	1271	1.1E-02	6.58	10
9889976	10979	3414	1.3E-01	6.24	10
11045625	13716	2804	1.4E-01	4.75	10

2064859	7407	1534	2.6E-02	6.03	10
1539901	4770	1324	1.9E-02	4.91	10
8425129	13501	4552	1.1E-01	5.28	10
8425129	13501	4552	1.1E-01	5.28	10
33382228	21699	4647	4.2E-01	4.62	10
4870598	12781	3703	6.2E-02	6.14	9
4870598	12781	3703	6.2E-02	6.14	9
38179419	24611	5629	4.8E-01	4.68	9
15147679	55677	4457	1.9E-01	4.47	9
4636227	9192	2365	5.9E-02	6.06	9
4472657	7760	2321	5.7E-02	5.11	9
2736616	7894	1915	3.5E-02	4.52	9
1787854	6802	979	2.3E-02	4.77	8
33915920	23071	5543	4.3E-01	5.26	8
1738011	5023	1230	2.2E-02	5.08	8
10005885	12815	3461	1.3E-01	4.73	8
1550304	5578	1197	2.0E-02	4.91	8
5655754	9233	2723	7.2E-02	4.64	8
7566993	37223	2850	9.6E-02	4.97	8
34545348	26697	5022	4.4E-01	4.57	8
10409326	13435	2852	1.3E-01	5.57	8
2039804	5873	1108	2.6E-02	5.41	7
ND	ND	ND	0.0E+00	5.61	61
36586511	38983	3091	4.6E-01	5.59	61
49943157	43507	4369	6.3E-01	6.62	52
68072491	56554	3224	8.6E-01	5.04	95
6732222	24469	687	8.5E-02	5.01	93
1027791	24629	569	1.3E-02	5.01	88
1027791	24629	569	1.3E-02	5.01	88
5699449	29420	708	7.2E-02	5.14	134
16737013	31018	1889	2.1E-01	5.10	134
34913224	37282	3142	4.4E-01	5.79	56
1942726	32933	612	2.5E-02	5.79	54
1942726	32933	612	2.5E-02	5.79	54
25245885	31040	2747	3.2E-01	5.68	43
9170214	16486	2545	1.2E-01	5.68	47
14817353	38805	2594	1.9E-01	4.87	57
14817353	38805	2594	1.9E-01	4.87	57
9219823	28221	2658	1.2E-01	5.00	37
9219823	28221	2658	1.2E-01	5.00	37
6802873	22122	2362	8.6E-02	4.89	35
6802873	22122	2362	8.6E-02	4.89	35
51275806	19218	8532	6.5E-01	4.80	10
3769099	7380	2344	4.8E-02	5.97	8
4256734	22041	1465	5.4E-02	5.51	77
4256734	22041	1465	5.4E-02	5.51	77
5074255	33635	702	6.4E-02	5.25	54
5074255	33635	702	6.4E-02	5.25	54
32611229	41295	2161	4.1E-01	5.19	59
32065268	41324	1805	4.1E-01	5.17	57
5205601	19201	1054	6.6E-02	5.31	43
ND	ND	ND	0.0E+00	5.34	42
8096997	21452	1401	1.0E-01	5.36	46
ND	ND	ND	0.0E+00	5.28	49
4214530	14102	1144	5.3E-02	6.09	40
18301595	29816	2098	2.3E-01	6.11	45

3335142	15007	897	4.2E-02	6.10	42
38347723	36742	3650	4.8E-01	5.29	33
29895458	35480	2796	3.8E-01	5.30	34
12260955	21886	1807	1.6E-01	5.34	34
1903919	16373	471	2.4E-02	5.32	34
7964301	13273	2707	1.0E-01	5.66	29
699748	6221	422	8.8E-03	5.68	30
6543368	10854	2387	8.3E-02	5.53	20
4208891	12468	1726	5.3E-02	5.54	21
973699	7733	743	1.2E-02	5.55	21
973699	7733	743	1.2E-02	5.55	21
42104707	40384	3709	5.3E-01	5.27	25
1833438	11217	780	2.3E-02	5.30	25
18200463	14507	4995	2.3E-01	5.92	11
4062220	16448	979	5.1E-02	5.85	41
ND	ND	ND	0.0E+00	5.86	40
ND	ND	ND	0.0E+00	5.32	53
ND	ND	ND	0.0E+00	5.32	53
ND	ND	ND	0.0E+00	5.24	62
ND	ND	ND	0.0E+00	5.22	59
ND	ND	ND	0.0E+00	5.12	80
ND	ND	ND	0.0E+00	5.12	80
ND	ND	ND	0.0E+00	5.14	78
ND	ND	ND	0.0E+00	5.21	67
ND	ND	ND	0.0E+00	5.47	74
ND	ND	ND	0.0E+00	5.45	76
ND	ND	ND	0.0E+00	5.13	110
ND	ND	ND	0.0E+00	5.38	23
ND	ND	ND	0.0E+00	5.38	23
ND	ND	ND	0.0E+00	5.37	22
2929226	10,906.00	661	3.7E-02	7.61	67
6764462	13,781.00	1184	8.6E-02	7.56	65
1876725	4,627.00	671	2.4E-02	7.42	64
10832522	18,977.00	1872	1.4E-01	7.50	60
4549127	7,841.00	1391	5.8E-02	7.42	60
16891796	26,805.00	2792	2.1E-01	7.15	60
4120552	6,564.00	1257	5.2E-02	7.34	60
5852007	10,141.00	1559	7.4E-02	6.92	59
1470010	4,696.00	514	1.9E-02	7.90	56
5799101	8,308.00	1660	7.3E-02	8.32	56
3113195	10,483.00	748	3.9E-02	7.23	55
4486497	5,851.00	1375	5.7E-02	6.94	55
2561433	7,221.00	854	3.2E-02	7.90	54
3351107	12,076.00	748	4.2E-02	7.22	54
5757540	11,725.00	1305	7.3E-02	8.64	53
6020618	9,595.00	1607	7.6E-02	6.97	52
6531899	13,491.00	1441	8.3E-02	7.33	52
2566580	4,310.00	885	3.2E-02	7.13	52
3574134	4,261.00	1219	4.5E-02	8.71	50
915717	2,614.00	385	1.2E-02	8.42	49
3150609	6,039.00	1099	4.0E-02	9.53	49
3067455	6,269.00	1012	3.9E-02	7.32	49
10200091	12,855.00	2332	1.3E-01	7.59	48
2594929	3,914.00	903	3.3E-02	7.50	48
2109242	4,980.00	714	2.7E-02	7.40	48
4584767	10,498.00	1096	5.8E-02	6.96	47

7892928	13,423.00	1924	1.0E-01	7.10	47
2468961	5,125.00	927	3.1E-02	7.78	47
5649464	11,262.00	1334	7.1E-02	7.38	46
2136465	6,587.00	834	2.7E-02	8.48	46
2704071	11,440.00	910	3.4E-02	6.99	46
5767686	10,517.00	1329	7.3E-02	7.24	45
3416768	4,792.00	1177	4.3E-02	8.11	44
5465103	6,782.00	1806	6.9E-02	8.76	44
3689531	5,126.00	1271	4.7E-02	7.51	43
4624528	4,580.00	1629	5.8E-02	7.25	42
3010868	5,148.00	1019	3.8E-02	6.95	42
7902899	7,088.00	2354	1.0E-01	8.68	42
4945425	9,388.00	1236	6.3E-02	7.34	42
3040487	5,499.00	1035	3.8E-02	7.52	42
3592448	4,606.00	1332	4.5E-02	8.48	42
1704423	3,399.00	654	2.2E-02	7.05	42
3155989	4,375.00	1168	4.0E-02	8.89	41
1519636	3,261.00	611	1.9E-02	7.23	41
5071777	5,546.00	1800	6.4E-02	8.98	40
2114099	4,203.00	1533	2.7E-02	9.50	40
2114099	4,203.00	1533	2.7E-02	9.50	40
1347833	3,126.00	522	1.7E-02	6.91	39
3970476	6,568.00	1226	5.0E-02	7.32	36
14011140	13,350.00	2758	1.8E-01	7.23	36
7667835	7,158.00	2510	9.7E-02	9.10	36
5932376	8,005.00	1778	7.5E-02	6.93	35
6551949	6,764.00	2096	8.3E-02	8.11	35
3709660	4,901.00	1363	4.7E-02	8.77	34
4517413	6,393.00	1605	5.7E-02	7.77	34
5593648	4,623.00	2013	7.1E-02	9.23	34
7351655	6,677.00	2196	9.3E-02	8.96	34
3701716	4,781.00	1265	4.7E-02	6.91	33
3813263	4,244.00	1429	4.8E-02	7.31	33
6440902	14,187.00	1894	8.1E-02	9.14	32
5104521	7,154.00	1575	6.5E-02	7.15	32
2120239	3,697.00	884	2.7E-02	8.30	32
4132160	7,381.00	1392	5.2E-02	7.23	32
8377086	7,176.00	2507	1.1E-01	8.14	31
3616840	5,166.00	1266	4.6E-02	8.64	31
3269158	5,257.00	1006	4.1E-02	9.06	31
2591189	3,411.00	1008	3.3E-02	9.36	31
3210247	7,253.00	2790	4.1E-02	9.47	31
3210247	7,253.00	2790	4.1E-02	9.47	31
3210247	7,253.00	2790	4.1E-02	9.47	31
1703392	3,299.00	677	2.2E-02	9.58	31
20159031	16,399.00	3866	2.5E-01	9.94	30
5285104	6,433.00	1447	6.7E-02	9.16	30
4062599	4,339.00	1511	5.1E-02	8.23	29
6897198	6,776.00	2101	8.7E-02	8.96	29
8042257	5,813.00	2551	1.0E-01	8.63	29
24495540	16,971.00	4267	3.1E-01	9.16	27
2792216	3,831.00	1006	3.5E-02	7.70	27
3049371	3,491.00	1179	3.9E-02	8.64	26
2225159	6,345.00	1592	2.8E-02	7.92	26
2225159	6,345.00	1592	2.8E-02	7.92	26
4910394	5,434.00	1709	6.2E-02	8.74	26

2582436	3,679.00	1009	3.3E-02	8.15	26
5185376	6,749.00	1707	6.6E-02	9.54	25
3805916	8,615.00	1934	4.8E-02	6.71	25
13936052	12,587.00	3344	1.8E-01	7.56	25
2583080	5,497.00	757	3.3E-02	7.10	24
3086300	4,097.00	1201	3.9E-02	8.17	23
18324121	11,328.00	3663	2.3E-01	9.91	23
752998	3,350.00	335	9.5E-03	9.27	23
5038883	7,754.00	2998	6.4E-02	8.97	23
5038883	7,754.00	2998	6.4E-02	8.97	23
2554746	3,838.00	1042	3.2E-02	9.20	22
2679753	5,146.00	1617	3.4E-02	6.64	22
2679753	5,146.00	1617	3.4E-02	6.64	22
4571322	5,176.00	1559	5.8E-02	7.46	22
5285057	4,775.00	1902	6.7E-02	9.29	21
22956141	17,630.00	3965	2.9E-01	9.42	21
3680271	7,284.00	1470	4.7E-02	9.15	21
5424319	4,317.00	1979	6.9E-02	8.66	21
1416674	2,910.00	571	1.8E-02	9.36	21
29227033	15,717.00	5590	3.7E-01	9.65	21
4369620	3,436.00	1593	5.5E-02	9.50	21
3254632	3,918.00	1307	4.1E-02	9.29	20
4776070	4,310.00	1796	6.0E-02	9.44	20
7114215	8,430.00	2169	9.0E-02	7.06	20
4678202	3,410.00	1819	5.9E-02	9.28	19
3322930	4,260.00	1167	4.2E-02	8.02	18
5299860	9,021.00	1733	6.7E-02	9.70	18
2605628	3,620.00	871	3.3E-02	9.77	18
30708682	18,412.00	4788	3.9E-01	9.42	17
1983419	4,102.00	1196	2.5E-02	6.87	17
6997194	3,898.00	2292	8.8E-02	9.25	17
41501228	14,080.00	7611	5.2E-01	9.93	17
5037950	8,066.00	2738	6.4E-02	8.37	17
5037950	8,066.00	2738	6.4E-02	8.37	17
4079647	3,747.00	1356	5.2E-02	8.84	17
7772459	8,785.00	3571	9.8E-02	9.43	17
7772459	8,785.00	3571	9.8E-02	9.43	17
13357816	7,744.00	3432	1.7E-01	9.04	16
17419036	6,956.00	4569	2.2E-01	10.16	16
9100791	5,391.00	2442	1.2E-01	7.01	16
2334482	4,053.00	685	3.0E-02	7.11	16
18100248	9,238.00	4206	2.3E-01	9.67	16
11377861	6,868.00	2871	1.4E-01	7.53	16
6853069	6,175.00	2156	8.7E-02	9.11	15
29045773	12,301.00	5792	3.7E-01	10.03	15
41961462	12,268.00	8110	5.3E-01	9.80	15
28616948	13,668.00	4504	3.6E-01	7.44	15
5467427	5,961.00	1295	6.9E-02	9.31	15
35202043	13,613.00	5608	4.5E-01	9.45	14
6082144	4,151.00	1950	7.7E-02	9.94	14
9365255	5,741.00	4577	1.2E-01	9.16	14
9365255	5,741.00	4577	1.2E-01	9.16	14
810004	3,938.00	232	1.0E-02	8.10	14
6770319	4,860.00	1760	8.6E-02	8.21	14
27420133	11,510.00	5330	3.5E-01	9.67	14
31526632	16,390.00	5274	4.0E-01	9.83	14

40108358	19,242.00	6017	5.1E-01	8.38	13
8921420	4,892.00	2368	1.1E-01	8.13	13
3655223	4,130.00	1080	4.6E-02	9.24	13
27445980	14,637.00	4313	3.5E-01	9.41	13
9677449	5,093.00	2289	1.2E-01	7.62	13
14524769	11,901.00	5897	1.8E-01	10.31	13
14524769	11,901.00	5897	1.8E-01	10.31	13
11392122	5,718.00	3220	1.4E-01	9.11	13
7696904	5,041.00	2212	9.7E-02	9.24	13
20050349	10,292.00	3980	2.5E-01	9.46	12
7282694	6,217.00	1762	9.2E-02	7.71	12
22286455	27,881.00	4231	2.8E-01	7.23	12
11919194	13,520.00	4589	1.5E-01	8.12	12
11919194	13,520.00	4589	1.5E-01	8.12	12
31013925	23,896.00	4920	3.9E-01	7.09	11
13195131	8,842.00	2471	1.7E-01	7.57	11
35927185	12,964.00	6606	4.5E-01	9.63	11
8412994	11,776.00	4480	1.1E-01	10.17	11
8412994	11,776.00	4480	1.1E-01	10.17	11
8412994	11,776.00	4480	1.1E-01	10.17	11
12407089	20,803.00	1232	1.6E-01	8.33	10

Master Spot	Position Code	Spot Index	Rank	Protein Name	UnifRefID	Accession Number	Protein MW	Protein pI	Protein Count	Protein Score C.I. %	Total Ion Score C.I. %	Best Ion Score C.I. %	MS on Cluster Area Matched %	Protein Score - Total Ion Score	Peptide Count MSMS	Modification	Wavelength (nm)	Spot	Platform	Well Position	Sample ID	Sample Name	Remarks	
79/WP 050352	3	52	1	Hypothetical protein SAV0967	Q9BVC3	Q9BVC3_STAAM	141284.6875	5.1	23	189	100	22	98	12	84	11.4	167	2/Mox	WP 05	05.3 P040308_ StaphAureus Run 2-3	P040308_JV_0552C	WP 05 C9	2	
79/WP 050352	3	52	2	Transcription-repair coupling factor	Q9BWA0	Q9BWA0_STAAM	134389.1718	5.1	15	99	100	11	81	7.35	88	1/Mox	WP 05	05.3 P040308_ StaphAureus Run 2-3	WP 05 C9	P040308_JV_0552C	WP 05 C9	2		
90/WP 100419	4	19	1	Hypothetical protein SAV1441	Q9BU47	Q9BU47_STAAM	133263.3438	5.1	14	206	100	65	100	28	100	11.6	141	4/Mox	WP 10	10.1 P04315_ StaphAureus run 2-3/E4	P04315_JV_1019A	WP 10 E4	3	
94/WP 050279	2	76	1	Chromosom encoded SMC protein (Transcription RNA polymerase beta chain)	Q9BUJ6	Q9BUJ6_STAAM	136616.9125	5.4	37	409	100	71	100	24	98	31	338	4/Mox	WP 05	05.2 P040308_ StaphAureus Run 2-3	P040308_JV_0579B	WP 05 H8	1	
96/WP 050236	2	36	1	DNA-directed RNA polymerase beta chain (EC 2.7.7.6) (RNAP beta subunit)	Q9B2F8	RPOB_STAAM	133504.3438	4.9	64	744	100	217	100	82	100	69.3	527	4/Mox	WP 05	05.2 P040308_ StaphAureus Run 2-3	P040308_JV_0536B	WP 05 B7	7	
99/WP 050256	2	56	1	Transcription factor (RNA polymerase beta chain) (RNA polymerase beta subunit)	Q9B2F8	RPOB_STAAM	133504.3438	4.9	33	328	100	4	0	23	324	1/Mox	WP 05	05.2 P040308_ StaphAureus Run 2-3	WP 05 C7	P040308_JV_0556B	WP 05 C7	4		
185/WP 050616	6	16	1	DNA-directed RNA polymerase beta chain (EC 2.7.7.6) (RNAP beta subunit)	P60284	RPOC_STAAM	135893.6563	6.5	14	141	100	12	88	5.59	129	1/Mox	WP 06	06.3 P04315_ StaphAureus Run 2-3	WP 06 A11	P04315_JV_0616C	WP 06 A11	6		
185/WP 070112	1	12	1	DNA-directed RNA polymerase beta chain (EC 2.7.7.6) (RNAP beta subunit)	P60284	RPOC_STAAM	135893.6563	6.5	43	513	100	143	100	43	100	41.7	370	4/Mox	WP 07	07.1 P04031_ StaphAureus Run 2-3	P04031_JV_0712A	WP 07 A1	5	
205/WP 100479	4	79	1	DNA-directed RNA polymerase beta chain (EC 2.7.7.6) (RNAP beta subunit)	P60284	RPOC_STAAM	135893.6563	6.5	30	414	100	124	100	41	100	31.5	290	4/Mox	WP 10	10.1 P04315_ StaphAureus run 2-3/H4	P04315_JV_1079A	WP 10 H4	4	
222/WP 100459	4	58	1	Formate dehydrogenase homolog (EC 2.7.7.6) (RNAP beta subunit)	Q9B1G2	Q9B1G2_STAAM	112734.7188	5.0	32	423	100	230	100	90	100	34.6	193	4/Mox	WP 10	10.1 P04315_ StaphAureus run 2-3/C4	P04315_JV_1058A	WP 10 C4	6	
252/WP 100476	4	76	1	Carbamoyl-phosphate synthase large chain (EC 6.3.5.5) (Carbamoyl-phosphate synthetase a subunit)	Q9B0R5	CARB_STAAM	117553.9297	4.9	42	406	100	125	100	43	100	54.4	281	3/Mox	WP 10	10.1 P04315_ StaphAureus run 2-3/D3	P04315_JV_1076A	WP 10 D3	9	
252/WP 100476	4	76	2	Transcription factor (EC 2.7.7.6) (RNAP beta subunit)	P60284	RPOC_STAAM	135893.6563	6.5	30	112	100	0	0	23.6	112	0/Mox	WP 10	10.1 P04315_ StaphAureus run 2-3/D3	WP 10 D3	P04315_JV_1076A	WP 10 D3	9		
254/WP 050239	2	39	1	Transcription factor (EC 2.7.7.6) (RNAP beta subunit)	P60284	RPOC_STAAM	135893.6563	6.5	37	280	100	50	100	17.9	230	2/Mox	WP 05	05.2 P040308_ StaphAureus Run 2-3	WP 05 F8	P040308_JV_0539B	WP 05 F8	19		
254/WP 050239	2	39	2	Pyruvate carboxylase (EC 2.7.7.6) (RNAP beta subunit)	Q9BUY8	Q9BUY8_STAAM	128762.5703	5.2	24	170	100	36	100	21	99	13.1	134	2/Mox	WP 05	05.2 P040308_ StaphAureus Run 2-3	P040308_JV_0539B	WP 05 F8	19	
256/WP 050372	3	72	1	Pyruvate carboxylase (EC 2.7.7.6) (RNAP beta subunit)	Q9BUY8	Q9BUY8_STAAM	128762.5703	5.2	22	135	100	0	0	15	135	0/Mox	WP 05	05.3 P040308_ StaphAureus Run 2-3	WP 05 D9	P040308_JV_0572C	WP 05 D9	18		
257/WP 100478	4	78	1	Hypothetical protein SAV0093 (EC 2.7.7.6) (RNAP beta subunit)	Q9BXE9	Q9BXE9_STAAM	122103.681	18	184	100	54	100	29	100	15.9	130	2/Mox-NAc	WP 15	15.2 P050415_B_ StAur	P050412_JV_1532B	WP 15 B5	79		
266/WP 050259	2	59	1	DNA-directed RNA polymerase beta chain (EC 2.7.7.6) (RNAP beta subunit)	P60284	RPOC_STAAM	135893.6563	6.5	30	267	100	57	100	32	100	13	210	3/Mox	WP 05	05.2 P040308_ StaphAureus Run 2-3	P040308_JV_0559B	WP 05 G8	26	
288/WP 150272	2	72	1	UVABC system protein A (UVA protein) (EC 4.2.1.3) (Citrate acetylhydrolase ABC subunit A)	Q9BVL6	Q9BVL6_STAAM	106003.599	5.0	643	100	269	100	89	100	29.7	374	6/Mox-NAc	WP 15	15.2 P050415_B_ StAur	P050412_JV_1572B	WP 15 D5	68		
299/WP 050276	2	76	2	Hydrolyase (Acetates) (EC 3.1.1.1) (RNAP beta subunit)	Q9BUC8	ACON_STAAM	99135.86719	4.8	23	186	100	13	83	13	83	11.5	173	1/Mox	WP 05	05.2 P040308_ StaphAureus Run 2-3	P040308_JV_0576B	WP 05 D7	30	
299/WP 050276	2	76	1	DNA-directed RNA polymerase beta chain (EC 2.7.7.6) (RNAP beta subunit)	P60284	RPOC_STAAM	135893.6563	6.5	30	203	100	24	98	24	98	12.1	179	1/Mox	WP 05	05.2 P040308_ StaphAureus Run 2-3	P040308_JV_0576B	WP 05 D7	30	
313/WP 150252	2	52	1	DNA polymerase III alpha subunit (EC 2.7.7.7)	Q9BTG0	Q9BTG0_STAAM	122987.591	39	396	100	63	100	70	100	17.4	233	4/Mox-NAc	WP 15	15.2 P050415_B_ StAur	P050412_JV_1552B	WP 15 C5	81		
326/WP 050237	2	37	1	Hydrolyase (Acetates)	Q9BUC8	ACON_STAAM	99135.86719	4.8	41	619	100	268	100	133	100	52.9	351	4/Mox	WP 05	05.2 P040308_ StaphAureus Run 2-3	P040308_JV_0537B	WP 05 F7	31	
327/WP 010112	1	12	1	Oxidoreductase (dehydrogenase)	Q9B1R8	Q9B1R8_STAAM	104752.55	4.8	762	100	375	100	137	100	68.1	387	4/Mox	WP 01	01.1 P040302_ StaphAureus Run 2-3	P040302_JV_0101A	WP 01 A1	16		
329/WP 050354	3	54	1	UVABC system protein A (UVA protein) (EC 4.2.1.3) (Citrate acetylhydrolase ABC subunit A)	Q9BVL6	Q9BVL6_STAAM	106002.6594	6.0	31	382	100	56	100	35	100	20.5	326	4/Mox	WP 05	05.2 P040308_ StaphAureus Run 2-3	P040308_JV_0554C	WP 05 C10	12	
345/WP 050257	2	57	1	Carbamoyl-phosphate synthase large chain (EC 6.3.5.5) (Carbamoyl-phosphate synthetase a subunit)	Q9B0R5	CARB_STAAM	117553.9297	4.9	42	428	100	183	100	66	100	39.6	245	3/Mox	WP 05	05.2 P040308_ StaphAureus Run 2-3	P040308_JV_0557B	WP 05 G7	32	
350/WP 100575	5	75	1	Oxoglutarate dehydrogenase	Q9B1R8	Q9B1R8_STAAM	104752.1328	5.5	12	219	100	95	100	42	100	10.6	124	4/Mox	WP 10	10.2 P04315_ StaphAureus run 2-3/H6	P04315_JV_1076B	WP 10 H6	14	

352/WP/00036	6	36	1	Oxoglutarate dehydrogenase	ODO1_STAAM	Q9B1R8	104752.1328	5.5	13	293	100	106	100	45	100	15.9	197	4/Mox	WP 06	06.3 P040308_SlappAureus Run 2-3	B11	WP 06 B 11	P040308_JV_14	
352/WP/100536	5	36	1	Oxoglutarate dehydrogenase	ODO1_STAAM	Q9B1R8	104752.1328	5.5	24	512	100	306	100	120	100	39.6	206	4/Mox	WP 10	10.2P04315_SlappAureus run 2-3/B7	WP 10 B 7	WP 10 B 7	P040315_JV_19	
360/WP/100516	5	16	1	Oxoglutarate dehydrogenase	ODO1_STAAM	Q9B1R8	104752.1328	5.5	26	458	100	262	100	78	100	27.4	196	4/Mox	WP 10	10.2P04315_SlappAureus run 2-3/A7	WP 10 A 7	WP 10 A 7	P040315_JV_15	
364/WP/150155	1	55	1	1(tetrahydropteridine-5C,6,7,8-tetrahydro-2,4-dihydroxy-6-methyl-3,4-dihydro-2H-pyridin-2-one) synthase (EC 6.1.1.5)	SYL_STAAM	Q9B2M0	98564.527	6.3	903	100	549	100	145	100	59.6	354	6/Mox:NAc	WP 15	15.1 P050415_A_SlappAur	G2	WP 15 G 2	P050412_JV_85		
364/WP/150155	1	55	2	DNA gyrase subunit A (EC 5.99.1.3)	GYRA_STAAM	Q9B2M0	98564.527	6.3	145	100	1	94.8	1	94.8	1	17.0	345	1/Mox:NAc	WP 15	15.1 P050415_A_SlappAur	G2	WP 15 G 2	P050412_JV_85	
395/WP/150175	1	75	1	1(tetrahydropteridine-5C,6,7,8-tetrahydro-2,4-dihydroxy-6-methyl-3,4-dihydro-2H-pyridin-2-one) synthase (EC 6.1.1.5)	SYL_STAAM	Q9B2M0	105162.527	6.2	48	100	100	115	100	115	100	56.2	122	6/Mox:NAc	WP 15	15.1 P050415_A_SlappAur	H2	WP 15 H 2	P050412_JV_80	
396/WP/100417	4	17	1	DNA mismatch repair protein	MUTS_STAAM	Q9B1S8	88680.25	4.9	31	510	100	247	100	111	100	34.5	263	4/Mox	WP 10	10.1 P04315_SlappAureus run 2-3/E3	WP 10 E 3	WP 10 E 3	P040315_JV_25	
398/WP/010132	1	32	1	Hypothetical protein SAV0232	Q9BWZ1_STAAM	Q9BWZ1	84625	5.6	29	474	100	113	100	59	100	26.9	361	3/Mox	WP 01	01.1 P040302_SlappAureus Run	B1	WP 01 B 1	P040302_JV_20	
398/WP/150158	1	58	1	Oxoglutarate dehydrogenase	ODO1_STAAM	Q9B1R8	104752.1328	5.5	51	959	100	682	100	145	100	81.1	277	6/Mox:NAc	WP 15	15.3 P04308_SlappAureus Run	C4	WP 15 C 4	P04308_JV_88	
370/WP/050312	3	12	1	1(tetrahydropteridine-5C,6,7,8-tetrahydro-2,4-dihydroxy-6-methyl-3,4-dihydro-2H-pyridin-2-one) synthase (EC 6.1.1.5)	SYL_STAAM	Q9B2M0	105161.8828	5.3	46	646	100	266	100	98	100	62.6	390	4/Mox	WP 05	05.3 P04308_SlappAureus Run 2-3	A9	WP 05 A 9	P040315_JV_27	
374/WP/100477	4	77	1	Alanyl-tRNA synthetase (EC 6.1.1.7)	SYA_STAAM	Q9B1T1	98533.57031	5.0	33	447	100	179	100	70	100	33.4	368	4/Mox	WP 10	10.1 P04315_SlappAureus run 2-3/H3	WP 10 H 3	WP 10 H 3	P040315_JV_30	
384/WP/100437	4	37	1	Alanyl-tRNA synthetase (EC 6.1.1.7)	SYA_STAAM	Q9B1T1	98533.57031	5.0	40	750	100	388	100	123	100	65.6	362	4/Mox	WP 10	10.1 P04315_SlappAureus run 2-3/F3	WP 10 F 3	WP 10 F 3	P040315_JV_36	
383/WP/050278	2	78	1	1(tetrahydropteridine-5C,6,7,8-tetrahydro-2,4-dihydroxy-6-methyl-3,4-dihydro-2H-pyridin-2-one) synthase (EC 6.1.1.5)	SYL_STAAM	Q9B1T1	91784.14844	5.0	42	584	100	290	100	128	100	54.2	294	4/Mox	WP 05	05.3 P04308_SlappAureus Run	D8	WP 05 D 8	P040308_JV_38	
393/WP/050278	2	78	2	Alanyl-tRNA synthetase (EC 6.1.1.7)	SYA_STAAM	Q9B1T1	98533.57031	5.0	21	75	100	0	0	12.2	75	0	0	0/Mox	WP 05	05.2 P04308_SlappAureus Run	D8	WP 05 D 8	P040308_JV_38	
395/WP/150172	1	72	1	Leucyl-tRNA synthetase (EC 6.1.1.4)	SYL_STAAM	Q9B1T8	91784.14844	5.0	46	653	100	382	100	119	100	40.6	281	5/Mox:NAc	WP 15	15.1 P050415_A_SlappAur	D1	WP 15 D 1	P050412_JV_109	
405/WP/100439	4	36	1	CtpB protein (CtpB, chaperone homolog)	CLPB_STAAM	Q9B1B5	98393.71094	5.0	51	537	100	116	100	55	100	45.9	421	3/Mox	WP 10	10.1 P04315_SlappAureus run 2-3/B4	WP 10 B 4	WP 10 B 4	P040315_JV_36	
408/WP/060574	5	74	1	Valine-tRNA ligase	SYV_STAAM	Q9B1O1	101879.1875	5.0	30	419	100	173	100	71	100	25.9	247	4/Mox	WP 06	06.3 P04308_SlappAureus Run	D6	WP 06 D 6	P040308_JV_44	
409/WP/100418	4	18	2	Valine-tRNA ligase	SYV_STAAM	Q9B1O1	101879.1875	5.0	25	127	100	17	94	17	94	10.9	110	1/Mox	WP 10	10.1 P04315_SlappAureus run 2-3/A4	WP 10 A 4	WP 10 A 4	P040315_JV_35	
409/WP/100418	4	18	1	DNA polymerase I	Q9B1H2_STAAM	Q9B1H2	99135.03125	5.0	25	139	100	13	84	13	84	11.2	126	1/Mox	WP 10	10.1 P04315_SlappAureus run 2-3/A4	WP 10 A 4	WP 10 A 4	P040315_JV_35	
413/WP/150132	1	32	1	Hypothetical protein SAV1619	Q9B1N0_STAAM	Q9B1N0	93128.475	4.7	47	676	100	393	100	114	100	53.8	293	5/Mox:NAc	WP 15	15.1 P050415_A_SlappAur	B1	WP 15 B 1	P050412_JV_122	
420/WP/010163	1	53	1	beta cha	SYFB_STAAM	Q9BUW6	89113	4.7	42	843	100	450	100	140	100	73.2	393	4/Mox	WP 01	01.1 P04302_SlappAureus Run	G1	WP 01 G 1	P040302_JV_56	
421/WP/100457	4	57	2	DNA polymerase I	Q9B1H2_STAAM	Q9B1H2	99135.03125	5.0	25	169	100	34	100	25	135	1	1	1/Mox	WP 10	10.1 P04315_SlappAureus run 2-3/G3	WP 10 G 3	WP 10 G 3	P040315_JV_37	
421/WP/100457	4	57	1	Alanyl-tRNA synthetase (EC 6.1.1.4)	SYL_STAAM	Q9B1T8	91784.14844	5.0	27	387	100	203	100	121	100	24	164	3/Mox	WP 10	10.1 P04315_SlappAureus run 2-3/G3	WP 10 G 3	WP 10 G 3	P040315_JV_37	
421/WP/100457	4	57	3	Alanyl-tRNA synthetase (EC 6.1.1.7)	SYA_STAAM	Q9B1T1	98533.57031	5.0	19	85	100	0	0	11	85	0	0	0/Mox	WP 10	10.1 P04315_SlappAureus run 2-3/G3	WP 10 G 3	WP 10 G 3	P040315_JV_37	
441/WP/150116	1	16	1	DNA mismatch repair protein mutL	MULT_STAAM	Q9BUH7	77051	5.21	46	757	100	488	100	163	100	52.9	289	8/Mox:NAc	WP 15	15.1 P050415_A_SlappAur	A3	WP 15 A 3	P050412_JV_117	
447/WP/050334	3	34	1	Preprotein translocase subunit	SECA_STAAM	Q9B1W2	96128.35938	5.1	25	350	100	83	100	50	100	21.9	267	2/Mox	WP 05	05.3 P04308_SlappAureus Run	B10	WP 05 B 10	P040308_JV_46	
457/WP/070132	1	32	1	Preprotein translocase subunit	SECA_STAAM	Q9B1W2	96128.35938	5.1	55	534	100	134	100	90	100	48.1	400	2/Mox	WP 07	07.3 P04031_SlappAureus Run	B1	WP 07 B 1	P040311_JV_41	
468/WP/050374	3	74	1	Topoisomerase IV subunit A (EC 5.99.1.-)	PARC_STAAM	Q9B1S2	90985.72656	6.0	13	238	100	95	100	50	100	14.7	143	3/Mox	WP 05	05.3 P04308_SlappAureus Run	D10	WP 05 D 10	P040308_JV_43	
470/WP/050336	3	36	1	MutS2 protein	MUTS2_STAAM	Q9BUW1	88729.21094	5.9	7	113	100	29	100	15	91	8.84	84	2/Mox	WP 05	05.3 P04308_SlappAureus Run	B11	WP 05 B 11	P040308_JV_42	
483/WP/005556	5	56	1	Endopeptidase	Q9B1W7_STAAM	Q9B1W7	91038	5.5	17	207	100	1	0	1	0	12.4	206	1/Mox	WP 10	10.2P04315_SlappAureus run 2-3/C7	WP 10 C 7	WP 10 C 7	P040315_JV_48	
495/WP/010172	1	72	1	Endopeptidase	Q9B1W7_STAAM	Q9B1W7	91038	5.5	39	499	100	140	100	80	100	31.4	359	4/Mox	WP 01	01.1 P04302_SlappAureus Run	D1	WP 01 D 1	P040302_JV_50	
498/WP/150178	1	78	1	Endopeptidase	Q9B1W7_STAAM	Q9B1W7	91038	5.51	59	850	100	487	100	133	100	45.1	363	5/Mox:NAc	WP 15	15.1 P050415_A_SlappAur	D4	WP 15 D 4	P050412_JV_138	
510/WP/010113	1	13	1	Endopeptidase	Q9B1W7_STAAM	Q9B1W7	91038	5.5	50	639	100	306	100	124	100	58.4	333	4/Mox	WP 01	01.1 P04302_SlappAureus Run	E1	WP 01 E 1	P040302_JV_54	
510/WP/010113	1	13	1	Protein tyrosine phosphatase (SH-PTPase)	Q9B1W1_STAAM	Q9B1W1	85103	5.5	22	79	100	0	0	0	77.9	79	0/Mox	WP 01	01.1 P04302_SlappAureus Run	E1	WP 01 E 1	P040302_JV_54		
530/WP/150152	1	52	1	SAO959 protein (GTP-binding elongation factor homologue) (MMV9592 protein)	Q9BU23_STAAM	Q9BU23	69286	4.94	40	857	100	671	100	181	100	71.6	196	6/Mox:NAc	WP 15	15.1 P050415_A_SlappAur	C1	WP 15 C 1	P050412_JV_135	
539/WP/100532	5	32	1	Translation initiation factor F-2	IF2_STAAM	Q9BUK3	77922.97656	5.1	13	146	100	61	100	32	100	5.81	85	2/Mox	WP 10	10.2P04315_SlappAureus run 2-3/B5	WP 10 B 5	WP 10 B 5	P040315_JV_59	
553/WP/150136	1	36	1	Translation initiation factor F-2	IF2_STAAM	Q9BUK3	77923	5.09	35	687	100	491	100	131	100	42.6	196	6/Mox:NAc	WP 15	15.1 P050415_A_SlappAur	B3	WP 15 B 3	P050412_JV_147	
559/WP/150233	2	33	3	p19A, primosomal protein	Q9BUO6_STAAM	Q9BUO6	93180	6.11	54	777	100	453	100	130	100	56.6	324	6/Mox:NAc	WP 15	15.3 P04308_SlappAureus Run	F5	WP 15 F 5	P040311_JV_150	
561/WP/070113	1	13	1	Translation initiation factor F-2	IF2_STAAM	Q9BUK3	77922.97656	5.1	24	378	100	78	100	58	100	22.7	300	4/Mox	WP 07	07.1 P04031_SlappAureus Run	E1	WP 07 E 1	P040311_JV_60	
564/WP/050275	2	75	1	Translation initiation factor F-2	IF2_STAAM	Q9BUK3	77922.97656	5.1	9	135	100	55	100	30	100	7.46	80	3/Mox	WP 05	05.2 P04308_SlappAureus Run	H6	WP 05 H 6	P040308_JV_79	
568/WP/070152	1	52	1	Translation initiation factor F-2	IF2_STAAM	Q9BUK3	77922.97656	5.1	39	835	100	495	100	157	100	51.1	350	4/Mox	WP 07	07.3 P04031_SlappAureus Run	H6	WP 07 H 6	P040311_JV_79	
573/WP/060676	6	76	1	ATP-dependent DNA helicase pcrA (EC 3.6.1.-)	PCRA_STAAM	Q9BSY2	84222	6.25	5.6	38	637	100	206	100	73	100	39.2	431	4/Mox	WP 06	06.3 P04308_SlappAureus Run 2-3	D11	WP 06 D 11	P040308_JV_59
573/WP/100537	5	37	1	ATP-dependent DNA helicase pcrA (EC 3.6.1.-)	PCRA_STAAM	Q9BSY2	84222	5.625	5.6	36	600	100	283	100	77	100	42	317	4/Mox	WP 10	10.2P04315_SlappAureus run 2-3/F7	WP 10 F 7	WP 10 F 7	P040315_JV_69

