

Supplementary Table 9. Boundary accuracy of pORFs. To examine boundary accuracy, pORFs were compared with ORFs whose translational boundaries have been validated by their N-termini sequences (from EcoGene). We identified 803 pORFs mapped to the validated ORFs (~89%), of which 499 pORFs represent the identical 5' and 3' boundaries (accuracy = ~62%). When we considered the translation start codon selected from the nearest peptide(s) found (npORF), 507 pORFs (accuracy = ~63%) were matched with the validated ORFs.

EG Number	Gene	Len	bnum	Strand	Left	Right	pORF	Decision	npORF	Left	Right	Decision
EG10998	thrA	820	b0002	FWD	337	2799	pORF+_337	equal	npORF+_337	337	2799	equal
EG11000	thrC	428	b0004	FWD	3734	5020	pORF+_3734	equal	npORF+_3734	3734	5020	equal
EG11556	talB	317	b0008	FWD	8238	9191	pORF+_8175	inside	npORF+_8175	8238	9191	equal
EG10241	dnaK	638	b0014	FWD	12163	14079	pORF+_12163	equal	npORF+_12163	12163	14079	equal
EG10240	dnaJ	376	b0015	FWD	14168	15298	pORF+_14138	inside	npORF+_14138	14168	15298	equal
EG10652	nhaA	388	b0019	FWD	17489	18655						
EG10492	ileS	938	b0026	FWD	22391	25207	pORF+_22391	equal	npORF+_22391	22391	25207	equal
EG10134	carA	382	b0032	FWD	29651	30799	pORF+_29624	inside	npORF+_29624	29651	30799	equal
EG10135	carB	1073	b0033	FWD	30817	34038	pORF+_30817	equal	npORF+_30817	30817	34038	equal
EG10326	folA	159	b0048	FWD	49823	50302	pORF+_49688	inside	npORF+_49688	49823	50302	equal
EG10054	araC	292	b0064	FWD	70387	71265	pORF+_70336	inside	npORF+_70336	70555	71265	inside
EG10500	ilvI	574	b0077	FWD	85630	87354	pORF+_85540	inside	npORF+_85540	85630	87354	equal
EG11085	mrwW	313	b0082	FWD	90094	91035	pORF+_89965	inside	npORF+_89965	90097	91035	inside
EG10621	murE	495	b0085	FWD	93166	94653	pORF+_93166	equal	npORF+_93166	93181	94653	inside
EG10622	murF	452	b0086	FWD	94650	96008	pORF+_94650	equal	npORF+_94650	94650	96008	equal
EG10620	murD	438	b0088	FWD	97087	98403	pORF+_97087	equal	npORF+_97087	97201	98403	inside
EG10623	murG	355	b0090	FWD	99644	100711	pORF+_99644	equal	npORF+_99644	99644	100711	equal
EG10619	murC	491	b0091	FWD	100765	102240	pORF+_100765	equal	npORF+_100765	100765	102240	equal
EG10214	ddlB	306	b0092	FWD	102233	103153	pORF+_102233	equal	npORF+_102233	102233	103153	equal
EG10347	ftsZ	383	b0095	FWD	105305	106456	pORF+_105305	equal	npORF+_105305	105305	106456	equal
EG10265	lpxC	305	b0096	FWD	106557	107474	pORF+_106557	equal	npORF+_106557	106557	107474	equal
EG10936	secA	901	b0098	FWD	108279	110984	pORF+_108279	equal	npORF+_108279	108339	110984	inside
EG10626	mutT	129	b0099	FWD	111044	111433						
EG10422	guaC	347	b0104	FWD	113444	114487	pORF+_113444	equal	npORF+_113444	113444	114487	equal
EG10024	aceE	887	b0114	FWD	123017	125680	pORF+_123017	equal	npORF+_123017	123017	125680	equal
EG10025	aceF	630	b0115	FWD	125695	127587	pORF+_125695	equal	npORF+_125695	125695	127587	equal
EG10543	lpd	474	b0116	FWD	127912	129336	pORF+_127879	inside	npORF+_127879	127912	129336	equal
EG12316	acnB	865	b0118	FWD	131615	134212	pORF+_131462	inside	npORF+_131462	131615	134212	equal
EG12318	cueO	516	b0123	FWD	137083	138633	pORF+_137044	inside	npORF+_137044	137137	138633	inside
EG10302	fhuA	747	b0150	FWD	167484	169727	pORF+_167484	equal	npORF+_167484	167562	169727	inside
EG10225	dgt	505	b0160	FWD	179237	180754	pORF+_179237	equal	npORF+_179237	180437	180754	inside
EG10463	degP	474	b0161	FWD	180884	182308	pORF+_180884	equal	npORF+_180884	180884	182308	equal
EG10901	rpsB	241	b0169	FWD	189874	190599	pORF+_189676	inside	npORF+_189676	189874	190599	equal
EG11033	tsf	283	b0170	FWD	190857	191708	pORF+_190857	equal	npORF+_190857	190857	191708	equal
EG11539	pyrH	241	b0171	FWD	191855	192580	pORF+_191855	equal	npORF+_191855	191855	192580	equal
EG10335	frr	185	b0172	FWD	192872	193429	pORF+_192872	equal	npORF+_192872	192827	193429	inside
EG13329	ispU	253	b0174	FWD	194903	195664	pORF+_194903	equal	npORF+_194903	194939	195664	inside
EG12676	bamA	810	b0177	FWD	197928	200360	pORF+_197928	equal	npORF+_197928	197943	200360	inside
EG10455	skp	161	b0178	FWD	200482	200967	pORF+_200482	equal	npORF+_200482	200482	200967	equal
EG10316	lpxD	341	b0179	FWD	200971	201996	pORF+_200971	equal	npORF+_200971	201094	201996	inside
EG11284	fabZ	151	b0180	FWD	202101	202556	pORF+_202008	inside	npORF+_202008	202101	202556	equal

EG10545	lpxA	262	b0181	FWD	202560	203348	pORF+_202560	equal	npORF+_202560	202599	203348	inside
EG10546	lpxB	382	b0182	FWD	203348	204496	pORF+_203348	equal	npORF+_203348	203861	204496	inside
EG10861	rnhB	198	b0183	FWD	204493	205089						
EG11647	accA	319	b0185	FWD	208621	209580	pORF+_208621	equal	npORF+_208621	208621	209580	equal
EG13219	ldcC	713	b0186	FWD	209679	211820	pORF+_209679	equal	npORF+_209679	210135	211820	inside
EG13547	ivy	157	b0220	FWD	240343	240816	pORF+_240343	equal	npORF+_240343	240421	240816	inside
EG11092	crl	133	b0240	FWD	257829	258230	pORF+_257829	equal	npORF+_257829	257862	258230	inside
EG10768	proB	367	b0242	FWD	259612	260715	pORF+_259525	inside	npORF+_259525	259612	260715	equal
EG10767	proA	417	b0243	FWD	260727	261980	pORF+_260727	equal	npORF+_260727	260727	261980	equal
EG11326	codA	427	b0337	FWD	355395	356678	pORF+_355380	inside	npORF+_355380	355395	356678	equal
EG10176	cynT	219	b0339	FWD	358023	358682						
EG10175	cynS	156	b0340	FWD	358713	359183						
EG20274	mhpB	314	b0348	FWD	369501	370445						
EG14274	mhpD	269	b0350	FWD	371339	372148						
EG13300	tauA	320	b0365	FWD	384456	385418	pORF+_384399	inside	npORF+_384399	384612	385418	inside
EG12423	tauD	283	b0368	FWD	387019	387870	pORF+_387019	equal	npORF+_387019	387151	387870	inside
EG10727	phoA	471	b0383	FWD	400971	402386	pORF+_400902	inside	npORF+_400902	401046	402386	inside
EG10082	aroL	174	b0388	FWD	405629	406153	pORF+_405629	equal	npORF+_405629	405629	406153	equal
EG10996	tgt	375	b0406	FWD	425361	426488	pORF+_425361	equal	npORF+_425361	425361	426488	equal
EG13613	yajQ	163	b0426	FWD	443907	444398	pORF+_443739	inside	npORF+_443739	443907	444398	equal
EG11003	tig	432	b0436	FWD	454357	455655	pORF+_454357	equal	npORF+_454357	454357	455655	equal
EG10158	clpP	207	b0437	FWD	455901	456524	pORF+_455901	equal	npORF+_455901	455940	456524	inside
EG10159	clpX	424	b0438	FWD	456650	457924	pORF+_456650	equal	npORF+_456650	456683	457924	inside
EG10542	lon	784	b0439	FWD	458112	460466	pORF+_458067	inside	npORF+_458067	458112	460466	equal
EG10467	hupB	90	b0440	FWD	460675	460947	pORF+_460675	equal	npORF+_460675	460675	460947	equal
EG11821	amtB	428	b0451	FWD	472190	473476						
EG10051	apt	183	b0469	FWD	490636	491187	pORF+_490582	inside	npORF+_490582	490636	491187	equal
EG10245	dnaX	643	b0470	FWD	491316	493247	pORF+_491316	equal	npORF+_491316	491538	493247	inside
EG10461	htpG	624	b0473	FWD	494344	496218	pORF+_494344	equal	npORF+_494344	494344	496218	equal
EG10032	adk	214	b0474	FWD	496399	497043	pORF+_496339	inside	npORF+_496339	496399	497043	equal
EG10431	hemH	320	b0475	FWD	497279	498241	pORF+_497279	equal	npORF+_497279	497648	498241	inside
EG11102	gsk	434	b0477	FWD	499349	500653	pORF+_499349	equal	npORF+_499349	499496	500653	inside
EG11060	ushA	550	b0480	FWD	504138	505790	pORF+_504138	equal	npORF+_504138	504159	505790	inside
EG11583	gcl	593	b0507	FWD	533140	534921	pORF+_533050	inside	npORF+_533050	533248	534921	inside
EG10196	cysS	461	b0526	FWD	553834	555219	pORF+_553834	equal	npORF+_553834	553834	555219	equal
EG13628	ybcL	183	b0545	FWD	570116	570667						
EG20283	rusA	120	b0550	FWD	572594	572956						
EG14234	cusF	110	b0573	FWD	596354	596686	pORF+_596354	equal	npORF+_596354	596378	596686	inside
EG10299	fes	374	b0585	FWD	612038	613162	pORF+_611960	inside	npORF+_611960	613004	613162	inside
EG10264	entF	1293	b0586	FWD	613380	617261	pORF+_613242	inside	npORF+_613242	613464	617261	inside
EG10261	entC	391	b0593	FWD	624108	625283	pORF+_624096	inside	npORF+_624096	624108	625283	equal
EG10259	entA	248	b0596	FWD	627774	628520	pORF+_627744	inside	npORF+_627744	627774	628520	equal
EG11384	ahpC	187	b0605	FWD	638168	638731	pORF+_638168	equal	npORF+_638168	638174	638731	inside
EG12180	pagP	186	b0622	FWD	655780	656340						
EG12179	cspE	69	b0623	FWD	656515	656724	pORF+_656485	inside	npORF+_656485	656515	656724	equal
EG10390	glnS	554	b0680	FWD	705316	706980	pORF+_705316	equal	npORF+_705316	705316	706980	equal

EG12197	seqA	181	b0687	FWD	712210	712755	pORF+_712075	inside	npORF+_712075	712210	712755	equal
EG10736	phr	472	b0708	FWD	738730	740148						
EG13237	nei	263	b0714	FWD	745158	745949	pORF+_745158	equal	npORF+_745158	745386	745949	inside
EG10931	sdhA	588	b0723	FWD	755130	756896	pORF+_755118	inside	npORF+_755118	755130	756896	equal
EG10932	sdhB	238	b0724	FWD	756912	757628	pORF+_756912	equal	npORF+_756912	756912	757628	equal
EG10980	sucB	405	b0727	FWD	760745	761962	pORF+_760745	equal	npORF+_760745	760745	761962	equal
EG10981	sucC	388	b0728	FWD	762237	763403	pORF+_762237	equal	npORF+_762237	762237	763403	equal
EG10982	sucD	289	b0729	FWD	763403	764272	pORF+_763403	equal	npORF+_763403	763403	764272	equal
EG10173	cydA	522	b0733	FWD	770681	772249	pORF+_770678	inside	npORF+_770678	771176	772249	inside
EG11010	tolQ	230	b0737	FWD	774376	775068	pORF+_774376	equal	npORF+_774376	774445	775068	inside
EG11008	tolB	430	b0740	FWD	776963	778255	pORF+_776960	inside	npORF+_776960	776963	778255	equal
EG10079	aroG	350	b0754	FWD	784856	785908	pORF+_784856	equal	npORF+_784856	784856	785908	equal
EG12427	modA	257	b0763	FWD	794312	795085	pORF+_794312	equal	npORF+_794312	794333	795085	inside
EG10118	bioB	346	b0775	FWD	808567	809607	pORF+_808567	equal	npORF+_808567	808567	809607	equal
EG10120	bioD	225	b0778	FWD	811493	812170	pORF+_811487	inside	npORF+_811487	811493	812170	equal
EG11062	uvrB	673	b0779	FWD	812749	814770	pORF+_812749	equal	npORF+_812749	812749	814770	equal
EG11595	moaA	329	b0781	FWD	816267	817256	pORF+_816186	inside	npORF+_816186	816591	817256	inside
EG11596	moaB	170	b0782	FWD	817278	817790	pORF+_817278	equal	npORF+_817278	817278	817790	equal
EG11666	moaC	161	b0783	FWD	817793	818278	pORF+_817793	equal	npORF+_817793	817793	818278	equal
EG11597	moaD	81	b0784	FWD	818271	818516	pORF+_818208	inside	npORF+_818208	818298	818516	inside
EG11598	moaE	150	b0785	FWD	818518	818970	pORF+_818518	equal	npORF+_818518	818518	818970	equal
EG12135	ompX	171	b0814	FWD	849673	850188	pORF+_849667	inside	npORF+_849667	849673	850188	equal
EG13471	fsaA	220	b0825	FWD	862865	863527	pORF+_862793	inside	npORF+_862793	862901	863527	inside
EG10203	dacC	400	b0839	FWD	879950	881152	pORF+_879929	inside	npORF+_879929	879950	881152	equal
EG11629	potF	370	b0854	FWD	893007	894119	pORF+_892857	inside	npORF+_892857	893058	894119	inside
EG13694	macA	371	b0878	FWD	918458	919573	pORF+_918431	inside	npORF+_918431	918686	919573	inside
EG10156	clpA	758	b0882	FWD	922487	924763	pORF+_922472	inside	npORF+_922472	922520	924763	inside
EG10547	lrp	164	b0889	FWD	931818	932312	pORF+_931764	inside	npORF+_931764	931818	932312	equal
EG12684	lolA	203	b0891	FWD	936595	937206	pORF+_936592	inside	npORF+_936592	936595	937206	equal
EG10232	dmsA	814	b0894	FWD	940182	942626	pORF+_940182	equal	npORF+_940182	940551	942626	inside
EG10233	dmsB	205	b0895	FWD	942637	943254	pORF+_942637	equal	npORF+_942637	942637	943254	equal
EG10946	serC	362	b0907	FWD	956876	957964	pORF+_956876	equal	npORF+_956876	956876	957964	equal
EG10073	aroA	427	b0908	FWD	958035	959318	pORF+_958035	equal	npORF+_958035	958035	959318	equal
EG10900	rpsA	557	b0911	FWD	961218	962891	pORF+_961218	equal	npORF+_961218	961218	962891	equal
EG10441	ihfB	94	b0912	FWD	963051	963335	pORF+_963051	equal	npORF+_963051	963051	963335	equal
EG10519	kdsB	248	b0918	FWD	970075	970821	pORF+_970075	equal	npORF+_970075	970075	970821	equal
EG10618	mukB	1486	b0924	FWD	975549	980009	pORF+_975549	equal	npORF+_975549	975549	980009	equal
EG10696	pepN	870	b0932	FWD	989845	992457	pORF+_989845	equal	npORF+_989845	989845	992457	equal
EG10807	pyrD	336	b0945	FWD	1003991	1005001	pORF+_1003964	inside	npORF+_1003964	1003991	1005001	equal
EG50004	rmf	55	b0953	FWD	1014938	1015105	pORF+_1014938	equal	npORF+_1014938	1014938	1015105	equal
EG10426	helD	684	b0962	FWD	1023694	1025748	pORF+_1023601	inside	npORF+_1023601	1024204	1025748	inside
EG13723	ycuU	137	b0965	FWD	1027169	1027582	pORF+_1027088	inside	npORF+_1027088	1027169	1027582	equal
EG10468	hyaA	372	b0972	FWD	1031362	1032480	pORF+_1031335	inside	npORF+_1031335	1032382	1032480	inside
EG10469	hyaB	597	b0973	FWD	1032477	1034270	pORF+_1032477	equal	npORF+_1032477	1033704	1034270	inside
EG10049	appA	432	b0980	FWD	1039840	1041138	pORF+_1039810	inside	npORF+_1039810	1039960	1041138	inside
EG12616	torT	342	b0994	FWD	1055484	1056512						

