

NEBRASKA LIBRARY

NARSA Barcode	Gene name	Gene description	Accession number	Whole genome insertion site	Transposon orientation
0100338044	purB	adenylosuccinate lyase	SAUSA300_1889	2053923	Minus
0100383786	pyrP	uracil permease	SAUSA300_1092	1194618	Minus
0120005773	-	acetyl-CoA acetyltransferase	SAUSA300_0355	406450	Minus
0100383997	lpdA	dihydrolipoamide dehydrogenase	SAUSA300_0996	1092643	Plus
0100383959	-	hypothetical protein	SAUSA300_0980	1074897	Plus
0120005719	mecA	penicillin-binding protein 2'	SAUSA300_0032	40707	Minus
0100335082		putative membrane protein	SAUSA300_0694	770011	Plus
0120005527	-	hypothetical protein	SAUSA300_0442	495091	Minus
0100338038	purA	adenylosuccinate synthetase	SAUSA300_0017	22754	Minus
0120005472	-	hypothetical protein	SAUSA300_1720	1903757	Minus
0100386884		UDP-N-acetylglucosamine 2-epimerase	SAUSA300_2065	2228285	Minus
0100382941		conserved hypothetical protein	SAUSA300_1734	1919127	Minus
100384945	-		SAUSA300_1796	1979943	Plus
100382938			SAUSA300_0121	138435	Plus
100383617	-		SAUSA300_1322	1454222	Minus
120005520	-		SAUSA300_0393	445043	Plus
100384807			SAUSA300_1210	1330817	Plus
100338020			SAUSA300_0564	639056	Minus
100363004			SAUSA300_0039	50579	Plus
100335098	recF		SAUSA300_0004	3977	Minus
100363000			SAUSA300_2343	2519661	Minus
100362994			SAUSA300_1584	1733739	Plus
120005536	-		SAUSA300_1583	1733227	Minus
100384461	-		SAUSA300_0505	564678	Plus
100383832	-		SAUSA300_1229	1346966	Plus
100361701	ilvA		SAUSA300_2014	2174480	Plus
100361692			SAUSA300_2103	2269723	Minus
100362923			SAUSA300_0595	668879	Minus
100385179	sdrD		SAUSA300_0547	614916	Plus
100363014			SAUSA300_0170	192430	Plus
100362916			SAUSA300_0073	80584	Plus
100362893			SAUSA300_1503	1656063	Minus
100362988			SAUSA300_0662	737914	Minus
100384656	-		SAUSA300_0255	307908	Minus
100385185	rrlA		SAUSA300_0456	515424	Plus
100362892			SAUSA300_0482	541554	Plus
100362899			SAUSA300_1932	2101839	Plus
100362269			SAUSA300_0784	871980	Minus
100363028			SAUSA300_1491	1645935	Plus
100362898	epiE		SAUSA300_1761	1946929	Plus
100384944	-		SAUSA300_1722	1904625	Plus
0100385186	saeS	sensor histidine kinase SaeS	SAUSA300_0690	767159	Plus
120005544	-		SAUSA300_0332	384679	Minus
100383965	-		SAUSA300_0136	155411	Plus
100362833			SAUSA300_2173	2354229	Plus
100362249			SAUSA300_0215	254738	Plus
100362250			SAUSA300_0643	717815	Plus
100384770			SAUSA300_1413	1578555	Minus
100362993	hfq		SAUSA300_1196	1318676	Plus
100362901	dprA		SAUSA300_1142	1251740	Plus
100362170			SAUSA300_0294	347242	Minus
100362904			SAUSA300_1071	1170310	Plus
100362924			SAUSA300_0579	652757	Plus
100362918			SAUSA300_0340	393296	Plus
100386882			SAUSA300_1430	1586828	Plus
100362983			SAUSA300_0107	120517	Minus
100384813			SAUSA300_2376	2556060	Minus
0100385166	dat	D-alanine aminotransferase	SAUSA300_1696	1870942	Minus

100384240	opuCb		SAUSA300_2392	2575844	Minus
100362902			SAUSA300_0674	748173	Minus
100383649	leuA		SAUSA300_2010	2169900	Minus
100387031			SAUSA300_0137	156535	sense
100382935			SAUSA300_2287	2460200	Plus
100384660	-		SAUSA300_1042	1138315	Minus
100382950	truB		SAUSA300_1164	1279427	Minus
100362874			SAUSA300_0720	800179	Minus
100384795	epiG		SAUSA300_1760	1946932	Plus
100362925			SAUSA300_0218	258602	Plus
100362915			SAUSA300_2357	2534698	Minus
100384971	uvrC		SAUSA300_1045	1142970	Plus
100362105			SAUSA300_1780	1962367	Minus