575	WP 010154	1	54	Sulfite reductase (NADPH) flavoprotein (EC 1.8.1.2) (Sulfite reductase flavoprotein)	Q9BR17	Q9BR17_STAAM	72602	4.5	10	229	100	110	100	52	100	20.3	119	4	Mox	WP 01	01_1 P040302_StephAureus Run 2-3	C2	WP 01 C2	P040302_JV_0156A	81
577	WP 100533	5	33	1-ClpB protein (ClpB chaperone homologue)	Q9BV85	CLPB_STAAM	99393.71094	5.0	42	444	100	135	100	59	100	51.4	309	3	Mox	WP 10	10_2P04315_StephAureus run 2-3	F5	WP 10 F5	P040315_JV_1033B	65
579	WP 050333	3	33	1-Formate acetyltransferase	Q9BWZ7	STAAAM	85284.00781	5.3	30	480	100	92	100	40	100	33.9	388	3	Mox	WP 05	05_3 P040308_StephAureus Run	F9	WP 05 F9	P040308_JV_0833C	62
580	WP 100517	5	17	1-ATP-dependent DNA helicase porA (EC 3.6.1.-)	Q9BSY2	PCRA_STAAM	84222.5625	5.6	37	676	100	325	100	95	100	39.2	351	4	Mox	WP 10	10_2P04315_StephAureus run 2-3	E7	WP 10 E7	P040315_JV_1017B	66
582	WP 100512	5	12	1-Virostatin binding protein	P81683	EEG_STAAM	76718.03125	4.8	8	83	100	0	0	0	0	7.16	83	0	Mox	WP 10	07_1 P040311_StephAureus Run	A5	WP 10 A5	P040311_JV_10125	70
627	WP 070133	1	33	1-DNA ligase	Q9BSY3	DNLI_STAAM	75333.75	5.2	42	525	100	206	100	86	100	39.1	319	3	Mox	WP 07	07_1 P040311_StephAureus Run	F1	WP 07 F1	P040311_JV_0733A	71
628	WP 150212	2	12	1-Hypothetical protein SAV2063	Q9BS19	STAAAM	80914.604	3.1	448	100	162	100	81	100	25.1	286	6	Mox;N:Ac	WP 15	15_2 P050415_B_StephAureus Run	A5	WP 15 A5	P050415_JV_1512B	170	
634	WP 010115	1	15	1-Hypothetical protein SAV2063	Q9BS19	STAAAM	80914.604	3.1	448	100	162	100	81	100	25.1	286	6	Mox;N:Ac	WP 15	15_2 P050415_B_StephAureus Run	A5	WP 15 A5	P050415_JV_1512B	170	
638	WP 010179	1	79	1-ATP-dependent DNA helicase recG (EC 3.6.1.-)	Q9BUP1	RECG_STAAM	76590.585	4.1	685	100	367	100	139	100	39.2	318	5	Mox	WP 01	01_1 P040302_StephAureus Run	E2	WP 01 E2	P040302_JV_0132A	86	
639	WP 050335	3	35	1-Hypothetical protein SAV2063	Q9BS19	STAAAM	80913.67968	6.0	22	350	100	100	100	56	100	32.7	250	4	Mox	WP 05	05_3 P040308_StephAureus Run	H4	WP 05 H4	P040308_JV_0535C	183
654	WP 010175	1	75	1-Hypothetical protein SAV2644	Q9BQZ4	STAAAM	69243.60	1.8	285	100	83	100	44	100	11.2	182	3	Mox	WP 01	01_1 P040302_StephAureus Run	H2	WP 01 H2	P040302_JV_0175A	85	
666	WP 010137	1	37	1-Tigger factor (TF)	Q9BT16	TIG_STAAM	48579.43	3.2	467	100	182	100	55	100	68.3	295	4	Mox	WP 01	01_1 P040302_StephAureus Run	F3	WP 01 F3	P040302_JV_0137A	122	
669	WP 150119	1	19	1-DNA gyrase subunit B (EC 5.99.1.3)	Q9BXG6	GYRB_STAAM	72478.566	5.6	698	100	360	100	150	100	67.3	338	6	Mox;N:Ac	WP 15	15_1 P050415_A_StephAureus Run	E4	WP 15 E4	P050415_JV_1519A	180	
674	WP 050218	2	18	1-Methionyl-tRNA synthetase (EC 6.1.1.10)	Q9WB83	SYM_STAAM	74826.14083	5.1	19	278	100	94	100	35	100	11.2	194	3	Mox	WP 05	05_2 P040308_StephAureus Run	A8	WP 05 A8	P040308_JV_0518B	93
675	WP 070174	1	74	1-Threonyl-tRNA synthetase (EC 6.1.1.3)	Q9BTH9	SYT_STAAM	74455.39398	5.3	11	229	100	98	100	60	100	15.5	140	2	Mox	WP 07	07_1 P040311_StephAureus Run	D2	WP 07 D2	P040311_JV_0714A	74
681	WP 070173	1	73	1-Methionyl-tRNA synthetase (EC 6.1.1.10)	Q9WB83	SYM_STAAM	74826.14083	5.1	32	534	100	208	100	80	100	58.1	326	4	Mox	WP 07	07_1 P040311_StephAureus Run	H1	WP 07 H1	P040311_JV_0713A	89
682	WP 010155	1	55	1-Threonyl-tRNA synthetase (EC 6.1.1.3)	Q9BTH9	SYT_STAAM	74455.39398	5.3	11	229	100	98	100	60	100	15.5	140	2	Mox	WP 07	07_1 P040311_StephAureus Run	D2	WP 07 D2	P040311_JV_0714A	74
689	WP 060554	5	54	1-Dihydropyrimidine acetyltransferase	Q9BV06	ODP2_STAAM	45396.64844	4.9	15	539	100	398	100	122	100	25.9	141	4	Mox	WP 06	06_2 P040308_StephAureus Run	C5	WP 06 C5	P040308_JV_0654B	117
690	WP 050238	2	38	1-Methionyl-tRNA synthetase (EC 6.1.1.10)	Q9WB83	SYM_STAAM	74826.14083	5.1	15	191	100	29	100	22	98	9.3	162	2	Mox	WP 05	05_2 P040308_StephAureus Run	B8	WP 05 B8	P040308_JV_0538B	102
691	WP 070174	1	14	1-Insular subunit	Q9BVP2	STAAAM	82446.32031	5.4	26	386	100	180	100	81	100	38.5	198	4	Mox	WP 07	07_1 P040311_StephAureus Run	A2	WP 07 A2	P040311_JV_0714A	85
701	WP 100534	5	34	1-Complex (EC 2.3.1.1)	Q9BV06	ODP2_STAAM	45396.64844	4.9	14	323	100	181	100	66	100	22.8	142	4	Mox	WP 10	10_2P04315_StephAureus run 2-3	B6	WP 10 B6	P040315_JV_1034B	96
701	WP 100534	5	34	2-Transketolase (EC 2.2.1.1) (TK)	Q9BUD4	TKT_STAAM	72206.0625	5.0	11	96	100	0	0	0	0	9.45	96	0	Mox	WP 10	10_2P04315_StephAureus run 2-3	B6	WP 10 B6	P040315_JV_1034B	96
704	WP 010116	1	16	2-DNA gyrase subunit B (EC 5.99.1.3)	Q9BXG6	GYRB_STAAM	72478.57	1.4	125	100	34	100	34	100	9.34	91	1	Mox	WP 01	01_1 P040302_StephAureus Run	A3	WP 01 A3	P040302_JV_0116A	98	
704	WP 010116	1	16	1-Hypothetical protein SAV2181	Q9BS85	STAAAM	76158.57	1.6	172	100	42	100	29	100	8.96	130	2	Mox	WP 01	01_1 P040302_StephAureus Run	D3	WP 01 D3	P040302_JV_0116A	98	
705	WP 010176	1	76	1-Glucose inhibited division protein A	Q9BQT4	GIDA_STAAM	70243.53	11	267	100	220	100	50	100	13.6	147	4	Mox	WP 01	01_1 P040302_StephAureus Run	A3	WP 01 A3	P040302_JV_0116A	98	
708	WP 100553	5	53	1-Transketolase (EC 2.2.1.1) (TK)	Q9BUD4	TKT_STAAM	72206.0625	5.0	26	415	100	165	100	107	100	41.1	250	3	Mox	WP 10	10_2P04315_StephAureus run 2-3	G5	WP 10 G5	P040315_JV_1053B	110
709	WP 070175	1	75	1-Pyruvate kinase	Q9BTG5	STAAAM	62931.16016	5.2	23	398	100	93	100	31	100	40.1	305	4	Mox	WP 07	07_1 P040311_StephAureus Run	H2	WP 07 H2	P040311_JV_0715A	99
710	WP 010156	1	56	1-Glucose inhibited division protein A	Q9BQT4	GIDA_STAAM	70243.53	4.2	799	100	450	100	182	100	61	348	4	Mox	WP 01	01_1 P040302_StephAureus Run	C3	WP 01 C3	P040302_JV_0156A	103	
710	WP 060657	6	57	1-Glucose inhibited division protein A	Q9BQT4	GIDA_STAAM	70243.11718	5.3	22	435	100	185	100	74	100	34.1	250	4	Mox	WP 06	06_3 P040308_StephAureus Run	G11	WP 06 G11	P040308_JV_0657C	103
712	WP 070136	1	36	1-Transketolase (EC 2.2.1.1) (TK)	Q9BUD4	TKT_STAAM	72206.0625	5.0	27	471	100	189	100	99	100	46.5	292	3	Mox	WP 07	07_1 P040311_StephAureus Run	B3	WP 07 B3	P040311_JV_0736A	103
714	WP 010157	1	57	1-Glucose inhibited division protein A	Q9BQT4	GIDA_STAAM	70243.53	20	371	100	195	100	57	100	26.3	176	4	Mox	WP 01	01_1 P040302_StephAureus Run	G3	WP 01 G3	P040302_JV_0157A	107	
714	WP 010157	1	57	2-Pyruvate kinase	Q9BTG5	STAAAM	62931.16016	5.2	12	86	100	0	0	0	0	6.63	86	0	Mox	WP 01	01_1 P040302_StephAureus Run	G3	WP 01 G3	P040302_JV_0157A	107
716	WP 060639	6	39	1-ATP-dependent Clp protease chain gpL	Q9BR88	STAAAM	77923.70313	4.8	16	334	100	140	100	60	100	18.3	194	4	Mox	WP 06	06_3 P040308_StephAureus Run	F12	WP 06 F12	P040308_JV_0639C	125
716	WP 070156	1	56	1-ATP-dependent Clp protease chain gpL	Q9BR88	STAAAM	77923.70313	4.8	25	393	100	108	100	93	100	46.9	295	3	Mox	WP 07	07_1 P040311_StephAureus Run	C3	WP 07 C3	P040311_JV_0759A	109
717	WP 070115	1	15	1-Transketolase (EC 2.2.1.1) (TK)	Q9BUD4	TKT_STAAM	72206.0625	5.0	38	631	100	294	100	150	100	64.9	337	3	Mox	WP 07	07_1 P040311_StephAureus Run	E2	WP 07 E2	P040311_JV_0715A	105
726	WP 010118	1	18	1-Chaperone protein DnaK (Heat shock 70 kDa protein)	Q9BTR7	DNAK_STAAM	66378.47	4.3	723	100	357	100	196	100	67.2	366	3	Mox	WP 01	01_1 P040302_StephAureus Run	A4	WP 01 A4	P040302_JV_0118A	128	
729	WP 060677	6	77	1-Glucose inhibited division protein A	Q9BQT4	GIDA_STAAM	70243.11718	5.3	13	181	100	56	100	32	100	9.8	125	2	Mox	WP 06	06_3 P040308_StephAureus Run	H11	WP 06 H11	P040308_JV_0677C	108
729	WP 060677	6	77	2-Vga protein (Hypothetical ABC transporter)	Q9BSK5	STAAAM	74427.72656	5.3	10	119	100	41	100	37	100	8.45	78	2	Mox	WP 06	06_3 P040308_StephAureus Run	H11	WP 06 H11	P040308_JV_0677C	108
729	WP 070116	1	16	1-Vga protein (Hypothetical ABC transporter)	Q9BSK5	STAAAM	74427.72656	5.3	18	366	100	194	100	67	100	42.8	172	4	Mox	WP 07	07_1 P040311_StephAureus Run	A3	WP 07 A3	P040311_JV_0716A	104
730	WP 010136	1	36	1-DNA polymerase III gamma and Iau subunits	Q9BWC5	STAAAM	69831.54	20	289	100	99	100	66	100	22.9	190	3	Mox	WP 01	01_1 P040302_StephAureus Run	B3	WP 01 B3	P040302_JV_0136A	100	

731	WP 150135	1	53	Hypothetical protein SAV1304	Q9BU98	STAA	Q9BU98	69355	4.64	35	790	100	630	100	128	100	62.2	160	6	Mox:N:Ac	WP 15	15.1	P050415_A_SibAur	G1	WP 15 G1	P050412_JV_1559A	216	
734	WP 150136	1	59	Fructase-bisphosphatase	Q9RB99	STAA	Q9RB99	76469	5.83	36	500	100	230	100	66	100	27.6	270	6	Mox:N:Ac	WP 15	15.1	P050415_A_SibAur	G4	WP 15 G4	P050412_JV_1559A	216	
737	WP 010158	1	58	2,3-bisphosphoglycerate-independent phosphoglycerate mutase (EC 5.4.2.1)	Q9BU98	STAA	Q9BU98	56476	4.7	27	679	100	445	100	155	100	77.7	234	4	Mox	WP 01	01.1	P040302_SlappAureus Run	C4	WP 01 C4	P040302_JV_0158A	134	
748	WP 070157	1	57	Cell division protein ftsA (Phosphoglycerate mutase-independent phosphoglycerate mutase (EC 5.4.2.1))	Q9BU99	STAA	Q9BU99	53073	2.9047	4.5	135	100	45	100	45	100	13.9	90	1	Mox	WP 07	07.1	P040311_SlappAureus Run	G3	WP 07 G3	P040311_JV_0757A	118	
749	WP 010138	1	38	1-Phosphoglycerate mutase	Q9BU96	STAA	Q9BU96	56476	4.7	14	294	100	143	100	55	100	29.4	151	4	Mox	WP 01	01.1	P040302_SlappAureus Run	B4	WP 01 B4	P040302_JV_0138A	130	
755	WP 060638	6	38	Hypothetical protein SAV0720	Q9BU93	STAA	Q9BU93	72409	1.6525	5.3	528	100	231	100	106	100	38.4	297	4	Mox	WP 06	06.1	P040308_SlappAureus Run	B12	WP 06 B12	P040308_JV_0638C	116	
755	WP 070176	1	76	Hypothetical protein SAV0720	Q9BU93	STAA	Q9BU93	72409	1.6525	5.3	136	100	45	100	37	100	20.4	91	2	Mox	WP 07	07.1	P040308_SlappAureus Run	D3	WP 07 D3	P040308_JV_0776A	117	
757	WP 080375	3	75	Fructase-bisphosphatase	Q9RB99	STAA	Q9RB99	76469	2.1084	5.8	432	100	114	100	51	100	21.4	318	3	Mox	WP 05	05.1	P040302_SlappAureus Run	H10	WP 05 H10	P040302_JV_0575C	110	
759	WP 070158	1	58	1-Cell division protein ftsA	Q9BU99	STAA	Q9BU99	53073	2.9047	4.5	14	261	100	100	62	100	18.8	161	3	Mox	WP 07	07.1	P040311_SlappAureus Run	C4	WP 07 C4	P040311_JV_0758A	120	
761	WP 060618	6	19	Tetraycine resistance protein tetM	Q9B218	STAA	Q9B218	73130	6.0156	5.7	11	170	100	34	100	29	100	7.49	136	2	Mox	WP 06	06.1	P050412_SlappAureus Run	A12	WP 06 A12	P050412_JV_0618C	119
761	WP 150139	1	39	1-TetM	Q9B218	STAA	Q9B218	73131	5.69	33	560	100	357	100	93	100	32.6	203	6	Mox:N:Ac	WP 15	15.1	P050415_A_SibAur	F4	WP 15 F4	P050412_JV_0618C	119	
763	WP 010178	1	78	1-Cell division protein ftsA	Q9BU99	STAA	Q9BU99	53073	4.5	19	358	100	100	100	75	100	33.4	258	2	Mox	WP 01	01.1	P040302_SlappAureus Run	D4	WP 01 D4	P040302_JV_0178A	142	
768	WP 070137	1	37	1-Cell division protein ftsA	Q9BU99	STAA	Q9BU99	53073	2.9047	4.5	13	296	100	144	100	82	100	28.3	152	3	Mox	WP 07	07.1	P040311_SlappAureus Run	F3	WP 07 F3	P040311_JV_0737A	122
769	WP 150115	1	15	1-GTP-Binding protein lepA	Q9BTR4	STAA	Q9BTR4	68431	4.86	33	538	100	327	100	97	100	49.5	211	5	Mox:N:Ac	WP 15	15.1	P050415_A_SibAur	E2	WP 15 E2	P050412_JV_1515A	224	
771	WP 070178	1	78	2,3-bisphosphoglycerate-independent phosphoglycerate mutase (EC 5.4.2.1)	Q9BU96	STAA	Q9BU96	56476	12.106	4.7	19	389	100	217	100	71	100	38.1	172	4	Mox	WP 07	07.1	P040311_SlappAureus Run	D4	WP 07 D4	P040311_JV_0778A	127
775	WP 010177	1	77	Phosphoenolpyruvate-protein phosphotransferase (EC 2.7.3.9)	Q9BSA5	STAA	Q9BSA5	68778	4.9	38	893	100	500	100	173	100	46.2	393	4	Mox	WP 01	01.1	P040302_SlappAureus Run	H3	WP 01 H3	P040302_JV_0177A	121	
777	WP 010119	1	19	1-Phosphotransferase system, an	Q9B112	STAA	Q9B112	63394	4.6	11	131	100	54	100	46	100	14.1	77	2	Mox	WP 01	01.1	P040302_SlappAureus Run	E4	WP 01 E4	P040302_JV_0119A	143	
777	WP 010119	1	19	2-Cell division protein ftsA	Q9BU99	STAA	Q9BU99	53073	4.5	10	76	100	0	0	0	0	9.32	76	0	Mox	WP 01	01.1	P040302_SlappAureus Run	E4	WP 01 E4	P040302_JV_0119A	143	
779	WP 070159	1	59	1-thombosin (MMW982 protein)	Q9BU90	STAA	Q9BU90	68975	7.6781	5.1	15	271	100	106	100	66	100	15.5	165	3	Mox	WP 07	07.1	P040311_SlappAureus Run	G4	WP 07 G4	P040311_JV_0759A	130
782	WP 070138	1	38	1-Protein-RNA ligase	Q9BU93	STAA	Q9BU93	63876	4.6875	5.1	14	261	100	83	100	41	100	21.7	178	2	Mox	WP 07	07.1	P040311_SlappAureus Run	B4	WP 07 B4	P040311_JV_0738A	123
783	WP 070177	1	77	2-Proline-RNA ligase	Q9BU90	STAA	Q9BU90	68975	7.6781	5.1	26	412	100	188	100	91	100	44.6	224	4	Mox	WP 07	07.1	P040311_SlappAureus Run	H3	WP 07 H3	P040311_JV_0777A	128
784	WP 070118	1	18	1-thombosin (MMW982 protein)	Q9BU90	STAA	Q9BU90	68975	7.6781	5.1	45	723	100	366	100	126	100	71.9	357	4	Mox	WP 07	07.1	P040311_SlappAureus Run	A4	WP 07 A4	P040308_JV_0718A	129
789	WP 060219	2	19	1-Protein-RNA ligase	Q9BU93	STAA	Q9BU93	63876	4.6875	5.1	34	764	100	455	100	162	100	69.3	309	4	Mox	WP 05	05.1	P040308_SlappAureus Run	E8	WP 05 E8	P040308_JV_0519B	140
791	WP 070139	1	39	1-Hypothetical protein SAV1289	Q9BSA5	STAA	Q9BSA5	65777	8.8281	4.9	19	476	100	259	100	107	100	36.5	217	4	Mox	WP 07	07.1	P040311_SlappAureus Run	F4	WP 07 F4	P040311_JV_0739A	131
796	WP 010159	1	59	1-Hypothetical protein SAV1228	Q9BU92	STAA	Q9BU92	60762	4.7	18	486	100	281	100	101	100	67.9	195	4	Mox	WP 01	01.1	P040302_SlappAureus Run	G4	WP 01 G4	P040302_JV_0159A	152	
799	WP 150135	1	35	1-Aspartate-RNA ligase (AspRS)	Q9BTL9	STAA	Q9BTL9	66728	4.86	46	775	100	509	100	124	100	53.0	286	6	Mox:N:Ac	WP 15	15.1	P050415_A_SibAur	F2	WP 15 F2	P050412_JV_0359A	235	
802	WP 070252	2	52	1-Aspartate-RNA ligase (AspRS)	Q9BTL9	STAA	Q9BTL9	66728	11.718	5.0	13	184	100	63	100	45	100	19.5	121	2	Mox	WP 07	07.1	P040311_SlappAureus Run	G5	WP 07 G5	P040311_JV_0752B	135
805	WP 150173	1	73	1-Hypothetical protein SAV1228	Q9BU92	STAA	Q9BU92	60762	4.68	27	478	100	328	100	97	100	27.3	150	5	Mox:N:Ac	WP 15	15.1	P050415_A_SibAur	H1	WP 15 H1	P050412_JV_1573A	246	
806	WP 060359	3	59	1-2,6,1,16-Hexosephosphate aminotransferase [isomerizing] (EC 2.6.1.16)	Q9BSA5	STAA	Q9BSA5	65777	8.6281	4.9	28	718	100	354	100	125	100	42.5	364	4	Mox	WP 05	05.1	P040308_SlappAureus Run	G12	WP 05 G12	P040302_JV_0539C	153
809	WP 010179	1	79	1-Hypothetical protein SAV1289	Q9BU94	STAA	Q9BU94	64580	5.2	23	406	100	183	100	105	100	46.6	226	3	Mox	WP 01	01.1	P040302_SlappAureus Run	H4	WP 01 H4	P040302_JV_0179A	154	
810	WP 010233	2	33	2,3-bisphosphoglycerate-independent phosphoglycerate mutase (EC 5.4.2.1)	Q9BU96	STAA	Q9BU96	56476	4.7	15	387	100	215	100	92	100	35.4	152	4	Mox	WP 01	01.1	P040302_SlappAureus Run	F5	WP 01 F5	P040302_JV_0133B	156	
829	WP 060316	3	16	1-Hypothetical protein SAV0253	Q9BU90	STAA	Q9BU90	65104	7.4219	6.0	11	162	100	0	0	0	7.01	162	0	Mox	WP 05	05.1	P040308_SlappAureus Run	A11	WP 05 A11	P040308_JV_0516C	133	
832	WP 070253	2	53	1-Phosphoenolpyruvate-protein phosphotransferase system, an	Q9B112	STAA	Q9B112	63394	3.9063	4.6	21	566	100	369	100	118	100	56.2	197	4	Mox	WP 07	07.1	P040311_SlappAureus Run	G5	WP 07 G5	P040311_JV_0753B	148
834	WP 010139	1	39	DNA-dependent DNA polymerase beta	Q9BU92	STAA	Q9BU92	65066	5.3	24	352	100	154	100	96	100	28.5	198	4	Mox	WP 01	01.1	P040302_SlappAureus Run	F4	WP 01 F4	P040302_JV_0139A	136	
839	WP 070272	2	72	DNA-dependent DNA polymerase beta	Q9BU92	STAA	Q9BU92	65066	3.2031	5.3	14	180	100	34	100	26	99	13.4	146	2	Mox	WP 07	07.1	P040311_SlappAureus Run	D5	WP 07 D5	P040311_JV_0772B	139
841	WP 010255	2	55	60 kDa chaperonin (Protein Cpn60) (groEL)	Q9BSL7	STAA	Q9BSL7	57537	4.6	22	332	100	86	100	45	100	29	246	3	Mox	WP 01	01.1	P040311_SlappAureus Run	G5	WP 01 G5	P040311_JV_0158B	168	
847	WP 070233	2	33	1-Aspartate-RNA ligase (AspRS)	Q9BTL9	STAA	Q9BTL9	66728	11.718	5.0	21	376	100	137	100	48	100	42.2	238	4	Mox	WP 07	07.1	P040311_SlappAureus Run	F5	WP 07 F5	P040311_JV_0733B	144
849	WP 010272	2	72	1-Protein	Q9BSL7	STAA	Q9BSL7	57537	4.6	31	829	100	562	100	237	100	71.4	297	4	Mox	WP 01	01.1	P040302_SlappAureus Run	D5	WP 01 D5	P040302_JV_0172B	172	

856	WP 010212	2	12	1	Trans-2-oxo-ACP reductase (CIP, <i>trpA</i>) (EC 5.3.2)	UTP-ammoxin lipase (CTP synthetase)	Q9R013	Q9R013	27975	5.6	10	189	100	66	100	37	100	19	123	3	Mox	WP 01	01_2 P40302_SlappAureus Run 2-3	A5	WP 01 A5	P40302_JV_146	
858	WP 100519	5	19	1	Trans-2-oxo-ACP reductase (CIP, <i>trpA</i>) (EC 5.3.2)	UTP-ammoxin lipase (CTP synthetase)	Q9R013	Q9R013	60286	7.81	25	447	100	115	100	72	100	63.1	332	3	Mox	WP 10	01_2 P40302_SlappAureus Run 2-3	E8	WP 10 E8	P40315_JV_145	
880	WP 010274	2	74	1	Dihydroipicamide succinyltransferase		Q9R075	Q9R075	46712	4.9	24	438	100	245	100	91	100	55.9	193	3	Mox	WP 01	01_2 P40302_SlappAureus Run 2-3	D6	WP 01 D6	P40302_JV_181	
882	WP 070234	2	34	1	Hypothetical protein SAV2491 (Conserved hypothetical protein)		Q9R075	Q9R075	66285	6.0	24	298	100	60	100	34.2	238	1	Mox			WP 07	07_2 P40311_SlappAureus Run 1-2	B6	WP 07 B6	P40311_JV_153	
886	WP 070234	2	34	2	Diphennethyl protein SAV1275		Q9R075	Q9R075	67724	5.9884	5.8	17	126	100	0	0	15.7	126	0	Mox		WP 07	07_2 P40311_SlappAureus Run 1-2	B6	WP 07 B6	P40311_JV_153	
890	WP 070234	2	14	1	Acetyl-CoA synthetase		Q931F3	Q931F3	64619	4.8828	5.1	22	256	100	65	100	27.8	191	1	Mox		WP 07	07_2 P40311_SlappAureus Run 1-2	A6	WP 07 A6	P40311_JV_151	
891	WP 070273	2	73	1	Dihydroipicamide succinyltransferase		Q9R075	Q9R075	46711	5.3125	4.9	7	143	100	74	100	54	100	17.9	69	2	Mox	WP 07	07_2 P40311_SlappAureus Run 1-2	H5	WP 07 H5	P40311_JV_152
891	WP 070273	2	73	2	Elongation factor G (EF-G) (65 kDa)		P41683	Q9R075	76716	6.9125	4.8	10	96	100	3	0	3	0	20.4	93	1	Mox	WP 07	07_2 P40311_SlappAureus Run 1-2	H5	WP 07 H5	P40311_JV_152
893	WP 010252	2	52	1	Hypothetical protein SAV1275		Q9R017	Q9R017	62735	5.8	44	497	100	126	100	52	100	57.4	371	3	Mox	WP 01	01_2 P40302_SlappAureus Run 2-3	C5	WP 01 C5	P40302_JV_165	
895	WP 010236	2	36	1	Hypothetical protein SAV0385		Q9R014	Q9R014	36519	4.7	24	472	100	240	100	146	100	42.5	232	3	Mox	WP 01	01_2 P40302_SlappAureus Run 2-3	B7	WP 01 B7	P40302_JV_193	
898	WP 070215	2	15	1	Succinate dehydrogenase flavoprotein		Q9R022	Q9R022	66285	6.0	23	398	100	70	100	47	100	40.2	328	4	Mox	WP 07	07_2 P40302_SlappAureus Run 2-3	E6	WP 07 E6	P40302_JV_166	
894	WP 010232	2	32	1	Succinate dehydrogenase flavoprotein		Q9R018	Q9R018	66533	5.4	22	319	100	88	100	48	100	25.5	231	3	Mox	WP 01	01_2 P40302_SlappAureus Run 2-3	B5	WP 01 B5	P40302_JV_161	
905	WP 070235	2	35	1	DNA repair protein		Q9R177	Q9R177	66378	4.7	6	151	100	88	100	32	100	13	63	3	Mox	WP 07	07_2 P40311_SlappAureus Run 1-2	F6	WP 07 F6	P40311_JV_167	
907	WP 060575	5	75	1	DNA repair protein		Q9R177	Q9R177	64340	6.9125	5.0	31	686	100	374	100	145	100	35.9	312	4	Mox	WP 06	06_2 P40308_SlappAureus Run 1-2	H6	WP 06 H6	P40308_JV_177
910	WP 070234	2	54	1	Succinate dehydrogenase flavoprotein		Q9R018	Q9R018	65632	7.4218	5.4	22	343	100	118	100	85	100	43.3	225	4	Mox	WP 07	07_2 P40311_SlappAureus Run 1-2	C8	WP 07 C8	P40311_JV_157
911	WP 110272	2	72	1	Succinate dehydrogenase flavoprotein		Q9R018	Q9R018	65632	7.4218	5.4	40	784	100	480	100	178	100	66.4	304	4	Mox	WP 11	11_2 P40316_SlappAureus Run 11-28	D5	WP 11 D5	P40316_JV_160
915	WP 050338	3	38	1	Succinate dehydrogenase flavoprotein		HUTL	Q9R1G1	60853	7.8125	5.2	24	433	100	214	100	76	100	40.6	219	4	Mox	WP 05	05_3 P40308_SlappAureus Run 1-2	B12	WP 05 B12	P40308_JV_174
915	WP 060338	3	38	2	Succinate dehydrogenase flavoprotein		Q9R018	Q9R018	65632	7.4218	5.4	13	76	100	0	0	11.4	76	0	Mox	WP 05	05_3 P40308_SlappAureus Run 1-2	B12	WP 05 B12	P40308_JV_174		
917	WP 010214	2	14	1	Succinate dehydrogenase flavoprotein		Q9R018	Q9R018	66533	5.4	10	90	100	0	0	0	5.54	90	0	Mox	WP 01	01_2 P40302_SlappAureus Run 2-3	A6	WP 01 A6	P40302_JV_171		
918	WP 010276	2	76	1	SAT224 protein (ABC transporter homolog)		Q9R092	Q9R092	60360	4.9	40	647	100	291	100	146	100	62.1	356	4	Mox	WP 01	01_2 P40302_SlappAureus Run 2-3	D7	WP 01 D7	P40302_JV_204	
933	WP 100577	5	77	1	Hypothetical protein SAV0846 (Hypothetical protein MW0789)		Q9R099	Q9R099	52669	1.4944	5.1	25	519	100	308	100	106	100	62.7	211	4	Mox	WP 10	10_2 P40315_SlappAureus Run 2-3	H7	WP 10 H7	P40315_JV_166
935	WP 150318	3	18	1	Alpha-D,L-glucosidase		Q9R176	Q9R176	63954	4.51	22	353	100	254	100	89	100	24.2	99	5	Mox-NAc	WP 15	15_3 P050415_C_SlappAur	A12	WP 15 A12	P050412_JV_935	
935	WP 150318	3	18	2	dehydrogenase		Q9R012	Q9R012	64480	7.64	30	121	100	0	0	0	14.8	121	0	Mox-NAc	WP 15	15_3 P050415_C_SlappAur	A12	WP 15 A12	P050412_JV_935		
936	WP 010256	2	56	1	Hypothetical protein SAV0846 (Hypothetical protein MW0789)		Q9R099	Q9R099	52669	1.4944	5.1	31	574	100	298	100	110	100	66.7	285	4	Mox	WP 01	01_2 P40302_SlappAureus Run 2-3	C7	WP 01 C7	P40302_JV_196
937	WP 150274	2	74	1	Hypothetical protein SAV1292		Q9R011	Q9R011	59336	5.95	22	335	100	196	100	91	100	9.0	139	5	Mox-NAc	WP 15	15_2 P050415_B_SlappAur	A6	WP 15 A6	P050412_JV_301	
944	WP 010277	2	77	1	Alpha-D,L-glucosidase		Q9R176	Q9R176	63954	4.5	21	434	100	236	100	83	100	35.5	198	4	Mox	WP 01	01_2 P40302_SlappAureus Run 2-3	H7	WP 01 H7	P050412_JV_212	
948	WP 150114	1	14	1	Replicative DNA helicase		Q9R0F5	Q9R0F5	52710	4.66	27	503	100	355	100	99	100	46.6	148	5	Mox-NAc	WP 15	15_1 P050415_A_SlappAur	A2	WP 15 A2	P050412_JV_302	
949	WP 110212	2	12	1	Catalase (EC 1.11.1.6)		Q9R0E2	Q9R0E2	58668	3.9884	5.3	28	436	100	226	100	107	100	34.8	210	3	Mox	WP 11	11_2 P40316_SlappAureus Run 11-28	A5	WP 11 A5	P40316_JV_177
950	WP 110275	2	75	1	Probable glycine dehydrogenase (dicarboxylating) subunit 2 (EC 1.4.4.2)		Q9R1V9	Q9R1V9	54682	7.5	11	197	100	91	100	91	100	7.36	106	1	Mox	WP 11	11_2 P40316_SlappAureus Run 11-28	H6	WP 11 H6	P40316_JV_178	
950	WP 110275	2	75	2	Pyruvate kinase		Q9R1G5	Q9R1G5	63291	1.6016	5.2	11	123	100	22	99	17	96	8.06	101	2	Mox	WP 11	11_2 P40316_SlappAureus Run 11-28	H6	WP 11 H6	P40316_JV_179
954	WP 010259	2	59	1	Aerobic glycerol-3-phosphate dehydrogenase		Q9R0H2	Q9R0H2	64480	7.6	11	114	100	0	0	0	5.36	114	0	Mox	WP 01	01_2 P40302_SlappAureus Run 2-3	C8	WP 01 C8	P40302_JV_215		
957	WP 150234	2	34	1	Conserved hypothetical protein		Q9R011	Q9R011	59336	5.95	34	607	100	404	100	125	100	43.1	203	6	Mox-NAc	WP 15	15_2 P050415_B_SlappAur	B6	WP 15 B6	P050412_JV_295	
963	WP 110233	2	33	1	Catalase (EC 1.11.1.6)		Q9R0E2	Q9R0E2	58668	3.9884	5.3	21	410	100	238	100	123	100	39.4	172	3	Mox	WP 11	11_2 P40316_SlappAureus Run 11-28	F5	WP 11 F5	P050412_JV_175
967	WP 050377	3	77	1	Glycine decarboxy		Q9R1V9	Q9R1V9	54682	7.5	19	334	100	103	100	81	100	22.4	231	3	Mox	WP 05	05_3 P40308_SlappAureus Run 2-3	H11	WP 05 H11	P40308_JV_057C	
968	WP 010215	2	15	1	Probable glycine dehydrogenase (dicarboxylating) subunit 2 (EC 1.4.4.2)		Q9R1V9	Q9R1V9	54683	5.5	8	130	100	48	100	30	100	7.38	82	2	Mox	WP 01	01_2 P40302_SlappAureus Run 2-3	E5	WP 01 E5	P40302_JV_184	
969	WP 010235	2	35	1	Formyltetrahydrofolate synthetase		Q9R1D2	Q9R1D2	60005	5.7	23	326	100	66	100	33	100	30.6	260	2	Mox	WP 01	01_2 P40311_SlappAureus Run 2-3	F6	WP 01 F6	P40311_JV_185	
974	WP 050318	3	18	1	Probable glycine dehydrogenase (dicarboxylating) subunit 2 (EC 1.4.4.2)		Q9R1V9	Q9R1V9	54682	7.5	27	741	100	436	100	124	100	74.1	305	4	Mox	WP 05	05_3 P40308_SlappAureus Run 2-3	A12	WP 05 A12	P40308_JV_051E2	
974	WP 150357	3	57	1	Probable glycine dehydrogenase (dicarboxylating) subunit 2 (EC 1.4.4.2)		Q9R1V9	Q9R1V9	54683	5.51	32	820	100	603	100	145	100	72.8	217	6	Mox-NAc	WP 15	15_3 P050415_C_SlappAur	G11	WP 15 G11	P050412_JV_287	
979	WP 070236	2	36	1	Hypothetical protein SAV1177		Q9R0T3	Q9R0T3	62906	6.9585	5.8	26	253	100	64	100	37	100	33.6	189	3	Mox	WP 07	07_2 P40311_SlappAureus Run 2-3	B7	WP 07 B7	P40311_JV_193
980	WP 010254	2	54	1	Menadiquinone biosynthesis protein		Q9R0V0	Q9R0V0	63279	6.0	14	170	100	29	100	12	81	12.7	141	3	Mox	WP 01	01_2 P40302_SlappAureus Run 2-3	C6	WP 01 C6	P40302_JV_189	