EG11814	torA	848	b0997	FWD	1058479	1061025	pORF+_1058479	equal	npORF+_1058479	1060561	1061025	inside
EG10033	agp	413	b1002	FWD	1064808	1066049	pORF+_1064784	inside	npORF+_1064784	1064835	1066049	inside
EG10802	putP	502	b1015	FWD	1078528	1080036	pORF+_1078528	equal	npORF+_1078528	1078900	1080036	inside
EG11734	phoH	354	b1020	FWD	1084215	1085279	pORF+_1084215	equal	npORF+_1084215	1084683	1085279	inside
EG13869	ghrA	312	b1033	FWD	1097109	1098047	pORF+_1097070	inside	npORF+_1097070	1097109	1098047	equal
EG11489	csgA	151	b1042	FWD	1103670	1104125						
EG11885	opgG	511	b1048	FWD	1108558	1110093	pORF+_1108540	inside	npORF+_1108540	1108591	1110093	inside
EG10890	rpmF	57	b1089	FWD	1146590	1146763	pORF+_1146590	equal	npORF+_1146590	1146590	1146763	equal
EG10277	fabH	317	b1091	FWD	1147982	1148935	pORF+_1147982	equal	npORF+_1147982	1147982	1148935	equal
EG11317	fabD	309	b1092	FWD	1148951	1149880	pORF+_1148951	equal	npORF+_1148951	1149014	1149880	inside
EG50003	acpP	78	b1094	FWD	1150838	1151074	pORF+_1150838	equal	npORF+_1150838	1150838	1151074	equal
EG12606	fabF	413	b1095	FWD	1151162	1152403	pORF+_1151162	equal	npORF+_1151162	1151162	1152403	equal
EG11493	pabC	269	b1096	FWD	1152523	1153332						
EG11500	holB	334	b1099	FWD	1154985	1155989	pORF+_1154985	equal	npORF+_1154985	1155186	1155989	inside
EG10787	ptsG	477	b1101	FWD	1157092	1158525	pORF+_1157092	equal	npORF+_1157092	1157092	1158525	equal
EG10649	ndh	434	b1109	FWD	1165308	1166612	pORF+_1165281	inside	npORF+_1165281	1165320	1166612	inside
EG13439	lolC	399	b1116	FWD	1174650	1175849						
EG13440	lolD	233	b1117	FWD	1175842	1176543	pORF+_1175701	inside	npORF+_1175701	1175953	1176543	inside
EG13441	lolE	414	b1118	FWD	1176543	1177787	pORF+_1176543	equal	npORF+_1176543	1176885	1177787	inside
EG13442	nagK	303	b1119	FWD	1177816	1178727	pORF+_1177756	inside	npORF+_1177756	1178323	1178727	inside
EG10489	icd	416	b1136	FWD	1194346	1195596	pORF+_1194346	equal	npORF+_1194346	1194346	1195596	equal
EG10281	fadR	239	b1187	FWD	1234161	1234880	pORF+_1234137	inside	npORF+_1234137	1234251	1234880	inside
EG10518	kdsA	284	b1215	FWD	1267388	1268242	pORF+_1267388	equal	npORF+_1267388	1267388	1268242	equal
EG10638	narG	1247	b1224	FWD	1279087	1282830	pORF+_1279087	equal	npORF+_1279087	1279897	1282830	inside
EG10639	narH	512	b1225	FWD	1282827	1284365	pORF+_1282827	equal	npORF+_1282827	1283229	1284365	inside
EG10640	narI	225	b1227	FWD	1285072	1285749						
EG11319	galU	302	b1236	FWD	1290680	1291588	pORF+_1290680	equal	npORF+_1290680	1290680	1291588	equal
EG10674	oppA	543	b1243	FWD	1299206	1300837	pORF+_1299134	inside	npORF+_1299134	1299260	1300837	inside
EG11124	ompW	212	b1256	FWD	1312044	1312682	pORF+_1312044	equal	npORF+_1312044	1312068	1312682	inside
EG11013	topA	865	b1274	FWD	1329072	1331669	pORF+_1329030	inside	npORF+_1329030	1329072	1331669	equal
EG10184	cysB	324	b1275	FWD	1331879	1332853	pORF+_1331879	equal	npORF+_1331879	1331993	1332853	inside
EG11325	acnA	891	b1276	FWD	1333855	1336530	pORF+_1333855	equal	npORF+_1333855	1333855	1336530	equal
EG13909	puuD	254	b1298	FWD	1359144	1359908	pORF+_1359132	inside	npORF+_1359132	1359183	1359908	inside
EG10776	pspA	222	b1304	FWD	1366103	1366771	pORF+_1366103	equal	npORF+_1366103	1366103	1366771	equal
EG10780	pspE	104	b1308	FWD	1367713	1368027	pORF+_1367713	equal	npORF+_1367713	1367746	1368027	inside
EG13428	ompG	301	b1319	FWD	1379971	1380876						
EG11042	tyrR	513	b1323	FWD	1384744	1386285	pORF+_1384717	inside	npORF+_1384717	1385035	1386285	inside
EG13376	mppA	537	b1329	FWD	1391251	1392864	pORF+_1391230	inside	npORF+_1391230	1391362	1392864	inside
EG13179	feaB	499	b1385	FWD	1445543	1447042	pORF+_1445540	inside	npORF+_1445540	1446425	1447042	inside
EG10035	aldA	479	b1415	FWD	1486256	1487695	pORF+_1486256	equal	npORF+_1486256	1486256	1487695	equal
EG12859	opgD	551	b1424	FWD	1494880	1496535	pORF+_1494880	equal	npORF+_1494880	1494925	1496535	inside
EG10680	osmC	143	b1482	FWD	1554649	1555080	pORF+_1554649	equal	npORF+_1554649	1554649	1555080	equal
EG13812	tam	252	b1519	FWD	1605370	1606128	pORF+_1605370	equal	npORF+_1605370	1605370	1606128	equal
EG12345	ydfG	248	b1539	FWD	1625541	1626287	pORF+_1625526	inside	npORF+_1625526	1625541	1626287	equal
EG13838	ydfZ	67	b1541	FWD	1627239	1627442	pORF+_1627239	equal	npORF+_1627239	1627239	1627442	equal
EG12447	speG	186	b1584	FWD	1654208	1654768	pORF+_1654208	equal	npORF+_1654208	1654208	1654768	equal

EG13842	ynfD	101	b1586	FWD	1655589	1655894	pORF_+_1655547	inside	npORF_+_1655547	1655589	1655894	equal
EG13847	dmsD	204	b1591	FWD	1662530	1663144	pORF_+_1662521	inside	npORF_+_1662521	1662530	1663144	equal
EG12149	asr	102	b1597	FWD	1669400	1669708	pORF_+_1669373	inside	npORF_+_1669373	1669436	1669708	inside
EG11038	tus	309	b1610	FWD	1682283	1683212	pORF_+_1682271	inside	npORF_+_1682271	1682493	1683212	inside
EG10662	nth	211	b1633	FWD	1709547	1710182	pORF_+_1709547	equal	npORF_+_1709547	1709640	1710182	inside
EG12613	gst	201	b1635	FWD	1712401	1713006	pORF_+_1712401	equal	npORF_+_1712401	1712407	1713006	inside
EG13421	gloA	135	b1651	FWD	1725861	1726268	pORF_+_1725861	equal	npORF_+_1725861	1725861	1726268	equal
EG10954	sodB	193	b1656	FWD	1733402	1733983	pORF_+_1733402	equal	npORF_+_1733402	1733402	1733983	equal
EG11531	cfa	382	b1661	FWD	1739437	1740585	pORF_+_1739437	equal	npORF_+_1739437	1739437	1740585	equal
EG10804	pykF	470	b1676	FWD	1753722	1755134	pORF_+_1753506	inside	npORF_+_1753506	1753722	1755134	equal
EG10544	lpp	78	b1677	FWD	1755445	1755681	pORF_+_1755445	equal	npORF_+_1755445	1755445	1755681	equal
EG10076	aroD	252	b1693	FWD	1772710	1773468	pORF_+_1772710	equal	npORF_+_1772710	1772710	1773468	equal
EG10080	aroH	348	b1704	FWD	1786459	1787505	pORF_+_1786336	inside	npORF_+_1786336	1786459	1787505	equal
EG10700	pfkB	309	b1723	FWD	1804394	1805323	pORF_+_1804391	inside	npORF_+_1804391	1804394	1805323	equal
EG10509	katE	753	b1732	FWD	1811891	1814152	pORF_+_1811891	equal	npORF_+_1811891	1811966	1814152	inside
EG10663	nadE	275	b1740	FWD	1820482	1821309	pORF_+_1820482	equal	npORF_+_1820482	1820482	1821309	equal
EG10372	gdhA	447	b1761	FWD	1840395	1841738	pORF_+_1840395	equal	npORF_+_1840395	1840395	1841738	equal
EG10367	gapA	331	b1779	FWD	1860795	1861790	pORF_+_1860786	inside	npORF_+_1860786	1860795	1861790	equal
EG12679	yeaD	294	b1780	FWD	1861874	1862758	pORF_+_1861853	inside	npORF_+_1861853	1861874	1862758	equal
EG10930	sdaA	454	b1814	FWD	1894956	1896320	pORF_+_1894956	equal	npORF_+_1894956	1894983	1896320	inside
EG10567	manX	323	b1817	FWD	1900072	1901043	pORF_+_1900072	equal	npORF_+_1900072	1900072	1901043	equal
EG11505	holE	76	b1842	FWD	1923132	19233045	pORF_+_1923045	inside	npORF_+_1923045	1923177	1923362	inside
EG11809	purT	392	b1849	FWD	1928905	1930083	pORF_+_1928905	equal	npORF_+_1928905	1928905	1930083	equal
EG10803	pykA	480	b1854	FWD	1935673	1937115	pORF_+_1935532	inside	npORF_+_1935532	1935673	1937115	equal
EG10071	argS	577	b1876	FWD	1958086	1959819	pORF_+_1958086	equal	npORF_+_1958086	1958086	1959819	equal
EG10921	ftnA	165	b1905	FWD	1986740	1987237	pORF_+_1986725	inside	npORF_+_1986725	1986818	1987237	inside
EG10820	rcsA	207	b1951	FWD	2021992	2022615	pORF_+_2021992	equal	npORF_+_2021992	2022439	2022615	inside
EG11755	hchA	283	b1967	FWD	2033859	2034710	pORF_+_2033859	equal	npORF_+_2033859	2033859	2034710	equal
EG14047	yedY	334	b1971	FWD	2037502	2038506	pORF_+_2037502	equal	npORF_+_2037502	2037613	2038506	inside
EG14049	yodA	216	b1973	FWD	2039399	2040049	pORF_+_2039399	equal	npORF_+_2039399	2039399	2040049	equal
EG10039	amn	484	b1982	FWD	2053085	2054539	pORF_+_2052929	inside	npORF_+_2052929	2053085	2054539	equal
EG12686	flu	1039	b2000	FWD	2069563	2072682	pORF_+_2069407	inside	npORF_+_2069407	2069929	2072682	inside
EG10926	sbcB	475	b2011	FWD	2080780	2082207	pORF_+_2080708	inside	npORF_+_2080708	2080783	2082207	inside
EG10447	hisD	434	b2020	FWD	2089121	2090425	pORF_+_2089112	inside	npORF_+_2089112	2089121	2090425	equal
EG10445	hisB	355	b2022	FWD	2091492	2092559	pORF_+_2091489	inside	npORF_+_2091489	2091492	2092559	equal
EG10586	metG	677	b2114	FWD	2192322	2194355	pORF_+_2192313	inside	npORF_+_2192313	2192442	2194355	inside
EG10231	dld	571	b2133	FWD	2220207	2221922	pORF_+_2220174	inside	npORF_+_2220174	2220207	2221922	equal
EG10137	cdd	294	b2143	FWD	2229866	2230750	pORF_+_2229866	equal	npORF_+_2229866	2229866	2230750	equal
EG14074	yeiT	412	b2146	FWD	2232055	2233293	pORF_+_2232055	equal	npORF_+_2232055	2233057	2233293	inside
EG11289	yeiA	411	b2147	FWD	2233287	2234522						
EG10885	rplY	94	b2185	FWD	2280539	2280823	pORF_+_2280443	inside	npORF_+_2280443	2280539	2280823	equal
EG10255	eco	162	b2209	FWD	2301927	2302415	pORF_+_2301906	inside	npORF_+_2301906	2302044	2302415	inside
EG10660	nrdA	761	b2234	FWD	2342887	2345172	pORF_+_2342887	equal	npORF_+_2342887	2342887	2345172	equal
EG10661	nrdB	376	b2235	FWD	2345406	2346536	pORF_+_2345175	inside	npORF_+_2345175	2345406	2346536	equal
EG10391	glpA	542	b2241	FWD	2350669	2352297	pORF_+_2350669	equal	npORF_+_2350669	2350774	2352297	inside
EG10392	glpB	419	b2242	FWD	2352287	2353546	pORF_+_2352059	inside	npORF_+_2352059	2352308	2353546	inside