100361698			SAUSA300_0503	563101	Minus
100362138			SAUSA300_2431	2616904	Plus
100362989			SAUSA300_1346	1513117	Minus
100382562			SAUSA300_1912	2078124	Minus
100333147			SAUSA300_0168	191105	Plus
100361697			SAUSA300_2515	2718469	Minus
100384633	-		SAUSA300_1383	1549010	Plus
100385150	rimI		SAUSA300_2003	2163143	Minus
100362895			SAUSA300_2626	2852087	Plus
100386863			SAUSA300_2353	2530505	Minus
100385169	-		SAUSA300_0083	92698	Plus
100362917	amt		SAUSA300_1996	2154912	Plus
120005473	-		SAUSA300_1248	1370734	Minus
100362987	ftsK		SAUSA300_1169	1286992	Plus
100385146	-		SAUSA300_1198	1319962	Plus
0100336988		conserved hypothetical protein	SAUSA300_1019	1116732	Plus
100386925			SAUSA300_0728	808833	sense
120005855	-		SAUSA300_1953	2113427	Minus
100331526	int		SAUSA300_0799	882811	Minus
100338037			SAUSA300_2248	2414391	Plus
100386892			SAUSA300_1585	1735287	Minus
100384467	lpl3		SAUSA300_0415	468035	Plus
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100384208	vraS		SAUSA300_1866	2027203	Plus
100336978	cap5B		SAUSA300_0153	174846	Plus
100333146			SAUSA300_1805	1988283	Plus
100384688	-		SAUSA300_0451	508890	Plus
100386905			SAUSA300_0713	791880	antisense
120005517	tpx		SAUSA300_1659	1825087	Minus
100382543	corA		SAUSA300_2293	2466467	Minus
100362259			SAUSA300_1500	1653959	Plus
0100383976	saeR	DNA-binding response regulator SaeR	SAUSA300_0691	767648	Minus
100338011			SAUSA300_2510	2715699	Plus
100386860	cyoE		SAUSA300_1016	1114323	Plus
100362909			SAUSA300_0847	926564	Minus
100362927			SAUSA300_0732	813073	Minus
100362854			SAUSA300_2130	2304628	Plus
100383609	purS		SAUSA300_0969	1061766	Plus
100382594			SAUSA300_0100	110456	Plus
100383618	-		SAUSA300_1387	1551153	Minus
100363015			SAUSA300_0748	835162	Plus
100386876			SAUSA300_0631	705810	Minus
100362836			SAUSA300_2114	2290057	Plus
0100331524		conserved hypothetical protein	SAUSA300_2297	2468968	Minus
100384611	-		SAUSA300_1291	1422317	Minus
100362103	tagX		SAUSA300_0627	699849	Minus
100384213	-		SAUSA300_0176	198081	Plus
100385301	-		SAUSA300_0489	547698	Plus
100337686			SAUSA300_0238	287793	Minus
100382960			SAUSA300_2464	2661236	Minus
100386877			SAUSA300_2627	2853366	Minus
100383810	-		SAUSA300_1404	1571623	Plus
100386887			SAUSA300_1180	1299577	Minus
120005540	lacB		SAUSA300_2154	2331964	Minus
100385196	-		SAUSA300_1304	1435275	Plus

100383774	-		SAUSA300_1254	1379789	Plus
100362950			SAUSA300_1059	1159427	Plus
100337700			SAUSA300_1733	1918716	Minus
100337680			SAUSA300_2406	2592333	Minus
100362863	tcaA		SAUSA300_2302	2475758	Plus
100386904			SAUSA300_0594	667864	antisense
100382559			SAUSA300_0028	36543	Minus
0100383851	-	hypothetical protein	SAUSA300_0383	434439	Minus
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100337682	moaD		SAUSA300_2221	2391108	Plus
100338017	clfA		SAUSA300_0772	859218	Minus
100383847	-		SAUSA300_0241	290780	Minus
100363005	rexA		SAUSA300_0870	952792	Minus
0100331483	atl	autolysin	SAUSA300_0955	1046792	Minus
100362897			SAUSA300_1970	2124014	Minus
100384492	opp-3B		SAUSA300_0074	82421	Plus
100385163	ureD		SAUSA300_2244	2409821	Plus
100331481			SAUSA300_0917	1006997	Minus
100337683			SAUSA300_1705	1888866	Minus
100384561	-		SAUSA300_1695	1869295	Minus
100335066			SAUSA300_2509	2715009	Minus
100337695			SAUSA300_1481	1635537	Plus
100362883			SAUSA300_1623	1778382	Plus