984	WP 102354	2	54	1	Hypothetical protein SAV0258 GMP synthase [Glutamine hydroxylase] (EC 6.3.5.2) (Glutamine amidotransferase)	Q9B9W5	Q9B9W5_STAAM	Q9B9W5	66272	6.14	19	202	100	96	100	62	100	8.8	112	2	Mox:N:Ac	WP 15	15.2	P050415_B_ShaAur	C8	WP 15 C8	P050412_JV_1594B	313	
987	WP 100558	5	58	1	GMP synthase [Glutamine hydroxylase] (EC 6.3.5.2) (Glutamine amidotransferase)	Q9B9W8	GUAA_STAAM	Q9B9W8	59450	7.6172	5.0	10	130	100	38	100	15	94	11.6	92	3	Mox	WP 10	10.2	P04315_SlaphAureus run 2-3	C8	WP 10 C8	P04315_JV_1058B	178
988	WP 190156	1	56	1	GMP synthase [Glutamine hydroxylase] (EC 6.3.5.2) (Glutamine amidotransferase)	Q9B9W8	GUAA_STAAM	Q9B9W8	59451	5.03	30	583	100	423	100	116	100	65.2	160	5	Mox:N:Ac	WP 15	15.1	P050415_A_ShaAur	C3	WP 15 C3	P050412_JV_1556A	305	
992	WP 010255	2	55	1	GMP synthase [Glutamine hydroxylase] (EC 6.3.5.2) (Glutamine amidotransferase)	Q9B9T2	FTHS_STAAM	Q9B9T2	60005	5.7	33	460	100	175	100	73	100	54.1	205	4	Mox	WP 01	01.2	P04302_SlaphAureus Run 2-3	S6	WP 01 G6	P04302_JV_144002	201	
992	WP 103377	3	77	1	Formyltetrahydrofolate synthetase	Q9B9T2	FTHS_STAAM	Q9B9T2	60005	5.69	34	1060	100	844	100	190	100	66.7	216	6	Mox:N:Ac	WP 15	15.3	P050415_C_ShaAur	H11	WP 15 H11	P050412_JV_1577C	288	
993	WP 070216	2	16	1	Phosphoenolpyruvate carboxylase [ATP] (EC 4.1.1.49) (PEP carboxylase)	P51065	PFCK_STAAM	P51065	59511	1.8016	5.7	34	401	100	74	100	39.5	327	1	Mox	WP 07	07.2	P04311_SlaphAureus Run 1+2	A7	WP 07 A7	P04311_JV_0716B	201		
993	WP 070216	2	16	2	Bifunctional pyruvate synthetase protein [ATP] (EC 2.3.1.1) (Pyruvate synthetase)	Q9B9V4	PUR9_STAAM	Q9B9V4	54480	9.8047	5.7	18	355	100	227	100	26.9	128	2	Mox	WP 07	07.1	P043031_SlaphAureus Run 1+2	A7	WP 07 A7	P043031_JV_0716B	201		
997	WP 010275	2	75	1	Hypothetical protein SAV0258	Q9B9W5	Q9B9W5_STAAM	Q9B9W5	66272	6.1	35	603	100	185	100	83	100	47.8	418	4	Mox	WP 01	01.2	P043032_SlaphAureus Run 2-3	H6	WP 01 H6	P043032_JV_0175B	192	
999	WP 070217	2	17	1	AD-3-phosphoglycerate dehydrogenase SA1626 protein (Type I restriction enzyme cofactor) (M protein homolog) (HsdM protein)	Q9B9T0	Q9B9T0_STAAM	Q9B9T0	57584	2.5	5.4	9	128	100	5	17	5	17	8.16	123	1	Mox	WP 07	07.2	P04311_SlaphAureus Run 1+2	E7	WP 07 E7	P04311_JV_0717B	197
100	WP 100239	2	39	1	Probable type I site-specific 2-deoxyribonuclease LfdI chain (EC 3.1.21.3)	Q9B9T2	Q9B9T2_STAAM	Q9B9T2	58934	4.7	16	291	100	75	100	37	100	24.1	216	3	Mox	WP 01	01.2	P043032_SlaphAureus Run 2-3	F8	WP 01 F8	P043032_JV_0138B	228	
100	WP 100239	2	39	2	Probable type I site-specific 2-deoxyribonuclease LfdI chain (EC 3.1.21.3)	Q9B9T2	Q9B9T2_STAAM	Q9B9T2	58910	4.6	15	196	100	0	0	0	22.9	196	0	Mox	WP 01	01.2	P043032_SlaphAureus Run 2-3	F8	WP 01 F8	P043032_JV_0138B	228		
101	WP 070275	2	75	1	Hypothetical protein SAV0188 [6-phosphogluconate dehydratase] (EC 4.1.1.13) (6-phosphogluconate dehydratase)	Q9B9X3	Q9B9X3_STAAM	Q9B9X3	60489	6.7188	5.1	17	491	100	321	100	99	100	49.4	160	4	Mox	WP 07	07.2	P04311_SlaphAureus Run 1+2	H6	WP 07 H6	P04311_JV_0775B	200
101	WP 070275	2	75	2	Hypothetical protein SAV0188 [6-phosphogluconate dehydratase] (EC 4.1.1.13) (6-phosphogluconate dehydratase)	Q9B9X3	Q9B9X3_STAAM	Q9B9X3	60489	6.7188	5.1	17	491	100	321	100	99	100	49.4	160	4	Mox	WP 07	07.2	P04311_SlaphAureus Run 1+2	H6	WP 07 H6	P04311_JV_0775B	200
101	WP 070275	2	75	3	Hypothetical protein SAV0188 [6-phosphogluconate dehydratase] (EC 4.1.1.13) (6-phosphogluconate dehydratase)	Q9B9X3	Q9B9X3_STAAM	Q9B9X3	60489	6.7188	5.1	17	491	100	321	100	99	100	49.4	160	4	Mox	WP 07	07.2	P04311_SlaphAureus Run 1+2	H6	WP 07 H6	P04311_JV_0775B	200
101	WP 190171	1	17	1	LYSI-RNA synthetase (EC 6.1.1.8) (Lysine synthetase)	Q9B9W8	SYK_STAAM	Q9B9W8	56684	5.11	49	755	100	463	100	120	100	61.5	232	6	Mox:N:Ac	WP 15	15.1	P050415_A_ShaAur	E3	WP 15 E3	P050412_JV_1517A	300	
101	WP 190171	1	17	2	LYSI-RNA synthetase (EC 6.1.1.8) (Lysine synthetase)	Q9B9W8	SYK_STAAM	Q9B9W8	56684	5.11	49	755	100	463	100	120	100	61.5	232	6	Mox:N:Ac	WP 15	15.1	P050415_A_ShaAur	E3	WP 15 E3	P050412_JV_1517A	300	
101	WP 190171	1	17	3	LYSI-RNA synthetase (EC 6.1.1.8) (Lysine synthetase)	Q9B9W8	SYK_STAAM	Q9B9W8	56684	5.11	49	755	100	463	100	120	100	61.5	232	6	Mox:N:Ac	WP 15	15.1	P050415_A_ShaAur	E3	WP 15 E3	P050412_JV_1517A	300	
102	WP 010218	2	18	1	ADP-ribosyltransferase (EC 6.1.1.19)	Q9B9W6	SYK_STAAM	Q9B9W6	64679	6.0	12	150	100	8	64	6	16	3	142	1	Mox	WP 01	01.2	P043032_SlaphAureus Run 2-3	F7	WP 01 F7	P043032_JV_0137B	203	
102	WP 010218	2	18	2	ADP-ribosyltransferase (EC 6.1.1.19)	Q9B9W6	SYK_STAAM	Q9B9W6	64679	6.0	12	150	100	8	64	6	16	3	142	1	Mox	WP 01	01.2	P043032_SlaphAureus Run 2-3	F7	WP 01 F7	P043032_JV_0137B	203	
102	WP 100633	6	33	1	(Arginine-RNA ligase) [ArgRS]	Q9B9F6	SYR_STAAM	Q9B9F6	62364	4.141	5.1	37	802	100	470	100	164	100	58.8	332	4	Mox	WP 10	10.3	P04315_SlaphAureus run 2-3	F9	WP 10 F9	P04315_JV_1033C	207
103	WP 100653	6	53	1	Glutamy-IRNA (Gln) amidotransferase [subunit A] (EC 6.3.5.-) (Glu-ADT subunit A)	Q9B9Y6	GATA_STAAM	Q9B9Y6	52939	9.9968	5.1	31	597	100	331	100	114	100	52	256	4	Mox	WP 10	10.3	P04315_SlaphAureus run 2-3	G9	WP 10 G9	P04315_JV_1053C	208
103	WP 100653	6	53	2	Glutamy-IRNA (Gln) amidotransferase [subunit A] (EC 6.3.5.-) (Glu-ADT subunit A)	Q9B9Y6	GATA_STAAM	Q9B9Y6	52939	9.9968	5.1	31	597	100	331	100	114	100	52	256	4	Mox	WP 10	10.3	P04315_SlaphAureus run 2-3	G9	WP 10 G9	P04315_JV_1053C	208
103	WP 150177	1	77	1	ATP-dependent histone ATP-binding protein	Q9B9L7	HSLU_STAAM	Q9B9L7	52296	5.22	30	754	100	609	100	164	100	64.1	145	6	Mox:N:Ac	WP 15	15.1	P050415_A_ShaAur	H3	WP 15 H3	P050412_JV_1577A	315	
103	WP 150177	1	77	2	ATP-dependent histone ATP-binding protein	Q9B9L7	HSLU_STAAM	Q9B9L7	52296	5.22	30	754	100	609	100	164	100	64.1	145	6	Mox:N:Ac	WP 15	15.1	P050415_A_ShaAur	H3	WP 15 H3	P050412_JV_1577A	315	
103	WP 150177	1	77	3	ATP-dependent histone ATP-binding protein	Q9B9L7	HSLU_STAAM	Q9B9L7	52296	5.22	30	754	100	609	100	164	100	64.1	145	6	Mox:N:Ac	WP 15	15.1	P050415_A_ShaAur	H3	WP 15 H3	P050412_JV_1577A	315	
103	WP 070276	2	76	1	Phosphoglucoaminate mutase (EC 5.4.2.-) [Bifunctional AAC/APH] (Includes 6'-aminoglycoside N-acetyltransferase [EC 3.1.1.1] (AAC/6') (phosphoribitoligase subunit 1) (EC 6.1.1.13) (D-alanine-activating enzyme)	Q9B9R5	GLMM_STAAM	Q9B9R5	49376	5.3125	4.7	11	212	100	59	100	46	100	16.8	153	3	Mox	WP 07	07.2	P04311_SlaphAureus Run 1+2	D7	WP 07 D7	P04311_JV_0776B	212
103	WP 110112	1	12	1	Bifunctional AAC/APH (Includes 6'-aminoglycoside N-acetyltransferase [EC 3.1.1.1] (AAC/6') (phosphoribitoligase subunit 1) (EC 6.1.1.13) (D-alanine-activating enzyme)	P14507	AACA_STAAM	P14507	57218	2.3828	4.8	22	210	100	47	100	31	100	15.4	163	2	Mox	WP 11	11.1	P04316_SlaphAureus Run 2-3	A1	WP 11 A1	P04316_JV_1112A	213
103	WP 110112	1	12	2	Bifunctional AAC/APH (Includes 6'-aminoglycoside N-acetyltransferase [EC 3.1.1.1] (AAC/6') (phosphoribitoligase subunit 1) (EC 6.1.1.13) (D-alanine-activating enzyme)	Q9B9U3	GLPK_STAAM	Q9B9U3	54837	7.1875	4.9	13	151	100	66	100	66	100	10.6	85	1	Mox	WP 11	11.1	P04316_SlaphAureus Run 2-3	A1	WP 11 A1	P04316_JV_1112A	213
103	WP 110112	1	12	3	Bifunctional AAC/APH (Includes 6'-aminoglycoside N-acetyltransferase [EC 3.1.1.1] (AAC/6') (phosphoribitoligase subunit 1) (EC 6.1.1.13) (D-alanine-activating enzyme)	P14507	AACA_STAAM	P14507	57218	2.3828	4.8	22	210	100	47	100	31	100	15.4	163	2	Mox	WP 11	11.1	P04316_SlaphAureus Run 2-3	A1	WP 11 A1	P04316_JV_1112A	213
105	WP 060535	5	35	1	Chromosome replication initiation/terminator protein	Q9B9M0	DLTA_STAAM	Q9B9M0	54837	7.1875	4.9	22	480	100	312	100	137	100	52.1	168	4	Mox	WP 06	06.2	P04308_SlaphAureus Run 2-3	F6	WP 06 F6	P04308_JV_0635B	252
105	WP 010278	2	78	1	Attachment protein	Q9B9H7	Q9B9H7_STAAM	Q9B9H7	54543	5.9	15	192	100	27	99	16	91	20.8	165	2	Mox	WP 01	01.2	P04302_SlaphAureus Run 2-3	D8	WP 01 D8	P04302_JV_0178B	222	
105	WP 110216	2	16	1	Acetate-CoA ligase (EC 6.2.1.1)	Q9B9Z8	Q9B9Z8_STAAM	Q9B9Z8	60988	8.7891	5.6	31	549	100	290	100	185	100	46.5	209	3	Mox	WP 11	11.2	P04316_SlaphAureus Run 2-3	A7	WP 11 A7	P04316_JV_1116B	220
106	WP 110257	2	57	1	Phosphoribosyltransferase homolog	Q9B9X4	Q9B9X4_STAAM	Q9B9X4	56057	2.3828	5.5	32	503	100	248	100	111	100	51.8	255	3	Mox	WP 11	11.2	P04316_SlaphAureus Run 2-3	G7	WP 11 G7	P04316_JV_1157B	225
106	WP 110257	2	57	2	Phosphoribosyltransferase homolog	Q9B9X4	Q9B9X4_STAAM	Q9B9X4	56057	2.3828	5.5	32	503	100	248	100	111	100	51.8	255	3	Mox	WP 11	11.2	P04316_SlaphAureus Run 2-3	G7	WP 11 G7	P04316_JV_1157B	225
107	WP 100231	2	31	1	Hypothetical protein SAV1576	Q9B9T0	GID_STAAM	Q9B9T0	51351	1.7968	5.5	15	76	100	0	0	11	76	0	Mox	WP 11	11.2	P04316_SlaphAureus Run 2-3	G7	WP 11 G7	P04316_JV_1157B	225		
107	WP 100231	2	31	2	Hypothetical protein SAV1576	Q9B9T0	GID_STAAM	Q9B9T0	51351	1.7968	5.5	15	76	100	0	0	11	76	0	Mox	WP 11	11.2	P04316_SlaphAureus Run 2-3	G7	WP 11 G7	P04316_JV_1157B	225		
107	WP 190118	1	18	1	Dihydrodipicolinate dehydrogenase [putative] (SA1572 protein) (Xaa-putative peptidase homolog) (EC 4.1.1.17)	Q9B9T5	Q9B9T5_STAAM	Q9B9T5	51277	5.3	25	608	100	511	100	167	100	53.6	97	6	Mox:N:Ac	WP 15	15.1	P050415_A_ShaAur	A4	WP 15 A4	P050412_JV_1518A	336	
108	WP 010352	3	52	1	Histidylglycyl-CoA synthetase (EC 6.1.1.20) (His-Cys-His-His-CoA synthetase) (C-terminally truncated)	Q9B9Z7	Q7A2R1_STAAM	Q9B9Z7	53019	4.6	25	62																	

1089	WP 110134	1	34	Glycero kinase (EC 2.7.1.30) (ATP-glycerol 3-phosphotransferase) (Glycerokinase) (GK)	GLPK_STAAM	Q9B4H3	55805.80078	4.9	24	497	100	292	100	99	100	88	205	4Mox	WP 11	11.1 P040316_SlaphAureus Run 2-3	B2	WP 11 B2	P040316_JV_113AA	236
109	WP 050358	3	58	1-Glutamyl-RNA synthetase (EC 6.1.1.17)	SYE_STAAM	Q9B4W5	56310.41016	5.2	35	592	100	286	100	98	100	71.4	306	4Mox	WP 05	05.3 P040308_SlaphAureus Run 2-3	C12	WP 05 C12	0558C	238
1096	WP 070227	2	77	1-UDP-N-acetyl-5-mono-phosphate dehydrogenase (EC 2.4.1.1) (UMP dehydrogenase)	MURE_STAAM	Q9B4V74	54369.76172	5.4	29	579	100	308	100	149	100	47	271	4Mox	WP 07	07.2 P040311_SlaphAureus Run 1-2	H7	WP 07 H7	P040311_JV_0777B	228
1096	WP 070227	2	77	2-(IMPDH) (IMPD)	IMPH_STAAM	Q9B4W9	52931.57813	5.6	16	82	100	0	0	0	6.65	82	0Mox	WP 07	07.2 P040311_SlaphAureus Run 1-2	H7	WP 07 H7	P040311_JV_0777B	228	
1103	WP 100673	6	73	1-hypothetical protein SAV2122 (EC 1.1.1.205) (IMP dehydrogenase)	Q9B5D6_STAAM	Q9B5D6	51963.64844	5.0	23	478	100	288	100	103	100	63.1	190	4Mox	WP 10	10.3P04315_SlaphAureus run 2-3	H9	WP 10 H9	P040315_JV_1073C	230
1104	WP 010259	2	59	1-(IMPDH) (IMPD)	IMDH_STAAM	Q9B4W9	52932	5.6	14	220	100	96	100	40	100	16.3	164	2Mox	WP 01	01.2 P040302_SlaphAureus Run 2-3	G8	WP 01 G8	P040302_JV_0159B	235
1105	WP 050339	3	39	1-Asparaginyl-RNA synthetase (EC 6.1.1.22)	SYN_STAAM	Q9B4U35	46267.75	5.3	27	493	100	284	100	116	100	66.3	199	4Mox	WP 05	05.3 P040308_SlaphAureus Run 2-3	F12	WP 05 F12	0539C	242
1105	WP 050339	3	39	3-Histidine	HUTH_STAAM	Q9B4X3	56282.92188	5.3	19	123	100	0	0	6.92	123	0Mox	WP 05	05.3 P040308_SlaphAureus Run 2-3	F12	WP 05 F12	0539C	242		
1105	WP 050339	3	39	2-Glutamate-RNA ligase (GURS)	SYE_STAAM	Q9B4W5	56310.41016	5.2	29	186	100	0	0	9.18	186	0Mox	WP 05	05.3 P040308_SlaphAureus Run 2-3	F12	WP 05 F12	0539C	242		
1106	WP 110238	2	38	1-(IMPDH) (IMPD)	IMDH_STAAM	Q9B4W9	52931.57813	5.6	30	571	100	334	100	163	100	59.6	237	3Mox	WP 11	11.2 P040316_SlaphAureus Run 2-3	B8	WP 11 B8	P040316_JV_1138B	239
1108	WP 110132	1	32	1-(GK)	GLPK_STAAM	Q9B4H3	55805.80078	4.9	23	357	100	182	100	84	100	51.1	175	3Mox	WP 11	11.1 P040316_SlaphAureus Run 2-3	B1	WP 11 B1	P040316_JV_1132A	240
1110	WP 150273	2	73	1-L-ribulose-5-phosphate dehydrogenase (EC 1.1.1.4) (RUBP dehydrogenase)	ARAB_STAAM	Q9B4S7	61154	5.87	26	394	100	221	100	70	100	19.4	173	6Mox-NAc	WP 15	15.2 P050415_B_SlaphAur	H5	WP 15 H5	P050412_JV_1573B	363
1118	WP 110236	2	36	1-(IMPDH) (IMPD)	IMDH_STAAM	Q9B4W9	52931.57813	5.6	37	713	100	419	100	167	100	71.8	294	4Mox	WP 11	11.2 P040316_SlaphAureus Run 2-3	B7	WP 11 B7	P040316_JV_1136B	243
112	WP 010372	3	72	1-Glutamine synthetase (EC 6.3.1.2)	GLNA_STAAM	Q9B4U5	51108	5.1	20	374	100	180	100	71	100	26.8	194	4Mox	WP 01	01.3 P040302_SlaphAureus Run 2-3	D9	WP 01 D9	P040302_JV_0172C	259
1122	WP 110133	1	33	1-Signal recognition particle (SRP) (EC 2.7.1.30) (ATP-glycerol 3-phosphotransferase) (Glycerokinase)	Q9B4U5	46728.53906	4.7	18	523	100	368	100	173	100	55.3	155	3Mox	WP 11	11.1 P040316_SlaphAureus Run 2-3	F1	WP 11 F1	P040316_JV_1133A	246	
1123	WP 100554	5	54	1-(GK)	GLPK_STAAM	Q9B4H3	55805.80078	4.9	32	622	100	370	100	161	100	54	252	4Mox	WP 10	10.2P04315_SlaphAureus run 2-3	C6	WP 10 C6	P040315_JV_1054B	238
1123	WP 100554	5	54	2-Capsid	Q9B4X8	47111.86156	4.9	21	155	100	0	0	12.3	155	0Mox	WP 10	10.2P04315_SlaphAureus run 2-3	C6	WP 10 C6	P040315_JV_1054B	238			
1124	WP 150176	1	76	1-Glutamine synthetase (EC 6.3.1.2)	GLNA_STAAM	Q9B4U5	51108	5.09	34	657	100	651	100	198	100	70.2	206	6Mox-NAc	WP 15	15.1 P050415_A_SlaphAur	D3	WP 15 D3	P050412_JV_1576A	346
1124	WP 150176	1	76	2-Galactosyltransferase (GALT)	LAGO_STAAM	Q9B5T8	54645	5.1	29	145	100	0	0	8.8	145	0Mox-NAc	WP 15	15.1 P050415_A_SlaphAur	D3	WP 15 D3	P050412_JV_1576A	346		
1125	WP 070219	2	19	1-Idnaa	DNAA_STAAM	P49994	51933.86156	5.3	12	190	100	76	100	30	100	15	112	3Mox	WP 07	07.2 P040311_SlaphAureus Run 1-2	E8	WP 07 E8	P040311_JV_0719B	247
1126	WP 100615	6	15	1-Glycyl-RNA synthetase (EC 6.1.1.14)	SYG_STAAM	Q9B4T1	53871.35958	5.0	17	206	100	71	100	46	100	19.1	135	2Mox	WP 10	10.3P04315_SlaphAureus run 2-3	E10	WP 10 E10	P040315_JV_1015C	249
1130	WP 010353	3	53	1-Asparaginyl-tRNA synthetase (ASPH)	GATB_STAAM	Q9B5V7	53660.10156	5.0	17	161	100	43	100	28	100	17.7	118	2Mox	WP 10	10.3P04315_SlaphAureus run 2-3	E10	WP 10 E10	P040315_JV_1015C	249
1133	WP 100538	5	38	1-ATP synthase alpha chain (EC 3.6.3.14)	MOOZ_STAAM	Q9B4R30	56135	6.1	10	113	100	10	79	100	6.15	103	1Mox	WP 01	01.3 P040302_SlaphAureus Run 2-3	G9	WP 01 G9	P040302_JV_0155C	253	
1134	WP 050319	3	19	26-phospho-beta-glucosyltransferase (EC 3.2.1.86)	Q9B4W9_STAAM	Q9B5F3	54607.46094	4.9	9	371	100	297	100	108	100	22.8	74	3Mox	WP 10	10.2P04315_SlaphAureus run 2-3	B8	WP 10 B8	P040302_JV_0158B	253
1134	WP 050319	3	19	1-Glutamate-RNA ligase (GURS)	SYE_STAAM	Q9B4W5	56310.41016	5.2	34	474	100	218	100	89	100	55	256	3Mox	WP 05	05.3 P040308_SlaphAureus Run 2-3	E12	WP 05 E12	0519C	260
1136	WP 150154	1	54	1-factor	Q9B4U6_STAAM	Q9B4U6	45786	4.6	32	639	100	444	100	136	100	70.8	195	6Mox-NAc	WP 15	15.1 P050415_A_SlaphAur	C2	WP 15 C2	P050412_JV_1554A	260
1137	WP 110154	1	54	2-Elongation factor Tu (EF-Tu)	EFTU_STAAM	Q9B4W61	43133.62106	4.7	19	238	100	66	100	69	100	16.9	170	1Mox	WP 11	11.1 P040316_SlaphAureus Run 2-3	C2	WP 11 C2	P040316_JV_1154A	252
1148	WP 050378	3	78	1-Signal recognition particle (SRP) (EC 2.7.1.30) (ATP-glycerol 3-phosphotransferase) (GURS)	SYE_STAAM	Q9B4W5	56310.41016	5.2	35	629	100	320	100	95	100	57.8	309	4Mox	WP 05	05.3 P040308_SlaphAureus Run 2-3	D12	WP 05 D12	0576C	256
1148	WP 050378	3	78	2-Cysteinylyl-RNA synthetase (EC 2.4.1.4) (CysRS)	SYC_STAAM	Q9B2G0	70557.78906	5.9	23	148	100	0	0	26.4	148	0Mox	WP 05	05.3 P040308_SlaphAureus Run 2-3	D12	WP 05 D12	0576C	256		
1150	WP 010354	3	54	1-phosphoribosyltransferase precursor (EC 2.4.1.4) (GURP)	PUR1_STAAM	Q9B4V27	54577	6.0	5	81	94	35	100	35	100	2.52	46	1Mox	WP 01	01.3 P040302_SlaphAureus Run 2-3	C10	WP 01 C10	P040302_JV_0154C	265
1152	WP 070279	2	79	1-hypothetical protein SAV2141 (EC 1.1.99.16) (Maltate dehydrogenase 2)	Q9B5B8_STAAM	Q9B5B8	53045.71875	5.9	15	178	100	45	100	27	99	13.5	133	3Mox	WP 07	07.2 P040311_SlaphAureus Run 1-2	H8	WP 07 H8	P040311_JV_0779B	261
1155	WP 150253	2	53	1-Asparaginyl-tRNA synthetase (ASPH)	MOOZ_STAAM	Q9B4R30	56135	6.12	34	743	100	503	100	132	100	45.4	240	6Mox-NAc	WP 15	15.2 P050415_B_SlaphAur	G5	WP 15 G5	P050412_JV_1533A	366
1156	WP 150133	1	33	1-(Glycine-RNA ligase) (GURS)	SYG_STAAM	Q9B4T1	53871.489	4.7	940	100	631	100	171	100	74.8	309	6Mox-NAc	WP 15	15.1 P050415_A_SlaphAur	F1	WP 15 F1	P040311_JV_0739B	256	
1157	WP 070239	2	39	1-Branchid-chain alpha-keto acid dehydrogenase E2	Q9B7X8_STAAM	Q9B7X8	48930.78125	5.4	17	341	100	152	100	85	100	38.1	189	4Mox	WP 07	07.2 P040311_SlaphAureus Run 1-2	F8	WP 07 F8	P040311_JV_0739B	256

1158	WP 10227	2	77	UDP-N-acetylglucosamine 1-4-epimerase (EC 2.5.1.7)	MURAP, STAAM	Q9BS04	4531.57031	5.5	9	208	100	100	100	69	100	20.4	108	2/Mox	WP 11	11.2 P04031_6_StephAureus Run	H7	WP 11 H7	P040316_JV_1177B	268
1159	WP 10374	3	74	SA0551 protein (Marsaxi reductase) (EC 2.4.14) (Glutamine)	Q9BW18, STAAM	Q9BW18	53457	6.5	23	454	100	161	100	72	100	30	293	4/Mox	WP 01	01.3 P040302_2_StephAureus Run	D10	WP 01 D10	P040302_JV_0174C	270
1160	WP 10333	3	33	2-phosphoglycolate dehydratase (EC 4.2.1.11) (2-phosphoglycolate dehydratase) (2-phospho-D-glycerate hydrate) (lyase)	PURI, STAAM	Q9BV27	54577	6.0	10	223	100	133	100	79	100	14.9	90	3/Mox	WP 01	01.3 P040302_2_StephAureus Run	F9	WP 01 F9	P040302_JV_0133C	266
1161	WP 070259	2	59	1-proline methyltransferase (EC 2.1.1.17) (methyltransferase)	MODZ, STAAM	Q9BR30	56135	6.1	10	90	100	0	0	0	0	4.66	90	0/Mox	WP 01	01.3 P040302_2_StephAureus Run	F9	WP 01 F9	P040302_JV_0133C	266
1162	WP 100574	5	74	2-ATP synthase alpha chain (EC 3.6.3.14)	ATPA, STAAM	Q9BVK5	47144.80858	4.6	15	204	100	34	100	21	97	16.1	170	2/Mox	WP 07	07.2 P040311_1_StephAureus Run	G8	WP 07 G8	P040311_JV_0759B	262
1164	WP 100574	5	74	1-cell division protein ftsZ (EC 1.1.99.16) (Mabate dehydrogenase)	FTSZ, STAAM	Q9BSF3	54607.46094	4.9	22	280	100	120	100	120	100	31	160	1/Mox	WP 10	10.2 P04315_15_StephAureus run 2-3	D6	WP 10 D6	P040315_JV_0704B	266
1165	WP 10334	3	34	1-probable glycine dehydrogenase (EC 1.1.99.16) (Mabate dehydrogenase)	MOD1, STAAM	Q9BRR2	41011.64063	4.9	18	334	100	201	100	121	100	34.3	133	2/Mox	WP 10	10.2 P04315_15_StephAureus run 2-3	D6	WP 10 D6	P040315_JV_0704B	266
1167	WP 100635	6	35	1-glycine decarboxylase (EC 4.1.4.2)	GCSPA, STAAM	Q9BTV8	49904.32813	5.0	8	181	55	144	100	74	100	6.46	37	2/Mox	WP 10	10.3 P04315_15_StephAureus run 2-3	F10	WP 10 F10	P040315_JV_1035C	263
1168	WP 100635	6	35	2-Asp/Glu-ADT subunit (EC 6.3.5.-)	GATB, STAAM	Q9BSY7	53680.10156	5.0	20	170	100	42	100	22	96	11.9	128	2/Mox	WP 10	10.3 P04315_15_StephAureus run 2-3	F10	WP 10 F10	P040315_JV_1035C	263
1169	WP 070335	3	35	1-hypothetical protein SAV2647 (EC 1.1.99.16) (Mabate dehydrogenase)	Q9BQZ1, STAAM	Q9BQZ1	53237	5.6	11	138	100	27	100	22	96	12.9	111	2/Mox	WP 01	01.3 P040302_2_StephAureus Run	F10	WP 01 F10	P040302_JV_0135C	273
1171	WP 100634	6	34	1-hypothetical protein SAV2141 (EC 1.1.99.16) (Mabate dehydrogenase)	GCSPA, STAAM	Q9BSB8	53046	5.9	23	573	100	341	100	93	100	58.8	232	4/Mox	WP 01	01.3 P040302_2_StephAureus Run	A10	WP 01 A10	P040302_JV_0114C	274
1171	WP 100634	6	34	2-glycine decarboxylase (EC 4.1.4.2)	GCSPA, STAAM	Q9BTV8	49904.32813	5.0	18	324	100	193	100	108	100	31.4	131	2/Mox	WP 10	10.3 P04315_15_StephAureus run 2-3	B10	WP 10 B10	P040315_JV_1034C	267
1171	WP 100634	6	34	1-Serine--RNA ligase (SerRS)	SVS, STAAM	Q9BXG2	48894.53125	5.0	26	360	100	185	100	103	100	31	175	2/Mox	WP 10	10.3 P04315_15_StephAureus run 2-3	B10	WP 10 B10	P040315_JV_1034C	267
1175	WP 070312	3	12	1-30S ribosomal protein S1 (EC 1.1.99.16) (Mabate dehydrogenase)	RSJ, STAAM	Q9BU14	42283.14844	4.6	26	632	100	351	100	137	100	65.8	281	4/Mox	WP 07	07.3 P040311_1_StephAureus Run	A9	WP 07 A9	P040311_JV_0712C	274
1175	WP 070312	3	12	2-lyase	ENO, STAAM	Q9BVK5	47144.80858	4.6	16	128	100	0	0	0	5.71	128	0/Mox	WP 07	07.3 P040311_1_StephAureus Run	A9	WP 07 A9	P040311_JV_0712C	274	
1176	WP 110152	1	52	1-ATP synthase alpha chain (EC 3.6.3.14)	ATPA, STAAM	Q9BSF3	54607.46094	4.9	18	305	100	194	100	107	100	34.7	111	2/Mox	WP 11	11.1 P040316_1_StephAureus Run	C1	WP 11 C1	P040316_JV_1152A	265
1176	WP 110152	1	52	3-phosphotransferase (Glycerokinase)	GLPK, STAAM	Q9BUH3	53603.80078	4.9	20	131	100	0	0	0	9.02	131	0/Mox	WP 11	11.1 P040316_1_StephAureus Run	C1	WP 11 C1	P040316_JV_1152A	265	
1184	WP 070332	3	32	1-lysozyme (EC 3.2.1.17) (Mabate dehydrogenase)	MOOZ, STAAM	Q9BR30	56134.62108	6.1	20	353	100	172	100	84	100	39.6	181	4/Mox	WP 07	07.3 P040311_1_StephAureus Run	B9	WP 07 B9	P040311_JV_0732C	275
1190	WP 110256	2	56	1-UDP-N-acetylmuramoylamine-D-glutamate ligase (EC 6.3.2.9) (UDP-N-acetylmuramoyl-L-alanyl)	MURD, STAAM	O3S95	50040.89063	5.5	24	674	100	438	100	139	100	72	236	4/Mox	WP 11	11.2 P040316_1_StephAureus Run	C7	WP 11 C7	P040316_JV_1198B	262
1192	WP 110174	1	74	1-Elongation factor Tu (EF-Tu)	EFTU, STAAM	Q9BW81	43133.62108	4.7	25	556	100	318	100	147	100	73.7	238	3/Mox	WP 11	11.1 P040316_1_StephAureus Run	D2	WP 11 D2	P040316_JV_1174B	276
1199	WP 110165	1	53	1-DNA polymerase III, beta chain (EC 2.7.7.7)	DPO39, STAAM	Q9BV09	54207	5.7	22	534	100	253	100	123	100	36.3	291	3/Mox	WP 01	01.3 P040302_2_StephAureus Run	G10	WP 01 G10	P040302_JV_0155C	285
1202	WP 100674	6	74	1-RNA polymerase sigma factor rpoD (EC 2.7.7.6) (Mabate dehydrogenase)	RPOD, STAAM	P26766	41944.71875	4.7	27	654	100	398	100	116	100	76.3	288	4/Mox	WP 11	11.1 P040316_1_StephAureus Run	G1	WP 11 G1	P040316_JV_1153A	283
1202	WP 100674	6	74	2-(Serine--RNA ligase) (SerRS)	SVS, STAAM	Q9BXG2	48894.53125	5.0	20	108	100	0	0	0	8.93	108	0/Mox	WP 10	10.3 P04315_15_StephAureus run 2-3	D10	WP 10 D10	P040315_JV_1074C	281	
1203	WP 100654	6	54	1-UDP-N-acetylmuramoyl-D-glucosyl-2-epimerase (EC 4.2.1.11) (2-phosphoglycolate dehydratase) (2-phospho-D-glycerate hydrate) (lyase)	ENO, STAAM	Q9BSH5	50123.42968	5.1	20	583	100	370	100	128	100	46.4	213	4/Mox	WP 10	10.3 P04315_15_StephAureus run 2-3	C10	WP 10 C10	P040315_JV_1054C	277
1213	WP 070333	3	33	1-Elongation factor Tu (EF-Tu)	ENO, STAAM	Q9BK5	47144.80858	4.6	17	448	100	255	100	104	100	53.1	194	4/Mox	WP 07	07.3 P040311_1_StephAureus Run	F9	WP 07 F9	P040311_JV_0735C	286
1214	WP 070258	2	58	1-Elongation factor Tu (EF-Tu)	ENO, STAAM	Q9BVK5	47144.80858	4.6	23	664	100	464	100	170	100	75.3	200	4/Mox	WP 07	07.2 P040311_1_StephAureus Run	C8	WP 07 C8	P040311_JV_0758B	284
1219	WP 110115	1	15	1-Elongation factor Tu (EF-Tu)	EFTU, STAAM	Q9BW81	43133.62108	4.7	23	613	100	157	100	137	100	58.7	256	2/Mox	WP 11	11.1 P040316_1_StephAureus Run	E2	WP 11 E2	P040316_JV_1115A	289
1219	WP 110115	1	15	1-Elongation factor Tu (EF-Tu)	EFTU, STAAM	Q9BW81	43133.62108	4.7	25	629	100	362	100	146	100	68.8	267	2/Mox	WP 11	11.1 P040316_1_StephAureus Run	E2	WP 11 E2	P040316_JV_1115A	289
1221	WP 102124	2	14	1-Probable cysteine desulfurase (EC 2.8.1.7)	CSD, STAAM	Q9BV61	46350.36938	5.3	22	533	100	318	100	164	100	58	214	3/Mox	WP 11	11.1 P040316_1_StephAureus Run	A6	WP 11 A6	P040316_JV_1114B	286
1223	WP 100632	6	32	1-fumarate class III (EC 4.2.1.2)	FUMC, STAAM	Q9BTZ7	51356.62108	5.1	23	740	100	543	100	176	100	50.2	197	4/Mox	WP 10	10.3 P04315_15_StephAureus run 2-3	B9	WP 10 B9	P040315_JV_1032C	293
1233	WP 070314	3	14	1-Elongation factor Tu (EF-Tu)	EFTU, STAAM	Q9BW81	43133.62108	4.7	17	500	100	351	100	115	100	38.7	149	4/Mox	WP 07	07.3 P040311_1_StephAureus Run	A10	WP 07 A10	P040311_JV_0714C	297
1233	WP 070314	3	14	3-ATP synthase beta chain (EC 3.6.3.14)	ATPB, STAAM	Q9BSF5	51368.18141	4.7	15	105	100	0	0	0	18.2	105	0/Mox	WP 07	07.3 P040311_1_StephAureus Run	A10	WP 07 A10	P040311_JV_0714C	297	
1233	WP 070314	3	14	2-lysozyme (EC 3.2.1.17) (Mabate dehydrogenase)	ENO, STAAM	Q9BVK5	47144.80858	4.6	13	112	100	0	0	0	10.1	112	0/Mox	WP 07	07.3 P040311_1_StephAureus Run	A10	WP 07 A10	P040311_JV_0714C	297	
1234	WP 190137	1	37	1-Cenzyme A disulfide reductase	CDR, STAAM	Q9BVC0	48974.528	31	570	100	391	100	109	100	37.6	179	4/Mox;NAC	WP 15	15.1 P050415_A_StephAur	F3	WP 15 F3	P050412_JV_1537A	417	

1234	WP 150137	1	37	2-GTP-binding protein engA	ENGA_STAAM	GBBU15	48949	5.22	21	146	100	58	100	61	100	11.0	88	151_P050415_A_ShaAur	WP 15 F3	P050412_JV	417	
1234	WP 150137	1	37	3-NAD-specific glutamate dehydrogenase	DHEZ_STAAM	GBBV00	45902	5.21	19	77	100	0	0	0	0	6.1	77	151_P050415_A_ShaAur	WP 15 F3	P050412_JV	417	
1235	WP 110234	2	34	1-Coenzyme A disulfide reductase	CDR_STAAM	GBBV20	49374	12.08	5.3	30	595	100	311	100	116	100	57.5	284	10.3P04315_SlaphAureus Run	WP 11 B6	P040316_JV	280
124	WP 070313	3	13	1-GTP-binding protein engA	ENGA_STAAM	GBBU15	48949	19.922	5.2	14	335	100	163	100	93	100	44.4	172	0.73_P040311_SlaphAureus Run	WP 07 E9	P040311_JV	296
1243	WP 070372	3	72	1-NAD-specific glutamate dehydrogenase S-adenosylmethionine synthase (EC 2.5.1.6) (Methionine adenosyltransferase)	DHEZ_STAAM	GBBV00	45902	28.906	5.2	21	245	100	54	100	31	100	26.3	191	0.73_P040311_SlaphAureus Run	WP 07 D9	P040311_JV	294
1246	WP 100515	5	15	1-AdoMet synt	METK_STAAM	GBBT79	43934	28.953	4.9	26	551	100	322	100	113	100	48.7	229	10.2P04315_SlaphAureus run 2-3	WP 10 E6	P040315_JV	299
1246	WP 100515	5	15	2-Cell division protein ftsZ	FTSZ_STAAM	P45498	41011	16.4083	4.9	15	109	100	0	0	0	8.8	109	10.2P04315_SlaphAureus run 2-3	WP 10 E6	P040315_JV	299	
1248	WP 070374	3	74	1-SA1534 protein (Acyl-CoA carboxylase) Elongation factor G (EF-G) (GTPase) Elongation factor G (EF-G) (GTPase) Elongation factor G (EF-G) (GTPase) Elongation factor G (EF-G) (GTPase)	GBBT73_STAAM	GBBT73	50552	87.108	6.0	11	241	100	85	100	47	100	8.91	156	0.73_P040311_SlaphAureus Run	WP 07 D10	P040311_JV	308
1250	WP 070334	3	34	1-ATP synthase beta chain (EC 3.6.3.14)	ENVO_STAAM	GBBV45	47144	80.858	4.6	13	292	100	100	75	100	21.2	192	0.73_P040311_SlaphAureus Run	WP 07 B10	P040311_JV	300	
1253	WP 150134	1	34	1-ATP synthase beta chain (EC 3.6.3.14)	ATPB_STAAM	GBSF5	51368	4.68	4.1	959	100	674	100	163	100	84.2	285	151_P050415_A_ShaAur	WP 15 B2	P050412_JV	423	
1254	WP 100679	6	79	2-ATP synthase beta chain (EC 3.6.3.14) Phosphoenolpyruvate carboxylase (EC 4.2.1.11) (C-phosphoenolpyruvate carboxylase) (2-phospho-D-glycerate hydratase)	ATPB_STAAM	GBSF5	51368	18.411	4.7	14	157	100	64	100	64	100	11.7	93	10.3P04315_SlaphAureus run 2-3	WP 10 H12	P040315_JV	310
1254	WP 100679	6	79	1-Protein	GBRW4_STAAM	GBRW4	40683	7.8228	4.6	21	551	100	382	100	145	100	37.1	189	0.73_P040311_SlaphAureus Run	WP 10 H12	P040311_JV	310
1256	WP 070355	3	55	1-Hypothetical protein SAV1367 UDP-N-acetylglucosamine 1-carboxyvinyltransferase 1 (EC 2.5.1.7)	GBRUB4_STAAM	GBRUB4	54400	68.141	6.2	11	245	100	61	100	54	100	13.8	194	0.73_P040311_SlaphAureus Run	WP 07 G10	P040311_JV	313
1258	WP 100316	3	16	1-Enolpyruvate transferase UDP-N-acetylglucosamine 1-carboxyvinyltransferase 1 (EC 2.5.1.7)	MURAI_STAAM	GBSF8	46025	5.6	23	400	100	134	100	65	100	47	286	0.13_P040302_SlaphAureus Run	WP 01 A11	P040302_JV	313	
1258	WP 100316	3	16	2-Carboxyvinyltransferase	MURAI_STAAM	GBRH5	7280	8.1	7	94	100	0	0	0	0	7.17	94	0.73_P040302_SlaphAureus Run	WP 01 A11	P040302_JV	313	
1260	WP 010356	3	56	1-Serine hydroxymethyltransferase (EC 4.2.1.2.1) (Serine methylase) (SHMT)	GLYA_STAAM	GBSE5	48315	5.8	14	198	100	25	99	16	93	12.8	173	0.13_P040302_SlaphAureus Run	WP 01 C11	P040302_JV	312	
1261	WP 060452	4	52	1-Phosphotransferase (EC 5.4.2.7)	DEOB_STAAM	GBRX76	43925	10.938	5.0	18	309	100	149	100	20.7	160	0.61_P040309_SlaphAureus Run	WP 06 C1	P040309_JV	341		
1261	WP 060452	4	52	1-Hypothetical protein SAV1844	GBRT34_STAAM	GBRT34	46386	8.9063	4.8	25	448	100	198	100	115	100	43.9	249	0.61_P040309_SlaphAureus Run	WP 06 C1	P040309_JV	341
1263	WP 110276	2	76	1-Diaminopimelate decarboxylase Phosphoribosylamine-glycine ligase (EC 6.3.4.13) (GARS) (Glycanamide ribonucleotide synthase)	GBR2F9_STAAM	GBRE35	47176	35.938	5.6	23	432	100	232	100	108	100	50.6	200	0.73_P040311_SlaphAureus Run	WP 11 D7	P040311_JV	304
1268	WP 070373	3	73	1-Ribonucleotide synth	PUR2_STAAM	GBRV23	45976	32.813	5.1	26	579	100	355	100	106	100	48.3	224	0.73_P040311_SlaphAureus Run	WP 07 H9	P040311_JV	303
1268	WP 070373	3	73	1-Adenylsuccinate synthase (EC 6.3.4.4)	PUR4_STAAM	GBRYF4	47801	37.891	5.1	24	210	100	0	0	0	17.9	210	0.73_P040311_SlaphAureus Run	WP 07 H9	P040311_JV	303	
1269	WP 010317	3	17	2-(UMP-activated) thymidylate synthase Serine hydroxymethyltransferase (EC 4.2.1.2.1) (Serine methylase) (SHMT)	GLYA_STAAM	GBSE5	48315	5.8	32	810	100	446	100	124	100	78.8	364	0.13_P040302_SlaphAureus Run	WP 01 E11	P040302_JV	322	
1272	WP 110155	1	55	1-Elongation factor Tu (EF-Tu)	EFTU_STAAM	GBRW61	43133	62.108	4.7	25	666	100	444	100	151	100	69.8	222	11.1_P040316_SlaphAureus Run	WP 11 G2	P040316_JV	309
1272	WP 110155	1	55	2-Aminoglycoside ampS	GBRT02_STAAM	GBRT02	46992	32031	4.8	17	120	100	0	0	0	8.12	120	0.73_P040302_SlaphAureus Run	WP 11 G2	P040302_JV	309	
1275	WP 010336	3	36	1-Adenylsuccinate lyase	GBRSX9_STAAM	GBRSX9	48743	5.6	19	304	100	78	100	60	100	14.3	226	0.13_P040302_SlaphAureus Run	WP 01 B11	P040302_JV	316	
1278	WP 010377	3	77	SA1054 protein (Pantothenate metabolism flavoprotein homolog) (MVY094 protein)	GBRUC7_STAAM	GBRUC7	44170	5.7	13	289	100	159	100	111	100	23.1	130	0.13_P040302_SlaphAureus Run	WP 01 H11	P040302_JV	323	
1283	WP 070335	3	35	1-Methylglutaryl biosynthesis protein msaA	MOEA_STAAM	GBR29	45131	4.8928	5.5	14	330	100	131	100	74	100	48.1	199	0.73_P040302_SlaphAureus Run	WP 07 F10	P040302_JV	327
1286	WP 010357	3	57	1-Adenylsuccinate lyase	GBRSX9_STAAM	GBRSX9	48743	5.6	37	532	100	203	100	93	100	51.9	329	0.73_P040302_SlaphAureus Run	WP 01 G11	P040302_JV	321	
1286	WP 100555	5	55	2-Phosphoenolpyruvate-L-alanine ligase (EC 6.3.2.8) (UDP-N-acetylmuramoyl-L-alanine synthase)	DEOB_STAAM	GBRX76	43925	10.938	5.0	17	319	100	168	100	133	100	29.7	151	10.2P04315_SlaphAureus run 2-3	WP 10 G6	P040315_JV	312
1286	WP 100555	5	55	1-Alanine synthase	MURC_STAAM	GBRTC4	49257	4.4922	5.0	19	361	100	193	100	141	100	28.9	188	10.2P04315_SlaphAureus run 2-3	WP 10 G6	P040315_JV	312
1289	WP 070315	3	15	1-Hypothetical protein SAV1308 Glucose-6-phosphate isomerase (EC 5.3.1.9) (GPI) (Phosphoglucose isomerase)	GBRUG6_STAAM	GBRUG6	45687	35.938	5.2	5	85	100	0	0	0	14.7	85	0.73_P040302_SlaphAureus Run	WP 07 E10	P040302_JV	316	
1293	WP 110173	1	73	1-(PGI) (Phospho)	GBPV6_STAAM	GBPV6	48920	4.8	30	709	100	466	100	195	100	58.4	243	11.1_P040316_SlaphAureus Run	WP 11 H1	P040316_JV	323	
1293	WP 150174	1	74	1-Peptide chain release factor 2 (Elongation factor 2) (EFC2) (Elongation factor 2) (EFC2) (Elongation factor 2) (EFC2)	RF2_STAAM	GBRVM1	37707	4.85	17	263	100	197	100	98	100	27.1	66	151_P050415_A_ShaAur	WP 15 D2	P050412_JV	458	
1293	WP 150174	1	74	1-S-adenosylmethionine synthase (EC 2.5.1.6) (Methionine adenosyltransferase)	METK_STAAM	GBBT79	43934	4.86	26	247	100	127	100	112	100	22.6	120	151_P050415_A_ShaAur	WP 15 D2	P050412_JV	458	
1293	WP 150174	1	74	1-Elongation factor G (EF-G) (85 kDa)	EFG_STAAM	P01683	78718	4.8	29	114	100	12	99.5	12	99.5	10.3	102	151_P050415_A_ShaAur	WP 15 D2	P050412_JV	458	
1298	WP 060412	4	12	1-Peptidyl chain release factor 1 (RF-1)	RF1_STAAM	GBSE0	40325	30.078	4.8	16	188	100	48	100	39	100	15.7	140	0.61_P040309_SlaphAureus Run	WP 06 A1	P040309_JV	352
1299	WP 070354	3	54	1-Capsular polysaccharide synthase enzyme Acetyl-CoA carboxylase (Beta carboxylase subunit) accC (Acetyl-CoA carboxylase subunit) accC	GBRX63_STAAM	GBRX63	42988	5.9306	5.2	25	665	100	388	100	148	100	51.6	297	0.73_P040311_SlaphAureus Run	WP 07 C10	P040311_JV	319
1299	WP 070354	3	54	1-Hypothetical protein SAV1844	GBRTW7_STAAM	GBRTW7	50416	4.8875	5.3	13	88	100	0	0	0	13.9	88	0.73_P040311_SlaphAureus Run	WP 07 C10	P040311_JV	319	
1301	WP 100676	6	76	1-Hypothetical protein SAV0217	GBS2K4_STAAM	GBS2K4	39661	3.9063	5.1	15	342	100	298	100	83	100	53.8	134	10.3P04315_SlaphAureus run 2-3	WP 10 D11	P040315_JV	336