EG10393	glpC	396	b2243	FWD	2353543	2354733						
EG14091	arnA	660	b2255	FWD	2366061	2368043						
EG20173	pta	714	b2297	FWD	2412769	2414913	pORF_+_2412769	equal	npORF_+_2412769	2412769	2414913	equal
EG14263	folX	120	b2303	FWD	2419347	2419709	pORF_+_2419347	equal	npORF_+_2419347	2419389	2419709	inside
EG10280	fadL	446	b2344	FWD	2459328	2460668	pORF_+_2459322	inside	npORF_+_2459322	2459373	2460668	inside
EG10249	dsdA	442	b2366	FWD	2477224	2478552	pORF_+_2477224	equal	npORF_+_2477224	2477239	2478552	inside
EG10192	cysK	323	b2414	FWD	2530431	2531402	pORF_+_2530431	equal	npORF_+_2530431	2530431	2531402	equal
EG10788	ptsH	85	b2415	FWD	2531786	2532043	pORF_+_2531786	equal	npORF_+_2531786	2531786	2532043	equal
EG10789	ptsI	575	b2416	FWD	2532088	2533815	pORF_+_2532088	equal	npORF_+_2532088	2532088	2533815	equal
EG10165	crr	169	b2417	FWD	2533856	2534365	pORF_+_2533856	equal	npORF_+_2533856	2533856	2534365	equal
EG11149	gcvR	190	b2479	FWD	2597928	2598500	pORF_+_2597862	inside	npORF_+_2597862	2597928	2598500	equal
EG10108	bcp	156	b2480	FWD	2598500	2598970	pORF_+_2598500	equal	npORF_+_2598500	2598500	2598970	equal
EG10798	purM	345	b2499	FWD	2619219	2620256	pORF_+_2619204	inside	npORF_+_2619204	2619219	2620256	equal
EG10799	purN	212	b2500	FWD	2620256	2620894	pORF_+_2620256	equal	npORF_+_2620256	2620268	2620894	inside
EG11510	ppk	688	b2501	FWD	2621066	2623132	pORF_+_2621060	inside	npORF_+_2621060	2621126	2623132	inside
EG11403	ppx	513	b2502	FWD	2623137	2624678	pORF_+_2623098	inside	npORF_+_2623098	2623137	2624678	equal
EG11072	xseA	456	b2509	FWD	2632254	2633624	pORF_+_2632254	equal	npORF_+_2632254	2632461	2633624	inside
EG11600	sseA	281	b2521	FWD	2650516	2651361	pORF_+_2650357	inside	npORF_+_2650357	2650516	2651361	equal
EG10456	hmp	396	b2552	FWD	2683857	2685047	pORF_+_2683836	inside	npORF_+_2683836	2683950	2685047	inside
EG10631	nadB	540	b2574	FWD	2708442	2710064	pORF_+_2708442	equal	npORF_+_2708442	2708475	2710064	inside
EG11058	ung	229	b2580	FWD	2714776	2715465	pORF_+_2714776	equal	npORF_+_2714776	2714776	2715465	equal
EG10781	pssA	451	b2585	FWD	2720749	2722104	pORF_+_2720746	inside	npORF_+_2720746	2720752	2722104	inside
EG11151	raiA	113	b2597	FWD	2735176	2735517	pORF_+_2735176	equal	npORF_+_2735176	2735176	2735517	equal
EG12192	nadK	292	b2615	FWD	2748853	2749731	pORF_+_2748853	equal	npORF_+_2748853	2748925	2749731	inside
EG11782	smpB	160	b2620	FWD	2752918	2753400	pORF_+_2752918	equal	npORF_+_2752918	2752918	2753400	equal
EG13523	csiD	325	b2659	FWD	2787007	2787984						
EG10361	gabT	426	b2662	FWD	2790757	2792037	pORF_+_2790751	inside	npORF_+_2790751	2790757	2792037	equal
EG10773	proX	330	b2679	FWD	2805154	2806146	pORF_+_2805112	inside	npORF_+_2805112	2805154	2806146	equal
EG10971	srlD	259	b2705	FWD	2825759	2826538						
EG10484	hypB	290	b2727	FWD	2849023	2849895	pORF_+_2849023	equal	npORF_+_2849023	2849272	2849895	inside
EG10485	hypC	90	b2728	FWD	2849886	2850158	pORF_+_2849859	inside	npORF_+_2849859	2849886	2850158	equal
EG10352	fucP	438	b2801	FWD	2932257	2933573						
EG10349	fucI	591	b2802	FWD	2933606	2935381	pORF_+_2933606	equal	npORF_+_2933606	2933900	2935381	inside
EG10350	fucK	482	b2803	FWD	2935460	2936908						
EG13082	csdA	401	b2810	FWD	2941359	2942564						
EG10063	argA	443	b2818	FWD	2947264	2948595	pORF_+_2947198	inside	npORF_+_2947198	2947264	2948595	equal
EG10624	mutH	229	b2831	FWD	2967684	2968373						
EG13062	ssnA	442	b2879	FWD	3017183	3018511						
EG12685	ygfZ	326	b2898	FWD	3039335	3040315	pORF_+_3039335	equal	npORF_+_3039335	3039335	3040315	equal
EG10490	argP	297	b2916	FWD	3057775	3058668	pORF_+_3057709	inside	npORF_+_3057709	3057817	3058668	inside
EG10589	metK	384	b2942	FWD	3084728	3085882	pORF_+_3084716	inside	npORF_+_3084716	3084728	3085882	equal
EG10419	gshB	316	b2947	FWD	3089900	3090850	pORF_+_3089900	equal	npORF_+_3089900	3089900	3090850	equal
EG12984	yggX	91	b2962	FWD	3102115	3102390	pORF_+_3102115	equal	npORF_+_3102115	3102115	3102390	equal
EG10583	metC	395	b3008	FWD	3150258	3151445	pORF_+_3150123	inside	npORF_+_3150123	3150258	3151445	equal
EG13015	dkgA	275	b3012	FWD	3154645	3155472	pORF_+_3154645	equal	npORF_+_3154645	3154645	3155472	equal
EG12656	mdaB	193	b3028	FWD	3170552	3171133	pORF_+_3170552	equal	npORF_+_3170552	3170552	3171133	equal

EG12657	ygiN	104	b3029	FWD	3171164	3171478	pORF+_3171164	equal	npORF+_3171164	3171164	3171478	equal
EG11009	tolC	493	b3035	FWD	3176137	3177618	pORF+_3176098	inside	npORF+_3176098	3176191	3177618	inside
EG13031	yqiC	96	b3042	FWD	3182862	3183152	pORF+_3182802	inside	npORF+_3182802	3182913	3183152	inside
EG10920	rpsU	71	b3065	FWD	3208803	3209018	pORF+_3208803	equal	npORF+_3208803	3208803	3209018	equal
EG10239	dnaG	581	b3066	FWD	3209129	3210874	pORF+_3209129	equal	npORF+_3209129	3209417	3210874	inside
EG10896	rpoD	613	b3067	FWD	3211069	3212910	pORF+_3211069	equal	npORF+_3211069	3211069	3212910	equal
EG10252	ebgA		b3076	FWD	3220655	3223747						
EG12723	fadH	672	b3081	FWD	3229687	3231705	pORF+_3229687	equal	npORF+_3229687	3229687	3231705	equal
EG10068	argG	447	b3172	FWD	3316659	3318002	pORF+_3316659	equal	npORF+_3316659	3316659	3318002	equal
EG10202	dacB	477	b3182	FWD	3326985	3328418	pORF+_3326985	equal	npORF+_3326985	3327012	3328418	inside
EG12804	kdsC	188	b3198	FWD	3340295	3340861	pORF+_3340295	equal	npORF+_3340295	3340295	3340861	equal
EG12618	lptA	185	b3200	FWD	3341402	3341959	pORF+_3341381	inside	npORF+_3341381	3341402	3341959	equal
EG11680	lptB	241	b3201	FWD	3341966	3342691	pORF+_3341966	equal	npORF+_3341966	3342017	3342691	inside
EG11681	hpf	95	b3203	FWD	3344195	3344482	pORF+_3344111	inside	npORF+_3344111	3344195	3344482	equal
EG10404	gltD	472	b3213	FWD	3357220	3358638	pORF+_3357220	equal	npORF+_3357220	3357220	3358638	equal
EG11514	gltF	254	b3214	FWD	3359198	3359962						
EG12612	degQ	455	b3234	FWD	3378765	3380132	pORF+_3378723	inside	npORF+_3378723	3378786	3380132	inside
EG10070	argR	156	b3237	FWD	3382725	3383195	pORF+_3382725	equal	npORF+_3382725	3382725	3383195	equal
EG10275	accB	156	b3255	FWD	3403458	3403928	pORF+_3403458	equal	npORF+_3403458	3403458	3403928	equal
EG10276	accC	449	b3256	FWD	3403939	3405288	pORF+_3403900	inside	npORF+_3403900	3403939	3405288	equal
EG10317	fis	98	b3261	FWD	3409293	3409589	pORF+_3409293	equal	npORF+_3409293	3409293	3409589	equal
EG11440	def	169	b3287	FWD	3431712	3432221	pORF+_3431712	equal	npORF+_3431712	3431712	3432221	equal
EG11268	fmt	315	b3288	FWD	3432236	3433183	pORF+_3432236	equal	npORF+_3432236	3432236	3433183	equal
EG12163	rsmB	429	b3289	FWD	3433229	3434518	pORF+_3433208	inside	npORF+_3433208	3433229	3434518	equal
EG11019	trkA	458	b3290	FWD	3434540	3435916	pORF+_3434540	equal	npORF+_3434540	3434921	3435916	inside
EG11180	mscL	136	b3291	FWD	3436046	3436456	pORF+_3436046	equal	npORF+_3436046	3436325	3436456	inside
EG10164	crp	210	b3357	FWD	3484142	3484774	pORF+_3484142	equal	npORF+_3484142	3484187	3484774	inside
EG10188	cysG	457	b3368	FWD	3495850	3497223	pORF+_3495850	equal	npORF+_3495850	3496216	3497223	inside
EG12929	hslR	133	b3400	FWD	3527370	3527771	pORF+_3527370	equal	npORF+_3527370	3527370	3527771	equal
EG10688	pck	540	b3403	FWD	3530840	3532462	pORF+_3530771	inside	npORF+_3530771	3530858	3532462	inside
EG11578	greB	158	b3406	FWD	3534834	3535310						
EG10394	glpD	501	b3426	FWD	3560036	3561541	pORF+_3560021	inside	npORF+_3560021	3560036	3561541	equal
EG12075	nikA	524	b3476	FWD	3611690	3613264	pORF+_3611690	equal	npORF+_3611690	3612254	3613264	inside
EG11390	uspA	144	b3495	FWD	3638134	3638568	pORF+_3638134	equal	npORF+_3638134	3638134	3638568	equal
EG12245	treF	549	b3519	FWD	3667615	3669264						
EG10986	tag	187	b3549	FWD	3711115	3711678						
EG12272	ghrB	324	b3553	FWD	3715333	3716307	pORF+_3715321	inside	npORF+_3715321	3715333	3716307	equal
EG10166	cspA	70	b3556	FWD	3718072	3718284	pORF+_3718072	equal	npORF+_3718072	3718072	3718284	equal
EG20252	xyfF	330	b3566	FWD	3729154	3730146	pORF+_3729076	inside	npORF+_3729076	3729664	3730146	inside
EG11316	malS	676	b3571	FWD	3735520	3737550						
EG10616	mtlD	382	b3600	FWD	3772447	3773595	pORF+_3772129	inside	npORF+_3772129	3772447	3773595	equal
EG10838	rfaD	310	b3619	FWD	3792010	3792942	pORF+_3792010	equal	npORF+_3792010	3792010	3792942	equal
EG11189	rfaC	319	b3621	FWD	3794002	3794961						
EG11190	coaD	159	b3634	FWD	3807848	3808327	pORF+_3807680	inside	npORF+_3807680	3807848	3808327	equal
EG10004	dfp	406	b3639	FWD	3810754	3811974	pORF+_3810682	inside	npORF+_3810682	3810868	3811974	inside
EG10899	rpoZ	91	b3649	FWD	3820129	3820404	pORF+_3820129	equal	npORF+_3820129	3820129	3820404	equal