100383573	-		SAUSA300_0613	685371	Minus
0120005767		protein phosphatase 2C domain-containing protein	SAUSA300_1112	1217975	Plus
120005504	-		SAUSA300_1692	1866582	Plus
100382565			SAUSA300_0797	880411	Minus
100383835	-		SAUSA300_0258	310545	Plus
100362104			SAUSA300_2466	2662535	Plus
100333167			SAUSA300_1668	1833093	Plus
100383812	-		SAUSA300_1298	1427036	Minus
100337685			SAUSA300_0369	420844	Plus
100382926			SAUSA300_1432	1587242	Minus
100383790	-		SAUSA300_1275	1403716	Plus
100335076	polA		SAUSA300_1636	1793252	Plus
100331518	moaE		SAUSA300_2222	2391531	Plus
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100337687	upp		SAUSA300_2066	2229311	Minus
100384123			SAUSA300_0146	165112	Plus
100362881			SAUSA300_0876	960861	Plus
100363019			SAUSA300_1858	2019930	Plus
100337684			SAUSA300_1851	2014386	Minus
100333129			SAUSA300_1939	2106324	Plus
100337678			SAUSA300_1905	2072214	Plus
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100384649	-		SAUSA300_1613	1767176	Minus
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100338006			SAUSA300_2494	2697175	Plus
100386913			SAUSA300_1305	1436724	antisense
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0100331509		phosphosugar-binding transcriptional regulator	SAUSA300_2271	2441946	Plus
100382931			SAUSA300_0352	402739	Plus
100338026			SAUSA300_2408	2593737	Plus
100362834			SAUSA300_2644	2868359	Minus
120005545	-		SAUSA300_0940	1029093	Minus
100384774			SAUSA300_2595	2822639	Plus
100384957	-		SAUSA300_0373	424520	Plus
0100384126	-	hypothetical protein	SAUSA300_0856	934485	Minus
120005518	aroB		SAUSA300_1356	1522958	Plus
100383635	-		SAUSA300_1223	1340839	Minus
100384199	-		SAUSA300_2106	2274394	Minus
100333169			SAUSA300_0883	970195	Plus
100337620			SAUSA300_1980	2137395	Minus
120005491	recG		SAUSA300_1120	1226020	Plus
0100338041		peptidase, M20/M25/M40 family	SAUSA300_1460	1615429	Minus
100385181			SAUSA300_1955	2114321	Minus
100362880	ggt		SAUSA300_0204	241402	Plus

100384546			SAUSA300_1797	1980454	Minus
100383593	-		SAUSA300_0831	911509	Minus
100384793			SAUSA300_0040	51116	Plus
100386914			SAUSA300_1531	1681309	Minus
100383802	-		SAUSA300_0318	370013	Minus
100384719	-		SAUSA300_0584	657943	Minus
100384711	-		SAUSA300_0903	992518	Minus
100384056	empbp		SAUSA300_0774	864554	Minus
100331514	pdp		SAUSA300_2089	2253713	Minus
100383606	-		SAUSA300_2145	2322225	Plus
100331531			SAUSA300_1374	1541974	Minus
100384979	-		SAUSA300_2489	2692010	Minus
100386935			SAUSA300_0825	905740	sense
100384681	cidB		SAUSA300_2478	2677065	Minus
100383587	scpB		SAUSA300_1444	1598952	Minus
100386866			SAUSA300_1487	1642223	Plus
100337693			SAUSA300_2129	2303610	Minus
100362859			SAUSA300_2452	2648917	Plus
100384071	nhaC		SAUSA300_2250	2417285	Plus
100384760	msrB		SAUSA300_1316	1449151	Plus
100382581			SAUSA300_1978	2134672	Plus
100384510	arsB		SAUSA300_1718	1901532	Minus
100362908	cap5l		SAUSA300_0160	182198	Plus
120005530	-		SAUSA300_1238	1356227	Plus
100384595	arIR		SAUSA300_1308	1441782	Minus
100386921			SAUSA300_0626	700252	antisense
100384221	-		SAUSA300_1206	1328442	Minus
0100384224	-	FAD/NAD(P)-binding Rossmann fold superfamily protein	SAUSA300_0394	445890	Minus
100383840	-		SAUSA300_0702	776005	Plus
100363016			SAUSA300_1701	1876528	Plus
100386894			SAUSA300_1853	2016202	Minus
100383666	-		SAUSA300_0673	747079	Plus