1405	WP 150235	2	36	40707	5.83	21	403	100	321	100	140	100	19.5	82	3	Mox:NAc	WP 15	F6	WP 15 F6	P05042_JV_157884_12	492	
1406	WP 150278	2	78	24576	4.83	8	386	100	300	100	93	100	40.0	86	4	Mox:NAc	WP 15	D8	WP 15 D8	P05042_JV_157884_12	520	
1407	WP 020414	4	14	43044	5.2	17	415	100	241	100	74	100	37	174	4	Mox	WP 02	A2	WP 02 A2	P040302_JV_02144_0812A	387	
1412	WP 080412	4	12	4864	6.9922	5.7	29	640	100	379	100	140	100	61.9	281	4	Mox	WP 08	A1	WP 08 A1	P040311_JV_0812A	371
1415	WP 080472	4	72	40376	4.128	4.9	22	466	100	233	100	104	100	54.3	233	4	Mox	WP 08	D1	WP 08 D1	P040311_JV_0812A	372
1416	WP 060413	4	13	44451	8.7108	5.1	25	481	100	295	100	150	100	46.3	186	4	Mox	WP 06	E1	WP 06 E1	P040308_JV_0613A	404
1418	WP 060452	4	52	41840	4.55078	5.2	20	548	100	345	100	146	100	57.1	203	3	Mox	WP 06	C1	WP 06 C1	P040311_JV_0652A	368
1419	WP 110237	2	37	43938	0.9125	4.5	16	395	100	238	100	100	100	31.3	156	3	Mox	WP 11	F7	WP 11 F7	P040311_JV_110237	374
1421	WP 080434	4	34	43133	6.2108	4.7	7	82	100	35	100	35	100	5.56	71	1	Mox	WP 08	B2	WP 08 B2	P040311_JV_0812A	376
1428	WP 020413	4	13	39986	5.3	23	571	100	307	100	130	100	42.1	284	4	Mox	WP 02	E1	WP 02 E1	P040302_JV_0213A	392	
1431	WP 100677	6	77	42632	4.6694	5.2	23	591	100	364	100	132	100	66.7	217	3	Mox	WP 10	H1	WP 10 H1	P040315_JV_100677	381
1433	WP 100618	6	18	42832	4.6694	5.2	17	341	100	233	100	123	100	31.4	108	2	Mox	WP 10	A12	WP 10 A12	P040315_JV_100618	380
1433	WP 100618	6	18	41906	0.6078	5.1	10	97	96	44	100	44	100	11.3	53	1	Mox	WP 10	A12	WP 10 A12	P040315_JV_100618	380
1433	WP 100618	6	18	34163	5.1172	5.1	16	109	100	0	0	6	86	109	0	Mox	WP 10	A12	WP 10 A12	P040315_JV_100618	380	
1438	WP 060653	6	53	40572	9.4922	5.6	22	446	100	143	100	58	100	31.4	303	4	Mox	WP 06	G9	WP 06 G9	P040308_JV_0653	391
1438	WP 060653	6	53	17363	0.6038	8.3	7	82	100	0	0	7	07	82	0	Mox	WP 06	G9	WP 06 G9	P040308_JV_0653	391	
1438	WP 100638	6	38	45772	7.3828	5.1	13	300	100	175	100	70	100	18.9	125	3	Mox	WP 10	B12	WP 10 B12	P040315_JV_100638	378
1439	WP 150219	2	19	44952	4.86	22	518	100	340	100	60	100	32.8	178	6	Mox:NAc	WP 15	E9	WP 15 E9	P050412_JV_1519B	527	
1440	WP 020433	4	33	43795	5.9	16	364	100	220	100	79	100	54.9	144	4	Mox	WP 02	F1	WP 02 F1	P040302_JV_0233A	395	
1441	WP 080415	4	15	52931	5.7813	5.6	7	158	100	73	100	39	100	5.46	85	3	Mox	WP 08	E2	WP 08 E2	P040311_JV_0815A	382
1442	WP 020435	4	35	42575	4.8	6	77	100	0	0	0	0	3.53	77	0	Mox	WP 02	F2	WP 02 F2	P040302_JV_0235A	433	
1446	WP 020434	4	34	37127	6.0	17	356	100	187	100	73	100	33.7	169	3	Mox	WP 02	B2	WP 02 B2	P040302_JV_0234A	398	
1447	WP 070339	3	39	42257	9.8875	4.9	28	534	100	293	100	108	100	48	241	4	Mox	WP 07	F12	WP 07 F12	P040302_JV_0739C	379
1449	WP 020473	4	73	39186	5.9	9	165	100	32	100	32	100	19.2	133	1	Mox	WP 02	H1	WP 02 H1	P040302_JV_0273A	400	
1455	WP 060453	4	33	41358	8.9384	4.9	19	459	100	277	100	100	100	53.5	192	4	Mox	WP 08	F1	WP 08 F1	P040311_JV_0630A	386
1457	WP 020455	4	55	41357	4.9	10	256	100	151	100	79	100	22.2	105	3	Mox	WP 02	G2	WP 02 G2	P040302_JV_0255A	434	
1461	WP 080414	4	14	46530	6.7188	5.3	25	425	100	182	100	75	100	67.2	243	4	Mox	WP 08	A2	WP 08 A2	P040311_JV_0814A	391
1464	WP 080453	4	53	35047	12108	4.7	26	536	100	289	100	85	100	70.3	247	4	Mox	WP 08	G1	WP 08 G1	P040311_JV_0853A	397
1465	WP 080476	4	76	44405	3.0858	5.1	23	416	100	204	100	130	100	47.6	212	3	Mox	WP 08	D3	WP 08 D3	P040311_JV_0876A	400
1466	WP 080456	4	56	47395	5.7813	5.8	24	667	100	426	100	132	100	67.9	241	4	Mox	WP 08	C3	WP 08 C3	P040311_JV_0856A	396
1468	WP 080435	4	35	49591	5.7813	5.0	9	253	100	162	100	63	100	20.7	91	4	Mox	WP 08	F2	WP 08 F2	P040311_JV_0835A	398
1471	WP 080416	4	16	43056	8.2913	5.7	11	201	100	76	100	41	100	11.1	125	3	Mox	WP 08	A3	WP 08 A3	P040311_JV_0816A	401
1477	WP 080436	4	36	43002	1.0936	5.3	10	258	100	166	100	73	100	17.9	98	3	Mox	WP 08	B3	WP 08 B3	P040311_JV_0836A	396
1486	WP 100658	6	58	38685	4.4922	5.1	10	221	100	107	100	71	100	22.2	114	3	Mox	WP 10	C12	WP 10 C12	P040315_JV_1058C	406
1489	WP 060615	6	15	42860	3.9984	5.4	24	389	100	191	100	101	100	42	198	2	Mox	WP 06	E10	WP 06 E10	P040308_JV_0615C	421
1489	WP 060615	6	15	40380	1.8922	5.5	21	374	100	238	100	129	100	33.6	144	2	Mox	WP 06	E10	WP 06 E10	P040308_JV_0615C	421
1491	WP 020474	4	74	42996	5.8	21	336	100	68	100	62	100	37.8	288	2	Mox	WP 02	D2	WP 02 D2	P040302_JV_0274A	425	
1493	WP 080417	4	17	40803	5.7813	4.8	26	626	100	380	100	159	100	55.3	246	4	Mox	WP 08	E3	WP 08 E3	P040311_JV_0817A	411

1578	WP 19217	2	17	SAUB64 protein (Lipotein-protein ligase domain)	Q9R955	STAAI	Q9R955	37903	5	19	371	100	266	100	100	30.7	115	4	Mox-N:Ac	WP 15	E7	WP 15 E7	P05042_JV_1517B	613			
1579	WP 19217	2	17	1-Hydroxyphenylacetate lyase (EC 2.5.1.61)	Q9R955	STAAI	Q9R955	34574	5	46	17	140	100	46	100	4.4	94	1	Mox-N:Ac	WP 15	E7	WP 15 E7	P05042_JV_1517B	613			
1580	WP 090552	5	52	2-Hydroxy-3-methylglutaryl-CoA synthase (EC 1.6.3.5.1)	Q9R955	STAAI	Q9R955	30720	8	3984	5.2	15	411	100	214	100	94	100	31.7	197	4	Mox	WP 08	447			
1581	WP 090553	5	13	2-Chaperone protein, dead (HSP40)	Q9R955	STAAI	Q9R955	42190	69	141	5.7	6	91	93	45	100	3.74	46	1	Mox	WP 08	ES	WP 08 E5	P04031_JV_0813B	449		
1582	WP 090553	5	13	2-Chaperone protein, dead (HSP40)	Q9R955	STAAI	Q9R955	36351	89	63	5.5	4	166	0	142	109	100	9.08	24	2	Mox	WP 08	E5	WP 08 E5	P04031_JV_0813B	449	
1583	WP 090575	5	75	1-Hydroxyethyl-CoA lyase (EC 1.1.1.1)	Q9R955	STAAI	Q9R955	38867	82	13	6.1	10	285	100	157	100	79	100	19.7	128	4	Mox	WP 08	H6	WP 08 H6	P04031_JV_0875B	456
1584	WP 090556	5	36	Pyruvate dehydrogenase E1 component, beta subunit (EC 1.2.4.1)	Q9R955	STAAI	Q9R955	35224	149	44	4.7	6	157	100	32	100	17	96	12.8	125	2	Mox	WP 08	B7	WP 08 B7	P04031_JV_0836B	454
1585	WP 090515	5	15	1-Hydroxyethyl-CoA lyase (EC 1.1.1.1)	Q9R955	STAAI	Q9R955	38869	53	25	4.0	12	327	100	181	100	73	100	26.5	140	3	Mox	WP 11	E3	WP 11 E3	P04031_JV_0815B	458
1586	WP 090515	5	15	2-Mannose-6-phosphate isomerase (EC 5.1.3.1)	Q9R955	STAAI	Q9R955	35544	5	0	8	80	100	0	0	3.6	80	0	Mox	WP 08	E6	WP 08 E6	P04031_JV_0815B	458			
1587	WP 090514	5	14	1-Thymidylate synthase (EC 2.1.1.45) (TS)	Q9R955	STAAI	Q9R955	37030	28	06	5.3	14	377	100	256	100	93	100	29.2	121	4	Mox	WP 08	A6	WP 08 A6	P04031_JV_0814B	453
1588	WP 090535	5	35	1-Hydroxyethyl-CoA lyase (EC 1.1.1.1)	Q9R955	STAAI	Q9R955	36803	10	15	4.7	8	200	100	125	100	81	100	14.6	75	2	Mox	WP 08	F6	WP 08 F6	P04031_JV_0836B	460
1589	WP 090573	5	73	1-Elongation factor Ts (EF-Ts)	Q9R955	STAAI	Q9R955	32566	75	5	2	14	271	100	96	100	46	100	9.51	175	4	Mox	WP 08	H5	WP 08 H5	P04031_JV_0873B	455
1590	WP 090557	5	57	1-Hydroxyethyl-CoA lyase (EC 1.1.1.1)	Q9R955	STAAI	Q9R955	37833	64	08	5.2	16	324	100	129	100	80	100	24.5	195	4	Mox	WP 08	G7	WP 08 G7	P04031_JV_0857B	463
1591	WP 020553	5	53	Phosphoenolpyruvate carboxylase (EC 4.1.1.31)	Q9R955	STAAI	Q9R955	36044	4	7	12	247	100	102	100	51	100	31.7	145	3	Mox	WP 02	S5	WP 02 G5	P04031_JV_0233B	519	
1592	WP 020556	5	56	1-Succinyl-CoA synthetase (EC 6.3.2.1)	Q9R955	STAAI	Q9R955	36357	69	22	5.3	13	378	100	233	100	73	100	28.9	145	4	Mox	WP 08	F7	WP 08 F7	P04031_JV_0856B	465
1593	WP 180135	1	35	1-Maltose operon transcriptional repressor	Q9R955	STAAI	Q9R955	38468	5	1	4	75	100	51	100	48	100	6.31	24	3	Mox-N:Ac	WP 16	C2	WP 16 C2	P050419_JV_1635A	483	
1594	WP 090534	5	34	Fatty acid phospholipid synthesis protein	Q9R955	STAAI	Q9R955	35542	30	59	6.1	22	450	100	268	100	94	100	33.9	182	4	Mox	WP 08	B6	WP 08 B6	P04031_JV_0834B	468
1595	WP 110176	1	76	Pyruvate dehydrogenase E1 component, beta subunit (EC 1.2.4.1)	Q9R955	STAAI	Q9R955	36224	14	44	4.7	27	737	100	476	100	171	100	71.5	261	4	Mox	WP 11	D3	WP 11 D3	P040316_JV_1170A	464
1596	WP 150238	2	38	1-Phosphoenolpyruvate carboxylase (EC 4.1.1.31)	Q9R955	STAAI	Q9R955	37489	4	14	4.39	100	358	100	96	100	20.7	81	5	Mox-N:Ac	WP 15	B8	WP 15 B8	P050412_JV_1538B	638		
1597	WP 090557	5	57	1-Dip95	Q9R955	STAAI	Q9R955	36225	9	26	4.9	14	287	100	132	100	57	100	29.3	155	3	Mox	WP 06	G7	WP 06 G7	P040308_JV_0657B	519
1598	WP 106856	6	56	1-Elongation factor Ts (EF-Ts)	Q9R955	STAAI	Q9R955	32566	75	5	2	14	271	100	96	100	46	100	9.51	175	4	Mox	WP 10	C11	WP 10 C11	P040315_JV_1058C	462
1599	WP 106856	6	56	1-Elongation factor Ts (EF-Ts)	Q9R955	STAAI	Q9R955	32566	75	5	2	14	271	100	96	100	46	100	9.51	175	4	Mox	WP 10	C11	WP 10 C11	P040315_JV_1058C	462
1600	WP 106856	6	56	2-ALAD (ALA)	Q9R955	STAAI	Q9R955	36844	26	12	5.2	19	197	100	65	100	65	100	16.6	132	1	Mox	WP 10	C11	WP 10 C11	P040315_JV_1058C	462
1601	WP 020573	5	73	1-Lactate dehydrogenase 1 (EC 1.1.1.27) (LDH1)	Q9R955	STAAI	Q9R955	34662	4	12	227	100	97	100	59	100	26.9	130	2	Mox	WP 02	H5	WP 02 H5	P04031_JV_0273B	520		
1602	WP 090516	5	16	1-Elongation factor Ts (EF-Ts)	Q9R955	STAAI	Q9R955	32566	75	5	2	14	271	100	96	100	46	100	9.51	175	4	Mox	WP 08	A7	WP 08 A7	P04031_JV_0834B	468
1603	WP 020532	5	32	1-Replication-associated protein	Q9R955	STAAI	Q9R955	31572	5	12	158	100	0	0	0	10.6	158	0	Mox	WP 02	B5	WP 02 B5	P040302_JV_0232B	493			
1604	WP 090577	5	77	1-Replication-associated protein	Q9R955	STAAI	Q9R955	29912	16	92	6.0	8	93	100	0	0	7.33	93	0	Mox	WP 08	H7	WP 08 H7	P04031_JV_0877B	472		
1605	WP 020533	5	33	1-Methylglutathione transferase (EC 2.3.1.18)	Q9R955	STAAI	Q9R955	39396	5	9	132	100	0	0	0	10.5	132	0	Mox	WP 02	F5	WP 02 F5	P040302_JV_0233B	500			
1606	WP 020459	4	59	1-CAMP-binding factor 1	Q9R955	STAAI	Q9R955	36870	6	1	23	324	100	68	100	48	100	20.7	256	2	Mox	WP 02	G4	WP 02 G4	P040302_JV_0233B	496	
1607	WP 020479	4	79	1-Phosphoenolpyruvate kinase	Q9R955	STAAI	Q9R955	40477	6	1	16	321	100	102	100	37	100	14.1	219	4	Mox	WP 02	H4	WP 02 H4	P040302_JV_0233B	492	
1608	WP 020552	5	52	1-Succinyl-CoA synthetase (EC 6.3.2.1)	Q9R955	STAAI	Q9R955	36357	69	22	5.3	13	378	100	233	100	73	100	28.9	145	4	Mox	WP 08	F7	WP 08 F7	P04031_JV_0856B	465
1609	WP 090577	5	77	1-Replication-associated protein	Q9R955	STAAI	Q9R955	29912	16	92	6.0	8	93	100	0	0	7.33	93	0	Mox	WP 08	H7	WP 08 H7	P04031_JV_0877B	472		
1610	WP 020533	5	33	1-Methylglutathione transferase (EC 2.3.1.18)	Q9R955	STAAI	Q9R955	39396	5	9	132	100	0	0	0	10.5	132	0	Mox	WP 02	F5	WP 02 F5	P040302_JV_0233B	500			
1611	WP 020459	4	59	1-CAMP-binding factor 1	Q9R955	STAAI	Q9R955	36870	6	1	23	324	100	68	100	48	100	20.7	256	2	Mox	WP 02	G4	WP 02 G4	P040302_JV_0233B	496	
1612	WP 020479	4	79	1-Phosphoenolpyruvate kinase	Q9R955	STAAI	Q9R955	40477	6	1	16	321	100	102	100	37	100	14.1	219	4	Mox	WP 02	H4	WP 02 H4	P040302_JV_0233B	492	
1613	WP 020552	5	52	1-Succinyl-CoA synthetase (EC 6.3.2.1)	Q9R955	STAAI	Q9R955	36357	69	22	5.3	13	378	100	233	100	73	100	28.9	145	4	Mox	WP 08	F7	WP 08 F7	P04031_JV_0856B	465
1614	WP 020572	5	72	1-FAD bifunctional protein	Q9R955	STAAI	Q9R955	34204	5	24	365	100	68	100	40	100	48	297	2	Mox	WP 02	E5	WP 02 E5	P040302_JV_0233B	509		
1615	WP 020572	5	72	2-SigmaB regulation protein RsbU	Q9R955	STAAI	Q9R955	36926	5	4	24	564	100	361	100	121	100	43.5	203	4	Mox	WP 02	D5	WP 02 D5	P040302_JV_0233B	510	
1616	WP 020514	5	14	16.2.1.5 (SCS-alpha)	Q9R955	STAAI	Q9R955	38573	5	4	16	88	100	0	0	9.47	88	0	Mox	WP 02	D5	WP 02 D5	P040302_JV_0233B	510			
1617	WP 090536	5	36	1-Proteinase (EC 3.4.1.1)	Q9R955	STAAI	Q9R955	31750	5	21	398	100	140	100	63	100	25.1	258	3	Mox	WP 02	A6	WP 02 A6	P04031_JV_0214B	527		
1618	WP 060634	6	34	1-Proteinase (EC 3.4.1.1)	Q9R955	STAAI	Q9R955	37686	15	63	5.9	15	302	100	107	100	81	100	23.7	195	4	Mox	WP 08	B8	WP 08 B8	P040308_JV_0834B	464
1619	WP 110137	1	37	1-Hydroxyethyl-CoA lyase (EC 1.1.1.1)	Q9R955	STAAI	Q9R955	36151	7	15	5.6	16	321	100	98	100	37	100	60.2	214	4	Mox	WP 11	F3	WP 11 F3	P040316_JV_1137A	489
1620	WP 090519	5	19	1-Hydroxyethyl-CoA lyase (EC 1.1.1.1)	Q9R955	STAAI	Q9R955	31947	7	40	4.7	11	453	100	301	100	180	100	32.6	152	3	Mox	WP 11	F3	WP 11 F3	P040316_JV_1137A	489
1621	WP 090519	5	19	SAO734 protein (Carboxylesterase precursor)	Q9R955	STAAI	Q9R955	28194	9	00	4.6	7	251	100	161	100	99	100	19.4	90	4	Mox	WP 08	E8	WP 08 E8	P04031_JV_0819B	487
1622	WP 110157	1	57	1-Proteinase (EC 3.4.1.1)	Q9R955	STAAI	Q9R955	34218	30	63	4.7	19	422	100	267	100	133	100	48.7	155	3	Mox	WP 11	G3	WP 11 G3	P040316_JV_1157A	488
1623	WP 090633	6	33	1-Hydroxyethyl-CoA lyase (EC 1.1.1.1)	Q9R955	STAAI	Q9R955	35972	8	28	5.5	17	416	100	249	100	99	100	26.6	167	4	Mox	WP 06	F9	WP 06 F9	P04031_JV_0633C	516
1624	WP 090559	5	59	1-Proteinase (EC 3.4.1.1)	Q9R955	STAAI	Q9R955	35454	0	17	5.0	6	212	100	142	100	62	100	6.47	70	3	Mox	WP 08	G8	WP 08 G8	P04031_JV_0859B	490

1752/WP/110136	1	36	1	50S ribosomal protein L25	Q9WA2	2373.16038	4.4	6	131	96	77	100	77	100	6.8	54	1	Mox	WP 11	B3	P040316_JV	545	
1752/WP/110136	1	36	2	Trigger factor (TF)	Q9BT16	48579.30856	4.3	9	103	100	34	100	34	100	7.07	69	1	Mox	WP 11	B3	P040316_JV	545	
1753/WP/150236	2	36	1	Trans-2-enoyl-ACP reductase	Q9RM3	27975.564	11	166	100	96	100	55	100	7.8	70	4	Mox;N;Ac	WP 15	B7	WP 15 B7	P050412_JV	721	
1753/WP/150236	2	36	2	Psa protein (Pepidyl-prolyl cis/trans isomerase)	Q9BT36	35673.901	13	86	100	133	99.2	3.1	99.2	3.1	73	1	Mox;N;Ac	WP 15	B7	WP 15 B7	P050412_JV	721	
1754/WP/150237	2	57	1	Hypothetical protein SAV19/69	Q9S19	32746.4	4.8	18	332	100	164	100	74	100	22.2	138	1	Mox;N;Ac	WP 15	G7	WP 15 G7	P050412_JV	710
1755/WP/020674	6	74	1	(MW1301 protein)	Q9B76	30123	4.4	2	63	100	60	100	0	100	0	2	Mox	WP 02	D10	WP 02 D10	P04302_JV	605	
1756/WP/090614	6	16	1	Hypothetical protein SAV1391	Q9B93	34163.51172	5.1	15	336	100	157	100	77	100	29.5	179	4	Mox	WP 08	A11	WP 08 A11	P040311_JV	544
1759/WP/090675	6	75	1	30S ribosomal protein S2	Q9BUL5	29133.18945	5.4	19	395	100	280	114	100	66.9	115	4	Mox	WP 08	H10	WP 08 H10	P040311_JV	541	
1760/WP/090676	6	76	1	Hypothetical protein SAV2341	Q9S1F9	33849.59078	5.9	9	161	100	51	100	25	98	13.6	110	3	Mox	WP 08	D11	WP 08 D11	P040316_JV	547
1761/WP/110175	1	75	1	50S ribosomal protein L25	Q9BWA2	23773.16038	4.4	6	444	83	402	100	130	100	58.7	42	4	Mox	WP 11	H2	WP 11 H2	P050412_JV	549
1762/WP/150239	2	39	1	Elongation factor Tu (EF-Tu)	Q9BWE1	43134.474	18	536	100	418	100	112	100	28.7	118	9	Mox;N;Ac	WP 15	F8	WP 15 F8	P050412_JV	716	
1763/WP/110158	1	58	1	Fructose-bisphosphate aldolase class I (EC 4.1.1.2) (FBP aldolase)	Q9BRS1	32890.01172	4.9	23	448	100	195	100	66	100	65.6	253	4	Mox	WP 11	C4	WP 11 C4	P050412_JV	540
1766/WP/150237	2	37	1	Glucokinase	Q9BTU7	35469.522	19	586	100	470	100	157	100	61.2	116	5	Mox;N;Ac	WP 15	F7	WP 15 F7	P050412_JV	705	
1766/WP/150237	2	37	2	(protein)	Q9BUL3	31540.526	14	102	100	0	0	0	0	0	6.7	102	0	Mox;N;Ac	WP 15	F7	WP 15 F7	P040311_JV	546
1776/WP/090656	6	56	1	UTP-glucose-1-phosphate uridylyltransferase	Q9BRO4	32430.94922	5.4	14	288	100	100	58	100	23.1	168	2	Mox	WP 08	C11	WP 08 C11	P040311_JV	546	
1776/WP/090656	6	56	2	30S ribosomal protein S2	Q9BUL5	29133.18945	5.4	9	114	100	47	100	47	100	10.8	67	1	Mox	WP 08	C11	WP 08 C11	P040302_JV	546
1777/WP/020613	6	13	1	Hypothetical protein SAV1747	Q9BT87	32154	5.6	6	124	100	59	100	59	100	3.08	65	1	Mox	WP 02	E9	WP 02 E9	P040302_JV	933
1779/WP/020632	6	32	1	IGTP-binding protein era homolog	Q9BTS9	34307	6.1	13	325	100	164	100	104	100	28.1	161	4	Mox	WP 02	B9	WP 02 B9	P040302_JV	934
1785/WP/090636	6	36	1	Naphtholate synthase	Q9B48	30620.42698	5.4	17	380	100	266	100	116	100	51.1	114	3	Mox	WP 08	B11	WP 08 B11	P040311_JV	552
1785/WP/090636	6	36	2	(protein)	Q9BUL3	31539.71084	5.3	11	82	100	0	0	0	0	4.87	82	0	Mox	WP 08	B11	WP 08 B11	P040311_JV	552
1786/WP/110139	1	39	1	Chaperone protein hspA (Hsp31)	Q9BWS8	32270.40038	4.9	10	229	100	141	100	68	100	17.6	88	3	Mox	WP 11	F4	WP 11 F4	P040316_JV	559
1788/WP/020673	6	73	1	Hypothetical protein SAV1337 (MW1224)	Q9BUD9	36334	6.6	32	673	100	358	100	135	100	55.2	315	4	Mox	WP 02	H9	WP 02 H9	P040302_JV	569
1796/WP/110119	1	19	1	Elongation factor P (EF-P)	Q9BTW5	20541.31055	4.8	12	336	100	221	100	133	100	25.2	115	2	Mox	WP 11	E4	WP 11 E4	P040316_JV	565
1797/WP/020656	6	56	1	Elongation factor P (EF-P)	Q9BTW5	20541	4.8	6	91	100	14	91	14	91	5.21	77	1	Mox	WP 02	C11	WP 02 C11	P040302_JV	622
1799/WP/090617	6	17	1	Elongation factor Tu (EF-Tu)	Q9BWE1	43133.62108	4.7	17	309	100	160	126	100	31.7	149	2	Mox	WP 08	E11	WP 08 E11	P040311_JV	563	
1799/WP/090617	6	17	2	SAV0669;SA025AMW0631	Q9BXR2	25304.14063	4.6	9	223	100	157	100	79	100	14.1	66	2	Mox	WP 08	E11	WP 08 E11	P040311_JV	563
1801/WP/090618	6	18	1	Acetyl-CoA carboxylase carboxyl	Q9BTG3	35034.08884	5.2	22	377	100	167	100	48	100	44.8	210	4	Mox	WP 08	A12	WP 08 A12	P040311_JV	566
1804/WP/090638	6	38	1	Ribose-phosphate pyrophosphokinase (EC 2.7.6.1) (RPPK) (Phosphorboxyl)	Q9BWA3	35603.73828	5.9	20	662	100	459	100	177	100	55.3	203	4	Mox	WP 08	B12	WP 08 B12	P050412_JV	569
1805/WP/150259	2	59	1	Elongation factor Tu (EF-Tu)	Q9BWE1	43134.474	10	212	100	146	100	75	100	6.6	66	2	Mox;N;Ac	WP 15	G8	WP 15 G8	P050412_JV	748	
1805/WP/150259	2	59	2	50S ribosomal protein L2	P0431	30194	10.8	7	108	100	62	100	51	100	5.9	46	2	Mox;N;Ac	WP 15	G8	WP 15 G8	P050412_JV	748
1805/WP/150259	2	59	3	(HSP70)	Q9BTR7	66378	4.65	7	86	100	56	100	28	100	9.3	30	2	Mox;N;Ac	WP 15	G8	WP 15 G8	P050412_JV	748
1807/WP/110179	1	79	1	Hypothetical protein SAV0559	Q9BWE1	31846.35938	4.9	18	508	100	334	100	119	100	36.6	174	3	Mox	WP 11	H4	WP 11 H4	P040315_JV	576
1808/WP/090112	1	12	1	50S ribosomal protein L2	P0431	30193.59977	10.8	13	200	100	83	100	46	100	9.96	117	3	Mox	WP 09	A1	WP 09 A1	P040315_JV	576
1808/WP/090112	1	12	2	Hypothetical protein SAV0316	Q9BWR0	31779.24023	5.5	14	152	100	14	91	14	91	10.7	138	1	Mox	WP 09	A1	WP 09 A1	P040311_JV	578
1809/WP/090619	6	19	1	Sigma factor B	Q9S1H6	29441.16992	5.8	14	282	100	162	100	92	100	25	120	4	Mox	WP 08	E12	WP 08 E12	P040311_JV	576
1810/WP/020638	6	38	1	33 kDa chaperonin (Heat shock protein 33 chomology) (HSP35)	Q9BWF1	32012	5.0	20	616	100	383	100	144	100	59.5	223	4	Mox	WP 02	B12	WP 02 B12	P04302_JV	629
1811/WP/020639	6	39	1	CpE protein (HSP-70 cofactor) (HSP20)	P4553	24008	4.4	15	646	100	453	100	162	100	58.1	193	4	Mox	WP 02	F12	WP 02 F12	P04302_JV	634
1816/WP/090678	6	78	1	Trans-2-enoyl-ACP reductase	Q9BWM3	27974.58008	5.6	21	599	100	345	100	144	100	56.5	254	4	Mox	WP 08	D12	WP 08 D12	P040311_JV	573
1817/WP/090132	1	32	1	50S ribosomal protein L2	P0431	30194.108	9	170	100	34	100	17	93	4.72	86	2	Mox	WP 09	B1	WP 09 B1	P040315_JV	572	
1819/WP/150378	3	78	1	50S ribosomal protein L2	P0431	30194.108	9	170	100	107	100	50	100	6.8	63	4	Mox;N;Ac	WP 15	D12	WP 15 D12	P050412_JV	1619	
1819/WP/150378	3	78	2	(MW2202 prot. Hypothetical LUPF0042 protein)	Q9BRY8	34047	9.16	11	108	100	30	100	30	100	3.6	78	1	Mox;N;Ac	WP 15	D12	WP 15 D12	P050412_JV	1819
1820/WP/020675	6	75	1	SAV0765;SA07Z0MM0727	Q9BVL1	34961	5.6	18	413	100	226	100	93	100	41.7	197	4	Mox	WP 02	H10	WP 02 H10	P04302_JV	612