EG10892	rpmH	46	b3703	FWD	3882359	3882499	pORF+_3882359	equal	npORF+_3882359	3882359	3882499	equal
EG11005	tnaA	471	b3708	FWD	3886753	3888168	pORF+_3886738	inside	npORF+_3886738	3886753	3888168	equal
EG10814	rbsA	501	b3749	FWD	3931801	3933306	pORF+_3931801	equal	npORF+_3931801	3931945	3933306	inside
EG10815	rbsB	296	b3751	FWD	3934301	3935191	pORF+_3934295	inside	npORF+_3934295	3934307	3935191	inside
EG10818	rbsK	309	b3752	FWD	3935317	3936246	pORF+_3935290	inside	npORF+_3935290	3935317	3936246	equal
EG10819	rbsR	330	b3753	FWD	3936250	3937242	pORF+_3936250	equal	npORF+_3936250	3936259	3937242	inside
EG11450	yifE	112	b3764	FWD	3946109	3946447	pORF+_3946109	equal	npORF+_3946109	3946109	3946447	equal
EG10497	ilvE	309	b3770	FWD	3950507	3951436	pORF+_3950441	inside	npORF+_3950441	3950507	3951436	equal
EG10496	ilvD	616	b3771	FWD	3951501	3953351	pORF+_3951501	equal	npORF+_3951501	3951543	3953351	inside
EG10495	ilvC	491	b3774	FWD	3955993	3957468	pORF+_3955858	inside	npORF+_3955858	3955993	3957468	equal
EG10837	rep	673	b3778	FWD	3958700	3960721	pORF+_3958649	inside	npORF+_3958649	3959057	3960721	inside
EG11031	trxA	109	b3781	FWD	3963784	3964113	pORF+_3963679	inside	npORF+_3963679	3963784	3964113	equal
EG10845	rho	419	b3783	FWD	3964440	3965699	pORF+_3964368	inside	npORF+_3964368	3964440	3965699	equal
EG11069	xerC	298	b3811	FWD	3994310	3995206	pORF+_3994310	equal	npORF+_3994310	3994475	3995206	inside
EG11064	uvrD	720	b3813	FWD	3996006	3998168	pORF+_3995817	inside	npORF+_3995817	3996057	3998168	inside
EG10738	pIdA	289	b3821	FWD	4002885	4003754	pORF+_4002885	equal	npORF+_4002885	4003155	4003754	inside
EG10833	recQ	609	b3822	FWD	4003887	4005716	pORF+_4003881	inside	npORF+_4003881	4005615	4005716	inside
EG10739	pIdB	340	b3825	FWD	4007193	4008215	pORF+_4007193	equal	npORF+_4007193	4007193	4008215	equal
EG10584	metE	753	b3829	FWD	4011076	4013337	pORF+_4011076	equal	npORF+_4011076	4011076	4013337	equal
EG11045	udp	253	b3831	FWD	4014454	4015215	pORF+_4014448	inside	npORF+_4014448	4014454	4015215	equal
EG11481	tatD	260	b4483	FWD	4021577	4022359						
EG10334	fre	233	b3844	FWD	4024550	4025251	pORF+_4024517	inside	npORF+_4024517	4024571	4025251	inside
EG11485	hemG	181	b3850	FWD	4032631	4033176	pORF+_4032631	equal	npORF+_4032631	4032631	4033176	equal
EG11830	yihD	89	b3858	FWD	4040092	4040361	pORF+_4040062	inside	npORF+_4040062	4040092	4040361	equal
EG11297	dsbA	208	b3860	FWD	4041441	4042067	pORF+_4041441	equal	npORF+_4041441	4041663	4042067	inside
EG11837	typA	607	b3871	FWD	4056430	4058253	pORF+_4056430	equal	npORF+_4056430	4056442	4058253	inside
EG11852	dtd	145	b3887	FWD	4075038	4075475	pORF+_4075038	equal	npORF+_4075038	4075302	4075475	inside
EG10953	sodA	206	b3908	FWD	4098833	4099453	pORF+_4098827	inside	npORF+_4098827	4098833	4099453	equal
EG10929	sbp	329	b3917	FWD	4106857	4107846	pORF+_4106857	equal	npORF+_4106857	4106887	4107846	inside
EG10889	rpmE	70	b3936	FWD	4125036	4125248	pORF+_4125036	equal	npORF+_4125036	4125036	4125248	equal
EG10582	metB	386	b3939	FWD	4126695	4127855	pORF+_4126518	inside	npORF+_4126518	4126695	4127855	equal
EG10590	metL	810	b3940	FWD	4127858	4130290	pORF+_4127858	equal	npORF+_4127858	4127858	4130290	equal
EG10681	oxyR	305	b3961	FWD	4156513	4157430	pORF+_4156483	inside	npORF+_4156483	4156513	4157430	equal
EG10126	btuB	614	b3966	FWD	4161662	4163506	pORF+_4161617	inside	npORF+_4161617	4161662	4163506	equal
EG11037	tufB	394	b3980	FWD	4173967	4175151	pORF+_4173967	equal	npORF+_4173967	4173967	4175151	equal
EG10667	nusG	181	b3982	FWD	4175766	4176311	pORF+_4175766	equal	npORF+_4175766	4175766	4176311	equal
EG10872	rplK	142	b3983	FWD	4176470	4176898	pORF+_4176470	equal	npORF+_4176470	4176470	4176898	equal
EG10864	rplA	234	b3984	FWD	4176902	4177606	pORF+_4176902	equal	npORF+_4176902	4176902	4177606	equal
EG10871	rplJ	165	b3985	FWD	4178019	4178516	pORF+_4178019	equal	npORF+_4178019	4178019	4178516	equal
EG10873	rplL	121	b3986	FWD	4178583	4178948	pORF+_4178583	equal	npORF+_4178583	4178583	4178948	equal
EG10894	rpoB	1342	b3987	FWD	4179268	4183296	pORF+_4179235	inside	npORF+_4179235	4179268	4183296	equal
EG10895	rpoC	1407	b3988	FWD	4183373	4187596	pORF+_4183373	equal	npORF+_4183373	4183373	4187596	equal
EG11915	nfi	223	b3998	FWD	4196813	4197484	pORF+_4196807	inside	npORF+_4196807	4196960	4197484	inside
EG10466	hupA	90	b4000	FWD	4198304	4198576	pORF+_4198304	equal	npORF+_4198304	4198304	4198576	equal
EG10022	aceA	434	b4015	FWD	4215132	4216436	pORF+_4215117	inside	npORF+_4215117	4215132	4216436	equal
EG10026	aceK	578	b4016	FWD	4216619	4218355	pORF+_4216619	equal	npORF+_4216619	4216934	4218355	inside

EG10587	methH	1227	b4019	FWD	4221851	4225534	pORF_+_4221830	inside	npORF_+_4221830	4221851	4225534	equal
EG10528	lamB	446	b4036	FWD	4245994	4247334	pORF_+_4245994	equal	npORF_+_4245994	4245994	4247334	equal
EG11369	ubiC	165	b4039	FWD	4250529	4251026	pORF_+_4250418	inside	npORF_+_4250418	4250856	4251026	inside
EG10224	dgkA	122	b4042	FWD	4254660	4255028	pORF_+_4254660	equal	npORF_+_4254660	4254660	4255028	equal
EG11928	yjbJ	69	b4045	FWD	4257260	4257469	pORF_+_4257254	inside	npORF_+_4257254	4257260	4257469	equal
EG10236	dnaB	471	b4052	FWD	4262337	4263752	pORF_+_4262337	equal	npORF_+_4262337	4262337	4263752	equal
EG11040	tyrB	397	b4054	FWD	4265137	4266330	pORF_+_4265095	inside	npORF_+_4265095	4265137	4266330	equal
EG11934	aphA	237	b4055	FWD	4267437	4268150	pORF_+_4267197	inside	npORF_+_4267197	4267476	4268150	inside
EG11936	yjbR	118	b4057	FWD	4268681	4269037	pORF_+_4268681	equal	npORF_+_4268681	4268681	4269037	equal
EG10976	ssb	178	b4059	FWD	4272148	4272684	pORF_+_4272085	inside	npORF_+_4272085	4272148	4272684	equal
EG11781	nrfA	478	b4070	FWD	4285787	4287223	pORF_+_4285754	inside	npORF_+_4285754	4285829	4287223	inside
EG11945	nrfB	188	b4071	FWD	4287268	4287834						
EG10577	meIA	451	b4119	FWD	4339934	4341289	pORF_+_4339934	equal	npORF_+_4339934	4340090	4341289	inside
EG10600	groS	97	b4142	FWD	4368711	4369004	pORF_+_4368711	equal	npORF_+_4368711	4368711	4369004	equal
EG10599	groL	548	b4143	FWD	4369048	4370694	pORF_+_4369048	equal	npORF_+_4369048	4369048	4370694	equal
EG12099	efp	188	b4147	FWD	4373722	4374288	pORF_+_4373722	equal	npORF_+_4373722	4373722	4374288	equal
EG12480	orn	181	b4162	FWD	4389627	4390172	pORF_+_4389483	inside	npORF_+_4389483	4389627	4390172	equal
EG10438	hfq	102	b4172	FWD	4398311	4398619	pORF_+_4398311	equal	npORF_+_4398311	4398311	4398619	equal
EG10790	purA	432	b4177	FWD	4402710	4404008	pORF_+_4402710	equal	npORF_+_4402710	4402710	4404008	equal
EG11259	rnr	813	b4179	FWD	4404677	4407118	pORF_+_4404635	inside	npORF_+_4404635	4404677	4407118	equal
EG12496	ulaD	216	b4196	FWD	4420209	4420859	pORF_+_4420011	inside	npORF_+_4420011	4420533	4420859	inside
EG10905	rpsF	135	b4200	FWD	4423141	4423536	pORF_+_4423141	equal	npORF_+_4423141	4423141	4423536	equal
EG10764	priB	104	b4201	FWD	4423543	4423857						
EG10917	rpsR	75	b4202	FWD	4423862	4424089	pORF_+_4423862	equal	npORF_+_4423862	4423862	4424089	equal
EG10870	rplI	149	b4203	FWD	4424131	4424580	pORF_+_4424131	equal	npORF_+_4424131	4424131	4424580	equal
EG12503	fkIB	206	b4207	FWD	4426958	4427578	pORF_+_4426799	inside	npORF_+_4426799	4427012	4427578	inside
EG12517	ytfQ	318	b4227	FWD	4447985	4448941	pORF_+_4447985	equal	npORF_+_4447985	4448042	4448941	inside
EG10308	fimA	182	b4314	FWD	4541138	4541686	pORF_+_4541138	equal	npORF_+_4541138	4541138	4541686	equal
EG10311	fimD	878	b4317	FWD	4543119	4545755						
EG10315	fimH	300	b4320	FWD	4546831	4547733	pORF_+_4546822	inside	npORF_+_4546822	4547566	4547733	inside
EG11414	holD	137	b4372	FWD	4605826	4606239	pORF_+_4605826	equal	npORF_+_4605826	4605898	4606239	inside
EG11391	osmY	201	b4376	FWD	4609419	4610024	pORF_+_4609341	inside	npORF_+_4609341	4609467	4610024	inside
EG10221	deoC	259	b4381	FWD	4615346	4616125	pORF_+_4615322	inside	npORF_+_4615322	4615346	4616125	equal
EG10220	deoB	407	b4383	FWD	4617626	4618849	pORF_+_4617626	equal	npORF_+_4617626	4617626	4618849	equal
EG10222	deoD	239	b4384	FWD	4618906	4619625	pORF_+_4618849	inside	npORF_+_4618849	4618906	4619625	equal
EG10950	slt	645	b4392	FWD	4628756	4630693	pORF_+_4628726	inside	npORF_+_4628726	4629002	4630693	inside
EG11029	trpR	108	b4393	FWD	4630783	4631109	pORF_+_4630783	equal	npORF_+_4630783	4630783	4631109	equal
EG10919	rpsT	87	b0023	REV	20815	21078	pORF_-_20815	equal	npORF_-_20815	20815	21078	equal
EG11559	caiB	405	b0038	REV	37898	39115						
EG11560	caiA	380	b0039	REV	39244	40386						
EG10048	apaH	280	b0049	REV	50380	51222	pORF_-_50380	equal	npORF_-_50380	50380	51039	inside
EG10985	surA	428	b0053	REV	53416	54702	pORF_-_53416	equal	npORF_-_53416	53416	54666	inside
EG11569	lptD	784	b0054	REV	54755	57109	pORF_-_54755	equal	npORF_-_54755	54755	57076	inside
EG12609	rluA	219	b0058	REV	59687	60346	pORF_-_59687	inside	npORF_-_59687	59687	60244	inside
EG11083	hepA	968	b0059	REV	60358	63264	pORF_-_60358	equal	npORF_-_60358	60358	63192	inside
EG10747	poiB	783	b0060	REV	63429	65780						

EG10055	araD	231	b0061	REV	65855	66550	pORF_-_65855	equal	npORF_-_65855	65855	66355	inside
EG10053	araB	566	b0063	REV	68348	70048	pORF_-_68348	equal	npORF_-_68348	68348	70048	equal
EG11574	thiB	327	b0068	REV	74497	75480	pORF_-_74497	inside	npORF_-_74497	74497	75366	inside
EG11575	leuD	201	b0071	REV	78848	79453	pORF_-_78848	equal	npORF_-_78848	78848	79453	equal
EG11576	leuC	466	b0072	REV	79464	80864	pORF_-_79464	equal	npORF_-_79464	79464	80864	equal
EG11577	leuB	363	b0073	REV	80867	81958	pORF_-_80867	inside	npORF_-_80867	80867	81958	equal
EG11226	leuA	523	b0074	REV	81958	83529	pORF_-_81958	equal	npORF_-_81958	81958	83529	equal
EG10962	speD	264	b0120	REV	134788	135582	pORF_-_134788	equal	npORF_-_134788	134788	135582	equal
EG10963	speE	288	b0121	REV	135598	136464	pORF_-_135598	equal	npORF_-_135598	135598	136464	equal
EG10369	gcd	796	b0124	REV	138835	141225	pORF_-_138835	inside	npORF_-_138835	138835	140853	inside
EG11747	panD	126	b0131	REV	146314	146694	pORF_-_146314	equal	npORF_-_146314	146314	146694	equal
EG11675	panB	264	b0134	REV	148807	149601	pORF_-_148807	equal	npORF_-_148807	148807	149601	equal
EG11374	folK	159	b0142	REV	157253	157732	pORF_-_157253	equal	npORF_-_157253	157253	157726	inside
EG10690	pcnB	465	b0143	REV	157729	159126	pORF_-_157729	inside	npORF_-_157729	157729	159093	inside
EG10230	dksA	151	b0145	REV	160149	160604	pORF_-_160149	inside	npORF_-_160149	160149	160604	equal
EG12330	ligT	176	b0147	REV	161501	162031						
EG12334	btuF	266	b0158	REV	177662	178462						
EG10207	dapD	274	b0166	REV	185123	185947	pORF_-_185123	equal	npORF_-_185123	185123	185947	equal
EG10570	map	264	b0168	REV	188712	189506	pORF_-_188712	equal	npORF_-_188712	188712	189506	equal
EG13221	rof	84	b0189	REV	213678	213932	pORF_-_213678	inside	npORF_-_213678	213678	213827	inside
EG10770	proS	572	b0194	REV	217057	218775	pORF_-_217057	inside	npORF_-_217057	217057	218775	equal
EG10860	rnhA	155	b0214	REV	235535	236002	pORF_-_235535	inside	npORF_-_235535	235535	235804	inside
EG10695	pepD	485	b0237	REV	254259	255716	pORF_-_254259	equal	npORF_-_254259	254259	255716	equal
EG10729	phoE	351	b0241	REV	258269	259324	pORF_-_258269	inside	npORF_-_258269	258269	259285	inside
EG10067	argF	334	b0273	REV	288525	289529	pORF_-_288525	equal	npORF_-_288525	288525	289529	equal
EG13565	matB	195	b0293	REV	309308	309895	pORF_-_309308	equal	npORF_-_309308	309308	310051	inside
EG10110	betB	490	b0312	REV	326485	327957	pORF_-_326485	inside	npORF_-_326485	326485	327948	inside
EG10524	lacA	203	b0342	REV	360473	361084	pORF_-_360473	inside	npORF_-_360473	360473	360655	inside
EG10527	lacZ	1024	b0344	REV	362455	365529						
EG10525	lacI	360	b0345	REV	365652	366734	pORF_-_365652	inside	npORF_-_365652	365652	366668	inside
EG20276	mhpR	277	b0346	REV	366811	367644	pORF_-_366811	inside	npORF_-_366811	366811	367503	inside
EG50010	frmA	369	b0356	REV	377686	378795	pORF_-_377686	equal	npORF_-_377686	377686	378546	inside
EG10428	hemB	324	b0369	REV	387977	388951	pORF_-_387977	inside	npORF_-_387977	387977	388951	equal
EG10769	proC	269	b0386	REV	404059	404868	pORF_-_404059	inside	npORF_-_404059	404059	404868	equal
EG12158	rdgC	303	b0393	REV	408332	409243	pORF_-_408332	inside	npORF_-_408332	408332	409177	inside
EG10927	sbcC	1048	b0397	REV	411831	414977	pORF_-_411831	equal	npORF_-_411831	411831	412463	inside
EG11094	sbcD	400	b0398	REV	414974	416176	pORF_-_414974	inside	npORF_-_414974	414974	415804	inside
EG13612	dxs	620	b0420	REV	437539	439401	pORF_-_437539	equal	npORF_-_437539	437539	439401	equal
EG10508	ispA	299	b0421	REV	439426	440325	pORF_-_439426	equal	npORF_-_439426	439426	440325	equal
EG10995	tesB	286	b0452	REV	473525	474385	pORF_-_473525	inside	npORF_-_473525	473525	474385	equal
EG14239	maa	183	b0459	REV	478591	479142	pORF_-_478591	equal	npORF_-_478591	478591	478680	inside
EG10765	priC	175	b0467	REV	489509	490036	pORF_-_489509	equal	npORF_-_489509	489509	489967	inside
EG11101	aes	319	b0476	REV	498238	499197						
EG13246	copA	834	b0484	REV	508099	510603	pORF_-_508099	equal	npORF_-_508099	508099	510603	equal
EG11542	tesA	208	b0494	REV	518363	518989	pORF_-_518363	inside	npORF_-_518363	518363	518956	inside
EG10796	purK	355	b0522	REV	550750	551817	pORF_-_550750	equal	npORF_-_550750	550750	552348	inside