100338053	sarT		SAUSA300_2437	2626802	Minus
100333132			SAUSA300_0779	868464	Minus
100386903	mgo		SAUSA300_2541	2744942	Plus
100384497	rnc		SAUSA300_1126	1232122	Plus
0100386869	ltrA	low temperature requirement protein LtrA	SAUSA300_0354	404970	Minus
100386883			SAUSA300_0407	460921	Plus
100386855			SAUSA300_2475	2671718	Minus
0100384092	-	ABC transporter ATP- binding protein	SAUSA300_2288	2460691	Minus
100384952	-		SAUSA300_0430	483897	Minus
100384464	-		SAUSA300_0070	77459	Plus
0100385164	-	beta-lactamase	SAUSA300_2386	2568073	Plus
100386930	fmtC		SAUSA300_1255	1382617	Plus
100362832			SAUSA300_0230	277410	Plus
100382595			SAUSA300_1006	1102266	Minus
100335065			SAUSA300_0794	878487	Minus
100331513	kdpD		SAUSA300_2035	2198332	Plus
100338022			SAUSA300_2139	2314859	Minus
100337617	agrB		SAUSA300_1989	2147091	Minus
100336976			SAUSA300_1415	1579019	Plus
100331489			SAUSA300_1806	1989459	Plus
0100384538	purL	phosphoribosylformylglyci namidine synthase II	SAUSA300_0971	1063638	Minus
100384259	-		SAUSA300_0361	415096	Plus
100383833	-		SAUSA300_2369	2546766	Minus
0100382939		phiSLT ORF 104b-like protein	SAUSA300_1406	1572476	Minus
100384637	ureB		SAUSA300_2239	2406062	Minus
100384669	-		SAUSA300_0413	466284	Minus
100384534			SAUSA300_1843	2004587	Plus
100331502	frp		SAUSA300_2462	2659048	Plus
100362907	glpD		SAUSA300_1193	1314964	Plus
0100338001		oxidoreductase, aldo/keto reductase family	SAUSA300_1450	1602592	Minus
100384666	-		SAUSA300_2492	2695689	Minus

100384690	-		SAUSA300_1437	1590556	Minus
100362145			SAUSA300_0556	629623	Plus
0100338032	spsA	signal peptidase IA	SAUSA300_0867	947399	Plus
100384047	-		SAUSA300_0692	768204	Plus
100331482			SAUSA300_0134	152803	Minus
100383592	-		SAUSA300_2264	2433751	Plus
100385193	-		SAUSA300_1890	2055267	Minus
100331484	fmhA		SAUSA300_2356	2532409	Minus
100383608	opuD		SAUSA300_1245	1364732	Plus
100362091			SAUSA300_1247	1370026	Plus
100331464			SAUSA300_0346	398196	Plus
100384201	-		SAUSA300_0033	41313	Plus
100331557	rot		SAUSA300_1708	1891199	Plus
100333168			SAUSA300_0110	124250	Plus
100384996	-		SAUSA300_0321	375401	Minus
100386896	hlgA		SAUSA300_2365	2542477	Plus
100388003	cidC		SAUSA300_2477	2676008	Minus
100337677	coa		SAUSA300_0224	267000	Plus
0100384219	-	hypothetical protein	SAUSA300_1214	1333353	Minus
100384693	tig		SAUSA300_1622	1777106	Minus
100331491			SAUSA300_1389	1554009	Minus
100385000	arlS		SAUSA300_1307	1441507	Minus
0120005532	-	hypothetical protein	SAUSA300_0545	610384	Plus
100362245			SAUSA300_0113	129639	Plus
100384808	phnE		SAUSA300_0143	162820	Minus
100331490			SAUSA300_1324	1455108	Minus
100331500			SAUSA300_2621	2848650	Plus
100331485	xseA		SAUSA300_1472	1627924	Minus
100386862	oppC		SAUSA300_0888	975597	Plus
100386931			SAUSA300_1224	1341408	Minus
0100386856		conserved hypothetical protein	SAUSA300_0356	407746	Minus
100384080	oppD		SAUSA300_0889	976851	Minus
100385199	-		SAUSA300_1973	2127953	Minus
100384654	-		SAUSA300_1524	1675697	Minus
100333148			SAUSA300_0275	328083	Minus
100384941	-		SAUSA300_1398	1566169	Plus
120005493	smc		SAUSA300_1127	1233434	Plus
1063922971	-	superantigen-like protein 5	SAUSA300_0399	451632	Plus
0100386872	epiD	lantibiotic epidermin biosynthesis protein EpiD	SAUSA300_1764	1949539	Minus
100385141			SAUSA300_2410	2595660	Minus
100331477			SAUSA300_0809	887874	Minus