1822	WP 150317	3	17	Ribose-phosphate pyrophosphokinase (EC 2.7.6.1) (RPPK) (phosphoribosyl pyrophosphate synth)	RRPS_STAAM	Q9BWA3	35604	5.88	9	145	100	66	100	27	100	7.1	79	3	Mox:NAc	WP 15	15.3	RR50415_C_StaAur	E11	WP 15 E11	P050412_JV_1517C	767	
1824	WP 090173	1	73	1-Hydrophobic protein SAV0566	Y566_STAAM	Q9BWA3	33630	8.7891	5.2	13	183	100	26	99	17	95	9.71	157	2	Mox	WP 09	09.1	RR43115_StaphAureus run 2-3	H1	WP 09 H1	RR43115_JV_0973A	585
1825	WP 150314	3	14	1-Naphthoate synthase	MENB_STAAM	Q9BWA4	30620	5.4	13	399	100	277	100	100	29.7	122	8	Mox:NAc	WP 15	15.3	RR50415_C_StaAur	A10	WP 15 A10	RR50412_JV_1514C	774		
1826	WP 090175	6	79	1-Squalene desaturase (D-separate aminotransferases) (D-amino acid amin	Q9BWT5_STAAM	Q9BWT5	34386	0.9894	5.7	17	495	100	293	100	95	100	31.9	202	4	Mox	WP 08	1+2	RR40311_JV_0979C	H12	WP 08 H12	RR40311_JV_0979C	560
1831	WP 110159	1	59	1-DAAA STAAM	DAAA_STAAM	Q9BTB4	31945	2.5977	5.0	19	534	100	325	100	95	100	62.9	209	4	Mox	WP 11	2+3	RR40316_StaphAureus Run	G4	WP 11 G4	RR40316_JV_1159A	584
1832	WP 020616	6	16	1-Hydrophobic protein SAV1500	Q9BTZ3_STAAM	Q9BTZ3	33553	5.2	11	252	100	149	100	76	100	26.7	103	3	Mox	WP 02	2+3	RR40302_StaphAureus Run	A11	WP 02 A11	RR40302_JV_0216C	624	
1833	WP 020616	6	16	2-Hydrophobic protein SAV1440	Q9BUA8_STAAM	Q9BUA8	33522	5.3	18	221	100	11	82	11	82	31.8	210	1	Mox	WP 02	2+3	RR40302_StaphAureus Run	A11	WP 02 A11	RR40302_JV_0216C	624	
1835	WP 090152	1	52	1-Tigger factor (TF)	TIG_STAAM	Q9BT16	48579	3.0858	4.3	15	201	100	90	100	44	100	47.1	111	3	Mox	WP 09	09.1	RR43115_StaphAureus run 2-3	C1	WP 09 C1	RR52A	595
1839	WP 110116	1	16	1-50S ribosomal protein L25	RL25_STAAM	Q9BWA2	23773	1.6038	4.4	5	112	100	30	100	30	100	9.17	82	1	Mox	WP 11	2+3	RR40316_StaphAureus Run	A3	WP 11 A3	RR40316_JV_1116A	590
1840	WP 090639	6	39	1-Hypothetical protein SAV1127 (Hypothetical protein MW1009)	Q9BUX7_STAAM	Q9BLS4	28200	4.0039	5.2	20	467	100	241	100	91	100	36.7	226	3	Mox	WP 09	1+2	RR40311_JV_0939C	F12	WP 09 F12	RR40311_JV_0939C	598
1841	WP 090172	1	72	1-Hypothetical protein SAV10351	Q9BWM6_STAAM	Q9BUX7	21458	3.6655	4.2	1	60	66	100	100	0	1	Mox	WP 09	09.1	RR43115_StaphAureus run 2-3	D1	WP 09 D1	RR40315_JV_0939C	594			
1842	WP 020618	6	18	1-IATP synthase gamma chain	ATFG_STAAM	Q9BWF4	31445	5.4	9	97	100	15	92	15	92	5.58	82	1	Mox	WP 02	2+3	RR40302_StaphAureus Run	A12	WP 02 A12	RR40302_JV_0218C	626	
1843	WP 020636	6	36	1-IATP synthase gamma chain	ATFG_STAAM	Q9BWF4	32086	5.7	11	365	100	246	100	109	100	24.3	119	4	Mox	WP 02	2+3	RR40302_StaphAureus Run	B11	WP 02 B11	RR40302_JV_0228C	625	
1849	WP 020677	6	77	1-Regulatory protein rexC	REXC_STAAM	Q9BT06	32296	5.9	17	286	100	80	100	44	100	17.9	206	3	Mox	WP 02	2+3	RR40302_StaphAureus Run	H11	WP 02 H11	RR40302_JV_0227C	621	
1849	WP 030152	1	52	1-Elongation factor Tu (EF-Tu)	EFTU_STAAM	Q9BWB1	43133	62.109	4.7	4	68	32	100	32	100	1.98	36	1	Mox	WP 03	2+3	RR40303_JV_03003	C1	WP 03 C1	RR40303_JV_03003	646	
1853	WP 090154	1	54	1-transacylase	FABD_STAAM	Q9BUN8	33742	1.9141	4.9	14	490	100	359	100	158	100	41.8	131	3	Mox	WP 09	09.1	RR43115_StaphAureus run 2-3	C2	WP 09 C2	RR40315_JV_0954A	602
1857	WP 090174	1	74	1-Hypothetical protein SAV0672	PTI_STAAM	Q9S1U2	63394	3.9063	4.6	7	78	87	35	100	32	100	12.2	43	2	Mox	WP 09	09.1	RR43115_StaphAureus run 2-3	D2	WP 09 D2	RR40315_JV_0974A	596
1859	WP 090115	1	15	1-Naphthoate synthase	MENB_STAAM	Q9BWA4	30620	4.2966	5.4	12	249	100	89	100	30	100	16.3	160	4	Mox	WP 09	09.1	RR43115_StaphAureus run 2-3	E2	WP 09 E2	RR40315_JV_0939C	600
1864	WP 090134	1	34	1-Hypothetical protein SAV0988 (MW0850)	Q9BVC2_STAAM	Q9BVC2	33146	8.7891	4.8	24	644	100	365	100	137	100	53	279	4	Mox	WP 09	09.1	RR43115_StaphAureus run 2-3	B2	WP 09 B2	RR40315_JV_0939C	604
1865	WP 020619	6	19	1-Hypothetical protein SAV0672	Q9BVC2_STAAM	Q9BVC2	26246	5.1	8	98	100	0	0	0	0	7.82	98	0	Mox	WP 02	2+3	RR40302_StaphAureus Run	E12	WP 02 E12	RR40302_JV_0218C	630	
1870	WP 090174	1	74	1-Hypothetical protein SAV0566	Y566_STAAM	Q9BWA3	33630	8.7891	5.2	16	451	100	291	100	133	100	43.5	160	4	Mox	WP 09	09.1	RR43115_StaphAureus run 2-3	F10	WP 09 F10	RR40315_JV_0939C	599
1872	WP 090113	1	13	1-Hypothetical protein SAV2129	Q9BSC9_STAAM	Q9BSC9	33231	4.6934	4.7	17	321	100	131	100	53	100	16.7	190	4	Mox	WP 09	09.1	RR43115_StaphAureus run 2-3	E1	WP 09 E1	RR40315_JV_0939C	597
1873	WP 020678	6	78	1-AnsA protein (Probable L-asparaginase) (EC 3.5.99.6) (Glucosamine-6-phosphatase (L-isomerase) (GNPDA	Q9BU11_STAAM	Q9BU11	36530	5.9	12	457	100	294	100	135	100	42.1	163	4	Mox	WP 02	2+3	RR40302_StaphAureus Run	D12	WP 02 D12	RR40302_JV_0228C	638	
1873	WP 090155	1	15	1-Hypothetical protein SAV0230	NAGB_STAAM	Q9BWA4	28620	5.44	10	222	100	133	100	72	100	13.7	89	5	Mox:NAc	WP 16	16.1	RR50419_JV_A_StaAur	E2	WP 16 E2	RR50419_JV_1615A	622	
1874	WP 090155	1	55	1-Hypothetical protein SAV0230	Y749_STAAM	Q9BWA6	32219	2.793	4.9	9	283	100	178	100	107	100	25.9	105	3	Mox	WP 09	09.1	RR43115_StaphAureus run 2-3	G2	WP 09 G2	RR40315_JV_0939C	608
1881	WP 030112	1	12	1-Hypothetical protein SAV2204	Q9BSE5_STAAM	Q9BSE5	31786	5.1953	5.3	11	235	100	84	100	40	100	10.5	151	4	Mox	WP 03	2+3	RR40304_StaphAureus Run	A1	WP 03 A1	RR40303_JV_0312A	648
1883	WP 150335	3	35	1-Kinase	THID_STAAM	Q9BSC4	30337	5.78	12	219	100	136	100	47	100	15.8	83	5	Mox:NAc	WP 15	15.3	RR50415_C_StaAur	F10	WP 15 F10	RR50412_JV_1535C	792	
1883	WP 150335	3	35	1-Kinase	Q9BVA4_STAAM	Q9BVA4	34776	6.67	6	60	100	37	99.5	37	99.5	6.8	23	1	Mox:NAc	WP 15	15.3	RR50415_C_StaAur	F10	WP 15 F10	RR50412_JV_1535C	792	
1886	WP 030132	1	32	1-Hypothetical protein SAV1187	Y1187_STAAM	Q9BWS8	30409	1.3096	5.7	12	453	100	313	100	128	100	17.9	140	4	Mox	WP 03	2+3	RR40304_StaphAureus Run	B1	WP 03 B1	RR40303_JV_0332A	649
1896	WP 030153	1	53	1-Response regulator	Q9BFX3_STAAM	Q9BFX3	27547	9.4922	5.1	11	308	100	175	100	66	100	22.8	133	3	Mox	WP 03	2+3	RR40304_StaphAureus Run	G1	WP 03 G1	RR40303_JV_0335A	664
1899	WP 090116	1	16	1-Hypothetical protein SAV0929 (MW0811)	Q9BE8_STAAM	Q9BE8	27928	1.6992	4.5	10	501	100	393	100	141	100	46.9	108	4	Mox	WP 09	09.1	RR43115_StaphAureus run 2-3	A3	WP 09 A3	RR40315_JV_0916A	613
1904	WP 090175	1	75	1-Thromboxane synthase	Q9BT40_STAAM	Q9BT40	27783	2.207	4.9	7	135	100	48	100	28	98	17.9	87	3	Mox	WP 09	09.1	RR43115_StaphAureus run 2-3	H2	WP 09 H2	RR40315_JV_0975A	611
1909	WP 090117	1	17	1-acetylneuraminic acid aldolase (N-acetylneuramin	NANA_STAAM	Q9BWR1	33080	1.0938	4.9	7	246	100	176	100	83	100	42.2	70	4	Mox	WP 09	09.1	RR43115_StaphAureus run 2-3	E3	WP 09 E3	RR40315_JV_0917A	619
1910	WP 030133	1	33	1-Hypothetical protein SAV1533	Q9BTW1_STAAM	Q9BTW1	31918	3.0078	5.4	8	90	100	7	48	7	48	9.65	83	1	Mox	WP 03	2+3	RR40304_StaphAureus Run	F1	WP 03 F1	RR40303_JV_0335A	659
1913	WP 030174	1	74	1-Hypothetical protein SAV0382	NFRA_STAAM	Q9BWA6	28591	1.7969	5.0	8	139	100	47	100	31	100	6.9	92	3	Mox	WP 03	2+3	RR40304_StaphAureus Run	D2	WP 03 D2	RR40303_JV_0335A	671
1915	WP 090157	1	57	1-Hypothetical protein SAV0481 (Hypothetical protein MW0446)	Q9BWB2_STAAM	Q9BWB2	29376	9.9345	5.1	9	302	100	164	100	92	100	46.6	118	3	Mox	WP 09	09.1	RR43115_StaphAureus run 2-3	G3	WP 09 G3	RR40315_JV_0957A	620
1917	WP 090176	1	76	1-SAI184 protein (Lysophospholipase (thrombox)	Q9RTA3_STAAM	Q9RTA3	31845	2.4023	5.4	19	379	100	180	100	121	100	45.3	199	2	Mox	WP 09	09.1	RR43115_StaphAureus run 2-3	D3	WP 09 D3	RR40315_JV_0976A	618
1918	WP 030154	1	54	1-Methicillin resistance mecR1 protein	MECR_STAAM	P26597	68857	9.5113	8.5	7	107	100	21	98	2	98	86	1	Mox	WP 03	2+3	RR40304_StaphAureus Run	C2	WP 03 C2	RR40315_JV_0958A	665	
1920	WP 090159	1	59	1-Elongation factor Tu (EF-Tu)	EFTU_STAAM	Q9BWB1	43133	62.109	4.7	12	252	100	140	100	93	100	22.5	112	4	Mox	WP 09	09.1	RR43115_StaphAureus run 2-3	C4	WP 09 C4	RR40315_JV_0958A	626
1921	WP 150332	3	32	1-Hypothetical protein SAV0580 (MW0535)	Q9BWA1_STAAM	Q9BWA1	29952	4.85	6	307	100	244	100	95	100	32.5	63	4	Mox	WP 15	15.3	RR50415_C_StaAur	C9	WP 15 C9	RR50412_JV_1552C	815	
1921	WP 180174	1	74	1-Hypothetical protein SAV0580 (MW0535)	Q9BWA1_STAAM	Q9BWA1	29952	4.85	12	316	100	218	100	85	100	25.6	98	5	Mox:NAc	WP 16	16.1	RR50419_JV_A_StaAur	D2	WP 16 D2	RR50419_JV_1674A	639	

2022	WP 092224	2	34	Hydroxyethylthiazole kinase (EC 2.7.1.50)	THM_STAAM	Q9BSG5	28277.71084	4.6	7	232	100	163	100	73	100	18.9	69	3	WP 09	09.2 P04315_StaphAureus run 2-3B6	P040315_JV_0948B	671
2023	WP 092274	2	74	1-keto-5-beta-hydroxyethylmaltolase SAT16R protein (Plant meliobacte)	Q9BT81_STAAM	Q9BT81	31446.84961	5.0	16	350	100	178	100	66	100	42.4	172	4	WP 09	09.2 P04315_StaphAureus run 2-3D6	P040315_JV_0974B	679
2024	WP 150339	3	39	SA0820 protein (Secretory antigen SaaA homologous)	Q9BVV6_STAAM	Q9BVV6	28226.613	5	260	100	233	100	105	100	11.2	27	3	WP 15	15.3 P050415_C_StaAur	P050412_JV_1539C	2024	
2024	WP 150339	3	39	Uridylate kinase (EC 2.7.4.-) (UK) (Uridine 5-phosphatase kinase) (Udp kinase)	PYRH_STAAM	Q9BUL3	26299.599	9	113	100	47	100	11.4	66	1	1	1	WP 15	15.3 P050415_C_StaAur	P050412_JV_1539A	2024	
2026	WP 090255	3	55	1-Hypothetical protein SAV2311	Q9RWV2_STAAM	Q9RWV2	30650.591	4	99	100	85	100	52	100	2.6	14	4	WP 15	15.3 P050415_C_StaAur	P050412_JV_1555C	878	
2029	WP 090255	2	55	1-Hypothetical protein SAV1219	Q9BUP9_STAAM	Q9BUP9	28201.0293	5.0	12	372	100	234	100	113	100	27.1	138	4	WP 09	09.2 P04315_StaphAureus run 2-3G6	Q9B55B	881
2030	WP 090275	2	75	1 (Truncated) Putative response regulator AVR	ARLR_STAAM	Q9KIN4	25539.2793	4.9	7	288	100	203	100	124	100	15.4	65	3	WP 09	09.2 P04315_StaphAureus run 2-3H6	Q975B	884
2034	WP 090217	2	17	1-Hypothetical protein SAV1192	Q9BU55_STAAM	Q9BU55	23499.75977	4.9	7	258	100	163	100	119	100	12.4	95	3	WP 03	03.2 P040304_StaphAureus Run	Q317B	743
2036	WP 030237	2	37	1-Hypothetical protein SAV1503 (MW1457 protein)	PROC_STAAM	Q9BT20	23978.06955	5.0	13	515	100	352	100	120	100	29.3	163	4	WP 03	03.2 P040304_StaphAureus Run	Q337B	744
2037	WP 030235	2	35	1-Hypothetical protein SAV2264	Q9BS08_STAAM	Q9BS08	30087.39598	6.1	7	131	100	33	100	32	98	10.8	98	2	WP 03	03.2 P040304_StaphAureus Run	Q335B	736
2038	WP 150336	3	36	1-Hypothetical protein SAV2310 (MW2230 protein) GTP-binding transcriptional phenotypic repressor cody	Q9RWV3_STAAM	Q9RWV3	34716.911	5	118	100	94	100	69	100	3.2	24	2	WP 15	15.3 P050415_C_StaAur	P050412_JV_1555A	900	
2039	WP 150375	3	75	1-Hypothetical protein SAV2027	CODY_STAAM	Q9BUL6	28737.587	23	599	100	446	100	135	100	72.8	153	6	WP 15	15.3 P050415_C_StaAur	P050412_JV_1575C	892	
2041	WP 090216	2	16	2-Hypothetical protein SAV2027	Q9BSL9_STAAM	Q9BSL9	26126.30078	5.0	12	234	100	121	100	88	100	22.3	113	2	WP 09	09.2 P04315_StaphAureus run 2-3A7	Q916B	688
2041	WP 090216	2	16	1-Hypothetical protein SAV0587	Q9RW24_STAAM	Q9RW24	29428.4707	5.1	15	311	100	169	100	87	100	28.8	142	2	WP 09	09.2 P04315_StaphAureus run 2-3A7	Q916B	688
2044	WP 090219	2	19	1-Hypothetical protein SAV0307	Q9XG4_STAAM	Q9XG4	30323.48047	6.1	3	85	35	49	100	49	100	1.98	36	1	WP 03	03.2 P040304_StaphAureus Run	Q316B	735
2049	WP 150356	3	56	1-Hypothetical protein SAV1014 (Hypothetical protein MW0895)	Q9BV78_STAAM	Q9BV78	29358.608	8	256	100	200	100	82	100	6.5	56	5	WP 15	15.3 P050415_C_StaAur	P050412_JV_1556C	911	
2052	WP 030216	2	16	1-Hypothetical protein SAV0404	Q932L_STAAM	Q932L	25146.68992	5.9	13	177	100	64	100	51	100	16.4	113	2	WP 03	03.2 P040304_StaphAureus Run	Q316B	739
2052	WP 030216	2	16	1-Hypothetical protein SAV1580	Q9BT6_STAAM	Q9BT6	26688.4707	5.7	11	213	100	102	100	102	100	19.3	117	1	WP 03	03.2 P040304_StaphAureus Run	Q316B	739
2053	WP 090217	2	17	1-Hypothetical protein SAV0587 (Hypothetical protein MW0522)	Q9RW42_STAAM	Q9RW42	24892.56955	5.1	8	241	100	134	100	75	100	14.3	107	4	WP 09	09.2 P04315_StaphAureus run 2-3E7	Q917B	689
2056	WP 150312	3	12	1 (TIM) Triosephosphate isomerase (EC 5.3.1.1)	TPIS_STAAM	Q9Z5C3	27416.48	25	583	100	396	100	82	100	61.4	187	6	WP 15	15.3 P050415_C_StaAur	P050412_JV_1512C	875	
2058	WP 180154	1	54	1 (TIM) Transposon Tn577 toxic shock syndrome (TS), toxinase (16)	TPIS_STAAM	Q9Z5C3	27416.48	27	477	100	283	100	98	100	49.5	194	4	WP 16	16.1 P050419_JV_A_StaAur	P050419_JV_1654A	696	
2060	WP 090237	2	37	1 (KINase) Guanylate kinase (EC 2.7.4.8) (GMP kinase)	Q74ZL6_STAAM	Q54466	27791.48047	5.1	9	162	100	68	100	62	100	8.6	94	2	WP 09	09.2 P04315_StaphAureus run 2-3E7	Q937B	697
2062	WP 110259	2	59	1 (KINase) YLIME (Hypothetical protein SA1031)	KGUA_STAAM	Q9BU09	24064.25	5.5	14	413	100	292	100	125	100	43.6	131	3	WP 11	11.2 P040316_StaphAureus Run	P040316_JV_1159B	698
2063	WP 030257	2	57	1 (KINase) Phosphorylgydryltransferase (EC 2.1.2.2) (GART) (GAT) Guanylate kinase (EC 2.7.4.8) (GMP kinase)	Q7A2S6_STAAM	Q9ZHA3	25700.28906	5.7	16	323	100	85	100	59	100	16.6	238	2	WP 03	03.2 P040304_StaphAureus Run	Q357B	745
2067	WP 060418	4	18	1 (KINase) Adenylylase (EC 2.7.4.3) (ATP-AMP transferase) Guanylate kinase (EC 2.7.4.8) (GMP kinase)	PUR3_STAAM	Q9BV25	21323.91016	5.4	8	276	100	170	100	63	100	6.08	106	4	WP 06	06.3 P040300_StaphAureus Run	Q618A	754
2068	WP 110332	3	32	1 (KINase) Uridylate kinase (EC 2.7.4.-) (UK) (Uridine 5-phosphatase kinase) (Ump kinase)	KGUA_STAAM	Q9BU09	24064.25	5.5	4	86	91	42	100	42	100	2.58	44	1	WP 11	11.3 P040316_StaphAureus Run	P040316_JV_1132C	709
2072	WP 090277	2	77	1 (KINase) SAU74 protein (ABC transporter ATP-binding protein homolog) (MW0795 protein)	PYRH_STAAM	Q9BUL3	26299.48023	6.0	16	364	100	254	100	113	100	48.9	130	3	WP 09	09.2 P04315_StaphAureus run 2-3H7	Q977B	706
2073	WP 030332	3	32	1 (KINase) Deoxyribose-phosphate aldolase 2 (EC 4.1.2.4) (Phosphodeoxyribaldolase 2)	Q9BVG3_STAAM	Q9BVG3	28257.34981	4.9	14	246	100	130	100	79	100	44.6	116	2	WP 03	03.3 P040304_StaphAureus Run	Q332C	771
2075	WP 090257	2	57	1 (KINase) Adenylylase (EC 2.7.4.3) (ATP-AMP transferase) 2-(transphosphorylase)	DECC2_STAAM	Q9BSC2	23440.89063	4.7	10	362	100	260	100	102	100	16.9	102	3	WP 09	09.2 P04315_StaphAureus run 2-3G7	Q957B	707
2075	WP 090257	2	57	1 (KINase) Adenylylase (EC 2.7.4.3) (ATP-AMP transferase) 2-(transphosphorylase)	KAD_STAAM	Q9BS40	24130.32031	4.8	13	195	100	44	100	44	100	8.02	151	1	WP 09	09.2 P04315_StaphAureus run 2-3G7	Q957B	707
2075	WP 090257	2	57	1 (KINase) Adenylylase (EC 2.7.4.3) (ATP-AMP transferase) 2-(transphosphorylase)	DECC1_STAAM	Q9BXT7	23571.91016	4.7	8	75	100	0	0	11.8	75	0	0	0	WP 09	09.2 P04315_StaphAureus run 2-3G7	Q957B	707
2077	WP 030372	3	72	1 (DHFR) Phosphoribosylaminoimidazole-succinocarboxamide synthase (EC 6.3.2.6)	DAPP_STAAM	Q9BU88	26709.78906	5.2	7	106	100	8	63	6	40	3.98	98	2	WP 03	03.3 P040304_StaphAureus Run	Q372C	764
2078	WP 090219	2	19	1 (KINase) SAU74 protein (ABC transporter ATP-binding protein homolog) (MW0795 protein)	PUR7_STAAM	Q9BV31	26730.01953	5.3	15	405	100	203	100	91	100	18.8	202	3	WP 03	03.3 P040304_StaphAureus Run	Q319B	762
2079	WP 110279	2	79	2 (KINase) Cyclic diphosphate transferase (EC 2.7.60) (4-conserved hypothetical protein (Hypothetical protein SAV0255))	SPD1_STAAM	Q9BWX2	26815.05078	5.7	7	159	50	122	100	122	100	11.9	37	1	WP 11	11.2 P040316_StaphAureus Run	P040316_JV_1179B	713
2079	WP 110279	2	79	2 (KINase) Cyclic diphosphate transferase (EC 2.7.60) (4-conserved hypothetical protein (Hypothetical protein SAV0255))	SPD2_STAAM	Q9BWW9	26687.0293	5.4	19	392	100	208	100	122	100	61.4	194	3	WP 11	11.2 P040316_StaphAureus Run	P040316_JV_1179B	713
2080	WP 150315	3	15	1-Hypothetical protein SAV2130 Adenylylase (EC 2.7.4.3) (ATP-AMP transferase) 2-(transphosphorylase) 1 (EC 4.1.2.4) (Phosphodeoxyribaldolase 1)	Q9BSC3_STAAM	Q9BSC3	29121.559	8	195	100	144	100	50	100	13.2	51	5	WP 15	15.3 P050415_C_StaAur	P050412_JV_1515C	904	
2081	WP 090278	2	78	1 (KINase) Adenylylase (EC 2.7.4.3) (ATP-AMP transferase) 2-(transphosphorylase) 1 (EC 4.1.2.4) (Phosphodeoxyribaldolase 1)	DECC1_STAAM	Q9BXT7	23571.91016	4.7	15	615	100	425	100	113	100	52	190	4	WP 09	09.2 P04315_StaphAureus run 2-3D8	Q978B	711
2081	WP 090278	2	78	2 (KINase) Adenylylase (EC 2.7.4.3) (ATP-AMP transferase) 2-(transphosphorylase) 2	DECC2_STAAM	Q9BSC2	23440.89063	4.7	13	159	100	0	0	37.6	158	0	0	0	WP 09	09.2 P04315_StaphAureus run 2-3D9	Q978B	711

2083 WP_090258	2	58	Elongation factor Tu (EF-Tu)	Q9R861	EFTU_STAAM	43133.62108	4.7	13	434	100	302	100	95	100	27.1	132	4 Mox	WP_09	09_2 PM4315_StaphAureus run 2-3 C8	F8	WP 11 F8	PM40315_JV_11398	715
2084 WP_110239	2	39	Hypothetical protein SAV2523 (MW2443)	Q9R862	STAAAM	25415.65038	5.5	13	290	100	126	100	77	100	24	164	3 Mox	WP 11	11_1 PM4316_StaphAureus Run	F8	WP 11 F8	PM40316_JV_11398	705
2085 WP_030259	2	59	1-diphosphocofactor	Q9R862	STAAAM	26615.05078	5.7	8	133	100	0	0	0	0	4.87	133	0 Mox	WP 03	03_2 PM4304_StaphAureus Run	G8	WP 03 G8	PM40303_JV_0359B	761
2087 WP_030374	3	74	2-C-methyl-D-erythritol 4-phosphate cytochrome b5 reductase (EC 2.7.7.40) (4-epidiphosphocofactor)	Q9R861	STAAAM	25948.83894	4.9	10	183	100	85	100	69	100	30.7	96	2 Mox	WP 03	03_3 PM4304_StaphAureus Run	D10	WP 03 D10	PM40303_JV_0374C	785
2088 WP_030279	2	79	Adenylate kinase (EC 2.7.4.3) (ATP-AMP 1-phosphotransferase)	Q9R872	STAAAM	27221.34961	6.2	16	395	100	214	100	93	100	25.1	181	4 Mox	WP 03	03_3 PM4304_StaphAureus Run	H8	WP 03 H8	PM40303_JV_0374C	763
2089 WP_090239	2	39	1-(5-phosphoribosyl)-5-[(5-phosphoribosylamino)methylideneamino]imidazole-4-carboxamide	Q9R850	STAAAM	24130.32031	4.8	18	449	100	278	100	108	100	58.8	171	4 Mox	WP 09	09_2 PM4315_StaphAureus run 2-3 F8	F8	WP 09 F8	PM40315_JV_0939B	727
2090 WP_030374	3	14	1-phosphoribosylamino(methylideneamino)imidazole-4-carboxamide	Q9R877	STAAAM	25187.30078	5.2	6	99	100	13	91	91	3.01	86	1 Mox	WP 03	03_3 PM4304_StaphAureus Run	A10	WP 03 A10	PM40303_JV_0374C	769	
2092 WP_030352	3	52	Hypothetical protein SAV0717 (SA0774 protein (ABC transporter ATP-binding protein homologue) (MW0795))	Q9R865	STAAAM	27193.19386	6.2	5	82	100	0	0	0	1.53	82	0 Mox	WP 03	03_3 PM4304_StaphAureus Run	C9	WP 03 C9	PM40303_JV_0352C	766	
2093 WP_090219	2	19	Hypothetical protein SAV1137 (MW1020)	Q9R863	STAAAM	28257.34961	4.9	6	136	100	61	100	53	100	7.08	75	2 Mox	WP 09	09_2 PM4315_StaphAureus run 2-3 E8	F8	WP 09 E8	PM40315_JV_0919B	721
2094 WP_090218	2	18	Hypothetical protein SAV0756 (Hypothetical protein MW0718)	Q9R867	STAAAM	26897.86058	5.2	4	135	0	114	100	59	100	10	21	2 Mox	WP 09	09_2 PM4315_StaphAureus run 2-3 A8	F8	WP 09 A8	PM40315_JV_0919B	718
2095 WP_030353	3	33	Hypothetical protein SAV03386	Q9R822	STAAAM	25802.38914	5.8	5	80	100	0	0	0	10.4	80	0 Mox	WP 03	03_3 PM4304_StaphAureus Run	F9	WP 03 F9	PM40303_JV_0333C	767	
2096 WP_090259	2	59	Hypothetical protein SAV0556 (MW0511)	Q9R863	STAAAM	26326.84961	5.0	8	219	100	124	100	81	100	18.6	95	3 Mox	WP 09	09_2 PM4315_StaphAureus run 2-3 G8	F8	WP 09 G8	PM40315_JV_0959B	722
2097 WP_090477	4	77	Hypothetical protein SAV0457 (Cytolysin kinase (EC 2.7.4.14) (CK))	Q9R865	STAAAM	27552.69922	5.3	12	464	100	349	100	120	100	23.4	115	4 Mox	WP 06	06_1 PM4308_StaphAureus Run	H3	WP 06 H3	PM40308_JV_0677A	775
2098 WP_030315	3	15	Cytidine monophosphate kinase (CMP)	Q9R812	STAAAM	24636.66016	5.1	10	264	100	104	100	51	100	54.4	160	3 Mox	WP 03	03_3 PM4304_StaphAureus Run	E10	WP 03 E10	PM40303_JV_0315C	787
2099 WP_090279	2	79	Hypothetical protein SAV0756 (Hypothetical protein MW0718)	Q9R819	STAAAM	25688.07031	5.1	7	339	100	266	100	103	100	15.6	73	4 Mox	WP 09	09_2 PM4315_StaphAureus run 2-3 H8	F8	WP 09 H8	PM40315_JV_0979B	725
2103 WP_030313	3	13	Hypothetical protein SAV2324 (MW2245)	Q9R819	STAAAM	28923.88086	5.9	6	118	100	17	96	12	88	2.52	101	2 Mox	WP 03	03_3 PM4304_StaphAureus Run	E9	WP 03 E9	PM40303_JV_0315C	769
2109 WP_060438	4	38	1-Redox-sensing transcriptional repressor re:REX	P60385	STAAAM	23584.44922	5.4	16	412	100	147	100	99	100	35.7	285	4 Mox	WP 06	06_1 PM4308_StaphAureus Run	B4	WP 06 B4	PM40308_JV_0638A	784
2111 WP_110312	3	12	Hypothetical protein SAV1614 (Transcription TN554 (SA2383 protein) (SA0767 protein) (SA1479 protein) (SA1956))	Q9R875	STAAAM	24469.59661	5.4	11	287	100	175	100	96	100	20.3	112	2 Mox	WP 11	11_1 PM4316_StaphAureus Run	A9	WP 11 A9	PM40316_JV_1112C	732
2112 WP_090312	3	12	Hypothetical protein SAV0527 (Hypocotyl protein)	Q48383	STAAAM	25594.89845	5.1	12	386	100	234	100	77	100	29.2	132	4 Mox	WP 09	09_3 PM4315_StaphAureus run 2-3 A9	F9	WP 09 A9	PM40315_JV_0912C	735
2112 WP_090312	3	12	Hypothetical protein SAV0550 (Nuk protein (Adenylate dehydrogenase (SA0767 protein) (SA1479 protein) (SA1956))	Q9R808	STAAAM	25854.83894	5.1	12	132	100	0	0	28.6	132	0 Mox	WP 09	09_3 PM4315_StaphAureus run 2-3 A9	F9	WP 09 A9	PM40315_JV_0912C	735		
2113 WP_090332	3	32	1-KDP conon transcriptional regulatory protein KdrE	Q9R854	STAAAM	59883.87813	5.1	10	397	100	308	100	93	100	16.7	88	4 Mox	WP 09	09_3 PM4315_StaphAureus run 2-3 B9	F9	WP 09 B9	PM40315_JV_0912C	742
2117 WP_090352	3	52	1-OMP/DCase (OMP/DCase)	Q9R874	STAAAM	25660.34961	5.9	8	137	100	16	96	14	94	8	121	2 Mox	WP 09	09_3 PM4315_StaphAureus run 2-3 C9	F9	WP 09 C9	PM40315_JV_0952C	736
2120 WP_110374	3	14	1-Recombination protein reB	Q9R837	STAAAM	23983.92968	5.0	3	80	0	47	100	35	100	14.3	33	2 Mox	WP 11	11_1 PM4316_StaphAureus Run	D10	WP 11 D10	PM40316_JV_1114C	741
2121 WP_110374	3	74	1-Recombination protein reB	Q9R823	STAAAM	22373.25977	5.0	5	159	100	88	100	49	100	9.42	71	2 Mox	WP 11	11_1 PM4316_StaphAureus Run	D10	WP 11 D10	PM40316_JV_1114C	739
2122 WP_030375	3	75	1-Protein KdrE	Q9R877	STAAAM	26606.93945	6.1	7	145	100	47	100	25	98	6.98	98	2 Mox	WP 03	03_3 PM4304_StaphAureus Run	H10	WP 03 H10	PM40303_JV_0375C	792
2125 WP_060436	4	36	Hypothetical protein SAV0784	Q9R824	STAAAM	22943.55078	5.0	9	178	100	96	100	61	100	14.4	82	2 Mox	WP 06	06_1 PM4308_StaphAureus Run	B3	WP 06 B3	PM40308_JV_0638A	796
2125 WP_060436	4	36	Hypothetical protein SAV2614 (Hypothetical protein MW2533)	Q9R823	STAAAM	21859.88914	5.2	10	162	100	72	100	47	100	24.8	90	2 Mox	WP 06	06_1 PM4308_StaphAureus Run	B3	WP 06 B3	PM40308_JV_0638A	796
2134 WP_160373	3	73	1-SAV1707/SA1629	Q9R876	STAAAM	25349.51111	6.83	104	693	100	608	100	146	100	54.3	74	5 Mox+NAc	WP 15	15_3 PM50415_C_StaAur	H9	WP 15 H9	PM40315_JV_1573C	830
2139 WP_090372	3	72	1-Hypothetical protein SAV1223	Q9R865	STAAAM	23926.57031	5.9	5	119	100	45	100	45	100	5.32	74	1 Mox	WP 09	09_3 PM4315_StaphAureus run 2-3 D9	F9	WP 09 D9	PM40315_JV_0972C	746
2143 WP_030377	3	77	1-Synthase I (EC 6.3.3) (FGAM synthase I)	Q9R829	STAAAM	24769.25977	5.0	7	132	100	33	100	25	98	8.07	96	2 Mox	WP 03	03_3 PM4304_StaphAureus Run	H11	WP 03 H11	PM40303_JV_0375C	810
2145 WP_030316	3	16	1-Holliday junction DNA helicase nuA (3-oxoacyl-Hcy carrier protein) nuclease (EC 1.1.1.100) (3-oxoacyl-Hcy carrier protein)	Q9R811	STAAAM	22267.75977	5.9	10	294	100	161	100	79	100	16.7	133	3 Mox	WP 03	03_3 PM4304_StaphAureus Run	A11	WP 03 A11	PM40315_JV_0316C	788
2147 WP_110278	2	78	2-Protein	Q9R877	STAAAM	26186.4707	5.6	4	75	14	40	100	40	100	6.95	35	1 Mox	WP 11	11_2 PM4316_StaphAureus Run	D8	WP 11 D8	PM40316_JV_1178B	752
2148 WP_160354	3	54	1-Two-component response regulator	Q9R877	STAAAM	22544.54718	5.7	18	573	100	387	100	108	100	56.0	186	5 Mox+NAc	WP 15	15_3 PM50415_C_StaAur	C10	WP 15 C10	PM50412_JV_1554C	951
2150 WP_090313	3	13	Hypothetical protein SAV2478	Q9R865	STAAAM	24562.81055	5.1	8	165	100	66	100	40	100	14.5	99	3 Mox	WP 09	09_3 PM4315_StaphAureus run 2-3 E9	F9	WP 09 E9	PM40315_JV_0913C	759
2150 WP_090313	3	13	2-Kamline phosphotransferase (Uridine kinase (EC 2.7.1.48)) (Uridine monophosphokinase) (Cytidine)	Q9R871	STAAAM	20984.89063	5.1	7	101	100	19	97	19	97	5.33	82	1 Mox	WP 09	09_3 PM4315_StaphAureus run 2-3 E9	F9	WP 09 E9	PM40315_JV_0913C	759
2151 WP_090333	3	33	1-Protein MW1944	Q9R878	STAAAM	22490.11914	5.8	9	428	100	309	100	115	100	34.3	119	4 Mox	WP 09	09_3 PM4315_StaphAureus run 2-3 F9	F9	WP 09 F9	PM40308_JV_0930B	757
2152 WP_060458	4	58	1-Protein MW1944	Q9R878	STAAAM	22620.40038	5.3	10	226	100	123	100	69	100	13.5	103	2 Mox	WP 06	06_1 PM4308_StaphAureus Run	C4	WP 06 C4	PM40308_JV_0638A	806
2152 WP_060458	4	58	230S ribosomal protein S4	Q9R874	STAAAM	22999.2207	10.0	9	79	100	0	0	0	3.32	79	0 Mox	WP 06	06_1 PM4308_StaphAureus Run	C4	WP 06 C4	PM40308_JV_0638A	806	
2154 WP_110315	3	15	Hypothetical protein SAV2144 (Hypothetical protein MW2088)	Q9R865	STAAAM	24057.24023	5.0	14	388	100	221	100	138	100	54.9	167	3 Mox	WP 11	11_1 PM4316_StaphAureus Run	E10	WP 11 E10	PM40316_JV_1115C	756

215	WP 093378	3	76	Hypothetical protein SAV0557	Q9W62	Q9W62	24205.18645	4.9	5	159	100	96	100	65	100	6.26	63	2	Mox	WP 03	D12	03.3 P040304_ StaphAureus Run	P040303_VJ_824
216	WP 093389	3	58	Hypothetical protein SAV0570	Q9W69	Q9W69	22478.68945	4.6	5	129	100	48	100	36	100	4.83	81	2	Mox	WP 03	C12	03.3 P040304_ StaphAureus Run	P040303_VJ_823
217	WP 093373	3	73	Hypothetical protein SAV1620	Q9W69	Q9W69	20815.8707	4.7	4	111	99	57	100	32	100	2.32	54	2	Mox	WP 09	H8	09.3P04315_ StaphAureus run 2-3	P040315_VJ_755
218	WP 110219	2	19	Hypothetical protein SAV2645 (MW2866 protein)	Q9W23	Q9W23	29783.83984	5.4	11	440	100	31	100	133	100	54.5	127	3	Mox	WP 11	E8	11.2 P040316_ StaphAureus Run	P040316_VJ_761
219	WP 093359	3	53	Hypothetical protein SAV2320 (MW2241 protein)	Q9WV3	Q9WV3	23611.84681	4.8	6	144	100	64	100	52	100	6.23	80	2	Mox	WP 09	G9	09.3P04315_ StaphAureus run 2-3	P040315_VJ_762
220	WP 110335	3	35	Xanthine phosphoribosyltransferase (EC 1.1.1.100) (3-ketoadenyl carrier protein)	Q9WU1	Q9WU1	20984.89063	5.1	13	407	100	288	100	147	100	55.3	109	3	Mox	WP 11	F10	11.3 P040316_ StaphAureus Run	P040316_VJ_766
221	WP 060459	4	59	Hypoxanthine-guanine phosphoribosyltransferase (EC 2.4.2.8) (HGPRT) (HGPRT-like)	Q9WU7	Q9WU7	26186.4707	5.6	19	746	100	554	100	212	100	59.5	192	4	Mox	WP 06	G4	06.1 P040308_ StaphAureus Run	P040308_VJ_817
222	WP 110355	3	55	Xanthine phosphoribosyltransferase	Q9W83	Q9W83	20255.56055	5.1	16	670	100	496	100	142	100	66.6	174	4	Mox	WP 11	G10	11.3 P040316_ StaphAureus Run	P040316_VJ_767
223	WP 110355	3	55	Xanthine phosphoribosyltransferase	Q9WU1	Q9WU1	20984.89063	5.1	12	108	100	0	0	9.57	108	0	Mox	WP 11	G10	11.3 P040316_ StaphAureus Run	P040316_VJ_767		
224	WP 093399	3	39	Tripartite protein (1-wc-component response regulator homology)	Q9W30	Q9W30	23884.44922	5.5	7	122	100	0	0	2.49	122	0	Mox	WP 03	F12	WP 03	F12	03.3 P040304_ StaphAureus Run	P040303_VJ_819
225	WP 093354	3	54	Hypothetical protein SAV2553	Q9R83	Q9R83	21978.18922	5.1	5	85	96	37	100	37	100	2.86	46	1	Mox	WP 09	C10	09.3P04315_ StaphAureus run 2-3	P040315_VJ_765
226	WP 093354	3	54	Hypothetical protein SAV2089	Q9R83	Q9R83	24736.23047	5.2	14	204	100	33	100	19	97	10.8	171	2	Mox	WP 09	C10	09.3P04315_ StaphAureus run 2-3	P040315_VJ_765
227	WP 190332	3	32	Synthetase homolog (MM1685 protein)	Q9W22	Q9W22	21790.477	15	383	100	298	100	88	100	36.9	125	6	Mox-N:Ac	WP 15	B9	15.3 P050415_C_ StabAur	P050412_VJ_875	
228	WP 093359	3	59	GTP pyrophosphokinase	Q9W11	Q9W11	25278.93945	6.2	6	130	100	33	100	33	100	3.91	97	1	Mox	WP 03	G12	03.3 P040304_ StaphAureus Run	P040303_VJ_827
229	WP 093374	3	74	Peptide release factor	Q9W11	Q9W11	21745.9707	6.1	7	83	100	8	65	8	66	11.7	75	1	Mox	WP 09	D10	09.3P04315_ StaphAureus run 2-3	P040315_VJ_771
230	WP 110334	3	34	1(Ribosome releasing factor) (RRF)	Q9W11	Q9W11	20340.58008	5.0	13	434	100	305	100	147	100	59	129	3	Mox	WP 11	B10	11.3 P040316_ StaphAureus Run	P040316_VJ_777
231	WP 040432	4	32	IRNA (guanine-N7)-methyltransferase (EC 2.1.1.33) (RNMT/G46)	Q9WV4	Q9WV4	21605.4707	4.6	7	338	100	254	100	125	100	14.8	84	4	Mox	WP 04	B1	04.1 P040304_ StaphAureus Run	P040303_VJ_845
232	WP 190316	3	16	Proteinase subtilisin-like	Q9W11	Q9W11	25332.615	8	374	100	314	100	112	100	16.3	60	5	Mox-N:Ac	WP 15	A11	15.3 P050415_C_ StabAur	P050412_VJ_1000	
233	WP 093375	3	75	adenyltransferase (EC 2.7.7.18) (Diamidopyrophosphatase)	Q9W05	Q9W05	22146.14063	5.6	7	174	100	62	100	21	96	7.2	112	4	Mox	WP 09	H10	09.3P04315_ StaphAureus run 2-3	P040315_VJ_776
234	WP 060419	4	19	Hypothetical protein SAV1040	Q9W53	Q9W53	21514.98047	5.4	13	406	100	196	100	72	100	13	210	3	Mox	WP 06	E4	06.1 P040308_ StaphAureus Run	P040308_VJ_835
235	WP 093379	3	79	Uracil phosphoribosyltransferase (EC 2.8.1.1) (UPR) (UPR-pyrophosphorylase)	Q9W53	Q9W53	23992.24023	6.1	17	511	100	292	100	137	100	57.3	219	4	Mox	WP 03	H12	03.3 P040304_ StaphAureus Run	P040303_VJ_832
236	WP 093355	3	55	Pyrimidine operon regulatory protein; Uracil phosphor	Q9W50	Q9W50	19842.56055	5.2	12	222	100	24	99	17	94	20.2	198	2	Mox	WP 09	G10	09.3P04315_ StaphAureus run 2-3	P040315_VJ_782
237	WP 040473	4	73	Acetyl-CoA carboxylase biotin carboxyl carrier subunit	Q9W76	Q9W76	17167.65086	4.5	5	121	100	52	100	52	100	4.94	69	1	Mox	WP 04	H1	04.1 P040304_ StaphAureus Run	P040303_VJ_849
238	WP 060457	4	57	15-ketoreductase (MifE) [EC 1.1.1.15]	Q9W82	Q9W82	20926.34981	5.3	14	403	100	246	100	113	100	24.2	137	4	Mox	WP 06	G3	06.1 P040308_ StaphAureus Run	P040308_VJ_846
239	WP 040452	4	52	Peptide deformylase (EC 3.5.1.48) (PDF)	Q9W44	Q9W44	20602.65038	5.8	15	609	100	369	100	131	100	36.9	240	4	Mox	WP 04	C1	04.1 P040304_ StaphAureus Run	P040303_VJ_837
240	WP 090314	3	14	Hypothetical protein SAV0520	Q9WU7	Q9WU7	17673.14063	4.7	8	248	100	158	100	103	100	13.5	90	3	Mox	WP 09	A10	09.3P04315_ StaphAureus run 2-3	P040315_VJ_775
241	WP 093335	3	35	Hypothetical protein SAV0475	Q9W83	Q9W83	20759.93945	5.7	13	395	100	218	100	89	100	39	177	4	Mox	WP 09	F10	09.3P04315_ StaphAureus run 2-3	P040315_VJ_788
242	WP 040414	4	14	1-hydroxyphenylacetate reductase subunit C (EC 1.1.1.4)	Q9W47	Q9W47	21134.55078	4.9	11	330	100	206	100	125	100	27.2	124	3	Mox	WP 04	A2	04.1 P040304_ StaphAureus Run	P040303_VJ_856
243	WP 090316	3	16	AKV1 hydroperoxide reductase subunit C (EC 1.6.4.-)	Q9W47	Q9W47	21134.55078	4.9	6	232	100	167	100	143	100	13.3	65	2	Mox	WP 09	A11	09.3P04315_ StaphAureus run 2-3	P040315_VJ_790
244	WP 090316	3	16	2-protein (MM1771)	Q9W45	Q9W45	21456.44922	4.7	8	92	100	6	63	9	63	8.19	83	1	Mox	WP 09	A11	09.3P04315_ StaphAureus run 2-3	P040315_VJ_790
245	WP 090316	3	16	Ung	Q9W30	Q9W30	25062.69338	6.2	10	312	100	188	100	73	100	26.8	124	4	Mox	WP 09	B11	09.3P04315_ StaphAureus run 2-3	P040315_VJ_794
246	WP 190334	3	34	Hypothetical protein SAV1854 (Hypothetical protein MW1785)	Q9W74	Q9W74	22330.533	23	785	100	600	165	100	77.4	197	6	Mox-N:Ac	WP 15	B10	15.3 P050415_C_ StabAur	P050412_VJ_894		
247	WP 190155	1	55	Hypothetical protein SAV1854 (Hypothetical protein MW1785)	Q9W74	Q9W74	22330.533	26	799	100	584	100	148	100	65.1	235	6	Mox-N:Ac	WP 16	G2	16.1 P050419_VJ_A_ StabAur	P050419_VJ_801	
248	WP 040435	4	35	Hypothetical protein SAVP908	Q9W28	Q9W28	25392.59961	4.8	1	30	100	30	100	0	0	0	0	1	Mox	WP 04	F2	04.1 P040304_ StaphAureus Run	P040303_VJ_863
249	WP 040434	4	34	Hypothetical protein SAV17763 (Hypothetical protein MW1704)	Q9W74	Q9W74	21093.92969	5.9	2	91	100	57	100	0	0	0	0	2	Mox	WP 04	B2	04.1 P040304_ StaphAureus Run	P040303_VJ_862
250	WP 060454	4	54	Immunocomponent staphylococcal antigen A precursor	Q9W69	Q9W69	24188.42968	5.9	1	31	100	31	100	0	0	0	0	1	Mox	WP 06	C2	06.1 P040308_ StaphAureus Run	P040308_VJ_858
251	WP 110352	3	52	Hypothetical protein SAV1472 (MW1381 protein)	Q9W18	Q9W18	22201.18922	5.3	9	415	100	306	100	149	100	15.7	109	3	Mox	WP 11	C9	11.3 P040316_ StaphAureus Run	P040316_VJ_797
252	WP 110354	3	54	ATP-dependent Clp protease proteolytic subunit (EC 3.4.21.3)	Q9W49	Q9W49	21557.11914	5.1	7	316	100	238	100	85	100	61.8	77	4	Mox	WP 11	C10	11.3 P040316_ StaphAureus Run	P040316_VJ_802
253	WP 093356	3	56	1-isomerase homologue (MM0836 protein)	Q9WV4	Q9WV4	21605.4707	4.6	5	112	100	46	100	46	100	4.74	66	1	Mox	WP 09	C11	09.3P04315_ StaphAureus run 2-3	P040315_VJ_801
254	WP 190133	1	33	Acetyl-CoA carboxylase biotin carboxyl carrier subunit	Q9W76	Q9W76	17168.452	1	57	100	46	99.9	46	99.9	6.29	11	1	Mox-N:Ac	WP 16	F1	16.1 P050419_VJ_A_ StabAur	P050419_VJ_821	