EG10793	purE	169	b0523	REV	551814	552323	pORF_-_551814	inside	npORF_-_551814	551814	552284	inside
EG10758	ppiB	164	b0525	REV	553166	553660	pORF_-_553166	equal	npORF_-_553166	553166	553660	equal
EG10328	fold	288	b0529	REV	556098	556964	pORF_-_556098	equal	npORF_-_556098	556098	556964	equal
EG10659	nmpC	365	b0533	REV	575009	576048						
EG10673	ompT	317	b0565	REV	583903	584856	pORF_-_583903	equal	npORF_-_583903	583903	584856	equal
EG20151	nfsB	217	b0578	REV	603994	604647	pORF_-_603994	inside	npORF_-_603994	603994	604647	equal
EG10293	fepA	746	b0584	REV	609477	611717	pORF_-_609477	inside	npORF_-_609477	609477	611687	inside
EG10294	fepB	318	b0592	REV	622777	623733	pORF_-_622777	equal	npORF_-_622777	622777	623685	inside
EG13535	dsbG	248	b0604	REV	637050	637796	pORF_-_637050	inside	npORF_-_637050	637050	637583	inside
EG12683	uspG	142	b0607	REV	640662	641090	pORF_-_640662	equal	npORF_-_640662	640662	641090	equal
EG10856	rna	268	b0611	REV	643420	644226	pORF_-_643420	inside	npORF_-_643420	643420	644151	inside
EG11306	lipA	321	b0628	REV	658474	659439	pORF_-_658474	equal	npORF_-_658474	658474	659178	inside
EG10201	dacA	403	b0632	REV	661975	663186	pORF_-_661975	inside	npORF_-_661975	661975	663012	inside
EG11412	holA	343	b0640	REV	669797	670828	pORF_-_669797	equal	npORF_-_669797	669797	670240	inside
EG12700	gltI	302	b0655	REV	686062	686970	pORF_-_686062	inside	npORF_-_686062	686062	686970	equal
EG10092	asnB	554	b0674	REV	696736	698400	pORF_-_696736	inside	npORF_-_696736	696736	698319	inside
EG10318	fldA	176	b0684	REV	710158	710688	pORF_-_710158	inside	npORF_-_710158	710158	710688	equal
EG10517	kdpE	225	b0694	REV	720279	720956						
EG10402	gltA	427	b0720	REV	752408	753691	pORF_-_752408	equal	npORF_-_752408	752408	753691	equal
EG11699	gpmA	250	b0755	REV	786066	786818	pORF_-_786066	inside	npORF_-_786066	786066	786818	equal
EG10363	galK	382	b0757	REV	788054	789202	pORF_-_788054	equal	npORF_-_788054	788054	789202	equal
EG10366	galT	348	b0758	REV	789206	790252	pORF_-_789206	equal	npORF_-_789206	789206	789931	inside
EG10362	galE	338	b0759	REV	790262	791278	pORF_-_790262	inside	npORF_-_790262	790262	791227	inside
EG10386	glnH	248	b0811	REV	846481	847227	pORF_-_846481	equal	npORF_-_846481	846481	847227	equal
EG11415	dps	167	b0812	REV	847631	848134	pORF_-_847631	inside	npORF_-_847631	847631	848134	equal
EG13324	ybiS	306	b0819	REV	854047	854967	pORF_-_854047	equal	npORF_-_854047	854047	854748	inside
EG10417	grxA	85	b0849	REV	889719	889976	pORF_-_889719	inside	npORF_-_889719	889719	889976	equal
EG11628	artJ	243	b0860	REV	899067	899798	pORF_-_899067	inside	npORF_-_899067	899067	899798	equal
EG11625	artI	243	b0863	REV	901480	902211	pORF_-_901480	equal	npORF_-_901480	901480	902679	inside
EG13690	ltaE	333	b0870	REV	907516	908517	pORF_-_907516	equal	npORF_-_907516	907516	908517	equal
EG10754	poxB	572	b0871	REV	908554	910272	pORF_-_908554	equal	npORF_-_908554	908554	910221	inside
EG11111	cspD	74	b0880	REV	921589	921813	pORF_-_921589	inside	npORF_-_921589	921589	921813	equal
EG10504	infA	72	b0884	REV	925448	925666	pORF_-_925448	equal	npORF_-_925448	925448	925666	equal
EG11032	trxB	321	b0888	REV	930308	931273	pORF_-_930308	inside	npORF_-_930308	930308	931273	equal
EG11241	ycaC	208	b0897	REV	944154	944780	pORF_-_944154	equal	npORF_-_944154	944154	944780	equal
EG10028	pflA	246	b0902	REV	949563	950303	pORF_-_949563	inside	npORF_-_949563	949563	950303	equal
EG10701	pflB	760	b0903	REV	950495	952777	pORF_-_950495	equal	npORF_-_950495	950495	952777	equal
EG10096	aspC	396	b0928	REV	983742	984932	pORF_-_983742	equal	npORF_-_983742	983742	985097	inside
EG10671	ompF	362	b0929	REV	985117	986205	pORF_-_985117	equal	npORF_-_985117	985117	986202	inside
EG10094	asnS	466	b0930	REV	986808	988208	pORF_-_986808	inside	npORF_-_986808	986808	988208	equal
EG10742	pncB	400	b0931	REV	988377	989579	pORF_-_988377	inside	npORF_-_988377	988377	989579	equal
EG13706	ssuD	381	b0935	REV	994066	995211	pORF_-_994066	equal	npORF_-_994066	994066	994524	inside
EG13708	ssuE	191	b0937	REV	996160	996735						
EG10273	fabA	172	b0954	REV	1015175	1015693	pORF_-_1015175	inside	npORF_-_1015175	1015175	1015693	equal
EG10669	ompA	346	b0957	REV	1018236	1019276	pORF_-_1018236	inside	npORF_-_1018236	1018236	1019249	inside
EG12307	mgsA	152	b0963	REV	1025780	1026238	pORF_-_1025780	inside	npORF_-_1025780	1025780	1026190	inside

EG13724	hspQ	105	b0966	REV	1027627	1027944	pORF_-_1027627	inside	npORF_-_1027627	1027627	1027944	equal
EG11826	etk	726	b0981	REV	1041253	1043433	pORF_-_1041253	equal	npORF_-_1041253	1041253	1041456	inside
EG12615	torR	230	b0995	REV	1056485	1057177	pORF_-_1056485	equal	npORF_-_1056485	1056485	1057177	equal
EG12193	cbpA	306	b1000	REV	1062078	1062998	pORF_-_1062078	equal	npORF_-_1062078	1062078	1062998	equal
EG12703	yccJ	75	b1003	REV	1066087	1066314	pORF_-_1066087	equal	npORF_-_1066087	1066087	1066314	equal
EG11540	wrbA	198	b1004	REV	1066335	1066931	pORF_-_1066335	equal	npORF_-_1066335	1066335	1066931	equal
EG11820	yceI	191	b1056	REV	1117124	1117699	pORF_-_1117124	equal	npORF_-_1117124	1117124	1117660	inside
EG10806	pyrC	348	b1062	REV	1120784	1121830	pORF_-_1120784	equal	npORF_-_1120784	1120784	1121830	equal
EG12688	grxB	215	b1064	REV	1122630	1123277	pORF_-_1122630	equal	npORF_-_1122630	1122630	1123277	equal
EG10859	rne	1061	b1084	REV	1140405	1143590	pORF_-_1140405	equal	npORF_-_1140405	1140405	1143581	inside
EG10306	fhuE	729	b1102	REV	1158585	1160774	pORF_-_1158585	equal	npORF_-_1158585	1158585	1160558	inside
EG10752	potD	348	b1123	REV	1181006	1182052	pORF_-_1181006	equal	npORF_-_1181006	1181006	1182001	inside
EG11314	purB	456	b1131	REV	1189839	1191209	pORF_-_1189839	equal	npORF_-_1189839	1189839	1191209	equal
EG10597	minD	270	b1175	REV	1223772	1224584	pORF_-_1223772	equal	npORF_-_1223772	1223772	1224584	equal
EG13243	hlyE	303	b1182	REV	1228706	1229617						
EG11017	treA	565	b1197	REV	1244902	1246599	pORF_-_1244902	inside	npORF_-_1244902	1244902	1246518	inside
EG11404	ychF	363	b1203	REV	1255944	1257035	pORF_-_1255944	equal	npORF_-_1255944	1255944	1257035	equal
EG10785	pth	194	b1204	REV	1257152	1257736	pORF_-_1257152	equal	npORF_-_1257152	1257152	1257724	inside
EG10774	prs	315	b1207	REV	1260151	1261098	pORF_-_1260151	inside	npORF_-_1260151	1260151	1261098	equal
EG11819	purU	280	b1232	REV	1287005	1287847	pORF_-_1287005	equal	npORF_-_1287005	1287005	1287847	equal
EG10457	hns	137	b1237	REV	1291732	1292145	pORF_-_1291732	equal	npORF_-_1291732	1291732	1292145	equal
EG10031	adhE	891	b1241	REV	1294669	1297344	pORF_-_1294669	equal	npORF_-_1294669	1294669	1297344	equal
EG11607	yciI	98	b1251	REV	1308593	1308889	pORF_-_1308593	inside	npORF_-_1308593	1308593	1308886	inside
EG11125	yciE	168	b1257	REV	1312742	1313248	pORF_-_1312742	equal	npORF_-_1312742	1312742	1313167	inside
EG11126	yciF	166	b1258	REV	1313294	1313794	pORF_-_1313294	inside	npORF_-_1313294	1313294	1313788	inside
EG11024	trpA	268	b1260	REV	1314440	1315246	pORF_-_1314440	equal	npORF_-_1314440	1314440	1315246	equal
EG11025	trpB	397	b1261	REV	1315246	1316439	pORF_-_1315246	equal	npORF_-_1315246	1315246	1316439	equal
EG11027	trpD	531	b1263	REV	1317813	1319408	pORF_-_1317813	equal	npORF_-_1317813	1317813	1319408	equal
EG11028	trpE	520	b1264	REV	1319408	1320970	pORF_-_1319408	equal	npORF_-_1319408	1319408	1320970	equal
EG12868	yciN	83	b1273	REV	1328441	1328692	pORF_-_1328441	equal	npORF_-_1328441	1328441	1328692	equal
EG11331	ribA	196	b1277	REV	1336594	1337184	pORF_-_1336594	inside	npORF_-_1336594	1336594	1337169	inside
EG11528	fabI	262	b1288	REV	1348275	1349063	pORF_-_1348275	equal	npORF_-_1348275	1348275	1349063	equal
EG12672	tpx	168	b1324	REV	1386329	1386835	pORF_-_1386329	equal	npORF_-_1386329	1386329	1386835	equal
EG11246	uspE	316	b1333	REV	1395696	1396646	pORF_-_1395696	inside	npORF_-_1395696	1395696	1396646	equal
EG10325	fnr	250	b1334	REV	1396798	1397550	pORF_-_1396798	inside	npORF_-_1396798	1396798	1397121	inside
EG10668	ogt	171	b1335	REV	1397745	1398260						
EG11899	recT	269	b1349	REV	1412008	1412817						
EG10827	recE	866	b1350	REV	1412810	1415410	pORF_-_1412810	equal	npORF_-_1412810	1412810	1415059	inside
EG10813	racC	91	b1351	REV	1415512	1415787						
EG12674	uspF	144	b1376	REV	1433209	1433643	pORF_-_1433209	inside	npORF_-_1433209	1433209	1433643	equal
EG13375	ompN	377	b1377	REV	1433784	1434917	pORF_-_1433784	equal	npORF_-_1433784	1433784	1434917	equal
EG13422	feaR	301	b1384	REV	1444402	1445307						
EG13140	tynA	757	b1386	REV	1447100	1449373						
EG12695	azoR	201	b1412	REV	1480279	1480884	pORF_-_1480279	equal	npORF_-_1480279	1480279	1480824	inside
EG10647	narY	514	b1467	REV	1535333	1536877						
EG11508	sra	45	b1480	REV	1553850	1553987	pORF_-_1553850	equal	npORF_-_1553850	1553850	1553987	equal