2243	WIP 060416	4	16	Elongation factor Tu (EF-Tu)	Q9W861	EFTU_STAAM	Q9W861	43133.62108	4.7	5	153	99	88	100	84	100	5.59	55	2	Mox	WP 04	A3	P040303_VJ_873
2245	WIP 110333	3	33	Formyl transferase 5 (Fty) (EC 2.3.1.3)	Q9W868	ISDR_STAAM	Q9W868	21004.63086	5.0	3	70	44	34	100	34	100	7.32	36	1	Mox	WP 11	F9	P040316_VJ_809
2250	WIP 060473	4	73	Hypothetical protein SAV1015 (Hypothetical protein MW0896)	Q9W877	STAAAM	Q9W877	19314.88063	4.9	11	382	100	247	100	104	100	39.8	135	4	Mox	WP 06	H1	P040308_VJ_879
2252	WIP 060478	4	78	Hypothetical protein SAV0680	Q9W8V1	STAAAM	Q9W8V1	20989.41016	5.2	6	187	98	136	100	53	100	25.2	51	3	Mox	WP 06	D4	P040308_VJ_870
2260	WIP 060439	4	39	Hypothetical protein SAV0532	Q9W8V7	STAAAM	Q9W8V7	20264.13086	5.4	7	134	100	42	100	22	98	8.64	92	3	Mox	WP 06	F4	P040308_VJ_875
2261	WIP 060577	5	77	Elongation factor Tu (EF-Tu)	Q9W861	EFTU_STAAM	Q9W861	43133.62108	4.7	7	145	100	77	100	46	100	2.94	68	2	Mox	WP 06	H7	P040315_VJ_882
2263	WIP 090376	3	76	Transcription antitermination protein nusG	Q9W836	NUSG_STAAM	Q9W836	20656.68992	5.1	14	479	100	372	100	229	100	39.8	107	3	Mox	WP 09	D11	WP 09 D11
2263	WIP 090376	3	76	Hypothetical protein SAV1929 (Hypothetical protein MW1970)	Q9W8V9	STAAAM	Q9W8V9	21659.05078	5.2	17	182	100	44	100	44	100	18	138	1	Mox	WP 09	D11	WP 09 D11
227	WIP 040439	4	39	Hypothetical protein SAV0171 (MW0145) (Hypothetical protein)	Q9W8X0	STAAAM	Q9W8X0	19415.81055	4.7	3	71	21	36	100	36	100	1.59	35	1	Mox	WP 04	F4	P040303_VJ_889
227	WIP 040512	5	12	PTS system, glucose-specific enzyme II, A component (Glucose-specific enzyme II, IPTS syte)	Q9W8U5	PTGA_STAAM	Q9W8U5	17949.28906	4.5	7	336	100	240	100	108	100	26.4	96	3	Mox	WP 04	A5	P040303_VJ_899
228	WIP 110373	3	73	Single-strand DNA-binding protein of phage phi PV1 (Single-strand DNA-binding protein phi PV1)	Q9W8L1	STAAAM	Q9W8L1	18641.96904	5.0	11	328	100	177	100	90	100	37.5	151	3	Mox	WP 11	H9	P040316_VJ_828
228	WIP 060414	4	14	Protein methionine sulfoxide reductase msrA 1 (EC 1.8.4.6) (Protein-methionine-S-2oxide red)	Q9RQD5	MSRA1_STAAM	Q9RQD5	19712.51953	5.1	6	174	100	112	100	112	100	11.8	62	1	Mox	WP 06	A2	P040308_VJ_893
228	WIP 060414	4	14	Hypothetical protein SAV2510	Q9RRC5	STAAAM	Q9RRC5	19546.28906	5.0	10	410	100	296	100	142	100	24.3	114	3	Mox	WP 06	A2	P040308_VJ_893
229	WIP 040459	4	59	ATP-dependent protease hslV (EC 3.4.25. HSLV) (Hypothetical protein)	Q9RUL8	STAAAM	Q9RUL8	19617.99691	5.8	5	204	100	144	100	80	100	20.2	60	3	Mox	WP 04	G4	P040303_VJ_892
229	WIP 040479	4	79	Dihydrofolate reductase type I (EC 1.5.1.3) (Hypothetical protein)	P10167	STAAAM	P10167	19108.40039	5.9	7	225	100	127	100	81	100	11.5	98	2	Mox	WP 04	H4	P040303_VJ_887
230	WIP 040553	5	53	Hypothetical protein SAV1710 (Hypothetical protein MW1653)	Q9RIF3	STAAAM	Q9RIF3	18520.51953	5.6	13	585	100	436	100	130	100	60.4	149	4	Mox	WP 04	G5	P040303_VJ_803
230	WIP 090357	3	57	Hypothetical protein SAV0342	Q9RWN5	STAAAM	Q9RWN5	20956.55078	5.6	4	98	99	44	100	30	100	5.6	54	2	Mox	WP 09	G11	P040315_VJ_844
231	WIP 040514	5	14	ATP synthase delta chain (EC 3.6.3.14) (Hypothetical protein)	Q9R5F2	STAAAM	Q9R5F2	20457.75	6.2	9	201	100	38	100	28	100	5.55	163	2	Mox	WP 04	A6	P040303_VJ_805
231	WIP 040534	5	34	Hypothetical protein SAV2369	Q9RRC8	STAAAM	Q9RRC8	20056.67968	5.0	8	78	100	0	0	0	0	5.78	78	0	Mox	WP 04	B6	P040303_VJ_914
231	WIP 060652	6	52	IA-TP synthase delta chain (EC 3.6.3.14) (Hypothetical protein)	Q9R5F2	STAAAM	Q9R5F2	20457.75	6.2	13	486	100	358	100	108	100	64.6	128	4	Mox	WP 06	C9	P040308_VJ_909
231	WIP 060424	4	34	Alkaline shock protein 23	Q52485	STAAAM	Q52485	19179.67968	5.1	11	345	100	245	100	92	100	48.5	100	3	Mox	WP 06	B2	P040308_VJ_916
232	WIP 060447	4	17	Alkaline shock protein 23	ASP23	STAAAM	ASP23	19179.67968	5.1	6	110	100	24	98	228	86	1	Mox	WP 06	B2	P040308_VJ_916		
232	WIP 060475	4	75	Galactose-6-phosphate isomerase lacB (Subunit) (EC 5.3.1.26) (Hypothetical protein)	Q9R575	LACB_STAAM	Q9R575	19140.59961	5.5	9	305	100	207	100	88	100	13.1	98	4	Mox	WP 06	H2	P040308_VJ_912
232	WIP 040515	5	15	Hypothetical protein SAV1893 (MW1834) (Hypothetical protein)	Q9R523	STAAAM	Q9R523	19633.30078	4.7	14	487	100	289	100	122	100	54.6	198	4	Mox	WP 04	E6	P040303_VJ_921
233	WIP 060437	4	37	Hypothetical protein SAV1893 (MW1834) (Hypothetical protein)	Q9R5K0	STAAAM	Q9R5K0	17576.92968	5.0	7	287	100	176	100	75	100	7.06	111	3	Mox	WP 06	F3	P040315_VJ_919
233	WIP 090318	3	18	Hypothetical protein SAV2052	P92080	STAAAM	P92080	16659.2207	5.4	7	168	100	51	100	37	100	13.2	117	2	Mox	WP 09	A12	P040303_VJ_854
233	WIP 040556	5	56	Transcription elongation factor ORF3 (SAV1054/SA0906/MW0937) (ORF3) (Transcript cleavage factor grea) (Hypothetical protein)	Q9R7N9	STAAAM	Q9R7N9	17391.90039	4.5	9	376	100	248	100	127	100	17.9	128	3	Mox	WP 04	C7	P040303_VJ_930
234	WIP 090339	3	39	Transcription elongation factor grea (Transcription elongation factor grea) (Hypothetical protein)	Q9R7N9	STAAAM	Q9R7N9	17391.90039	4.5	11	513	100	377	100	181	100	40.8	136	4	Mox	WP 09	B12	P040315_VJ_860
234	WIP 040537	5	37	Hypothetical protein SAV1153 (Hypothetical protein MW1035)	Q9RUV4	STAAAM	Q9RUV4	19391.26953	5.2	5	118	100	18	95	18	95	4.38	100	1	Mox	WP 04	F7	P040303_VJ_931
234	WIP 040517	5	17	Molybdenum cofactor biosynthesis protein BMOAB (Galactose-6-phosphate isomerase lacB subunit) (EC 5.3.1.26) (Hypothetical protein)	Q9RZ72	STAAAM	Q9RZ72	19529.94922	5.6	7	233	100	113	100	51	100	27.7	120	4	Mox	WP 04	E7	P040303_VJ_927
234	WIP 040575	5	75	Hypothetical protein SAV1893 (MW1834) (Hypothetical protein)	Q9R575	LACB_STAAM	Q9R575	19140.59961	5.5	14	597	100	461	100	147	100	68.8	136	4	Mox	WP 04	H6	P040315_VJ_926
234	WIP 090339	3	39	Hypothetical protein SAV1893 (MW1834) (Hypothetical protein)	Q9R523	STAAAM	Q9R523	19633.30078	4.7	7	200	100	100	100	48	100	11.6	100	3	Mox	WP 09	F12	P040303_VJ_864
234	WIP 040577	5	77	Hypothetical protein SAV1718	Q9RTE5	STAAAM	Q9RTE5	17256.83008	5.0	6	121	100	0	0	0	0	4.17	121	0	Mox	WP 04	H7	P040303_VJ_936
235	WIP 040539	5	39	Protein mraZ	Q9RUV2	STAAAM	Q9RUV2	17340.49047	4.8	5	94	100	0	0	0	0	2.6	94	0	Mox	WP 04	F8	P040303_VJ_940
235	WIP 040518	5	18	Hypothetical protein SAV0632 (Hypothetical protein SAV0657) (Hypothetical protein MW0619)	Q9RUV0	STAAAM	Q9RUV0	19402.21094	5.1	4	116	99	66	100	50	100	5	56	2	Mox	WP 04	A8	P040303_VJ_935
235	WIP 040559	5	59	Hypothetical protein SAV1124 (Hypothetical protein MW1006)	Q9RUV4	STAAAM	Q9RUV4	19337.91982	5.9	6	226	100	111	100	54	100	5.04	111	3	Mox	WP 04	C8	P040303_VJ_938
235	WIP 090319	3	19	Hypothetical protein SAV1005	Q9RUV0	STAAAM	Q9RUV0	20229.58984	6.3	5	210	100	129	100	65	100	5.72	81	3	Mox	WP 09	E12	P040315_VJ_865
235	WIP 060672	6	72	Glutathione peroxidase homolog bsaA	Q9RUC9	STAAAM	Q9RUC9	19277.18945	6.3	6	251	100	151	100	60	100	48.8	100	4	Mox	WP 06	D9	P040308_VJ_933
235	WIP 040559	5	59	Probable thioperoxidase (EC 1.11.1.) (Hypothetical protein)	Q9RUF0	STAAAM	Q9RUF0	19150.18945	4.6	8	318	100	216	100	140	100	31.1	102	3	Mox	WP 04	G8	P040303_VJ_944
235	WIP 040538	5	38	Hypothetical protein SAV1351 (Hypothetical protein SAV1863) (Hypothetical protein MW1803)	Q9RUC7	STAAAM	Q9RUC7	19221.17969	5.5	12	295	100	124	100	54	100	19.3	171	3	Mox	WP 04	B8	P040303_VJ_942
235	WIP 040578	5	78	Hypothetical protein SAV1863 (Hypothetical protein MW1803)	Q9RUF6	STAAAM	Q9RUF6	17392.94922	5.5	16	350	100	100	100	58	100	40.9	250	2	Mox	WP 04	D8	P040303_VJ_943

2363/WP_040579	5	79	Hypothetical protein SAV1514 (Hypothetical protein MW1467)	Q9P7X9	STAAI	Q9P7X9	16391.90038	4.7	2	65	5	31	100	31	100	1.23	34	1/Mox	WP 04	WP 04	WP 04 HB	HB	04_2 P040304_ StaphAureus Run	P040303_JV_945
2368/WP_040632	6	32	150S ribosomal protein L10	Q9B867	STAAI	RL10	17698.19922	4.8	10	469	100	341	100	106	100	41.1	128	4/Mox	WP 04	WP 04	WP 04 B9	B9	04_3 P040304_ StaphAureus Run	P040303_JV_948
2373/WP_040613	6	13	1-hypothetical protein SAV0387	Q9B9U2	STAAI	UP955	15126.62988	5.0	10	409	100	220	100	98	100	13.8	189	4/Mox	WP 04	WP 04	WP 04 E9	E9	04_3 P040304_ StaphAureus Run	P040303_JV_957
2377/WP_040635	6	35	150S ribosomal protein L16	Q9B528	STAAI	RL16	16231.89231	10.6	3	78	82	37	100	2	100	2.3	41	1/Mox	WP 04	WP 04	WP 04 F10	F10	04_3 P040304_ StaphAureus Run	P040303_JV_955
2385/WP_060379	3	79	Hypothetical protein SAV1111 (Hypothetical protein MW1788)	Q9B9Z1	STAAI	Q9B9Z1	18592.28906	5.2	7	239	100	143	100	60	100	16.4	96	3/Mox	WP 09	WP 09	WP 09 H12	H12	09_3P04315_ StaphAureus run 2-3	P040315_JV_884
2395/WP_060379	3	79	2-protein	Q9B9V0	STAAI	Q9B9V0	19064.51953	5.2	7	433	100	43	100	0	100	0	1/Mox	WP 09	WP 09	WP 09 H12	H12	09_3P04315_ StaphAureus run 2-3	P040315_JV_884	
2398/WP_040615	6	15	150S ribosomal protein L16 (GR-hydroxymethyl-leyl carrier protein) dehydratase [EC 4.2.1.-] (GR)	Q9B528	STAAI	RL16	16231.82031	10.6	3	110	97	61	100	61	100	2.7	49	1/Mox	WP 04	WP 04	WP 04 E10	E10	04_3 P040304_ StaphAureus Run	P040303_JV_981
2392/WP_040633	6	33	Phosphotransferase system (PTS) I, phosphotransferase adenylyltransferase (EC 2.7.3) (Pantheine-phosphate)	Q9B5F9	STAAI	FABZ	16298.46973	5.7	12	339	100	174	100	69	100	31.2	165	4/Mox	WP 04	WP 04	WP 04 F9	F9	04_3 P040304_ StaphAureus Run	P040303_JV_952
2393/WP_100432	4	32	Iron uptake regulatory protein (SAI329 protein) (Ferric uptake regulator homolog)	Q9B9X9	STAAI	COAD	18473.4707	6.2	5	162	100	91	100	62	100	10.2	71	3/Mox	WP 10	WP 10	WP 10 B1	B1	10_1 P04315_ StaphAureus run 2-3	P040315_JV_889
2394/WP_040653	6	53	1-MW1452	Q9B303	STAAI	Q7A2R5	17460.92968	5.8	13	464	100	254	100	90	100	16.4	210	4/Mox	WP 04	WP 04	WP 04 G9	G9	04_3 P040304_ StaphAureus Run	P040303_JV_959
2398/WP_040682	6	52	Sigma transcription factor TRAP (Aubinlocer-2 production protein LuxS) (A)	Q9B9F49	STAAI	Q7A2Q4	18592.53906	6.1	15	434	100	177	100	50	100	37.4	237	4/Mox	WP 04	WP 04	WP 04 C9	C9	04_3 P040304_ StaphAureus Run	P040303_JV_953
2399/WP_180118	1	18	12 synthase	Q9B5C5	STAAI	LUXS	17674.535	6	115	1000	51	100	39	100	10.1	64	2/Mox;N-Ac;Mox;N-Ac;NGM	WP 16	WP 16	WP 16 A4	A4	16_1 P050419_JV_A_ SibaUr	P050419_JV_907	
2399/WP_180118	1	18	ORF CND38 (Hypothetical protein SAV0037) (Hypothetical protein SAV0040)	Q54520	STAAI	Q54520	16126.543	1	49	0	49	0	49	0	49	0	1/et	WP 16	WP 16	WP 16 A4	A4	16_1 P050419_JV_A_ SibaUr	P050419_JV_907	
2407/WP_040656	6	56	Nucleoside diphosphate kinase (EC 2.7.4.6) (NDK) (NDP kinase) (Nucleoside-2-P)	P05058	STAAI	NDK	16564.38096	5.1	6	353	100	283	100	146	100	37.5	70	4/Mox	WP 04	WP 04	WP 04 C11	C11	04_3 P040304_ StaphAureus Run	P040303_JV_966
2413/WP_100452	4	52	Hypothetical protein SAV0845 (MW0798)	Q9BVG0	STAAI	Q9BVG0	17176.13086	4.8	8	283	100	177	100	84	100	28.4	106	3/Mox	WP 10	WP 10	WP 10 C1	C1	10_1 P04315_ StaphAureus run 2-3	P040315_JV_899
2415/WP_180157	1	57	Hypothetical protein MW1576	Q9B7M3	STAAI	Q9B7M3	16890.508	7	210	100	136	100	92	100	23.9	71	2/Mox;N-Ac;WP 16	WP 16	WP 16	WP 16 G3	G3	16_1 P050419_JV_A_ SibaUr	P050419_JV_911	
2417/WP_180119	1	19	Semecarbin kinase sAbV (EC 2.7.1.37) (Anti-sigma-B factor) (Sigma-B negative repressor)	Q9B723	STAAI	Q9B723	19128.683	3	61	100	38	100	38	100	6.05	23	1/Mox;N-Ac;WP 16	WP 16	WP 16	WP 16 E4	E4	16_1 P050419_JV_A_ SibaUr	P050419_JV_906	
2418/WP_040637	6	37	Receptor	P98343	STAAI	RSB	17910.1914	4.7	13	571	100	394	100	127	100	45.6	177	4/Mox	WP 04	WP 04	WP 04 F11	F11	04_3 P040304_ StaphAureus Run	P040303_JV_969
2430/WP_180176	1	76	Hypothetical protein SAV0925 (Hypothetical protein MW0898)	Q9BVF1	STAAI	Q9BVF1	15563.506	2	53	89.9	35	100	35	100	1.15	18	1/Mox;N-Ac;WP 16	WP 16	WP 16	WP 16 D3	D3	16_1 P050419_JV_A_ SibaUr	P050419_JV_915	
2432/WP_040658	6	58	Hypothetical protein SAV2592	Q9B946	STAAI	Q9B946	16985.17969	4.6	9	307	100	157	100	79	100	12	150	4/Mox	WP 04	WP 04	WP 04 C12	C12	04_3 P040304_ StaphAureus Run	P040303_JV_977
2433/WP_040657	6	57	HilA-like protein involved in cell-cycle regulation	Q9B739	STAAI	Q9B739	16934.99023	4.9	5	92	100	0	10	0	10	92	0/Mox	WP 04	WP 04	WP 04 G11	G11	04_3 P040304_ StaphAureus Run	P040303_JV_975	
2436/WP_040677	6	77	General stress protein 20U	Q9BSC0	STAAI	Q9BSC0	16739.06955	4.6	7	319	100	248	100	112	100	23.9	71	3/Mox	WP 04	WP 04	WP 04 H11	H11	04_3 P040304_ StaphAureus Run	P040303_JV_978
2438/WP_180136	1	36	Hypothetical protein SAV1176	Y1176	STAAI	Y1176	17261.496	6	189	100	118	100	55	100	24.4	71	3/Mox;N-Ac;WP 16	WP 16	WP 16	WP 16 B3	B3	16_1 P050419_JV_A_ SibaUr	P050419_JV_916	
2445/WP_040679	6	79	Elongation factor Tu (EF-Tu)	Q9B861	STAAI	EFTU	43133.62106	4.7	7	223	100	151	100	95	100	18.7	72	3/Mox	WP 04	WP 04	WP 04 H12	H12	04_3 P040304_ StaphAureus Run	P040303_JV_983
2451/WP_060558	5	58	Hypothetical protein SAV0372 (Hypothetical protein MW0347)	Q9BWK5	STAAI	Q9BWK5	21317.83984	5.7	4	110	93	64	100	42	100	1.66	46	2/Mox	WP 06	WP 06	WP 06 C8	C8	06_2 P040308_ StaphAureus Run	P040308_JV_987
2452/WP_040619	6	19	Hypothetical protein SAV0604	Q9B908	STAAI	Q9B908	19115.5	6.2	3	81	95	34	100	34	100	1.31	47	1/Mox	WP 04	WP 04	WP 04 E12	E12	04_3 P040304_ StaphAureus Run	P040303_JV_979
2453/WP_050112	1	12	Hypothetical protein SAV1845 (Hypothetical protein MW1845) (6,7-dimethylxanthine synthase [EC 2.5.1.9]) (DMXL synthase) (Lumazine synthase)	Q9B733	STAAI	Y1845	13301.5	4.4	4	308	308	100	141	100	0	4/Mox	WP 05	WP 05	WP 05 A1	A1	05_1 P040308_ StaphAureus Run	P040308_JV_960		
2454/WP_040659	6	59	Peptide methionine sulfoxide reductase	Q9B1N8	STAAI	RSB	16513.66992	5.7	11	367	100	192	100	97	100	24.8	175	4/Mox	WP 04	WP 04	WP 04 G12	G12	04_3 P040304_ StaphAureus Run	P040303_JV_982
2455/WP_050132	1	32	InsrB (EC 1.8.4.6)	Q9B9U4	STAAI	MSRB	16396.90039	4.8	7	359	100	269	100	119	100	25.9	90	3/Mox	WP 05	WP 05	WP 05 B1	B1	05_1 P040308_ StaphAureus Run	P040308_JV_991
2468/WP_060578	5	78	Galectin-5-phosphate isomerase laCa	Q9B574	STAAI	LACA	15441.75977	5.2	13	442	100	307	100	109	100	29.7	135	4/Mox	WP 06	WP 06	WP 06 D8	D8	06_2 P040308_ StaphAureus Run	P040308_JV_995
2473/WP_050134	1	34	1D) TAGD (Ferrous acid biosynthesis protein)	Q06155	STAAI	Q7A2W1	15863.99023	5.6	6	168	100	69	100	31	100	13.2	99	3/Mox	WP 05	WP 05	WP 05 B2	B2	05_1 P040308_ StaphAureus Run	P040308_JV_997
2475/WP_050113	1	13	150S ribosomal protein L20	Q9B715	STAAI	RL20	13677.57031	11.3	6	78	100	0	0	4.34	78	0/Mox	WP 05	WP 05	WP 05 E1	E1	05_1 P040308_ StaphAureus Run	P040308_JV_988		
2478/WP_050114	1	14	Hypothetical protein SAV1084 (MW0947)	Q9B9V3	STAAI	Q9B9V3	17114.88914	6.1	6	188	100	129	100	93	100	26.9	59	3/Mox	WP 05	WP 05	WP 05 A2	A2	05_1 P040308_ StaphAureus Run	P040308_JV_1001
2483/WP_050156	1	54	150S ribosomal protein L7L12	Q9B966	STAAI	RL7	12703.75	4.6	10	577	100	461	100	164	100	45.7	116	4/Mox	WP 05	WP 05	WP 05 C2	C2	05_1 P040308_ StaphAureus Run	P040308_JV_1005
2487/WP_050155	1	55	10 kDa chaperonin (Protein Cpn10) (groES protein) (Heat shock protein 10)	Q08841	STAAI	CH10	10409.50977	4.9	8	305	100	149	100	61	100	27.7	156	3/Mox	WP 05	WP 05	WP 05 G2	G2	05_1 P040308_ StaphAureus Run	P040308_JV_1007
2507/WP_100454	4	54	Repressor of toxins Rot	Q9B744	STAAI	ROT	18056.31055	5.2	5	151	100	75	100	48	100	16.8	76	2/Mox	WP 10	WP 10	WP 10 C2	C2	10_1 P04315_ StaphAureus run 2-3	P040315_JV_938
2508/WP_060559	5	59	150S ribosomal protein L21	Q9B7K6	STAAI	RL21	11326.12012	9.8	6	127	100	37	100	2.4	76	1/Mox	WP 06	WP 06	WP 06 G8	G8	06_2 P040308_ StaphAureus Run	P040308_JV_1014		
2509/WP_050156	1	56	Hypothetical protein SAV0828	Q9B9V8	STAAI	Q9B9V8	15443.62012	4.8	5	127	100	31	100	36	100	8.94	84	2/Mox	WP 05	WP 05	WP 05 C3	C3	05_1 P040308_ StaphAureus Run	P040308_JV_1015
2510/WP_100434	4	34	Repressor of toxins Rot	Q9B744	STAAI	ROT	18056.31055	5.2	6	196	97	147	100	79	100	31.2	49	2/Mox	WP 10	WP 10	WP 10 B2	B2	10_1 P04315_ StaphAureus run 2-3	P040315_JV_943
2512/WP_050136	1	36	spoVG protein (Stage V sporulation protein 1G homologue)	Q9B9A5	STAAI	SP5	12312.05957	4.9	10	324	100	204	100	89	100	35.5	120	4/Mox	WP 05	WP 05	WP 05 B3	B3	05_1 P040308_ StaphAureus Run	P040308_JV_1016

2514	WP 06579	5	79	1	Hypothetical protein SAV0486	YABA_STAA	Q9W8B7	13917.12012	5.4	7	90	100	0	0	2.86	90	0	Mox	WP 06	06.2 P040308_ StaphAureus Run	P040308_JV_1016	
2533	WP 06018	1	18	1	Regulatory protein sax	SPX_STAA	P03078	15545.0498	6.1	9	175	100	67	100	24	98	21.4	108	3	Mox	WP 05	P040308_JV_1022
2538	WP 06017	1	57	1	Hypothetical protein SAV1839 (Hypothetical protein MM1779)	Q9R738_STAA	Q9R738	13203.80957	5.8	9	215	100	53	100	23	99	21.6	162	3	Mox	WP 05	P040308_JV_1021
2537	WP 06039	1	39	1	150S ribosomal protein L21	RL21_STAA	Q9R7K6	11326.12012	9.8	8	133	100	0	0	574	133	0	Mox	WP 05	WP 05 G3	P040308_JV_1025	
2538	WP 06052	5	52	1	Major cold shock protein CspA	Q7A2R8_STAA	Q8L534	7316.58078	4.5	5	308	100	230	100	99	100	14	76	3	Mox	WP 06	P040308_JV_1031
2543	WP 06072	2	12	1	Hypothetical protein SAV0467	Q9W8D6_STAA	Q9W8D6	15171.75977	4.7	8	204	100	139	100	78	100	10.5	65	3	Mox	WP 05	P040308_JV_1030
2549	WP 06078	1	76	1	Iron-sulfur protein (BRP)	Q9XK55_STAA	Q9XK55	15427.55957	5.0	10	511	100	385	100	187	100	47.5	126	4	Mox	WP 05	P040308_JV_1034
2552	WP 06079	1	79	2	50S ribosomal protein L21	RL21_STAA	Q9R7K6	11326.12012	9.8	5	84	100	0	0	2.39	84	0	Mox	WP 05	WP 05 D4	P040308_JV_1027	
2554	WP 06019	1	19	1	Hypothetical protein SAV1446 (Hypothetical protein MM1355)	Q9B042_STAA	Q9B042	13142.86016	5.9	10	247	100	98	100	49	100	14.7	151	3	Mox	WP 05	P040308_JV_1028
2555	WP 06052	5	72	1	Hypothetical protein SAV0248 (Hypothetical protein MM0258)	ESXA_STAA	Q9W0L4	11023.44043	4.6	6	361	100	281	100	117	100	27.9	80	4	Mox	WP 06	P040308_JV_1036
2557	WP 10045	4	15	1	Hypothetical protein SAV0568 (Hypothetical protein MM0523)	Q9W0M1_STAA	Q9W0M1	13557.83984	5.6	3	167	77	127	100	71	100	30	40	2	Mox	WP 10	P040315_JV_959
2564	WP 06023	2	33	1	Hypothetical protein SAV0741 (Hypothetical protein MM0705)	Q9W0N3_STAA	Q9W0N3	12496.09377	4.8	5	164	100	71	100	63	100	14.2	93	2	Mox	WP 05	P040308_JV_1039
2569	WP 06022	2	72	2	2Elongation factor Tu (EF-Tu)	EFTU_STAA	Q9W0E1	43133.62109	4.7	4	88	0	62	100	62	100	9.36	26	1	Mox	WP 05	P040308_JV_1041
2569	WP 06022	2	72	1	N utilization substance protein B homolog (NusB protein)	NUSB_STAA	Q9R7W9	15051.70986	5.0	8	206	100	99	100	55	100	13.6	107	2	Mox	WP 05	P040308_JV_1041
2572	WP 11038	3	38	1	Major cold shock protein CspA	Q7A2R8_STAA	Q8L534	7316.58078	4.5	3	341	69	302	100	172	100	28.3	39	2	Mox	WP 11	P040316_JV_962
2575	WP 06022	2	52	2	Elongation factor Tu (EF-Tu)	EFTU_STAA	Q9W0E1	43133.62109	4.7	6	106	88	63	100	63	100	6.71	43	1	Mox	WP 05	P040308_JV_1038
2575	WP 06022	2	52	1	Hypothetical protein SAV1225 (Hypothetical protein MM1108)	Q9R0P3_STAA	Q9R0P3	13433.34043	5.8	5	260	98	208	100	122	100	30.3	52	2	Mox	WP 05	P040308_JV_1038
2577	WP 06051	5	12	1	Phosphocarrier protein HPr (Helidline-containing protein)	PTHP_STAA	P03077	9489.75	4.5	3	113	28	78	100	78	100	3.44	35	1	Mox	WP 06	P040308_JV_1043
2578	WP 11037	3	77	1	Anti-sigma-B factor	RSB_V_STAA	Q9Z529	12197.12012	4.4	6	315	100	230	100	117	100	17.3	85	3	Mox	WP 11	P040316_JV_968
2582	WP 10045	4	55	1	Hypothetical protein SAV1546 (Hypothetical protein MM1488)	Q9R7U8_STAA	Q9R7U8	12331.45996	5.7	3	95	99	40	100	70	100	4.15	30	1	Mox	WP 10	P040315_JV_972
2584	WP 06023	2	53	1	Hypothetical protein SAV2521	Q9R8B4_STAA	Q9R8B4	10807.21973	4.9	3	95	99	40	100	70	100	4.15	30	1	Mox	WP 05	P040308_JV_1046
2597	WP 16012	1	12	1	Hypothetical protein SAV0936 (MM0918)	Q9W0E5_STAA	Q9W0E5	8906.436	3	79	100	55	100	30	100	5.46	24	2	Mox:NAc	WP 16	P050419_JV_1095	
2616	WP 11037	3	78	1	Hypothetical protein SAV1759	Q9R7A9_STAA	Q9R7A9	11427.70986	4.6	5	170	100	97	100	80	100	7.91	73	2	Mox	WP 11	P040316_JV_979
2618	WP 10046	4	16	1	30S ribosomal protein S6	RS6_STAA	Q9R0L2	11587.91982	5.1	13	280	100	130	100	60	100	32.5	150	4	Mox	WP 10	P040316_JV_983
2619	WP 11037	3	17	1	30S ribosomal protein S6	RS6_STAA	Q9R0L2	11587.91982	5.1	9	178	100	15	93	12	88	9.28	163	2	Mox	WP 11	P040316_JV_982
2620	WP 06052	5	32	1	Hypothetical protein SAV0931	Q9W0H5_STAA	Q9W0H5	12244.98973	4.5	4	225	97	176	100	107	100	19.4	49	2	Mox	WP 06	P040308_JV_1057
2622	WP 06025	2	35	1	Hypothetical protein SAV1222 (Hypothetical protein MM0915)	Y1238_STAA	Q9B0N4	13572.71973	4.7	10	259	100	95	100	27	98	26.3	164	4	Mox	WP 05	P040308_JV_1056
2627	WP 11037	3	18	1	Hypothetical protein SAV2296	Q9R0X7_STAA	Q9R0X7	12570.08984	4.5	4	141	93	96	100	54	100	2.56	45	2	Mox	WP 11	P040316_JV_985
2631	WP 11037	3	76	1	Hypothetical protein SAV1067 (Hypothetical protein MM0950)	Q9W0V0_STAA	Q9W0V0	9915.08944	4.7	4	156	94	110	100	110	100	26.2	46	1	Mox	WP 11	P040316_JV_987
2632	WP 06025	2	55	1	Thiodoxin (TRX)	THIO_STAA	Q9ZEH4	11546.83984	4.4	9	457	100	324	100	123	100	36.3	133	4	Mox	WP 05	P040308_JV_1063
2638	WP 10046	4	36	1	Hypothetical protein SAV1090	Y1090_STAA	Q9B1U1	7737.790338	5.0	3	109	0	76	100	76	100	10.5	33	2	Mox	WP 10	P040316_JV_989
2641	WP 11035	3	56	1	Hypothetical protein	Y1097_STAA	Q9W0V5	10685.18016	5.2	4	198	99	144	100	82	100	10	54	3	Mox	WP 11	P040316_JV_990
2672	WP 11021	2	13	1	Glucose-6-phosphate 1-dehydrogenase	Q9R7Y8_STAA	Q9R7Y8	57043.48047	5.3	25	409	100	243	100	96	100	51.2	166	3	Mox	WP 11	P040316_JV_170
2673	WP 15015	1	57	1	Catalase (EC 1.11.1.6)	CATA_STAA	Q9W0E2	58689.527	41	885	100	641	100	176	100	79.9	244	6	Mox:NAc	WP 15	P050412_JV_1574	
2677	WP 01037	3	73	1	Protein maleate isomerase oxidoreductase 2 (EC 1.1.99.16) (Maleate hydrogenase	MOZO_STAA	Q9R0R3	56135	6.1	33	706	100	400	100	120	100	73.7	306	4	Mox	WP 01	P040302_JV_278
2689	WP 06045	4	53	1	Elongation factor G (EF-G) (85 kDa tyrosine kinase binding protein)	EFG_STAA	P01683	76716.03125	4.8	42	800	100	392	100	150	100	75.3	408	3	Mox	WP 06	P040308_JV_64
2690	WP 15012	1	12	1	Elongation factor G (EF-G) (85 kDa tyrosine kinase binding protein)	EFG_STAA	P01683	76716	4.8	46	1000	100	712	100	220	100	70.0	288	6	Mox:NAc	WP 15	P050412_JV_1013
2691	WP 10051	5	13	1	Phosphoserine(tyrosyl)amidase	Q9W0Z8	Q9W0Z8	79912.14063	4.8	35	763	100	390	100	140	100	46.5	373	4	Mox	WP 10	P040315_JV_57
2691	WP 10051	5	13	2	Synthase II (EC 6.3.3.) (FCAM synthase II)	PURL_STAA	P01683	76716.03125	4.8	20	139	100	0	0	13.8	139	0	Mox	WP 10	P040315_JV_57		
2691	WP 10218	2	16	1	Elongation factor G (EF-G) (85 kDa tyrosine kinase binding protein)	EFG_STAA	Q9W0G2	44941.69922	5.4	22	580	100	423	100	209	100	71.6	157	4	Mox	WP 11	P040316_JV_221
2692	WP 11025	2	58	2	Hypothetical protein SAV0843 (Hypothetical protein MM0843)	Q9W0G2_STAA	Q9W0G2	44941.69922	5.4	22	580	100	423	100	209	100	71.6	157	4	Mox	WP 11	P040316_JV_233
2692	WP 11025	2	58	2	(IMPDH) (IMP dehydrogenase)	IMDH_STAA	Q9W0I9	52931.57813	5.6	32	360	100	127	100	127	100	28.8	233	1	Mox	WP 11	P040316_JV_233
2692	WP 11025	2	58	1	Hypothetical protein SAV0843	Q9W0G2_STAA	Q9W0G2	44941.69922	5.4	21	570	100	423	100	212	100	40.6	147	3	Mox	WP 11	P040316_JV_233

2909 WP_070338	3	38	Hypothetical protein SAV0341 (UDP-N-acetylglucosamine 2-epimerase 2 (EC 2.5.1.7))	Q9VFE0	STAA	Q9VFE0	44581.75	5.4	28	686	100	451	100	171	100	60.4	235	4 Max	WP_07	07_3	PA40311_JV_0738C	362
2911 WP_010337	3	37	1 Ectopyruvate transferase	Q9S5D4	STAA	Q9S5D4	45332	5.5	6	133	100	73	100	56	100	7.02	60	2 Max	WP_01	01_4	PA40302_JV_0137C	328
2913 WP_110113	1	13	1 Phosphoglucosamine mutase (EC 5.4.2.2.)	Q9R0RS	STAA	Q9R0RS	49376.53125	4.7	21	532	100	391	100	177	100	62.3	141	4 Max	WP_11	11_1	PA40316_JV_1113A	216
2913 WP_110113	1	13	2 Alky hydroperoxide reductase subunit F (EC 1.6.4.3)	Q9R0U7	STAA	Q9R0U7	54851.86984	4.7	12	78	100	0	0	0	0	6.04	78	0 Max	WP_11	11_1	PA40316_JV_1113A	216
2915 WP_060517	5	17	1 minor subunit	Q9Z5C7	STAA	Q9Z5C7	37489.39844	4.8	22	503	100	297	100	125	100	50	206	4 Max	WP_08	08_2	PA40311_JV_0817B	482
2915 WP_060517	5	17	2 Phosphoribosylformylglycinamide cyclo-ligase (EC 6.3.3.1) (NRG) (Phosphoribosyl-gamma-chain alpha-keto acid)	Q9V5V6	STAA	Q9V5V6	37079.72047	4.8	11	85	100	0	0	0	14.2	85	0 Max	WP_08	08_2	PA40311_JV_0817B	482	
2920 WP_110118	1	18	2 Elongation factor Tu (EF-Tu)	Q9R0B1	STAA	Q9R0B1	43133.62106	4.7	20	325	100	157	100	157	100	23.7	188	1 Max	WP_11	11_1	PA40316_JV_1114A	513
2920 WP_110118	1	18	1 dehydrogenase E1	Q9R7X7	STAA	Q9R7X7	38216.44141	4.7	14	461	100	350	100	147	100	37.9	111	3 Max	WP_11	11_1	PA40316_JV_1114A	513
2922 WP_060513	5	13	1 Major cold shock protein CapA	Q9L534	STAA	Q9L534	7316.580078	4.5	4	261	99	204	100	96	100	12	57	3 Max	WP_06	06_2	PA40308_JV_0613B	1033
2927 WP_110336	3	36	1 Hypothetical protein SAV1595 (Hypothetical protein MW1546)	Q9R7D4	STAA	Q9R7D4	11073.84981	5.7	5	225	100	163	100	95	100	11.5	62	2 Max	WP_11	11_1	PA40316_JV_1138C	984
2932 WP_110254	2	54	1 Thyrosyl-RNA synthetase (EC 6.1.1.3)	Q9R7H9	STAA	Q9R7H9	74455.35938	5.3	26	348	100	161	100	60	100	31.2	197	3 Max	WP_11	11_2	PA40316_JV_1154B	77
2932 WP_110254	2	54	1 UVABC system protein B (UVB protein)	Q9RVL7	STAA	Q9RVL7	76989.46984	5.3	26	179	100	0	0	0	23	179	0 Max	WP_11	11_2	PA40316_JV_1154B	77	
2937 WP_100614	6	14	1 Asparaginase subunit B (EC 6.3.5.-)	Q9S9Y7	STAA	Q9S9Y7	5980.10196	5.0	42	453	100	136	100	75	100	36.8	317	2 Max	WP_10	10_3	PA40315_JV_1014C	254
2937 WP_100614	6	14	1 Oxy-RNA synthetase (EC 6.1.1.14)	Q9R7T1	STAA	Q9R7T1	53871.35938	5.0	37	417	100	136	100	89	100	36.2	201	2 Max	WP_10	10_3	PA40315_JV_1014C	254
2940 WP_100578	5	78	1 Proline-5-carboxylate dehydrogenase	Q9R9R2	STAA	Q9R9R2	57002.72047	5.0	37	795	100	439	100	119	100	63.5	356	4 Max	WP_10	10_2	PA40308_JV_1078B	206
2943 WP_060516	5	16	1 Dihydrolyoyl dehydrogenase (EC 1.8.1.4)	Q9S9Z2	STAA	Q9S9Z2	49591.57813	5.0	24	610	100	362	100	100	100	73.6	248	4 Max	WP_06	06_2	PA40308_JV_0616B	250
2946 WP_060432	4	32	1 Glutamate-5-semialdehyde aminotransferase	Q9R7T5	STAA	Q9R7T5	46696.73828	5.1	17	543	100	406	100	155	100	56.3	137	4 Max	WP_08	08_1	PA40311_JV_0833A	364
2949 WP_100657	6	57	1 3-oxoacyl-CoA carrier-protein synthase	Q9Z5C4	STAA	Q9Z5C4	42632.46994	5.2	9	234	100	146	100	99	100	13.8	88	3 Max	WP_10	10_1	PA40315_JV_1057C	373
2960 WP_060433	4	33	1 Hypothetical protein SAV1197	Q9RVA6	STAA	Q9RVA6	43988.87108	5.0	17	564	100	421	100	149	100	59.6	143	4 Max	WP_06	06_1	PA40308_JV_0633A	326
2962 WP_020475	4	79	1 Hypothetical protein SAV1197	Q9RUS1	STAA	Q9RUS1	34640	5.7	17	380	100	215	100	82	100	21.4	165	4 Max	WP_02	02_1	PA40302_JV_0275A	437
2966 WP_010319	3	19	1 Acetate kinase (EC 2.7.2.1) (acetkinase)	Q9R1P6	STAA	Q9R1P6	44070	5.7	31	590	100	178	100	67	100	85	321	4 Max	WP_01	01_2	PA40302_JV_0119C	362
2966 WP_060474	4	74	1 Hydroxymethylglutaryl-CoA reductase	Q9FD86	STAA	Q9FD86	46209.19141	5.8	8	79	100	0	0	0	3.6	79	0 Max	WP_08	08_2	PA40311_JV_0874A	393	
2973 WP_020634	6	34	1 Fructose-bisphosphate aldolase (EC 1.4.1.2.13)	Q9SD33	STAA	Q9SD33	30931	5.0	19	577	100	397	100	145	100	63.9	180	4 Max	WP_02	02_1	PA40302_JV_0234C	601
2974 WP_060612	6	12	1 Tagalose 1,6-bisphosphate aldolase (EC 1.4.1.240) (tagalose-bisphosphate aldolase)	P11100	STAA	P11100	36800.64844	5.0	28	815	100	571	100	219	100	88	244	4 Max	WP_08	08_3	PA40311_JV_0833C	510
2975 WP_060633	6	33	1 Hypothetical protein SAV0519 (Hypothetical protein MW0474)	Q9RWB4	STAA	Q9RWB4	32086.22047	5.1	22	529	100	323	100	141	100	53.3	206	4 Max	WP_08	08_1	PA40311_JV_0833C	517
2977 WP_020652	6	52	1 Mevalonate diphosphate decarboxylase	Q9FD94	STAA	Q9FD94	38979	5.1	19	446	100	287	100	99	100	32.1	159	4 Max	WP_02	02_1	PA40302_JV_0252C	578
2979 WP_030252	2	52	1 Hypothetical protein SAV0406	Q9S210	STAA	Q9S210	29789.14083	5.5	13	307	100	164	100	83	100	17.4	143	2 Max	WP_03	03_2	PA40303_JV_0352B	716
2981 WP_060223	2	73	1 Inhibitor of prokaryotic septin assembly	Q9R9R9	STAA	Q9R9R9	24189.42988	5.9	3	60	0	34	100	34	100	6.27	26	1 Max	WP_09	09_2	PA40315_JV_0978B	667
2985 WP_110313	3	13	1 Hypothetical protein SAV0728 (Hypothetical protein MW0690)	Q9RVP5	STAA	Q9RVP5	19803.43945	5.3	5	138	98	86	100	43	100	31.4	52	2 Max	WP_11	11_3	PA40316_JV_1113C	842
2986 WP_060455	4	55	1 Hypothetical protein SAV0571	Q9RWB9	STAA	Q9RWB9	19545.90039	5.3	9	328	100	239	100	80	100	26.9	93	4 Max	WP_06	06_2	PA40308_JV_0655A	895
2987 WP_110372	3	72	2 Hypothetical protein SAV2395	Q9RUB8	STAA	Q9RUB8	20069.9707	5.3	9	90	100	15	92	15	92	10.9	75	1 Max	WP_11	11_3	PA40316_JV_1172C	838
2987 WP_110372	3	72	1 Nucleoside diphosphate-dependent transcriptional repressor (SAO590 protein) (Hypothetical protein SAV06)	Q9RUV1	STAA	Q9RUV1	24926.09961	5.4	11	126	100	22	98	22	98	9.02	104	1 Max	WP_11	11_3	PA40316_JV_1172C	838
2990 WP_110375	3	75	1 (ATP synthase F1 sector epsilon subunit) (epsilon)	Q9S2V5	STAA	Q9S2V5	22697.30008	5.1	11	129	100	37	100	14.4	92	1 Max	WP_11	11_3	PA40316_JV_1175C	790		
2995 WP_110316	3	16	1 Orotate phosphoribosyltransferase (EC 2.4.2.10) (OPRTase)	Q9RUB3	STAA	Q9RUB3	22109.51953	5.1	7	105	100	42	100	42	100	20.8	63	1 Max	WP_11	11_3	PA40316_JV_1116C	787
2998 WP_160158	1	58	1 ATP synthase epsilon chain (EC 3.6.3.14)	Q9S2F6	STAA	Q9S2F6	14835	5.57	8	170	100	102	100	102	100	15.1	68	4 Max;N;Ac	WP_16	16_1	P050419_JV_A_S16Aur	976
3005 WP_060455	4	55	1 (ATP synthase F1 sector epsilon subunit) (epsilon)	Q9RUB2	STAA	Q9RUB2	43134.92188	5.5	17	308	100	165	100	78	100	22.5	123	4 Max	WP_08	08_1	PA40311_JV_0855A	392
3006 WP_060454	4	54	1 Chaperone protein dnaJ (HSP40)	Q9R7R8	STAA	Q9R7R8	42190.69141	5.7	19	387	100	221	100	119	100	24.5	166	2 Max	WP_08	08_1	PA40311_JV_0854A	404
3013 WP_100612	6	12	1 beta-D-phosphogalactosidase (EC 3.2.1.48)	Q9R578	STAA	Q9R578	54644.64844	5.1	38	656	100	296	100	107	100	59.5	360	4 Max	WP_10	10_3	PA40315_JV_1012C	255
3013 WP_100612	6	12	2 (Glutamate-aminomethyltransferase) (GS)	Q9RUG5	STAA	Q9RUG5	51107.51953	5.1	16	78	100	0	0	0	7.39	78	0 Max	WP_10	10_3	PA40315_JV_1012C	255	

3015WP100539	5	39	Glycine betaine aldehyde dehydrogenase	Q9R24	STAAI	Q9R24	54816.80856	5.0	22	429	100	231	100	97	100	40.8	198	3	Mox	WP10	10_2P04315_SlaphAureus run 2-3	F8	WP10 F8	P040315_JV_1039B	173
3017WP150113	1	13	GMP synthase (glutamine hydrolytic) (EC 6.3.5.2) (Glutamine amidotransferase)	Q9R18	STAAI	Q9R18	59451.503	4.3	738	100	458	100	123	100	78.4	290	5	Mox;NAc	WP15	15_1 P050415_A_StaAur	E1	WP15 E1	P050412_JV_1513A	281	
3020WP100514	5	14	1-Pyruvate decarboxylase (EC 4.1.1.1)	Q9R18	STAAI	Q9R18	77427.96094	4.9	47	653	100	306	100	103	100	54.8	347	4	Mox	WP10	10_2P04315_SlaphAureus run 2-3	A6	WP10 A6	P040315_JV_1014B	75
3023WP100514	5	14	Dihydroisomerase	Q9R18	STAAI	Q9R18	45396.64844	4.9	19	115	100	0	0	0	14.3	115	0	Mox	WP10	10_2P04315_SlaphAureus run 2-3	A6	WP10 A6	P040315_JV_1014B	75	
3021WP100573	5	73	Aspartyl-tRNA synthetase (EC 6.1.1.12)	Q9R19	STAAI	Q9R19	46396.64844	4.9	28	650	100	400	100	114	100	68.4	250	4	Mox	WP10	10_2P04315_SlaphAureus run 2-3	H5	WP10 H5	P040315_JV_1073B	76
3024WP070232	2	32	1-Aspartate-tRNA ligase (AspRS)	Q9R19	STAAI	Q9R19	66726.11719	5.0	48	876	100	461	100	176	100	73.5	415	4	Mox	WP07	07_2 P040311_SlaphAureus Run	B5	WP07 B5	P040311_JV_0732B	142
3025WP10274	2	74	1-Pyruvate kinase	Q9R19	STAAI	Q9R19	62931.16016	5.2	48	673	100	326	100	110	100	72.3	347	4	Mox	WP11	11_2 P040316_SlaphAureus Run	D6	WP11 D6	P040316_JV_0732B	97
3025WP070153	1	53	1-Major subunit	Q9R19	STAAI	Q9R19	82446.32031	5.4	28	490	100	228	100	84	100	43	100	4	Mox	WP07	07_3 P040311_SlaphAureus Run	G1	WP07 G1	P040311_JV_0732B	83
10051WP140134	1	32	1-Hypothetical protein SAV2539	Q9R19	STAAI	Q9R19	69332	6.9	33	332	100	219	100	86	100	27.8	113	5	Mox	WP14	14_1 P041209_JV_StaAur	B1	WP14 B1	P041209_JV_1432A	51
10058WP140172	1	72	1-(CHD) (CDH)	P60336	STAAI	P60336	63741	6.9	57	692	100	498	100	148	100	60.7	194	5	Mox	WP14	14_1 P041209_JV_StaAur	D1	WP14 D1	P041209_JV_1432A	58
10063WP140113	1	13	1-(CHD) (CDH)	P60336	STAAI	P60336	63741	6.9	3	38	0	38	100	18	95	0	0	3	Mox	WP14	14_1 P041209_JV_StaAur	E1	WP14 E1	P041209_JV_1411A	63
10072WP140114	1	14	1-Hypothetical protein SAV1089 (Hypothetical protein MM00972)	Q9R19	STAAI	Q9R19	62858	6.8	47	510	100	328	100	99	100	57.8	192	5	Mox	WP14	14_1 P041209_JV_StaAur	A2	WP14 A2	P041209_JV_1414A	72
10073WP140134	1	34	1-Hypothetical protein SAV1089 (Hypothetical protein MM00972)	Q9R19	STAAI	Q9R19	62858	6.8	20	114	0	93	100	65	100	8.9	21	2	Mox	WP14	14_1 P041209_JV_StaAur	B2	WP14 B2	P041209_JV_1434A	73
10076WP140174	1	74	1-Dehydrogenase	Q9R19	STAAI	Q9R19	64480	7.6	67	612	100	421	100	107	100	58.8	191	5	Mox	WP14	14_1 P041209_JV_StaAur	D2	WP14 D2	P041209_JV_1434A	76
10077WP140156	1	15	1-Hypothetical protein SAV1089 (Hypothetical protein MM00972)	Q9R19	STAAI	Q9R19	62858	6.8	24	139	100	79	100	43	100	12.2	60	4	Mox	WP14	14_1 P041209_JV_StaAur	E2	WP14 E2	P041209_JV_1415A	77
10080WP140135	1	35	1-Dehydrogenase	Q9R19	STAAI	Q9R19	64480	7.6	40	242	96	194	100	86	100	26.7	48	6	Mox	WP14	14_1 P041209_JV_StaAur	F2	WP14 F2	P041209_JV_1435A	80
10089WP140116	1	16	1-Hypothetical protein SAV2564	Q9R19	STAAI	Q9R19	57195	7.3	17	66	43	30	100	11	84	7.69	36	4	Mox	WP14	14_1 P041209_JV_StaAur	A3	WP14 A3	P041209_JV_1416A	89
10090WP140136	1	36	1-Transcription termination factor Rho	Q9R19	STAAI	Q9R19	48927	7.8	35	321	100	238	100	56	100	36.6	82	6	Mox	WP14	14_1 P041209_JV_StaAur	B3	WP14 B3	P041209_JV_1417A	90
10094WP140156	1	56	1-Hypothetical protein SAV0565	Q9R19	STAAI	Q9R19	58633	6.6	23	177	100	107	100	42	100	21.7	70	6	Mox	WP14	14_1 P041209_JV_StaAur	C3	WP14 C3	P041209_JV_1456A	94
10097WP140117	1	17	1-Hypothetical protein SAV2564	Q9R19	STAAI	Q9R19	50146	6.6	19	79	87	36	100	36	100	7.25	43	1	Mox	WP14	14_1 P041209_JV_StaAur	E3	WP14 E3	P041209_JV_1417A	97
10100WP140137	1	37	1-Hypothetical protein SAV2564	Q9R19	STAAI	Q9R19	57195	7.3	23	243	100	171	100	70	100	19.4	72	3	Mox	WP14	14_1 P041209_JV_StaAur	F3	WP14 F3	P041209_JV_1437A	100
10101WP140157	1	57	1-Hypothetical protein SAV2564	Q9R19	STAAI	Q9R19	55356	6.3	16	138	0	118	100	81	100	14.9	20	3	Mox	WP14	14_1 P041209_JV_StaAur	G3	WP14 G3	P041209_JV_1457A	101
10104WP140177	1	77	1-Probable malate:quinone oxidoreductase 2 (EC 1.1.99.16) (Malate dehydrogenase)	Q9R19	STAAI	Q9R19	56135	6.1	31	282	100	202	100	71	100	24.2	80	4	Mox	WP14	14_1 P041209_JV_StaAur	H3	WP14 H3	P041209_JV_1477A	104
10105WP140118	1	18	1-Probable malate:quinone oxidoreductase 2 (EC 1.1.99.16) (Malate dehydrogenase)	Q9R19	STAAI	Q9R19	50206	6.6	33	455	100	306	100	112	100	32.6	149	5	Mox	WP14	14_1 P041209_JV_StaAur	A4	WP14 A4	P041209_JV_1418A	105
10107WP140138	1	38	1-Probable malate:quinone oxidoreductase 2 (EC 1.1.99.16) (Malate dehydrogenase)	Q9R19	STAAI	Q9R19	56135	6.1	47	782	100	633	100	138	100	61.7	149	6	Mox	WP14	14_1 P041209_JV_StaAur	B4	WP14 B4	P041209_JV_1438A	107
10112WP140119	1	19	1-Probable malate:quinone oxidoreductase 2 (EC 1.1.99.16) (Malate dehydrogenase)	Q9R19	STAAI	Q9R19	74353	9.0	36	337	100	238	100	62	100	31.5	99	5	Mox	WP14	14_1 P041209_JV_StaAur	E4	WP14 E4	P041209_JV_1419A	112
10117WP140139	1	39	1-Probable malate:quinone oxidoreductase 2 (EC 1.1.99.16) (Malate dehydrogenase)	Q9R19	STAAI	Q9R19	52203	6.3	37	426	100	261	100	94	100	32.7	165	5	Mox	WP14	14_1 P041209_JV_StaAur	F4	WP14 F4	P041209_JV_1439A	117
10120WP140159	1	59	1-Dehydrogenase	Q9R19	STAAI	Q9R19	51810	6.6	23	329	100	287	100	125	100	43.5	62	4	Mox	WP14	14_1 P041209_JV_StaAur	G4	WP14 G4	P041209_JV_1459A	120
10122WP140179	1	79	1-Dehydrogenase	Q9R19	STAAI	Q9R19	51810	6.6	14	84	52	47	100	40	100	8.61	37	2	Mox	WP14	14_1 P041209_JV_StaAur	H4	WP14 H4	P041209_JV_1479A	122
10130WP140252	2	52	1-FMHb	Q9R19	STAAI	Q9R19	48563	8.6	35	175	100	101	100	65	100	11.8	74	4	Mox	WP14	14_2 P041209_JV_StaAur	C5	WP14 C5	P041209_JV_1452B	130
10139WP140233	2	33	1-FMHb	Q9R19	STAAI	Q9R19	48563	8.6	20	92	0	66	100	54	100	8.44	26	3	Mox	WP14	14_2 P041209_JV_StaAur	F5	WP14 F5	P041209_JV_1452B	139
10141WP140273	2	53	1-IgG-binding protein	Q9R19	STAAI	Q9R19	49174	9.4	34	352	100	247	100	55	100	25.4	105	6	Mox	WP14	14_2 P041209_JV_StaAur	G5	WP14 G5	P041209_JV_1453B	141
10142WP140273	2	73	1-Hypothetical protein SAV1307	Q9R19	STAAI	Q9R19	47421	6.6	20	207	98	152	100	53	100	13.2	55	6	Mox	WP14	14_2 P041209_JV_StaAur	H5	WP14 H5	P041209_JV_1473B	142
10147WP140274	2	14	1-Probable malate:quinone oxidoreductase 2 (EC 1.1.99.16) (Malate dehydrogenase)	Q9R19	STAAI	Q9R19	49223	6.9	53	442	100	224	100	93	100	58.5	218	3	Mox	WP14	14_2 P041209_JV_StaAur	A6	WP14 A6	P041209_JV_1414B	147
10149WP140234	2	34	1-Probable malate:quinone oxidoreductase 2 (EC 1.1.99.16) (Malate dehydrogenase)	Q9R19	STAAI	Q9R19	49223	6.9	16	115	0	93	100	41	100	7.87	22	3	Mox	WP14	14_2 P041209_JV_StaAur	B6	WP14 B6	P041209_JV_1434B	148
10150WP140254	2	54	1-Probable malate:quinone oxidoreductase 2 (EC 1.1.99.16) (Malate dehydrogenase)	Q9R19	STAAI	Q9R19	49223	6.9	3	88	0	88	100	53	100	0	0	3	Mox	WP14	14_2 P041209_JV_StaAur	C6	WP14 C6	P041209_JV_1454B	152
10158WP140235	2	35	1-Hypothetical protein SAV1081	Q9R19	STAAI	Q9R19	44768	6.3	20	180	100	122	100	64	100	19.5	58	3	Mox	WP14	14_2 P041209_JV_StaAur	F6	WP14 F6	P041209_JV_1435B	158
10161WP140235	2	55	1-Multiple sugar-binding transport ATP-binding protein	Q9R19	STAAI	Q9R19	41509	6.4	14	214	0	203	100	59	100	23	11	5	Mox	WP14	14_2 P041209_JV_StaAur	G6	WP14 G6	P041209_JV_1435B	161
10163WP140275	2	75	1-Hypothetical protein SAV1603	Q9R19	STAAI	Q9R19	47716	7.1	14	67	0	48	100	31	100	6.88	18	2	Mox	WP14	14_2 P041209_JV_StaAur	H6	WP14 H6	P041209_JV_1475B	163
10166WP140236	2	36	1-Probable thiamine biosynthesis protein thl	Q9R19	STAAI	Q9R19	48313	6.8	45	459	100	276	100	65	100	48.5	183	6	Mox	WP14	14_2 P041209_JV_StaAur	B7	WP14 B7	P041209_JV_1436B	166
10167WP140256	2	56	1-Hypothetical protein SAV1627	Q9R19	STAAI	Q9R19	47308	8.2	22	109	100	49	100	17	95	9.64	60	4	Mox	WP14	14_2 P041209_JV_StaAur	C7	WP14 C7	P041209_JV_1456B	167

10314 WP 120119	1	19	1	Hypothetical protein SAV2485	Q9REB	STAA	Q9REB	30926.86914	9.3	24	258	100	187	100	70	100	8.12	71	Mox. N-3	WP-12	12.1	PM41130	SibaU	run 1+5	E4	WP-12 E4	PM41130_JV	314	
10314 WP 120119	1	19	1	Hypothetical protein SAV2485	Q9REB	TAGH_STAA	Q9REB	28988.75	9.2	1	37	37	37	100	37	100	0	1	1	Mox. N-1	WP-12	12.1	PM41130	SibaU	run 1+5	E4	WP-12 E4	PM41130_JV	314
10319 WP 120139	1	39	1	150S ribosomal protein L3	Q9P448	RL3_STAA	Q9P448	23703.48023	9.8	8	77	52	40	100	42	100	2.37	37	1	Mox. N-1	WP-12	12.1	PM41130	SibaU	run 1+5	F4	WP-12 F4	PM41130_JV	315
10319 WP 120212	2	12	1	150S ribosomal protein L3	Q9P448	RL3_STAA	Q9P448	23703.48023	9.8	20	211	100	123	100	48	100	17	88	4	Mox. N-4	WP-12	12.2	PM41130	SibaU	run 2+3	A5	WP-12 A5	PM41130_JV	319
10321 WP 120232	2	52	1	150S ribosomal protein L5	Q9P519	RL5_STAA	Q9P519	27575.91982	8.8	20	157	100	79	100	100	16.7	78	7	1	Mox. N-1	WP-12	12.2	PM41130	SibaU	run 2+3	C5	WP-12 C5	PM41130_JV	321
10323 WP 120213	2	13	1	Hypothetical protein SAV1288	Q9R116	STAA	Q9R116	28856.41982	6.2	18	197	100	87	100	39	100	12.3	110	4	Mox. N-4	WP-12	12.2	PM41130	SibaU	run 2+3	G5	WP-12 G5	PM41130_JV	323
10324 WP 120233	2	33	1	Probable inorganic polyphosphate(ATP-NAD) kinase (EC 2.7.2.3) (P _o ly(P) _i ATP-NAD kinase)	Q9P484	PFNK_STAA	Q9P484	30863.66016	7.9	11	67	0	33	100	33	100	4.34	34	1	Mox. N-1	WP-12	12.2	PM41130	SibaU	run 2+3	F5	WP-12 F5	PM41130_JV	324
10328 WP 120235	2	53	1	CarbB (Capsular polysaccharide synthesis enzyme CpsB)	Q9P566	Q7A2Y5_STAA	Q9P566	22528.17968	8.8	12	93	96	46	100	40	100	5.56	53	1	Mox. N-1	WP-12	12.2	PM41130	SibaU	run 2+3	G5	WP-12 G5	PM41130_JV	328
10331 WP 120214	2	14	1	MIA (SA0589 protein) (Hypothetical protein SAV0533) (MW0595 protein) (SUA)	Q9R1Y2	Q7A2V9_STAA	Q9R1Y2	28177.81055	8.4	13	236	100	163	100	43	100	16.2	73	5	Mox. N-5	WP-12	12.2	PM41130	SibaU	run 2+3	A6	WP-12 A6	PM41130_JV	331
10332 WP 120234	2	34	1	Hypothetical protein SAV2514	Q9R1C1	STAA	Q9R1C1	25746.74023	6.1	13	127	100	67	100	29	100	6.21	60	4	Mox. N-4	WP-12	12.2	PM41130	SibaU	run 2+3	B6	WP-12 B6	PM41130_JV	332
10338 WP 120235	2	38	1	150S ribosomal protein L1	Q9P2F9	RL1_STAA	Q9P2F9	24692.89693	9.0	18	351	100	259	100	143	100	27.4	92	3	Mox. N-3	WP-12	12.2	PM41130	SibaU	run 2+3	F6	WP-12 F6	PM41130_JV	338
10350 WP 120218	2	18	1	1-Glutamate isomerase (EC 5.1.1.3)	Q9R1V6	MURI_STAA	Q9R1V6	28907.49023	7.1	17	196	100	112	100	71	100	6.47	84	2	Mox. N-2	WP-12	12.2	PM41130	SibaU	run 2+3	A8	WP-12 A8	PM41130_JV	350
10351 WP 120238	2	38	1	Hypothetical protein SAV1649 (MW1699 protein)	Q9R1K4	STAA	Q9R1K4	31046.25977	9.0	15	117	100	48	100	41	100	4.72	69	3	Mox. N-3	WP-12	12.2	PM41130	SibaU	run 2+3	B8	WP-12 B8	PM41130_JV	351
10352 WP 120259	2	59	1	Hypothetical protein SAV1556 (MW1508 protein)	Q9R1U0	STAA	Q9R1U0	28636.13086	7.2	17	192	100	114	100	61	100	7.63	78	2	Mox. N-2	WP-12	12.2	PM41130	SibaU	run 2+3	C8	WP-12 C8	PM41130_JV	352
10352 WP 120259	2	59	1	1-Tetrapyrrole 5'-adenyltransferase (EC 2.2.1.74) (OAR37)	Q9A8Z7	SDAD_STAA	Q9A8Z7	29014.4707	7.8	16	135	100	52	100	30	100	8.08	83	2	Mox. N-2	WP-12	12.2	PM41130	SibaU	run 2+3	C8	WP-12 C8	PM41130_JV	352
10353 WP 120278	2	78	1	Probable malate:quinone oxidoreductase 2 (EC 1.1.99.16) (Malate dehydrogenase 2)	Q9S753	Q7A2X0_STAA	Q9S753	27272.83008	8.5	17	276	100	186	100	81	100	12.7	90	4	Mox. N-4	WP-12	12.2	PM41130	SibaU	run 2+3	D8	WP-12 D8	PM41130_JV	353
10354 WP 120219	2	19	1	1-Isocaproyl 2	Q9R300	MOOZ_STAA	Q9R300	56134.62108	6.1	3	72	72	72	100	57	100	0	3	3	Mox. N-3	WP-12	12.2	PM41130	SibaU	run 2+3	E8	WP-12 E8	PM41130_JV	354
10360 WP 120312	3	12	1	Senne acyltransferase (EC 2.3.1.30)	Q9R1Y4	CYSE_STAA	Q9R1Y4	23570.59977	9.4	5	265	265	100	104	100	0	5	5	Mox. N-5	WP-12	12.3	PM41130	SibaU	run 2+3	A9	WP-12 A9	PM41130_JV	360	
10361 WP 120332	3	32	1	GTP-ase-activating transcriptional pleiotropic repressor codY	Q9R1L6	CODY_STAA	Q9R1L6	28737.39338	5.9	17	139	100	55	100	44	100	7.87	84	2	Mox. N-2	WP-12	12.3	PM41130	SibaU	run 2+3	B9	WP-12 B9	PM41130_JV	361
10361 WP 120332	3	32	1	Hypothetical protein SAV0531 (MW0487 protein)	Q9R1W2	TRMHL_STAA	Q9R1W2	27221.34981	6.2	6	52	0	30	100	2.01	22	1	1	1	Mox. N-1	WP-12	12.3	PM41130	SibaU	run 2+3	B9	WP-12 B9	PM41130_JV	361
10366 WP 120335	3	53	1	ATP-binding protein (ABC transporter) protein (Oxyphosphotransferase) (VAD02742K3) (STAA)	Q9R1Y4	Q9R1Y4	27575.86914	7.0	16	236	100	163	100	75	100	11	73	5	Mox. N-5	WP-12	12.3	PM41130	SibaU	run 2+3	G9	WP-12 G9	PM41130_JV	366	
10373 WP 120374	3	74	1	1-Glucose inhibited division protein B	Q9R1Q5	GIDB_STAA	Q9R1Q5	27470.25	6.3	23	434	100	273	100	123	100	21.3	161	6	Mox. N-6	WP-12	12.3	PM41130	SibaU	run 2+3	D10	WP-12 D10	PM41130_JV	372
10383 WP 120316	3	16	1	Glycerocephaly diester	Q9R1C9	STAA	Q9R1C9	35282.87108	8.7	13	255	99	198	100	62	100	5.79	56	6	Mox. N-6	WP-12	12.3	PM41130	SibaU	run 2+3	A11	WP-12 A11	PM41130_JV	383
10384 WP 120336	3	36	1	130S ribosomal protein S3	Q9R5Z7	RS3_STAA	Q9R5Z7	24085.05078	9.8	23	968	100	403	100	118	100	37.1	165	5	Mox. N-5	WP-12	12.3	PM41130	SibaU	run 2+3	B11	WP-12 B11	PM41130_JV	384
10387 WP 120376	3	76	1	1-GTP pyrophosphokinase	Q9R1Y1	STAA	Q9R1Y1	25278.93945	6.2	11	102	46	65	100	26	98	3.24	37	3	Mox. N-3	WP-12	12.3	PM41130	SibaU	run 2+3	C11	WP-12 C11	PM41130_JV	386
10388 WP 120317	3	17	1	Hypothetical protein SAV1106	Q9R1T8	STAA	Q9R1T8	24030.21094	8.6	10	215	83	173	100	65	100	12.4	42	4	Mox. N-4	WP-12	12.3	PM41130	SibaU	run 2+3	D11	WP-12 D11	PM41130_JV	387
10388 WP 120317	3	17	1	230S ribosomal protein S3	Q9R5Z7	RS3_STAA	Q9R5Z7	24085.05078	9.8	11	109	99	96	100	34	100	6.86	53	2	Mox. N-2	WP-12	12.3	PM41130	SibaU	run 2+3	E11	WP-12 E11	PM41130_JV	388
10393 WP 120377	3	77	1	Hypothetical protein SAV0416	Q9R1W7	STAA	Q9R1W7	20938.08008	9.1	9	102	50	65	100	41	100	3.49	37	2	Mox. N-2	WP-12	12.3	PM41130	SibaU	run 2+3	H11	WP-12 H11	PM41130_JV	393
10394 WP 120318	3	18	1	1-Uracyl-DNA-glycosylase (EC 3.2.2.-) (UDG)	Q9R300	UNG_STAA	Q9R300	25092.60938	6.2	12	82	100	24	99	13	91	2.96	58	2	Mox. N-2	WP-12	12.3	PM41130	SibaU	run 2+3	A12	WP-12 A12	PM41130_JV	394
10395 WP 120339	3	39	1	230S ribosomal protein S4	Q9R1E4	RS4_STAA	Q9R1E4	22999.2207	10.0	9	57	0	30	100	30	100	2.85	27	1	Mox. N-1	WP-12	12.3	PM41130	SibaU	run 2+3	B12	WP-12 B12	PM41130_JV	395
10395 WP 120338	3	38	1	Urea phosphotransferase (EC 2.7.11) (UPP pyrophosphorylase) (UPP1) (UPP2)	Q9R5E6	UPP_STAA	Q9R5E6	23092.24023	6.1	15	87	100	26	99	22	98	5.2	61	3	Mox. N-3	WP-12	12.3	PM41130	SibaU	run 2+3	B12	WP-12 B12	PM41130_JV	395
10398 WP 120378	3	78	1	Probable GTP-binding protein engB	Q9R1B	ENGB_STAA	Q9R1B	22727.73047	6.8	9	83	77	43	100	43	100	2.69	40	1	Mox. N-1	WP-12	12.3	PM41130	SibaU	run 2+3	D12	WP-12 D12	PM41130_JV	398
10401 WP 120319	3	19	1	150S ribosomal protein L5	Q9R5S3	RL5_STAA	Q9R5S3	20253.73047	9.3	15	162	99	108	100	51	100	9.01	54	4	Mox. N-4	WP-12	12.3	PM41130	SibaU	run 2+3	E12	WP-12 E12	PM41130_JV	401
10403 WP 120359	3	59	1	150S ribosomal protein L5	Q9R5S3	RL5_STAA	Q9R5S3	20253.73047	9.3	26	521	100	408	100	146	100	56.1	113	5	Mox. N-5	WP-12	12.3	PM41130	SibaU	run 2+3	G12	WP-12 G12	PM41130_JV	403
10404 WP 120379	3	79	1	150S ribosomal protein L5	Q9R5S3	RL5_STAA	Q9R5S3	20253.73047	9.3	18	157	100	53	100	45	100	6.48	104	2	Mox. N-2	WP-12	12.3	PM41130	SibaU	run 2+3	F12	WP-12 F12	PM41130_JV	404
10407 WP 120432	4	32	1	1-Transcriptional regulator qaeR	P23217	QACR_STAA	P23217	22274.38086	8.3	7	115	0	86	100	51	100	4.54	29	2	Mox. N-2	WP-13	13.1	PM41130	SibaU	run 2+3	B1	WP-13 B1	PM41130_JV	407
10410 WP 120452	4	52	1	Hypothetical protein SAV1092	Q9R1V7	STAA	Q9R1V7	23901.86914	9.3	1	77	77	100	77	100	0	1	1	Mox. N-1	WP-13	13.1	PM41130	SibaU	run 2+3	C1	WP-13 C1	PM41130_JV	410	
10411 WP 120472	4	72	1	150S ribosomal protein L6	Q9R5S6	RL6_STAA	Q9R5S6	19774.41016	9.5	18	589	100	468	100	120	100	54.1	120	6	Mox. N-6	WP-13	13.1	PM41130	SibaU	run 2+3	D1	WP-13 D1	PM41130_JV	411
10412 WP 120413	4	13	1	150S ribosomal protein L6	Q9R5S6	RL6_STAA	Q9R5S6	19774.41016	9.5	12	307	100	241	100	69	100	9.54	66	6	Mox. N-6	WP-13	13.1	PM41130	SibaU	run 2+3	E1	WP-13 E1	PM41130_JV	412
10417 WP 120453	4	53	1	Glycerol uptake operon antiterminal regulatory protein	Q9R1H6	STAA	Q9R1H6	20209.9707	9.1	14	164	100	82	100	63	100	8.04	82	3	Mox. N-3	WP-13	13.1	PM41130	SibaU	run 2+3	G1	WP-13 G1	PM41130_JV	417