EG11490	gadB	466	b1493	REV	1568669	1570069	pORF_-_1568669	inside	npORF_-_1568669	1568669	1570069	equal
EG10442	hipB	88	b1508	REV	1590200	1590466						
EG11065	uxaB	483	b1521	REV	1607253	1608704	pORF_-_1607253	equal	npORF_-_1607253	1607253	1608704	equal
EG10212	dcp	681	b1538	REV	1623359	1625404	pORF_-_1623359	inside	npORF_-_1623359	1623359	1625299	inside
EG10745	pntB	462	b1602	REV	1672996	1674384	pORF_-_1672996	equal	npORF_-_1672996	1672996	1673598	inside
EG10744	pntA	510	b1603	REV	1674395	1675927	pORF_-_1674395	inside	npORF_-_1674395	1674395	1675927	equal
EG10358	fumC	467	b1611	REV	1683209	1684612	pORF_-_1683209	equal	npORF_-_1683209	1683209	1684612	equal
EG10356	fumA	548	b1612	REV	1684755	1686401	pORF_-_1684755	equal	npORF_-_1684755	1684755	1686401	equal
EG12668	uidC	421	b1615	REV	1689610	1690875						
EG11658	uidB	457	b1616	REV	1690914	1692287						
EG11055	uidA	603	b1617	REV	1692284	1694095						
EG10425	hdhA	255	b1619	REV	1695297	1696064	pORF_-_1695297	equal	npORF_-_1695297	1695297	1696064	equal
EG11043	tyrS	424	b1637	REV	1713972	1715246	pORF_-_1713972	inside	npORF_-_1713972	1713972	1715246	equal
EG11487	pdxH	218	b1638	REV	1715375	1716031	pORF_-_1715375	equal	npORF_-_1715375	1715375	1716031	equal
EG13962	sufS	406	b1680	REV	1757327	1758547	pORF_-_1757327	equal	npORF_-_1757327	1757327	1758388	inside
EG10759	pps	792	b1702	REV	1782758	1785136	pORF_-_1782758	equal	npORF_-_1782758	1782758	1785136	equal
EG10440	ihfA	99	b1712	REV	1793277	1793576	pORF_-_1793277	equal	npORF_-_1793277	1793277	1793576	equal
EG10881	rplT	118	b1716	REV	1797417	1797773	pORF_-_1797417	equal	npORF_-_1797417	1797417	1797773	equal
EG11231	rpmI	65	b1717	REV	1797826	1798023	pORF_-_1797826	inside	npORF_-_1797826	1797826	1798023	equal
EG10506	infC	180	b1718	REV	1798120	1798662	pORF_-_1798120	inside	npORF_-_1798120	1798120	1798677	inside
EG10144	chbF	450	b1734	REV	1815172	1816524						
EG13994	ves	191	b1742	REV	1822386	1822961						
EG13490	spy	161	b1743	REV	1823164	1823649	pORF_-_1823164	equal	npORF_-_1823164	1823164	1823499	inside
EG11014	topB	653	b1763	REV	1843023	1844984	pORF_-_1843023	inside	npORF_-_1843023	1843023	1843979	inside
EG13492	mipA	248	b1782	REV	1863750	1864496	pORF_-_1863750	equal	npORF_-_1863750	1863750	1864466	inside
EG10858	rnd	375	b1804	REV	1884888	1886015						
EG11530	fadD	561	b1805	REV	1886085	1887770	pORF_-_1886085	inside	npORF_-_1886085	1886085	1887770	equal
EG12204	cspC	69	b1823	REV	1905250	1905459	pORF_-_1905250	equal	npORF_-_1905250	1905250	1905459	equal
EG10760	prc	682	b1830	REV	1910792	1912840	pORF_-_1910792	inside	npORF_-_1910792	1910792	1912834	inside
EG11004	ptrB	686	b1845	REV	1924803	1926863						
EG11807	yebF	118	b1847	REV	1928058	1928414	pORF_-_1928058	inside	npORF_-_1928058	1928058	1928381	inside
EG10256	eda	213	b1850	REV	1930139	1930780	pORF_-_1930139	equal	npORF_-_1930139	1930139	1930780	equal
EG12678	znuA	310	b1857	REV	1939675	1940607	pORF_-_1939675	inside	npORF_-_1939675	1939675	1940607	equal
EG10925	ruvC	173	b1863	REV	1944879	1945400	pORF_-_1944879	inside	npORF_-_1944879	1944879	1945190	inside
EG10097	aspS	590	b1866	REV	1946774	1948546	pORF_-_1946774	equal	npORF_-_1946774	1946774	1948546	equal
EG13276	torZ	809	b1872	REV	1952602	1955031	pORF_-_1952602	inside	npORF_-_1952602	1952602	1953582	inside
EG10146	cheA	654	b1888	REV	1971384	1973348	pORF_-_1971384	inside	npORF_-_1971384	1971384	1973231	inside
EG11751	otsA	474	b1896	REV	1978212	1979636	pORF_-_1978212	inside	npORF_-_1978212	1978212	1979636	equal
EG11752	otsB	266	b1897	REV	1979611	1980411	pORF_-_1979611	inside	npORF_-_1979611	1979611	1980240	inside
EG10057	araF	329	b1901	REV	1983163	1984152	pORF_-_1983163	inside	npORF_-_1983163	1983163	1983966	inside
EG11063	uvrC	610	b1913	REV	1990898	1992730	pORF_-_1990898	equal	npORF_-_1990898	1990898	1992664	inside
EG14038	dcyD	328	b1919	REV	1996518	1997504	pORF_-_1996518	inside	npORF_-_1996518	1996518	1997504	equal
EG12680	fliY	266	b1920	REV	1997609	1998409	pORF_-_1997609	inside	npORF_-_1997609	1997609	1998343	inside
EG10321	fliC	498	b1923	REV	2000134	2001630	pORF_-_2000134	equal	npORF_-_2000134	2000134	2001630	equal
EG11068	vsr	156	b1960	REV	2028472	2028942						
EG12682	erfK	310	b1990	REV	2060415	2061347	pORF_-_2060415	inside	npORF_-_2060415	2060415	2061347	equal

EG13391	yeeX	109	b2007	REV	2077056	2077385	pORF_-_2077056	inside	npORF_-_2077056	2077056	2077448	inside
EG11892	sbmC	157	b2009	REV	2078813	2079286	pORF_-_2078813	equal	npORF_-_2078813	2078813	2079286	equal
EG11981	glf	367	b2036	REV	2105250	2106353	pORF_-_2105250	equal	npORF_-_2105250	2105250	2106269	inside
EG11418	dcd	193	b2065	REV	2139658	2140239	pORF_-_2139658	equal	npORF_-_2139658	2139658	2140239	equal
EG11222	alkA	282	b2068	REV	2144716	2145564						
EG12415	gatB	94	b2093	REV	2172304	2172588	pORF_-_2172304	equal	npORF_-_2172304	2172304	2172588	equal
EG12419	gatY	284	b2096	REV	2174372	2175226	pORF_-_2174372	inside	npORF_-_2174372	2174372	2175226	equal
EG14062	fbaB	350	b2097	REV	2175534	2176586	pORF_-_2175534	inside	npORF_-_2175534	2175534	2176586	equal
EG12015	pbpG	310	b2134	REV	2221960	2222892	pORF_-_2221960	inside	npORF_-_2221960	2221960	2222025	inside
EG10593	mgIB	332	b2150	REV	2237372	2238370	pORF_-_2237372	equal	npORF_-_2237372	2237372	2238328	inside
EG10365	galS	346	b2151	REV	2238650	2239690						
EG11375	folE	222	b2153	REV	2241006	2241674	pORF_-_2241006	equal	npORF_-_2241006	2241006	2241674	equal
EG10155	cirA	663	b2155	REV	2242800	2244791	pORF_-_2242800	equal	npORF_-_2242800	2242800	2244725	inside
EG11337	lysP	489	b2156	REV	2245085	2246554	pORF_-_2245085	equal	npORF_-_2245085	2245085	2245591	inside
EG12044	rsuA	231	b2183	REV	2277810	2278505	pORF_-_2277810	equal	npORF_-_2277810	2277810	2278505	equal
EG12048	yeyK	335	b2186	REV	2280962	2281969	pORF_-_2280962	equal	npORF_-_2280962	2280962	2281969	equal
EG12055	ccmE	159	b2197	REV	2292923	2293402						
EG12061	napB	149	b2203	REV	2296291	2296740						
EG12067	napA	828	b2206	REV	2298289	2300775	pORF_-_2298289	equal	npORF_-_2298289	2298289	2300586	inside
EG10037	alkB	216	b2212	REV	2306713	2307363						
EG10029	ada	354	b2213	REV	2307363	2308427						
EG10670	ompC	367	b2215	REV	2309668	2310771	pORF_-_2309668	equal	npORF_-_2309668	2309668	2310771	equal
EG10423	gyrA	875	b2231	REV	2334815	2337442	pORF_-_2334815	equal	npORF_-_2334815	2334815	2337442	equal
EG10399	glpQ	358	b2239	REV	2347957	2349033	pORF_-_2347957	inside	npORF_-_2347957	2347957	2348964	inside
EG12089	nuoI	180	b2281	REV	2393930	2394472	pORF_-_2393930	equal	npORF_-_2393930	2393930	2394472	equal
EG12087	nuoG	908	b2283	REV	2395461	2398187	pORF_-_2395461	inside	npORF_-_2395461	2395461	2398040	inside
EG11774	nuoF	445	b2284	REV	2398240	2399577	pORF_-_2398240	equal	npORF_-_2398240	2398240	2399577	equal
EG12086	nuoE	166	b2285	REV	2399574	2400074	pORF_-_2399574	equal	npORF_-_2399574	2399574	2400074	equal
EG12084	nuoC	596	b2286	REV	2400077	2401867	pORF_-_2400077	inside	npORF_-_2400077	2400077	2401867	equal
EG12083	nuoB	220	b2287	REV	2401973	2402635	pORF_-_2401973	equal	npORF_-_2401973	2401973	2402635	equal
EG12124	hisJ	260	b2309	REV	2424028	2424810	pORF_-_2424028	equal	npORF_-_2424028	2424028	2424798	inside
EG10072	argT	260	b2310	REV	2425031	2425813	pORF_-_2425031	equal	npORF_-_2425031	2425031	2425786	inside
EG10794	purF	505	b2312	REV	2426743	2428260	pORF_-_2426743	equal	npORF_-_2426743	2426743	2428260	equal
EG10327	folC	422	b2315	REV	2429696	2430964	pORF_-_2429696	equal	npORF_-_2429696	2429696	2430964	equal
EG10454	truA	270	b2318	REV	2432846	2433658	pORF_-_2432846	equal	npORF_-_2432846	2432846	2433556	inside
EG11059	usg	337	b2319	REV	2433658	2434671	pORF_-_2433658	equal	npORF_-_2433658	2433658	2434671	equal
EG10274	fabB	406	b2323	REV	2438407	2439627	pORF_-_2438407	equal	npORF_-_2438407	2438407	2439627	equal
EG10580	mepA	274	b2328	REV	2443582	2444406	pORF_-_2443582	equal	npORF_-_2443582	2443582	2444001	inside
EG10075	aroC	361	b2329	REV	2444410	2445495	pORF_-_2444410	inside	npORF_-_2444410	2444410	2445495	equal
EG14146	yfdX	211	b2375	REV	2491789	2492424	pORF_-_2491789	equal	npORF_-_2491789	2491789	2492400	inside
EG10534	ligA	671	b2411	REV	2526183	2528198	pORF_-_2526183	equal	npORF_-_2526183	2526183	2528198	equal
EG10193	cysM	303	b2421	REV	2536694	2537605	pORF_-_2536694	inside	npORF_-_2536694	2536694	2537605	equal
EG10195	cysP	338	b2425	REV	2540534	2541550	pORF_-_2540534	equal	npORF_-_2540534	2540534	2541550	equal
EG50007	eutC	295	b2440	REV	2554432	2555319	pORF_-_2554432	equal	npORF_-_2554432	2554432	2555319	equal
EG50006	eutB	453	b2441	REV	2555340	2556701	pORF_-_2555340	inside	npORF_-_2555340	2555340	2556644	inside
EG10791	purC	237	b2476	REV	2594927	2595640	pORF_-_2594927	inside	npORF_-_2594927	2594927	2595640	equal

EG10205	dapA	292	b2478	REV	2596904	2597782	pORF_-_2596904	inside	npORF_-_2596904	2596904	2597782	equal
EG14201	hda	233	b2496	REV	2616097	2616798	pORF_-_2616097	inside	npORF_-_2616097	2616097	2616690	inside
EG11332	upp	208	b2498	REV	2618268	2618894	pORF_-_2618268	inside	npORF_-_2618268	2618268	2618894	equal
EG10420	guaA	525	b2507	REV	2628980	2630557	pORF_-_2628980	equal	npORF_-_2628980	2628980	2630557	equal
EG10421	guaB	488	b2508	REV	2630626	2632092	pORF_-_2630626	inside	npORF_-_2630626	2630626	2632092	equal
EG10453	hisS	424	b2514	REV	2637323	2638597	pORF_-_2637323	equal	npORF_-_2637323	2637323	2638597	equal
EG10650	ndk	143	b2518	REV	2642455	2642886	pORF_-_2642455	equal	npORF_-_2642455	2642455	2642886	equal
EG11328	fdx	111	b2525	REV	2654770	2655105	pORF_-_2654770	equal	npORF_-_2654770	2654770	2655105	equal
EG12677	iscS	404	b2530	REV	2658339	2659553	pORF_-_2658339	inside	npORF_-_2658339	2658339	2659553	equal
EG13467	yphF	327	b2548	REV	2676406	2677389						
EG10408	glyA	417	b2551	REV	2682276	2683529	pORF_-_2682276	inside	npORF_-_2682276	2682276	2683529	equal
EG10384	glnB	112	b2553	REV	2685092	2685430	pORF_-_2685092	equal	npORF_-_2685092	2685092	2685430	equal
EG10797	purL	1295	b2557	REV	2689678	2693565	pORF_-_2689678	equal	npORF_-_2689678	2689678	2693565	equal
EG10247	acpS	126	b2563	REV	2698640	2699020	pORF_-_2698640	equal	npORF_-_2698640	2698640	2699020	equal
EG10693	pdxJ	243	b2564	REV	2699020	2699751	pORF_-_2699020	inside	npORF_-_2699020	2699020	2699751	equal
EG10270	era	301	b2566	REV	2700503	2701408	pORF_-_2700503	equal	npORF_-_2700503	2700503	2701408	equal
EG10857	rnc	226	b2567	REV	2701405	2702085	pORF_-_2701405	equal	npORF_-_2701405	2701405	2702085	equal
EG11784	yfiD	127	b2579	REV	2714088	2714471	pORF_-_2714088	inside	npORF_-_2714088	2714088	2714471	equal
EG10157	clpB	857	b2592	REV	2729622	2732195	pORF_-_2729622	inside	npORF_-_2729622	2729622	2732018	inside
EG12098	rluD	326	b2594	REV	2733053	2734033	pORF_-_2733053	equal	npORF_-_2733053	2733053	2734033	equal
EG10078	aroF	356	b2601	REV	2738102	2739172	pORF_-_2738102	inside	npORF_-_2738102	2738102	2739172	equal
EG10880	rplS	115	b2606	REV	2742205	2742552	pORF_-_2742205	equal	npORF_-_2742205	2742205	2742552	equal
EG11023	trmD	255	b2607	REV	2742594	2743361	pORF_-_2742594	equal	npORF_-_2742594	2742594	2743361	equal
EG10915	rpsP	82	b2609	REV	2743959	2744207	pORF_-_2743959	inside	npORF_-_2743959	2743959	2744207	equal
EG12675	ygaU	149	b2665	REV	2794359	2794808	pORF_-_2794359	inside	npORF_-_2794359	2794359	2794808	equal
EG11554	stpA	134	b2669	REV	2796113	2796517	pORF_-_2796113	equal	npORF_-_2796113	2796113	2796517	equal
EG12712	luxS	171	b2687	REV	2812240	2812755	pORF_-_2812240	equal	npORF_-_2812240	2812240	2812755	equal
EG10418	gshA	518	b2688	REV	2812905	2814461	pORF_-_2812905	equal	npORF_-_2812905	2812905	2814371	inside
EG10034	alaS	876	b2697	REV	2817403	2820033	pORF_-_2817403	equal	npORF_-_2817403	2817403	2820033	equal
EG10823	recA	353	b2699	REV	2820730	2821791	pORF_-_2820730	inside	npORF_-_2820730	2820730	2821791	equal
EG13396	hycI	156	b2717	REV	2840595	2841065	pORF_-_2840595	equal	npORF_-_2840595	2840595	2841029	inside
EG10478	hycE	569	b2721	REV	2842784	2844493						
EG10689	pcm	208	b2743	REV	2866915	2867541	pORF_-_2866915	equal	npORF_-_2866915	2866915	2867541	equal
EG13109	truD	349	b2745	REV	2868277	2869326	pORF_-_2868277	equal	npORF_-_2868277	2868277	2869326	equal
EG13110	ispD	236	b2747	REV	2869802	2870512	pORF_-_2869802	equal	npORF_-_2869802	2869802	2870512	equal
EG10185	cysC	201	b2750	REV	2871409	2872014	pORF_-_2871409	equal	npORF_-_2871409	2871409	2872014	equal
EG10194	cysN	475	b2751	REV	2872014	2873441	pORF_-_2872014	equal	npORF_-_2872014	2872014	2873441	equal
EG10186	cysD	302	b2752	REV	2873443	2874351	pORF_-_2873443	equal	npORF_-_2873443	2873443	2874351	equal
EG10189	cysH	244	b2762	REV	2885600	2886334	pORF_-_2885600	inside	npORF_-_2885600	2885600	2886334	equal
EG10190	cysI	570	b2763	REV	2886409	2888121	pORF_-_2886409	equal	npORF_-_2886409	2886409	2888121	equal
EG10191	cysJ	599	b2764	REV	2888121	2889920	pORF_-_2888121	equal	npORF_-_2888121	2888121	2889920	equal
EG10258	eno	432	b2779	REV	2904665	2905963	pORF_-_2904665	equal	npORF_-_2904665	2904665	2905963	equal
EG10810	pyrG	545	b2780	REV	2906051	2907688	pORF_-_2906051	equal	npORF_-_2906051	2906051	2907688	equal
EG13167	gudD	446	b2787	REV	2916067	2917407	pORF_-_2916067	inside	npORF_-_2916067	2916067	2917287	inside
EG12959	syd	181	b2793	REV	2922757	2923302	pORF_-_2922757	equal	npORF_-_2922757	2922757	2923005	inside
EG10826	recD	608	b2819	REV	2948657	2950483	pORF_-_2948657	equal	npORF_-_2948657	2948657	2949559	inside