10419 WP 130414	4	14	Hypothetical protein UFF0247 protein SAV0252/SA0252 Sulfite oxidase reductase MraA 2 (EC 1.8.4.6) (Protein-methionine-S-oxide reductase)	Y024_STAAAM	Q9WVW7	19294.63096	9.3	7	164	0	134	0	134	59	100	842	30	3Ac	Mox. N-3Ac	WP 13	13.1 P041130_SibaU run 2+3	A2	WP 13 A2	P041130_JV_1314D	419	
10423 WP 130434	4	34	MSRA2_STAAAM	MSRA2_STAAAM	Q9RU63	20746.96094	6.4	13	384	100	272	100	75	100	15.2	112	6Ac	Mox. N-6Ac	WP 13	13.1 P041130_SibaU run 2+3	B2	WP 13 B2	P041130_JV_1334D	423		
10424 WP 130454	4	54	1ATP synthase delta chain (EC 3.6.3.14)	ATPD_STAAAM	Q9SF52	20457.75	6.2	11	338	100	277	100	89	100	13.4	61	6Ac	Mox. N-6Ac	WP 13	13.1 P041130_SibaU run 2+3	C2	WP 13 C2	P041130_JV_1354D	424		
10425 WP 130474	4	74	1Hypothetical protein SAV0830	Q9RH66_STAAAM	Q9RH66	20849.7793	8.9	8	171	40	135	100	46	100	4.74	36	4Ac	Mox. N-4Ac	WP 13	13.1 P041130_SibaU run 2+3	D2	WP 13 D2	P041130_JV_1374D	425		
10434 WP 130416	4	16	1Glutathione peroxidase homolog bsaA	BSAA_STAAAM	Q9RUG8	18277.18945	6.3	8	221	60	163	100	90	100	8.61	38	3Ac	Mox. N-3Ac	WP 13	13.1 P041130_SibaU run 2+3	A3	WP 13 A3	P041130_JV_1316D	434		
10435 WP 130436	4	36	1Hypothetical protein SAV2354	Q9RS1_STAAAM	Q9RS1	22010.24023	7.7	2	45	45	45	100	28	100	0	2Ac	Mox. N-2Ac	WP 13	13.1 P041130_SibaU run 2+3	B3	WP 13 B3	P041130_JV_1336D	435	MSMS 1335, 1086		
10437 WP 130456	4	56	130S ribosomal protein S2	RS2_STAAAM	Q9RUL5	29133.18945	5.4	13	295	0	262	100	85	100	15.1	33	4Ac	Mox. N-4Ac	WP 13	13.1 P041130_SibaU run 2+3	C3	WP 13 C3	P041130_JV_1356D	437		
10438 WP 130476	4	76	130S ribosomal protein L13	RL13_STAAAM	Q9RS51	29133.18945	5.4	12	87	78	47	100	102	100	4.76	40	4Ac	Mox. N-4Ac	WP 13	13.1 P041130_SibaU run 2+3	D3	WP 13 D3	P041130_JV_1376D	438		
10440 WP 130417	4	7	150S ribosomal protein L13	RL13_STAAAM	Q9RS51	16329.37012	9.3	20	612	100	501	100	119	100	47.5	111	5Ac	Mox. N-5Ac	WP 13	13.1 P041130_SibaU run 2+3	E3	WP 13 E3	P041130_JV_1317D	440		
10442 WP 130437	4	37	Phosphopantetheine adenylyltransferase (EC 2.7.7.3) (Pantetheine-phosphate 2-adenylyltransferase)	COAD_STAAAM	Q9RUX9	18473.4707	6.2	6	62	0	42	100	28	100	3.68	20	2Ac	Mox. N-2Ac	WP 13	13.1 P041130_SibaU run 2+3	F3	WP 13 F3	P041130_JV_1337D	442	MSMS 1228, 1718	
10443 WP 130457	4	37	1Signal transduction protein TRAP	Q7A2Q4_STAAAM	Q9F949	19592.53096	6.1	10	118	96	70	100	27	96	7.2	46	3Ac	Mox. N-3Ac	WP 13	13.1 P041130_SibaU run 2+3	F3	WP 13 F3	P041130_JV_1357D	442	MSMS 2174, 988	
10443 WP 130458	4	57	150S ribosomal protein L13	RL13_STAAAM	Q9RS51	16329.37012	9.3	13	288	100	211	100	85	100	7.74	77	4Ac	Mox. N-4Ac	WP 13	13.1 P041130_SibaU run 2+3	G3	WP 13 G3	P041130_JV_1357D	443		
10445 WP 130478	4	78	1Signal transduction protein TRAP	Q7A2Q4_STAAAM	Q9F949	19592.53096	6.1	14	604	100	517	100	158	100	47.6	87	6Ac	Mox. N-6Ac	WP 13	13.1 P041130_SibaU run 2+3	A4	WP 13 A4	P041130_JV_1318D	445		
10446 WP 130438	4	38	130S ribosomal protein S5	RS5_STAAAM	Q9RS38	17791.61914	9.9	16	331	100	265	100	105	100	32.5	66	4Ac	Mox. N-4Ac	WP 13	13.1 P041130_SibaU run 2+3	B4	WP 13 B4	P041130_JV_1338D	446		
10448 WP 130456	4	58	2Hypothetical protein SAV2568	Q9R70_STAAAM	Q9R70	19109.81055	7.8	10	144	38	108	100	75	100	9.57	36	2Ac	Mox. N-2Ac	WP 13	13.1 P041130_SibaU run 2+3	C4	WP 13 C4	P041130_JV_1358D	448		
10449 WP 130458	4	58	1Life competence protein required for DNA binding and uptake comEB	Q9R70_STAAAM	Q9R70	17563.76953	7.6	12	182	100	110	100	68	100	4.5	72	2Ac	Mox. N-2Ac	WP 13	13.1 P041130_SibaU run 2+3	C4	WP 13 C4	P041130_JV_1358D	448		
10450 WP 130478	4	78	150S ribosomal protein L25	RL25_STAAAM	Q9RWA2	23773.16038	9.4	9	220	79	179	100	91	100	3.65	41	3Ac	Mox. N-3Ac	WP 13	13.1 P041130_SibaU run 2+3	D4	WP 13 D4	P041130_JV_1378D	450		
10451 WP 130479	4	19	150S ribosomal protein L9	RL9_STAAAM	Q9RWF6	16449.80038	9.4	20	472	100	348	100	100	16.8	126	3Ac	Mox. N-3Ac	WP 13	13.1 P041130_SibaU run 2+3	E4	WP 13 E4	P041130_JV_1378D	451			
10451 WP 130419	4	19	3Hypothetical protein SAV0210	Q932K6_STAAAM	Q932K6	29589.10338	7.8	11	49	100	49	100	0	1Ac	Mox. N-1Ac	Mox. N-1Ac	WP 13	13.1 P041130_SibaU run 2+3	F4	WP 13 F4	P041130_JV_1319D	451				
10452 WP 130439	4	39	1Hypothetical protein SAV1752 Hypothetical protein MMV695	Q9R7B3_STAAAM	Q9R7B3	16725.11035	8.9	18	416	100	315	100	122	100	22.6	101	3Ac	Mox. N-3Ac	WP 13	13.1 P041130_SibaU run 2+3	F4	WP 13 F4	P041130_JV_1339D	452		
10454 WP 130479	4	79	130S ribosomal protein S7	RS7_STAAAM	Q9R62	17783.44922	10.0	5	454	454	100	171	100	0	0	0	0	0	WP 13	13.1 P041130_SibaU run 2+3	H4	WP 13 H4	P041130_JV_1379D	454		
10455 WP 130512	5	12	1D-tyrosyl-RNA(Tyr) deacylase (EC 3.1.-)	DTD_STAAAM	Q92420	16743.4707	6.6	7	83	0	53	100	53	100	4.07	30	1Ac	Mox. N-1Ac	WP 13	13.2 P041130_SibaU run 2+3	A5	WP 13 A5	P041130_JV_1339D	455		
10458 WP 130562	5	52	1D-tyrosyl-RNA(Tyr) deacylase (EC 3.1.-) (protein)	DTD_STAAAM	Q92420	16743.4707	6.6	5	82	0	52	100	52	100	3.09	30	1Ac	Mox. N-1Ac	WP 13	13.2 P041130_SibaU run 2+3	C5	WP 13 C5	P041130_JV_1359D	458		
10463 WP 130513	5	13	Hypothetical protein SAV0508 (MW0463 protein)	Q9RWP5_STAAAM	Q9RWP5	14809.42968	9.6	7	166	38	130	100	75	100	4.98	36	2Ac	Mox. N-2Ac	WP 13	13.2 P041130_SibaU run 2+3	E5	WP 13 E5	P041130_JV_1313E	463		
10464 WP 130533	5	33	Hypothetical protein SAV1947 (Hypothetical protein MMV7789)	Q9R731_STAAAM	Q9R731	18014.9707	6.8	13	271	100	179	100	66	100	9.96	92	5Ac	Mox. N-5Ac	WP 13	13.2 P041130_SibaU run 2+3	F5	WP 13 F5	P041130_JV_1333E	464		
10466 WP 130573	5	73	1Hypothetical protein SAV0604	Q9RWB8_STAAAM	Q9RWB8	19115.5	6.2	7	135	0	111	100	93	100	2.38	24	2Ac	Mox. N-2Ac	WP 13	13.2 P041130_SibaU run 2+3	H5	WP 13 H5	P041130_JV_1373E	466		
10467 WP 130514	5	14	1TcR transcription regulator	Q7A2L7_STAAAM	Q9F4G3	17510.38063	9.1	7	154	27	119	100	62	100	4.76	35	2Ac	Mox. N-2Ac	WP 13	13.2 P041130_SibaU run 2+3	A6	WP 13 A6	P041130_JV_1314E	467		
10470 WP 130554	5	54	150S ribosomal protein L22	RL22_STAAAM	Q9RS26	19287	9.9	14	265	100	190	100	84	100	22.5	75	3Ac	Mox. N-3Ac	WP 13	13.2 P041130_SibaU run 2+3	C6	WP 13 C6	P041130_JV_1354E	470		
10471 WP 130574	5	74	150S ribosomal protein L17	RL17_STAAAM	Q9RS46	13739.4502	9.8	4	409	409	100	145	100	0	0	0	0	0	WP 13	13.2 P041130_SibaU run 2+3	D6	WP 13 D6	P041130_JV_1374E	471		
10478 WP 130555	5	55	1Hypothetical protein SAV0606 (MW0548 protein)	MGRA_STAAAM	Q9RVT5	17135.94922	6.8	18	643	100	528	100	143	100	44.6	115	6Ac	Mox. N-6Ac	WP 13	13.2 P041130_SibaU run 2+3	G6	WP 13 G6	P041130_JV_1355E	478		
10480 WP 130575	5	75	1Hypothetical protein SAV0917	Q931V5_STAAAM	Q931V5	16996.94922	8.8	10	277	100	217	100	79	100	6.69	60	4Ac	Mox. N-4Ac	WP 13	13.2 P041130_SibaU run 2+3	H6	WP 13 H6	P041130_JV_1375E	480		
10481 WP 130516	5	16	150S ribosomal protein L11	RL11_STAAAM	Q9B443	14790.86035	9.0	7	227	0	199	100	141	100	24.3	28	2Ac	Mox. N-2Ac	WP 13	13.2 P041130_SibaU run 2+3	A7	WP 13 A7	P041130_JV_1316E	481		
10482 WP 130536	5	36	130S ribosomal protein S7	RS7_STAAAM	Q9R62	17783.44922	10.0	2	78	78	100	61	100	0	0	0	0	0	WP 13	13.2 P041130_SibaU run 2+3	B7	WP 13 B7	P041130_JV_1316E	482		
10486 WP 130517	5	17	250S ribosomal protein L11	RL11_STAAAM	Q9B443	14790.86035	9.0	1	44	44	100	44	100	0	0	0	0	0	WP 13	13.2 P041130_SibaU run 2+3	E7	WP 13 E7	P041130_JV_1317E	482		
10486 WP 130517	5	17	Immunodominant staphylococcal antigen A precursor	ISAA_STAAAM	Q9R689	24188.42968	5.9	4	72	65	34	100	34	100	1.48	38	1Ac	Mox. N-1Ac	WP 13	13.2 P041130_SibaU run 2+3	E7	WP 13 E7	P041130_JV_1317E	486		
10489 WP 130577	5	77	1Regulatory protein spx	SPX_STAAAM	P60378	15545.0498	6.1	10	156	96	100	49	100	4.04	56	3Ac	Mox. N-3Ac	WP 13	13.2 P041130_SibaU run 2+3	H7	WP 13 H7	P041130_JV_1377E	486	MSMS 2275, 1362		
10490 WP 130518	5	18	130S ribosomal protein S9	RS9_STAAAM	Q9RS52	14608.80957	10.6	9	108	65	70	100	27	98	4.28	38	3Ac	Mox. N-3Ac	WP 13	13.2 P041130_SibaU run 2+3	A8	WP 13 A8	P041130_JV_1318E	490	1178	
10491 WP 130538	5	38	ORF4 Hypothetical protein SAV0814 (Hypothetical protein SAV0953)	Q7A2T4_STAAAM	Q9ZNS7	14908.66992	7.9	10	267	92	222	100	97	100	4.67	45	3Ac	Mox. N-3Ac	WP 13	13.2 P041130_SibaU run 2+3	B8	WP 13 B8	P041130_JV_1338E	491		
10493 WP 130559	5	59	1Hypothetical protein SAV1706 (Hypothetical protein MMV649)	Q9R7F7_STAAAM	Q9R7F7	15216.4502	9.6	13	583	100	500	100	142	100	32	83	6Ac	Mox. N-6Ac	WP 13	13.2 P041130_SibaU run 2+3	C9	WP 13 C9	P041130_JV_1359E	493		
10494 WP 130578	5	78	150S ribosomal protein L24	RL24_STAAAM	Q9RS32	11529.37012	9.8	7	144	100	86	100	56	100	6.23	64	3Ac	Mox. N-3Ac	WP 13	13.2 P041130_SibaU run 2+3	D8	WP 13 D8	P041130_JV_1378E	494		
10495 WP 130519	5	19	Staphylococcal accessory regulator variant 1 (Staphylococcal accessory regulator A)	SARA_STAAAM	Q93600	14766.83984	7.8	13	329	100	253	100	83	100	48.5	76	4Ac	Mox. N-4Ac	WP 13	13.2 P041130_SibaU run 2+3	E8	WP 13 E8	P041130_JV_1319E	495		

10496 WP_130539	5	39	Staphylococcal accessory regulator variant (Staphylococcal accessory regulator A)	SARA_STAAM	Q59600	14765.93984	7.8	5	55	0	31	100	2.68	24	Mox. N-1Ac	WP-13	13.2 Pd41130_SibaU run 2-3	F8	Pd41130_JV_133E	496		
10497 WP_130559	5	59	R58 STAAAM	RS8_STAAM	Q98535	14821.98973	9.3	12	165	100	92	100	4.59	73	1Ac	WP-13	13.2 Pd41130_SibaU run 2-3	G8	Pd41130_JV_1359E	497		
10498 WP_130579	5	79	R59 STAAAM	RS9_STAAM	Q98535	14821.98973	9.3	19	356	100	252	100	34.3	104	4Ac	WP-13	13.2 Pd41130_SibaU run 2-3	H8	Pd41130_JV_1379E	498		
10501 WP_130612	6	12	Staphylococcal accessory regulator variant (Staphylococcal accessory regulator A)	SARA_STAAM	Q59600	14765.93984	7.8	5	65	0	44	100	2.81	21	Mox. N-1Ac	WP-13	13.3 Pd41130_SibaU run 2-3	A9	Pd41130_JV_1315E	501		
10502 WP_130632	6	32	L14 STAAAM	RL14_STAAM	Q98531	13241.20996	10.0	15	371	100	314	100	112	100	29	57	4Ac	WP-13	13.3 Pd41130_SibaU run 2-3	B9	Pd41130_JV_1332F	502
10502 WP_130632	6	32	R57 STAAAM	RS7_STAAM	Q98562	17783.34922	10.0	2	108	108	108	100	86	100	0	2Ac	WP-13	13.3 Pd41130_SibaU run 2-3	B9	Pd41130_JV_1332F	502	
10504 WP_130652	6	52	Hypothetical protein SAV2267 (Hypothetical protein MW2185)	SARV_STAAM	Q98505	13977.5498	9.1	6	77	0	55	100	3.1	22	1Ac	WP-13	13.3 Pd41130_SibaU run 2-3	C9	Pd41130_JV_1352F	504		
10504 WP_130652	6	52	Hypothetical protein SAV2267 (Hypothetical protein MW2185)	SARV_STAAM	Q98505	13977.5498	9.1	6	77	0	55	100	3.1	22	1Ac	WP-13	13.3 Pd41130_SibaU run 2-3	C9	Pd41130_JV_1352F	504		
10505 WP_130672	6	72	SaRr (Staphylococcal accessory regulator A)	SARR_STAAM	Q9F0R1	13717.37988	9.3	6	155	36	119	100	2.15	36	3Ac	WP-13	13.3 Pd41130_SibaU run 2-3	D9	Pd41130_JV_1372F	505		
10509 WP_130673	6	73	SaRr (Staphylococcal accessory regulator A)	SARR_STAAM	Q9F0R1	13717.37988	9.3	10	476	100	417	100	27.3	99	5Ac	WP-13	13.3 Pd41130_SibaU run 2-3	H9	Pd41130_JV_1372F	509		
10510 WP_130614	6	14	RicC (acyl-carrier protein) synthase (EC 1.7.8.7) (HobA-Cp synthase) (HobA-Cp synthase)	ACPS_STAAM	Q98514	13682.11035	7.1	3	64	64	64	100	54	100	0	3Ac	WP-13	13.3 Pd41130_SibaU run 2-3	A10	Pd41130_JV_1314E	510	
10512 WP_130634	6	34	Hypothetical protein SAV0832 (MW0785)	Q98VH4_STAAM	Q98VH4	13705.0498	6.7	11	402	100	339	100	91	100	14	63	5Ac	WP-13	13.3 Pd41130_SibaU run 2-3	B10	Pd41130_JV_1334F	512
10519 WP_130654	6	54	RBF1 Ribosome-binding factor A	RBFA_STAAM	Q9BUK2	13505.98047	7.9	9	249	56	212	100	17.5	37	3Ac	WP-13	13.3 Pd41130_SibaU run 2-3	C10	Pd41130_JV_1354F	515		
10519 WP_130654	6	54	RBF2 Ribosome-binding factor A	RBFA_STAAM	Q9BUK2	13505.98047	7.9	9	249	56	212	100	17.5	37	3Ac	WP-13	13.3 Pd41130_SibaU run 2-3	C10	Pd41130_JV_1354F	515		
10519 WP_130654	6	54	RBF3 Ribosome-binding factor A	RBFA_STAAM	Q98S23	10598.99961	9.8	3	158	158	100	76	100	0	3Ac	WP-13	13.3 Pd41130_SibaU run 2-3	C10	Pd41130_JV_1354F	515		
10519 WP_130654	6	54	RBF4 Ribosome-binding factor A	RBFA_STAAM	Q98S23	10598.99961	9.8	3	158	158	100	76	100	0	3Ac	WP-13	13.3 Pd41130_SibaU run 2-3	C10	Pd41130_JV_1354F	515		
10519 WP_130654	6	54	RBF5 Ribosome-binding factor A	RBFA_STAAM	Q98S23	10598.99961	9.8	3	158	158	100	76	100	0	3Ac	WP-13	13.3 Pd41130_SibaU run 2-3	C10	Pd41130_JV_1354F	515		
10519 WP_130654	6	54	RBF6 Ribosome-binding factor A	RBFA_STAAM	Q98S23	10598.99961	9.8	3	158	158	100	76	100	0	3Ac	WP-13	13.3 Pd41130_SibaU run 2-3	C10	Pd41130_JV_1354F	515		
10519 WP_130654	6	54	RBF7 Ribosome-binding factor A	RBFA_STAAM	Q98S23	10598.99961	9.8	3	158	158	100	76	100	0	3Ac	WP-13	13.3 Pd41130_SibaU run 2-3	C10	Pd41130_JV_1354F	515		
10519 WP_130654	6	54	RBF8 Ribosome-binding factor A	RBFA_STAAM	Q98S23	10598.99961	9.8	3	158	158	100	76	100	0	3Ac	WP-13	13.3 Pd41130_SibaU run 2-3	C10	Pd41130_JV_1354F	515		
10519 WP_130654	6	54	RBF9 Ribosome-binding factor A	RBFA_STAAM	Q98S23	10598.99961	9.8	3	158	158	100	76	100	0	3Ac	WP-13	13.3 Pd41130_SibaU run 2-3	C10	Pd41130_JV_1354F	515		
10519 WP_130654	6	54	RBF10 Ribosome-binding factor A	RBFA_STAAM	Q98S23	10598.99961	9.8	3	158	158	100	76	100	0	3Ac	WP-13	13.3 Pd41130_SibaU run 2-3	C10	Pd41130_JV_1354F	515		
10520 WP_130615	6	15	Hypothetical protein SAV1525 (Hypothetical protein MW1478)	Q9BTW8_STAAM	Q9BTW8	13322.09961	6.8	5	180	47	143	100	55	100	6.83	37	3Ac	WP-13	13.3 Pd41130_SibaU run 2-3	E10	Pd41130_JV_1335F	520
10522 WP_130655	6	55	Hypothetical protein SAV1525 (Hypothetical protein MW1478)	Q9BTW8_STAAM	Q9BTW8	13322.09961	6.8	4	96	50	59	100	5.81	37	1Ac	WP-13	13.3 Pd41130_SibaU run 2-3	G10	Pd41130_JV_1335F	522		
10522 WP_130655	6	55	Hypothetical protein SAV1525 (Hypothetical protein MW1478)	Q9BTW8_STAAM	Q9BTW8	13322.09961	6.8	4	96	50	59	100	5.81	37	1Ac	WP-13	13.3 Pd41130_SibaU run 2-3	G10	Pd41130_JV_1335F	522		
10524 WP_130675	6	75	R516 STAAAM	RS16_STAAM	Q9BUK2	10226.54004	9.9	5	257	0	228	124	100	41.1	28	2Ac	WP-13	13.3 Pd41130_SibaU run 2-3	H10	Pd41130_JV_1379F	524	
10524 WP_130675	6	75	R517 STAAAM	RS7_STAAM	Q98W82	17783.34922	10.0	2	109	108	100	94	100	0	2Ac	WP-13	13.3 Pd41130_SibaU run 2-3	H10	Pd41130_JV_1379F	524		
10524 WP_130675	6	75	Hypothetical protein SAV1882 (Hypothetical protein MW1822)	Q98S29_STAAM	Q98S29	10316.63965	10.1	6	82	0	56	100	100	3.24	24	1Ac	WP-13	13.3 Pd41130_SibaU run 2-3	H10	Pd41130_JV_1379F	524	
10526 WP_130616	6	16	R505 ribosomal protein L31 type B	RL31B_STAAM	Q98SD9	9716.790273	8.0	8	227	100	150	100	120	100	45	77	2Ac	WP-13	13.3 Pd41130_SibaU run 2-3	A11	Pd41130_JV_1316F	526
10529 WP_130636	6	36	R505 ribosomal protein L21	RL21_STAAM	Q9BTG6	11326.12012	9.8	6	89	0	59	100	1.57	30	Mox. N-1Ac	WP-13	13.3 Pd41130_SibaU run 2-3	B11	Pd41130_JV_1336F	529		
10529 WP_130636	6	36	R505 ribosomal protein L21	RL21_STAAM	Q9BTG6	11326.12012	9.8	6	89	0	59	100	1.57	30	Mox. N-1Ac	WP-13	13.3 Pd41130_SibaU run 2-3	B11	Pd41130_JV_1336F	529		
10529 WP_130636	6	36	R505 ribosomal protein L21	RL21_STAAM	Q9BTG6	11326.12012	9.8	6	89	0	59	100	1.57	30	Mox. N-1Ac	WP-13	13.3 Pd41130_SibaU run 2-3	B11	Pd41130_JV_1336F	529		
10529 WP_130636	6	36	R505 ribosomal protein L21	RL21_STAAM	Q9BTG6	11326.12012	9.8	6	89	0	59	100	1.57	30	Mox. N-1Ac	WP-13	13.3 Pd41130_SibaU run 2-3	B11	Pd41130_JV_1336F	529		
10529 WP_130636	6	36	R505 ribosomal protein L21	RL21_STAAM	Q9BTG6	11326.12012	9.8	6	89	0	59	100	1.57	30	Mox. N-1Ac	WP-13	13.3 Pd41130_SibaU run 2-3	B11	Pd41130_JV_1336F	529		
10529 WP_130636	6	36	R505 ribosomal protein L21	RL21_STAAM	Q9BTG6	11326.12012	9.8	6	89	0	59	100	1.57	30	Mox. N-1Ac	WP-13	13.3 Pd41130_SibaU run 2-3	B11	Pd41130_JV_1336F	529		
10529 WP_130636	6	36	R505 ribosomal protein L21	RL21_STAAM	Q9BTG6	11326.12012	9.8	6	89	0	59	100	1.57	30	Mox. N-1Ac	WP-13	13.3 Pd41130_SibaU run 2-3	B11	Pd41130_JV_1336F	529		
10529 WP_130636	6	36	R505 ribosomal protein L21	RL21_STAAM	Q9BTG6	11326.12012	9.8	6	89	0	59	100	1.57	30	Mox. N-1Ac	WP-13	13.3 Pd41130_SibaU run 2-3	B11	Pd41130_JV_1336F	529		
10529 WP_130636	6	36	R505 ribosomal protein L21	RL21_STAAM	Q9BTG6	11326.12012	9.8	6	89	0	59	100	1.57	30	Mox. N-1Ac	WP-13	13.3 Pd41130_SibaU run 2-3	B11	Pd41130_JV_1336F	529		
10529 WP_130636	6	36	R505 ribosomal protein L21	RL21_STAAM	Q9BTG6	11326.12012	9.8	6	89	0	59	100	1.57	30	Mox. N-1Ac	WP-13	13.3 Pd41130_SibaU run 2-3	B11	Pd41130_JV_1336F	529		
10529 WP_130636	6	36	R505 ribosomal protein L21	RL21_STAAM	Q9BTG6	11326.12012	9.8	6	89	0	59	100	1.57	30	Mox. N-1Ac	WP-13	13.3 Pd41130_SibaU run 2-3	B11	Pd41130_JV_1336F	529		
10529 WP_130636	6	36	R505 ribosomal protein L21	RL21_STAAM	Q9BTG6	11326.12012	9.8	6	89	0	59	100	1.57	30	Mox. N-1Ac	WP-13	13.3 Pd41130_SibaU run 2-3	B11	Pd41130_JV_1336F	529		
10529 WP_130636	6	36	R505 ribosomal protein L21	RL21_STAAM	Q9BTG6	11326.12012	9.8	6	89	0	59	100	1.57	30	Mox. N-1Ac	WP-13	13.3 Pd41130_SibaU run 2-3	B11	Pd41130_JV_1336F	529		
10529 WP_130636	6	36	R505 ribosomal protein L21	RL21_STAAM	Q9BTG6	11326.12012	9.8	6	89	0	59	100	1.57	30	Mox. N-1Ac	WP-13	13.3 Pd41130_SibaU run 2-3	B11	Pd41130_JV_1336F	529		
10529 WP_130636	6	36	R505 ribosomal protein L21	RL21_STAAM	Q9BTG6	11326.12012	9.8	6	89	0	59	100	1.57	30	Mox. N-1Ac	WP-13	13.3 Pd41130_SibaU run 2-3	B11	Pd41130_JV_1336F	529		
10529 WP_130636	6	36	R505 ribosomal protein L21	RL21_STAAM	Q9BTG6	11326.12012	9.8	6	89	0	59	100	1.57	30	Mox. N-1Ac	WP-13	13.3 Pd41130_SibaU run 2-3	B11	Pd41130_JV_1336F	529		
10529 WP_130636	6	36	R505 ribosomal protein L21	RL21_STAAM	Q9BTG6	11326.12012	9.8	6	89	0	59	100	1.57	30	Mox. N-1Ac	WP-13	13.3 Pd41130_SibaU run 2-3	B11	Pd41130_JV_1336F	529		
10529 WP_130636	6	36	R505 ribosomal protein L21	RL21_STAAM	Q9BTG6	11326.12012	9.8	6	89	0	59	100	1.57	30	Mox. N-1Ac	WP-13	13.3 Pd41130_SibaU run 2-3	B11	Pd41130_JV_1336F	529		
10529 WP_130636	6	36	R505 ribosomal protein L21	RL21_STAAM	Q9BTG6	11326.12012	9.8	6	89	0	59	100	1.57	30	Mox. N-1Ac	WP-13	13.3 Pd41130_SibaU run 2-3	B11	Pd41130_JV_1336F	529		
10529 WP_130636	6	36	R505 ribosomal protein L21	RL21_STAAM	Q9BTG6	11326.12012	9.8	6	89	0	59	100	1.57	30	Mox. N-1Ac	WP-13	13.3 Pd41130_SibaU run 2-3	B11	Pd41130_JV_1336F	529		
10529 WP_130636	6	36	R505 ribosomal protein L21	RL21_STAAM	Q9BTG6	11326.12012	9.8	6	89	0	59	100	1.57	30	Mox. N-1Ac	WP-13	13.3 Pd41130_SibaU run 2-3	B11	Pd41130_JV_1336F	529		
10529 WP_130636	6	36	R505 ribosomal protein L21	RL21_STAAM	Q9BTG6	11326.12012	9.8	6	89	0	59	100	1.57	30	Mox. N-1Ac	WP-13	13.3 Pd41130_SibaU run 2-3	B11	Pd41130_JV_1336F	529		
10529 WP_130636	6	36	R505 ribosomal protein L21	RL21_STAAM	Q9BTG6	11326.12012	9.8	6	89	0	59	100	1.57	30	Mox. N-1Ac	WP-13	13.3 Pd41130_SibaU run 2-3	B11	Pd41130_JV_1336F	529		
10529 WP_130636	6	36	R505 ribosomal protein L21	RL21_STAAM	Q9BTG6	11326.12012	9.8	6	89	0	59	100	1.57	30	Mox. N-1Ac	WP-13	13.3 Pd41130_SibaU run 2-3	B11	Pd41130_JV_1336F	529		
10529 WP_130636	6	36	R505 ribosomal protein L21	RL21_STAAM	Q9BTG6	11326.12012	9.8	6	89	0	59	100	1.57	30	Mox. N-1Ac	WP-13	13.3 Pd41130_SibaU run 2-3	B11	Pd41130_JV_1336F	529		
10529 WP_130636	6	36	R505 ribosomal protein L21	RL21_STAAM	Q9BTG6	11326.12012	9.8	6	89	0	59	100	1.57	30	Mox. N-1Ac	WP-13	13.3 Pd41130_SibaU run					

Spot number	Final Identification	Accession number Higher in WT	Remarks	Master Spot
24	(Q9L534) Major cold shock protein CspA	Q9L534		2539
46	(Q99TN9) Transcription elongation factor greA (Transcript cleavage factor greA); GRE_A_STAAM	Q99TN9		2337
155	(Q99W39) Hypothetical protein SAV0570; Q99W39	Q99W39		2156
301	(Q99R57) Hypothetical protein SAV2581; Q99R57	Q99R57		1696
354	(Q99WA5) spoVG protein (Stage V sporulation protein G homologue); Q99WA5; MSMS 2456.1 (Me-ester) + 1704.9 + 2442.1 + 2071.0 + 1720.9 (Mox) + 2087.0 (Mox)	Q99WA5		no match
377	(P95843) Serine-protein kinase rsbW (EC 2.7.1.37) (Anti-sigma-B factor) (Sigma-B negative effector	P95843		2418
386	(Q99VP7) Hypothetical protein SAV0726; Q99VP7	Q99VP7		1716
395	(Q99RU5) Hypothetical protein SAV2328; Q99RU5	Q99RU5		1643
538	(Q99RX1) Hypothetical protein SAV2302 (MW2220 protein); Q99RX1	Q99RX1		1551
540	(P95843) Serine-protein kinase rsbW (EC 2.7.1.37) (Anti-sigma-B factor) (Sigma-B negative effector ; RSBW_STAAM; MSMS 1910.0 + 1694.8 + 1304.7 + 1413.6 + 1429.6 (Mox) + 979.6	P95843		no match
689	(Q53485) Alkaline shock protein 23; AS23_STAAM	Q53485	minor isoform of 847	2315
847	(Q53485) Alkaline shock protein 23	Q53485	major isoform	2319

862	(Q99R69) Immunodominant staphylococcal antigen A precursor; ISAA_STAAM	Q99R69		2010
866	(Q99SD6) Hypothetical protein SAV122; Q99SD6; MSMS 1895.1 + 1400.6 + 2177.1 + 2548.3 + 1642.8 + 1658.8 (Mox)	Q99SD6		no match
926	(P50588) Nucleoside diphosphate kinase (EC 2.7.4.6) (NDK) (NDP kinase) (Nucleoside-2-P kinase)	P50588		2407
1018	(Q53485) Alkaline shock protein 23	Q53485	minor isoform of 847	2320
1159	(Q99X63) Capsular polysaccharide synthesis enzyme Cap5F; Q99X63	Q99X63		1299
1203	(Q99VU1) Hypothetical protein SAV0680; Q99VU1; MSMS 1980.0 + 1358.6 + 968.5 + 1555.8 + 1374.6 (Mox) + 1571.8 (Mox)	Q99VU1		no match
1207	(Q99T24) Hypothetical protein SAV1854 (Hypothetical protein MW1795); Q99T24; MSMS 2205.1 (NG) + 1840.9 (NG) + 2775.5 (NG) + 1917.1 + 1346.8 +	Q99T24		no match
1292	(P60087) Arginase (EC 3.5.3.1)	P60087		1706
1356	(Q99W71) Hypothetical protein SAV0532; Q99W71	Q99W71		2260
1517	(Q99SD4) UDP-N-acetylglucosamine 1-carboxyvinyltransferase 2 (EC 2.5.1.7) (Enoylpyruvate transferas; MUA2_STAAM	Q99SD4	minor isoform of 1627	1305
1627	(Q99SD4) UDP-N-acetylglucosamine 1-carboxyvinyltransferase 2 (EC 2.5.1.7) (Enoylpyruvate transferas; MUA2_STAAM; MSMS 1185.7 + 1535.8 + 2284.2 + 1634.8 + 1366.6 (Mox) + 1805.0	Q99SD4	major isoform	no match

1692	(Q9ZHA3) YLME (Hypothetical protein SA1031) (Hypothetical protein SAV1188)	Q9ZHA3	2063
1762	(Q9RMI3) Trans-2-enoyl-ACP reductase	Q9RMI3	856
1767	(Q99W83) Hypothetical protein SAV0520 (Hypothetical protein MW0475)	Q99W83	2210
1821	(Q99VW4) Hypothetical protein SAV0657 (Hypothetical protein MW0619); Q99VW4	Q99VW4	2353
1934	(Q99U11) Ansa protein (Probable L-asparaginase)	Q99U11	1873
1976	(Q99RC1) Hypothetical protein SAV2514; Q99RC1	Q99RC1	no match
1988	(Q99WA3) Ribose-phosphate pyrophosphokinase (EC 2.7.6.1) (RPPK) (Phosphoribosyl pyrophosphate synth; KPRS_STAAM	Q99WA3	1804
2063	(Q931F9) Hypothetical protein SAV2341	Q931F9	1760
2085	(Q99TH5) Glyceraldehyde 3-phosphate dehydrogenase 2 (EC 1.2.1.59) (GAPDH 2)	Q99TH5	1446
2240	(Q99W08) Hypothetical protein SAV0604; Q99W08	Q99W08	2452
2994	(Q99VH8) Hypothetical protein SAV0828; Q99VH8; MSMS 2594.4 + 1689.8 (Mox) + 1516.8 + 2466.2	Q99VH8	no match
4245	(Q99WU4) Hypothetical protein SAV0282 (Hypothetical protein MW0258); Q99WU4	Q99WU4	no match

4402	(Q99SB5) Hypothetical protein SAV2144 (Hypothetical protein MW2068); Q99SB5	Q99SB5	2154
4484	(Q99UQ2) Methionyl-tRNA formyltransferase (EC 2.1.2.9); FMT_STAAM	Q99UQ2	1630
4644	(P72373) CAP8G (Capsular polysaccharide synthesis enzyme CAP5G); P72373; MSMS 2265.2 + 1648.8 + 1520.7 + 1981.0 + 2137.1	P72373	no match
1406L	(Q99SI7) SigmaB regulation protein RsbJ; Q99SI7	Q99V34	mixture 1631
Higher in fmt mutant			
149	(Q99TN9) Transcription elongation factor greA (Transcript cleavage factor greA); GRE_A_STAAM	Q99TN9	2341
219	(Q9L534) Major cold shock protein CspA; Q9L534	Q9L534	no match
521	(Q99R35) L-lactate dehydrogenase 2 (EC 1.1.1.27) (L-LDH 2); LDH2_STAAM	Q99R35	1542
1143	(Q99W86) Lysyl-tRNA synthetase (EC 6.1.1.6) (Lysine--tRNA ligase) (LysRS); SYK_STAAM AND (Q99UL7) ATP-dependent hsl protease ATP-binding subunit hslU; HSLU_STAAM	Q99W86	no match
1254	(Q99X82) Superoxide dismutase [Mn/Fe] 2 (EC 1.15.1.1); SODN_STAAM	Q99X82	2205
1464	(Q99UQ2) Methionyl-tRNA formyltransferase (EC 2.1.2.9); FMT_STAAM	Q99UQ2	mutant fmt, new spot no match

1760	(Q93218) Tetracycline resistance protein tetM (TetA(M)); TETM_STAAM	Q93218		no match
1778	(Q9F4L4) Peptide deformylase (EC 3.5.1.88) (PDF) (Polypeptide deformylase); DEF_STAAM	Q9F4L4		no match

Fold Change	S aureus Mu50 RefSeq Accession Number	Description / Reference	Comment / Reference
9.17	NP_372335	serine protease SP4 (gene:sp4)	upregulated by Agp in postexponential phase, night process Aur [1]
8.1	NP_372333	serine protease SP3 (gene:sp3)	upregulated by Agp in postexponential phase, night process Aur [1]
8.02	NP_372337	serine protease SP4 (gene:sp4)	upregulated by Agp in postexponential phase, night process Aur [1]
5.89	NP_372461	truncated nsp-w protein	extracellular, facilitates immune response evasion [1]
5.17	NP_372461	truncated nsp-w protein	extracellular, facilitates immune response evasion [2]
4.98	NP_370736	hypothetical protein, similar to lysostaphin precursor	lucR, downregulated by sigB [3]
3.88	NP_372458	hypothetical protein similar to synergmenotopic toxin precursor, St. thermophilus	extracellular, facilitates immune response evasion [2]
3.61	NP_372462	hypothetical protein, similar to transcription regulator LysR family [8]	extracellular, facilitates immune response evasion [2]
3.58	NP_372460	transcription factor protein	activated by an operon, repressed by sigB [4]
3.56	NP_372456	serotype O1, gene:serO1	
2.99	NP_370949	hypothetical protein, similar to exotoxin 2	
2.9	NP_370944	hypothetical protein, similar to cell surface protein Mspw	
2.7	NP_372533	hypothetical protein, similar to cell surface protein Mspw	
2.28	NP_371505	hypothetical protein, similar to cell surface protein Mspw	negatively regulated by sigB, negative regulator of budin production
2.22	NP_372189	serine protease SP4 (gene:sp4)	
2.1	NP_371726	serine protease SP4 (gene:sp4)	
0.4	NP_371724	serine protease SP4 (gene:sp4)	
0.39	NP_371724	serine protease SP4 (gene:sp4)	
0.38	NP_371866	serine protease SP4 (gene:sp4)	
0.38	NP_371866	serine protease SP4 (gene:sp4)	
0.38	NP_371729	serine protease SP4 (gene:sp4)	
0.33	NP_372154	serine protease SP4 (gene:sp4)	
0.32	NP_370754	serine protease SP4 (gene:sp4)	activated by sigB [4]
0.23	NP_370811	serine protease SP4 (gene:sp4)	activated by sigB and sigB [4]
0.14	NP_370811	serine protease SP4 (gene:sp4)	
0.13	NP_370876	serine protease SP4 (gene:sp4)	repressed by sigB, activated by sigB [4]
0.13	NP_370811	serine protease SP4 (gene:sp4)	repressed by sigB, activated by sigB [4]
0.12	NP_370888	serine protease SP4 (gene:sp4)	repressed by sigB, activated by sigB [4]
0.12	NP_370877	serine protease SP4 (gene:sp4)	repressed by sigB, activated by sigB [4]
0.12	NP_372072	serine protease SP4 (gene:sp4)	activated by sigB [3]
0.1	NP_370879	serine protease SP4 (gene:sp4)	repressed by sigB, activated by sigB [4]
0.09	NP_370878	serine protease SP4 (gene:sp4)	repressed by sigB, activated by sigB [4]
0.09	NP_370882	serine protease SP4 (gene:sp4)	repressed by sigB, activated by sigB [4]
0.08	NP_370882	serine protease SP4 (gene:sp4)	repressed by sigB, activated by sigB [4]
0.08	NP_370881	serine protease SP4 (gene:sp4)	repressed by sigB, activated by sigB [4]
0.07	NP_370885	serine protease SP4 (gene:sp4)	repressed by sigB, activated by sigB [4]
0.07	NP_370883	serine protease SP4 (gene:sp4)	repressed by sigB, activated by sigB [4]
0.07	NP_370887	serine protease SP4 (gene:sp4)	repressed by sigB, activated by sigB [4]
0.06	NP_370884	serine protease SP4 (gene:sp4)	repressed by sigB, activated by sigB [4]
0.06	NP_372729	serine protease SP4 (gene:sp4)	repressed by sigB, activated by sigB [4]
0.06	NP_370886	serine protease SP4 (gene:sp4)	repressed by sigB, activated by sigB [4]
0.03	NP_372149	serine protease SP4 (gene:sp4)	repressed by sigB, activated by sigB [4]
0.02	NP_372706	serine protease SP4 (gene:sp4)	solely activated by sigB [4]
8.21	NP_370960	serine protease SP4 (gene:sp4)	
5.73	NP_370735	serine protease SP4 (gene:sp4)	
5.36	NP_372534	serine protease SP4 (gene:sp4)	
5.12	NP_370861	serine protease SP4 (gene:sp4)	
3.87	NP_370793	serine protease SP4 (gene:sp4)	
3.65	NP_370792	serine protease SP4 (gene:sp4)	
3.59	NP_371500	serine protease SP4 (gene:sp4)	
3.5	NP_372674	serine protease SP4 (gene:sp4)	
3.19	NP_372901	serine protease SP4 (gene:sp4)	
2.93	NP_372184	serine protease SP4 (gene:sp4)	
2.89	NP_370789	serine protease SP4 (gene:sp4)	
2.83	NP_372185	serine protease SP4 (gene:sp4)	
2.55	NP_370727	serine protease SP4 (gene:sp4)	
2.45	NP_372382	serine protease SP4 (gene:sp4)	
2.36	NP_371859	serine protease SP4 (gene:sp4)	
2.36	NP_372458	serine protease SP4 (gene:sp4)	
2.19	NP_372381	serine protease SP4 (gene:sp4)	
2.1	NP_371859	serine protease SP4 (gene:sp4)	
2.04	NP_372907	serine protease SP4 (gene:sp4)	
2.04	NP_372907	serine protease SP4 (gene:sp4)	
2.04	NP_372907	serine protease SP4 (gene:sp4)	
0.48	NP_372193	serine protease SP4 (gene:sp4)	
0.45	NP_372197	serine protease SP4 (gene:sp4)	
0.44	NP_370982	serine protease SP4 (gene:sp4)	
0.44	NP_371626	serine protease SP4 (gene:sp4)	
0.41	NP_373198	serine protease SP4 (gene:sp4)	
0.41	NP_370960	serine protease SP4 (gene:sp4)	
0.39	NP_372940	serine protease SP4 (gene:sp4)	
0.39	NP_371804	serine protease SP4 (gene:sp4)	
0.36	NP_372813	serine protease SP4 (gene:sp4)	

Supporting Information

Supporting Table 1, A&B

These tables list the identified proteins in two parts. Table 1B lists the output from the MS search software, including a number of Mascot protein and peptide scores (see Materials and Methods Section) and internal tracking codes for the samples. A small number of spots could not be matched between the Sypro Ruby analytical and the Coomassie preparative gels (denoted 'unmatched'). The spots were processed in two batches, one with 11 microtiterplates (WP01 to WP11) and one with 5 plates (WP12 to WP 16). Search parameters were slightly different between those two batches as described in the Experimental section.

Table 1A lists the same spots but now including all primary and secondary UniProt IDs and accession numbers, SAV numbers and spot parameters (Volume, Area, Peak Height, Observed pI, Observed MW and X,Y coordinates) from the image analysis software. %Vol indicates the normalized spot volume expressed as percentage of the cumulative spot volume. A small number of spots was manually matched to the master gel and therefore has no value (ND) for some of these spot parameters.

Supporting Table 2

This Table lists all the significant differences between the *S. aureus Mu50* and its *fmt* mutant (see text). The Master Spot numbers of those spots matching to the Reference Map (Fig. 1 and Suppl. Table 1) are also listed, where applicable.

Supporting Table 3

List of differentially expressed genes in *S. aureus Mu50 fmt* mutant NB1004-BFC0001.

Hypothetical genes without any annotation were omitted for place reason. Genes that increase

virulence are labelled red and genes that decrease virulence are labelled blue. Cut-off: < or >2 fold. Result of three RNAs per comparator.

References for Supporting Table 3

- [1] Shaw, L., Golonka, E., Potempa, J., Foster, S.J., *Microbiol.* 2004, 150, 217-228.
- [2] Buckling, A., Neilson, J., Lindsay, J., French-Constant, R., *et al.*, *J Bact.* 2005, 187, 2917-2919.
- [3] Bischoff, M., Dunman, P., Kormanec, J., Macapagal, D., *et al.*, *J Bact.* 2004, 186, 4085-4099.
- [4] Goerke, C., Fluckiger, U., Steinhuber, A., Bisanzio, V., *et al.*, *Infect Immun.* 2005, 73, 3415-3421.
- [5] Benton, B. M., Zhang, J. P., Bond, S., Pope, C., *et al.*, *J Bact.* 2004, 186, 8478-8489.
- [6] Bae, T., Banger, A. K., Wallace, A., Glass, E.M., *et al.*, *Proc Natl Acad Sci USA* 2004, 101, 12312-12317.