EG10824	recB	1180	b2820	REV	2950483	2954025	pORF_-_2950483	inside	npORF_-_2950483	2950483	2953182	inside
EG10825	recC	1122	b2822	REV	2957082	2960450	pORF_-_2957082	equal	npORF_-_2957082	2957082	2960147	inside
EG11002	thyA	264	b2827	REV	2962383	2963177	pORF_-_2962383	equal	npORF_-_2962383	2962383	2963177	equal
EG13096	kduI	278	b2843	REV	2981310	2982146						
EG10552	lysS	505	b2890	REV	3031679	3033196	pORF_-_3031679	equal	npORF_-_3031679	3031679	3033196	equal
EG10762	prfB	365	b2891	REV	3033206	3034304						
EG11070	dsbC	236	b2893	REV	3036134	3036844	pORF_-_3036134	equal	npORF_-_3036134	3036134	3036817	inside
EG11071	xerD	298	b2894	REV	3036869	3037765	pORF_-_3036869	equal	npORF_-_3036869	3036869	3037441	inside
EG11810	gcvP	957	b2903	REV	3044190	3047063	pORF_-_3044190	equal	npORF_-_3044190	3044190	3047063	equal
EG10371	gcvH	129	b2904	REV	3047182	3047571	pORF_-_3047182	inside	npORF_-_3047182	3047182	3047571	equal
EG11442	gcvT	364	b2905	REV	3047595	3048689	pORF_-_3047595	equal	npORF_-_3047595	3047595	3048689	equal
EG10697	pepP	441	b2908	REV	3051537	3052862	pORF_-_3051537	inside	npORF_-_3051537	3051537	3052862	equal
EG10944	serA	410	b2913	REV	3055200	3056432	pORF_-_3055200	equal	npORF_-_3055200	3055200	3056432	equal
EG11443	rpiA	219	b2914	REV	3056688	3057347	pORF_-_3056688	inside	npORF_-_3056688	3056688	3057347	equal
EG10703	pgk	387	b2926	REV	3069481	3070644	pORF_-_3069481	inside	npORF_-_3069481	3069481	3070644	equal
EG10368	epd	339	b2927	REV	3070694	3071713	pORF_-_3070694	inside	npORF_-_3070694	3070694	3071713	equal
EG11427	tktA	663	b2935	REV	3077666	3079657	pORF_-_3077666	inside	npORF_-_3077666	3077666	3079657	equal
EG10046	ansB	348	b2957	REV	3097704	3098750	pORF_-_3097704	equal	npORF_-_3097704	3097704	3097883	inside
EG20080	glcB	723	b2976	REV	3119656	3121827	pORF_-_3119656	equal	npORF_-_3119656	3119656	3121827	equal
EG11801	hybC	567	b2994	REV	3139308	3141011	pORF_-_3139308	equal	npORF_-_3139308	3139308	3139859	inside
EG13006	hybO	372	b2997	REV	3143165	3144283						
EG11376	ftsP	470	b3017	REV	3159279	3160691	pORF_-_3159279	equal	npORF_-_3159279	3159279	3160334	inside
EG11377	plsC	245	b3018	REV	3160766	3161503	pORF_-_3160766	equal	npORF_-_3160766	3160766	3161161	inside
EG13025	ygiW	130	b3024	REV	3167306	3167698	pORF_-_3167306	inside	npORF_-_3167306	3167306	3167644	inside
EG12187	cpdA	275	b3032	REV	3174028	3174855	pORF_-_3174028	equal	npORF_-_3174028	3174028	3174855	equal
EG12184	nudF	209	b3034	REV	3175303	3175932	pORF_-_3175303	equal	npORF_-_3175303	3175303	3175932	equal
EG10465	ribB	217	b3041	REV	3181835	3182488	pORF_-_3181835	equal	npORF_-_3181835	3181835	3182488	equal
EG11673	folB	122	b3058	REV	3202243	3202611						
EG10990	tdcB	329	b3117	REV	3263061	3264050	pORF_-_3263061	equal	npORF_-_3263061	3263061	3263276	inside
EG10016	garL	256	b3126	REV	3270809	3271579						
EG10215	deaD	629	b3162	REV	3303993	3305882	pORF_-_3303993	inside	npORF_-_3303993	3303993	3305882	equal
EG10743	pnp	711	b3164	REV	3307055	3309190	pORF_-_3307055	inside	npORF_-_3307055	3307055	3309190	equal
EG10914	rpsO	89	b3165	REV	3309437	3309706	pORF_-_3309437	equal	npORF_-_3309437	3309437	3309871	inside
EG11177	truB	314	b3166	REV	3309855	3310799	pORF_-_3309855	equal	npORF_-_3309855	3309855	3310706	inside
EG11178	rbfA	133	b3167	REV	3310799	3311200	pORF_-_3310799	inside	npORF_-_3310799	3310799	3311200	equal
EG10505	infB	890	b3168	REV	3311364	3314036	pORF_-_3311364	equal	npORF_-_3311364	3311364	3314036	equal
EG10665	nusA	495	b3169	REV	3314061	3315548	pORF_-_3314061	equal	npORF_-_3314061	3314061	3315548	equal
EG11553	glmM	445	b3176	REV	3320755	3322092	pORF_-_3320755	equal	npORF_-_3320755	3320755	3322092	equal
EG50011	folP	282	b3177	REV	3322085	3322933	pORF_-_3322085	inside	npORF_-_3322085	3322085	3322933	equal
EG10415	greA	158	b3181	REV	3326261	3326737	pORF_-_3326261	equal	npORF_-_3326261	3326261	3326737	equal
EG50002	rpmA	85	b3185	REV	3330884	3331141	pORF_-_3330884	equal	npORF_-_3330884	3330884	3331141	equal
EG50001	rplU	103	b3186	REV	3331162	3331473	pORF_-_3331162	inside	npORF_-_3331162	3331162	3331473	equal
EG11358	murA	419	b3189	REV	3333257	3334516	pORF_-_3333257	equal	npORF_-_3333257	3333257	3334516	equal
EG11383	elbB	217	b3209	REV	3347828	3348481	pORF_-_3347828	inside	npORF_-_3347828	3347828	3348406	inside
EG10637	nanA	297	b3225	REV	3370705	3371598	pORF_-_3370705	equal	npORF_-_3370705	3370705	3371598	equal
EG10978	sspB	165	b3228	REV	3374301	3374798	pORF_-_3374301	equal	npORF_-_3374301	3374301	3374798	equal

EG10977	sspA	212	b3229	REV	3374804	3375442	pORF_-_3374804	equal	npORF_-_3374804	3374804	3375442	equal
EG10908	rpsI	130	b3230	REV	3375837	3376229	pORF_-_3375837	equal	npORF_-_3375837	3375837	3376229	equal
EG10874	rplM	142	b3231	REV	3376245	3376673	pORF_-_3376245	inside	npORF_-_3376245	3376245	3376673	equal
EG10576	mdh	312	b3236	REV	3381352	3382290	pORF_-_3381352	inside	npORF_-_3381352	3381352	3382290	equal
EG11299	rng	489	b3247	REV	3394348	3395817	pORF_-_3394348	inside	npORF_-_3394348	3394348	3395817	equal
EG10608	mreB	347	b3251	REV	3398066	3399109	pORF_-_3398066	inside	npORF_-_3398066	3398066	3399106	inside
EG10077	aroE	272	b3281	REV	3428042	3428860	pORF_-_3428042	inside	npORF_-_3428042	3428042	3428860	equal
EG10878	rplQ	127	b3294	REV	3437638	3438021	pORF_-_3437638	equal	npORF_-_3437638	3437638	3438021	equal
EG10893	rpoA	329	b3295	REV	3438062	3439051	pORF_-_3438062	equal	npORF_-_3438062	3438062	3439051	equal
EG10903	rpsD	206	b3296	REV	3439077	3439697	pORF_-_3439077	equal	npORF_-_3439077	3439077	3439697	equal
EG10910	rpsK	129	b3297	REV	3439731	3440120	pORF_-_3439731	equal	npORF_-_3439731	3439731	3440120	equal
EG10912	rpsM	118	b3298	REV	3440137	3440493	pORF_-_3440137	equal	npORF_-_3440137	3440137	3440493	equal
EG11232	rpmJ	38	b3299	REV	3440640	3440756	pORF_-_3440640	equal	npORF_-_3440640	3440640	3440684	inside
EG10876	rplO	144	b3301	REV	3442127	3442561	pORF_-_3442127	equal	npORF_-_3442127	3442127	3442561	equal
EG10888	rpmD	59	b3302	REV	3442565	3442744	pORF_-_3442565	equal	npORF_-_3442565	3442565	3442744	equal
EG10904	rpsE	167	b3303	REV	3442748	3443251	pORF_-_3442748	equal	npORF_-_3442748	3442748	3443251	equal
EG10879	rplR	117	b3304	REV	3443266	3443619	pORF_-_3443266	equal	npORF_-_3443266	3443266	3443619	equal
EG10869	rplF	177	b3305	REV	3443629	3444162	pORF_-_3443629	equal	npORF_-_3443629	3443629	3444162	equal
EG10907	rpsH	130	b3306	REV	3444175	3444567	pORF_-_3444175	equal	npORF_-_3444175	3444175	3444567	equal
EG10913	rpsN	101	b3307	REV	3444601	3444906	pORF_-_3444601	equal	npORF_-_3444601	3444601	3444906	equal
EG10868	rplE	179	b3308	REV	3444921	3445460	pORF_-_3444921	equal	npORF_-_3444921	3444921	3445460	equal
EG10884	rplX	104	b3309	REV	3445475	3445789	pORF_-_3445475	equal	npORF_-_3445475	3445475	3445789	equal
EG10875	rplN	123	b3310	REV	3445800	3446171	pORF_-_3445800	equal	npORF_-_3445800	3445800	3446171	equal
EG10916	rpsQ	84	b3311	REV	3446336	3446590	pORF_-_3446336	equal	npORF_-_3446336	3446336	3446590	equal
EG10887	rpmC	63	b3312	REV	3446590	3446781	pORF_-_3446590	equal	npORF_-_3446590	3446590	3446781	equal
EG10877	rplP	136	b3313	REV	3446781	3447191	pORF_-_3446781	equal	npORF_-_3446781	3446781	3447158	inside
EG10902	rpsC	233	b3314	REV	3447204	3447905	pORF_-_3447204	equal	npORF_-_3447204	3447204	3447905	equal
EG10882	rplV	110	b3315	REV	3447923	3448255	pORF_-_3447923	equal	npORF_-_3447923	3447923	3448255	equal
EG10918	rpsS	92	b3316	REV	3448270	3448548	pORF_-_3448270	equal	npORF_-_3448270	3448270	3448548	equal
EG10865	rplB	273	b3317	REV	3448565	3449386	pORF_-_3448565	equal	npORF_-_3448565	3448565	3449722	inside
EG10883	rplW	100	b3318	REV	3449404	3449706	pORF_-_3449404	equal	npORF_-_3449404	3449404	3449706	equal
EG10867	rplD	201	b3319	REV	3449703	3450308	pORF_-_3449703	equal	npORF_-_3449703	3449703	3450308	equal
EG10866	rplC	209	b3320	REV	3450319	3450948	pORF_-_3450319	equal	npORF_-_3450319	3450319	3450948	equal
EG10909	rpsJ	103	b3321	REV	3450981	3451292	pORF_-_3450981	equal	npORF_-_3450981	3450981	3451292	equal
EG10113	bfr	158	b3336	REV	3464271	3464747	pORF_-_3464271	equal	npORF_-_3464271	3464271	3464747	equal
EG11036	tufA	394	b3339	REV	3468167	3469351	pORF_-_3468167	inside	npORF_-_3468167	3468167	3469351	equal
EG10360	fusA	704	b3340	REV	3469422	3471536	pORF_-_3469422	equal	npORF_-_3469422	3469422	3471536	equal
EG10906	rpsG	179	b3341	REV	3471564	3472103	pORF_-_3471564	equal	npORF_-_3471564	3471564	3472103	equal
EG10911	rpsL	124	b3342	REV	3472200	3472574	pORF_-_3472200	inside	npORF_-_3472200	3472200	3472574	equal
EG12900	fkpA	270	b3347	REV	3474629	3475441	pORF_-_3474629	equal	npORF_-_3474629	3474629	3475402	inside
EG11663	slyD	196	b3349	REV	3475929	3476519	pORF_-_3475929	equal	npORF_-_3475929	3475929	3476519	equal
EG10066	argD	406	b3359	REV	3486982	3488202	pORF_-_3486982	equal	npORF_-_3486982	3486982	3488202	equal
EG10757	ppiA	190	b3363	REV	3489747	3490319	pORF_-_3489747	equal	npORF_-_3489747	3489747	3490253	inside
EG12917	php	292	b3379	REV	3505734	3506612						
EG11030	trpS	334	b3384	REV	3510656	3511660	pORF_-_3510656	equal	npORF_-_3510656	3510656	3511660	equal
EG10081	aroK	173	b3390	REV	3516565	3517086	pORF_-_3516565	inside	npORF_-_3516565	3516565	3517086	equal

EG10560	malP	797	b3417	REV	3548102	3550495	pORF_-_3548102	equal	npORF_-_3548102	3548102	3550495	equal
EG10400	glpR	252	b3423	REV	3557870	3558628	pORF_-_3557870	equal	npORF_-_3557870	3557870	3558628	equal
EG10397	glpG	276	b3424	REV	3558645	3559475	pORF_-_3558645	equal	npORF_-_3558645	3558645	3559475	equal
EG10377	glgA	477	b3429	REV	3564623	3566056	pORF_-_3564623	equal	npORF_-_3564623	3564623	3566056	equal
EG10379	glgC	431	b3430	REV	3566056	3567351	pORF_-_3566056	inside	npORF_-_3566056	3566056	3567351	equal
EG10088	asd	367	b3433	REV	3571798	3572901	pORF_-_3571798	inside	npORF_-_3571798	3571798	3572901	equal
EG12629	gntK	175	b3437	REV	3575088	3575615	pORF_-_3575088	inside	npORF_-_3575088	3575088	3575576	inside
EG10374	ggt	580	b3447	REV	3583104	3584846	pORF_-_3583104	inside	npORF_-_3583104	3583104	3584819	inside
EG11047	ugpB	438	b3453	REV	3589032	3590348	pORF_-_3589032	equal	npORF_-_3589032	3589032	3590279	inside
EG10540	livK	369	b3458	REV	3594474	3595583	pORF_-_3594474	inside	npORF_-_3594474	3594474	3595550	inside
EG10539	livJ	367	b3460	REV	3596578	3597681	pORF_-_3596578	inside	npORF_-_3596578	3596578	3597696	inside
EG10346	ftsY	497	b3464	REV	3600773	3602266	pORF_-_3600773	equal	npORF_-_3600773	3600773	3602266	equal
EG11441	prlC	680	b3498	REV	3641163	3643205	pORF_-_3641163	inside	npORF_-_3641163	3641163	3643205	equal
EG11399	hdeB	108	b3509	REV	3653989	3654315	pORF_-_3653989	inside	npORF_-_3653989	3653989	3654234	inside
EG11398	hdeA	110	b3510	REV	3654431	3654763	pORF_-_3654431	equal	npORF_-_3654431	3654431	3654712	inside
EG50009	gadA	466	b3517	REV	3664203	3665603	pORF_-_3664203	inside	npORF_-_3664203	3664203	3665603	equal
EG12254	yhjJ	498	b3527	REV	3678467	3679963	pORF_-_3678467	equal	npORF_-_3678467	3678467	3679828	inside
EG10248	dppA	535	b3544	REV	3704121	3705728	pORF_-_3704121	equal	npORF_-_3704121	3704121	3705671	inside
EG10410	glyS	689	b3559	REV	3720351	3722420	pORF_-_3720351	equal	npORF_-_3720351	3720351	3722420	equal
EG12292	aldB	512	b3588	REV	3752996	3754534	pORF_-_3752996	inside	npORF_-_3752996	3752996	3754534	equal
EG10942	selB	614	b3590	REV	3756040	3757884	pORF_-_3756040	equal	npORF_-_3756040	3756040	3757884	equal
EG10937	secB	155	b3609	REV	3781684	3782151	pORF_-_3781684	equal	npORF_-_3781684	3781684	3782151	equal
EG12294	grxC	83	b3610	REV	3782214	3782465	pORF_-_3782214	equal	npORF_-_3782214	3782214	3782465	equal
EG10993	tdh	341	b3616	REV	3788343	3789368	pORF_-_3788343	equal	npORF_-_3788343	3788343	3789368	equal
EG10512	kbl	398	b3617	REV	3789378	3790574	pORF_-_3789378	equal	npORF_-_3789378	3789378	3790574	equal
EG10329	mutM	269	b3635	REV	3808366	3809175	pORF_-_3808366	equal	npORF_-_3808366	3808366	3809175	equal
EG10891	rpmG	55	b3636	REV	3809273	3809440	pORF_-_3809273	equal	npORF_-_3809273	3809273	3809440	equal
EG10886	rpmB	78	b3637	REV	3809461	3809697	pORF_-_3809461	equal	npORF_-_3809461	3809461	3809697	equal
EG10808	pyrE	213	b3642	REV	3813150	3813791	pORF_-_3813150	inside	npORF_-_3813150	3813150	3813791	equal
EG10863	rph	238	b3643	REV	3813886	3814572	pORF_-_3813886	inside	npORF_-_3813886	3813886	3814572	equal
EG11051	uhpA	196	b3669	REV	3848159	3848749	pORF_-_3848159	equal	npORF_-_3848159	3848159	3848839	inside
EG11535	ibpB	142	b3686	REV	3864492	3864920	pORF_-_3864492	inside	npORF_-_3864492	3864492	3864920	equal
EG11534	ibpA	137	b3687	REV	3865032	3865445	pORF_-_3865032	inside	npORF_-_3865032	3865032	3865445	equal
EG20050	dgoD	382	b4478	REV	3869873	3871021	pORF_-_3869873	equal	npORF_-_3869873	3869873	3870823	inside
EG10424	gyrB	804	b3699	REV	3875728	3878142	pORF_-_3875728	inside	npORF_-_3875728	3875728	3878142	equal
EG10828	recF	357	b3700	REV	3878171	3879244	pORF_-_3878171	equal	npORF_-_3878171	3878171	3879082	inside
EG10242	dnaN	366	b3701	REV	3879244	3880344	pORF_-_3879244	equal	npORF_-_3879244	3879244	3880344	equal
EG10735	phoU	241	b3724	REV	3904876	3905601	pORF_-_3904876	inside	npORF_-_3904876	3904876	3905601	equal
EG10734	pstS	346	b3728	REV	3908508	3909548	pORF_-_3908508	equal	npORF_-_3908508	3908508	3909482	inside
EG10382	glmS	609	b3729	REV	3909862	3911691	pORF_-_3909862	equal	npORF_-_3909862	3909862	3911691	equal
EG10100	atpC	139	b3731	REV	3913576	3913995	pORF_-_3913576	equal	npORF_-_3913576	3913576	3913995	equal
EG10101	atpD	460	b3732	REV	3914016	3915398	pORF_-_3914016	equal	npORF_-_3914016	3914016	3915398	equal
EG10104	atpG	287	b3733	REV	3915425	3916288	pORF_-_3915425	equal	npORF_-_3915425	3915425	3916327	inside
EG10098	atpA	513	b3734	REV	3916339	3917880	pORF_-_3916339	equal	npORF_-_3916339	3916339	3917880	equal
EG10105	atpH	177	b3735	REV	3917893	3918426	pORF_-_3917893	equal	npORF_-_3917893	3917893	3918426	equal
EG10103	atpF	156	b3736	REV	3918441	3918911	pORF_-_3918441	equal	npORF_-_3918441	3918441	3918824	inside

EG10102	atpE	79	b3737	REV	3918973	3919212	pORF_-_3918973	equal	npORF_-_3918973	3918973	3919164	inside
EG10106	atpI	126	b3739	REV	3920083	3920463						
EG11199	miuC	147	b3742	REV	3924035	3924478	pORF_-_3924035	equal	npORF_-_3924035	3924035	3924478	equal
EG12352	ppiC	93	b3775	REV	3957555	3957836	pORF_-_3957555	equal	npORF_-_3957555	3957555	3957836	equal
EG10844	rhIB	421	b3780	REV	3962388	3963653	pORF_-_3962388	equal	npORF_-_3962388	3962388	3963653	equal
EG10433	hemX	393	b3803	REV	3985908	3987089	pORF_-_3985908	equal	npORF_-_3985908	3985908	3987062	inside
EG10429	hemC	313	b3805	REV	3987848	3988789	pORF_-_3987848	inside	npORF_-_3987848	3987848	3988711	inside
EG10591	metR	317	b3828	REV	4009886	4010839	pORF_-_4009886	equal	npORF_-_4009886	4009886	4010803	inside
EG10278	fadA	387	b3845	REV	4025632	4026795	pORF_-_4025632	equal	npORF_-_4025632	4025632	4026795	equal
EG10279	fadB	729	b3846	REV	4026805	4028994	pORF_-_4026805	inside	npORF_-_4026805	4026805	4028994	equal
EG11828	mobB	175	b3856	REV	4038929	4039456						
EG11829	mobA	194	b3857	REV	4039438	4040022	pORF_-_4039438	equal	npORF_-_4039438	4039438	4039872	inside
EG10387	glnL	349	b3869	REV	4053313	4054362	pORF_-_4053313	equal	npORF_-_4053313	4053313	4054032	inside
EG10383	glnA	469	b3870	REV	4054648	4056057	pORF_-_4054648	equal	npORF_-_4054648	4054648	4056057	equal
EG13374	ompL	230	b3875	REV	4061626	4062318						
EG11015	tpiA	255	b3919	REV	4108763	4109530	pORF_-_4108763	equal	npORF_-_4108763	4108763	4109530	equal
EG11518	fpr	248	b3924	REV	4111749	4112495	pORF_-_4111749	equal	npORF_-_4111749	4111749	4112462	inside
EG10398	glpK	502	b3926	REV	4113737	4115245	pORF_-_4113737	inside	npORF_-_4113737	4113737	4115266	inside
EG11676	hslV	176	b3932	REV	4119780	4120310	pORF_-_4119780	equal	npORF_-_4119780	4119780	4120310	equal
EG10763	priA	732	b3935	REV	4122635	4124833	pORF_-_4122635	inside	npORF_-_4122635	4122635	4124833	equal
EG10588	metJ	105	b3938	REV	4126101	4126418	pORF_-_4126101	inside	npORF_-_4126101	4126101	4126418	equal
EG11428	sthA	466	b3962	REV	4157413	4158813	pORF_-_4157413	equal	npORF_-_4157413	4157413	4158813	equal
EG11022	trmA	366	b3965	REV	4160193	4161293	pORF_-_4160193	equal	npORF_-_4160193	4160193	4161293	equal
EG11738	rsd	158	b3995	REV	4194355	4194831	pORF_-_4194355	equal	npORF_-_4194355	4194355	4194693	inside
EG11918	zraP	141	b4002	REV	4199286	4199711						
EG10795	purH	529	b4006	REV	4203966	4205555	pORF_-_4203966	equal	npORF_-_4203966	4203966	4205555	equal
EG10491	iclR	274	b4018	REV	4220827	4221651	pORF_-_4220827	inside	npORF_-_4220827	4220827	4221651	equal
EG10550	lysC	449	b4024	REV	4229907	4231256	pORF_-_4229907	equal	npORF_-_4229907	4229907	4231256	equal
EG10554	malE	396	b4034	REV	4243252	4244442	pORF_-_4243252	equal	npORF_-_4243252	4243252	4244388	inside
EG10740	plsB	807	b4041	REV	4252066	4254489	pORF_-_4252066	inside	npORF_-_4252066	4252066	4254489	equal
EG11929	zur	171	b4046	REV	4257511	4258026	pORF_-_4257511	inside	npORF_-_4257511	4257511	4257933	inside
EG11061	uvrA	940	b4058	REV	4269072	4271894	pORF_-_4269072	equal	npORF_-_4269072	4269072	4271894	equal
EG10958	soxS	107	b4062	REV	4275083	4275406						
EG10285	fdhF	715	b4079	REV	4295242	4297389						
EG11501	adiA	755	b4117	REV	4336277	4338544	pORF_-_4336277	inside	npORF_-_4336277	4336277	4337947	inside
EG10553	lysU	505	b4129	REV	4351223	4352740	pORF_-_4351223	inside	npORF_-_4351223	4351223	4352740	equal
EG10131	cadA	715	b4131	REV	4354493	4356640	pORF_-_4354493	inside	npORF_-_4354493	4354493	4355458	inside
EG12178	dsbD	565	b4136	REV	4361368	4363065	pORF_-_4361368	inside	npORF_-_4361368	4361368	4361514	inside
EG10095	aspA	478	b4139	REV	4364914	4366350	pORF_-_4364914	inside	npORF_-_4364914	4364914	4366350	equal
EG10040	ampC	377	b4150	REV	4375834	4376967	pORF_-_4375834	inside	npORF_-_4375834	4375834	4376967	equal
EG10331	frdB	244	b4153	REV	4377806	4378540	pORF_-_4377806	inside	npORF_-_4377806	4377806	4378507	inside
EG10775	psd	322	b4160	REV	4387415	4388383	pORF_-_4387415	equal	npORF_-_4387415	4387415	4388383	equal
EG10160	cpdB	647	b4213	REV	4432645	4434588	pORF_-_4432645	inside	npORF_-_4432645	4432645	4434540	inside
EG12510	ytfJ	184	b4216	REV	4436731	4437285	pORF_-_4436731	equal	npORF_-_4436731	4436731	4436949	inside
EG11433	msrA	212	b4219	REV	4439561	4440199	pORF_-_4439561	inside	npORF_-_4439561	4439561	4440199	equal
EG10755	ppa	176	b4226	REV	4447145	4447675	pORF_-_4447145	equal	npORF_-_4447145	4447145	4447675	equal

EG11417	nrdD	712	b4238	REV	4458545	4460683	pORF_-_4458545	equal	npORF_-_4458545	4458545	4460476	inside
EG12524	yjgF	128	b4243	REV	4468550	4468936	pORF_-_4468550	inside	npORF_-_4468550	4468550	4468936	equal
EG10811	pyrI	153	b4244	REV	4469009	4469470	pORF_-_4469009	equal	npORF_-_4469009	4469009	4469470	equal
EG10805	pyrB	311	b4245	REV	4469483	4470418	pORF_-_4469483	equal	npORF_-_4469483	4469483	4470418	equal
EG10069	argI	334	b4254	REV	4475330	4476334	pORF_-_4475330	equal	npORF_-_4475330	4475330	4476334	equal
EG11067	valS	951	b4258	REV	4479005	4481860	pORF_-_4479005	equal	npORF_-_4479005	4479005	4481860	equal
EG11413	holC	147	b4259	REV	4481860	4482303	pORF_-_4481860	equal	npORF_-_4481860	4481860	4482189	inside
EG10694	pepA	503	b4260	REV	4482463	4483974	pORF_-_4482463	equal	npORF_-_4482463	4482463	4483974	equal
EG10286	fecA	774	b4291	REV	4512376	4514700	pORF_-_4512376	equal	npORF_-_4512376	4512376	4514664	inside
EG12567	iadA	390	b4328	REV	4556377	4557549	pORF_-_4556377	equal	npORF_-_4556377	4556377	4557549	equal
EG10575	mcrC	348	b4345	REV	4574935	4575981	pORF_-_4574935	inside	npORF_-_4574935	4574935	4576092	inside
EG10574	mcrB	459	b4346	REV	4575981	4577360	pORF_-_4575981	inside	npORF_-_4575981	4575981	4576877	inside
EG10237	dnaC	245	b4361	REV	4598261	4598998	pORF_-_4598261	equal	npORF_-_4598261	4598261	4598842	inside
EG10244	dnaT	179	b4362	REV	4599001	4599540	pORF_-_4599001	inside	npORF_-_4599001	4599001	4599450	inside
EG12596	rsmC	343	b4371	REV	4604692	4605723	pORF_-_4604692	equal	npORF_-_4604692	4604692	4605723	equal
EG11796	lplA	338	b4386	REV	4621124	4622140	pORF_-_4621124	equal	npORF_-_4621124	4621124	4621960	inside
EG12343	yjjK	555	b4391	REV	4626878	4628545	pORF_-_4626878	equal	npORF_-_4626878	4626878	4628545	equal
EG11366	rob	289	b4396	REV	4632464	4633333	pORF_-_4632464	equal	npORF_-_4632464	4632464	4633333	equal
EG10061	arcA	238	b4401	REV	4637613	4638329	pORF_-_4637613	equal	npORF_-_4637613	4637613	4638329	equal