0100338029	thil	thiamine biosynthesis protein Thil	SAUSA300_1661	1826955	Plus
100331506			SAUSA300_0291	345598	Plus
100382567	scrR		SAUSA300_1995	2153414	Plus
100362144	fruA		SAUSA300_0685	759505	Plus
100333138	rho		SAUSA300_2075	2237096	Minus
100384076	-		SAUSA300_1349	1516693	Minus
100386857			SAUSA300_0580	654306	Minus
100386897			SAUSA300_1084	1185159	Plus
100384989	-		SAUSA300_1399	1566494	Minus
100336959			SAUSA300_1412	1578198	Minus
100331538			SAUSA300_2136	2310400	Minus
100331532			SAUSA300_2578	2794698	Minus
100384066	-		SAUSA300_2233	2400071	Minus
100383601	-		SAUSA300_2251	2418757	Plus
100384016	-		SAUSA300_1577	1727948	Plus
1063923050	-		SAUSA300_1032	1128044	Plus
120005524	-		SAUSA300_1590	1741466	Minus
100383610	-		SAUSA300_0941	1029865	Plus
100383663	rocD		SAUSA300_0187	216791	Minus
100362919			SAUSA300_0192	223981	Minus
100384165	lepA		SAUSA300_1544	1696478	Plus
100333116			SAUSA300_1927	2091466	Plus
100331495	sbi		SAUSA300_2364	2540330	Plus
100362128			SAUSA300_0968	1061053	Minus
100383647	purM		SAUSA300_0973	1066376	Minus
100384659	-		SAUSA300_0349	401313	Plus

1063923032	-		SAUSA300_0519	580566	Plus
100384049	-		SAUSA300_2236	2403589	Minus
100336982			SAUSA300_1326	1456445	Minus
100386919	cobl		SAUSA300_2323	2497159	Minus
100331466	fmtB		SAUSA300_2109	2281766	Plus
100331493			SAUSA300_2316	2491051	Plus
100383985	-		SAUSA300_1204	1327550	Minus
100384652	-		SAUSA300_2327	2503604	Plus
100383624	-		SAUSA300_0266	318464	Plus
100331488	prfC		SAUSA300_0921	1010440	Plus
100384127	-		SAUSA300_1691	1866469	Minus
100385302	-		SAUSA300_1488	1643211	Minus
100331544	fhuA		SAUSA300_0633	708209	Plus
100331496	arcR		SAUSA300_2566	2778015	Minus
100384702	-		SAUSA300_1892	2057613	Plus
100362882			SAUSA300_0535	599576	Plus
100382923	nth		SAUSA300_1343	1508570	Minus
100382958			SAUSA300_1699	1874343	Plus
100331469			SAUSA300_1060	1160127	Plus
100331478			SAUSA300_2377	2556526	Plus
100331543			SAUSA300_0335	387689	Plus
100331503	oppA		SAUSA300_0891	978738	Plus
120005557	pyk		SAUSA300_1644	1805673	Minus
100331467			SAUSA300_0013	17638	Plus
100362150			SAUSA300_0324	377166	Plus
100383842	sdaAB		SAUSA300_2470	2666855	Plus
100383595	-		SAUSA300_1536	1686432	Minus
100331517	fumC		SAUSA300_1801	1985575	Plus
100331480			SAUSA300_1871	2031718	Minus
100331525			SAUSA300_2363	2539469	Minus
100362879			SAUSA300_2045	2210167	Plus
100331540	lytN		SAUSA300_1140	1249506	Minus
100382563			SAUSA300_1170	1288813	Plus
120005529	-		SAUSA300_0793	877038	Plus
100384527			SAUSA300_1501	1654560	Plus
100384520			SAUSA300_2300	2472746	Plus
100333150			SAUSA300_1440	1594587	Minus
100362900	polA		SAUSA300_1423	1582749	Plus
100384109	-		SAUSA300_2321	2495829	Plus
100385210	-		SAUSA300_1207	1328773	Plus
100383611	tetR		SAUSA300_2599	2826369	Minus
100331527			SAUSA300_2519	2722595	Plus
100383686	-		SAUSA300_2521	2724919	Plus
100383803	-		SAUSA300_2542	2747730	Plus
100384471	-		SAUSA300_2030	2191672	Plus
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120005494	-		SAUSA300_0300	351191	Minus
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100383623	arcD		SAUSA300_0064	72982	Plus
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100383845	-		SAUSA300_2622	2848910	Plus
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100385003	-		SAUSA300_0753	840293	Minus
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100384187	-		SAUSA300_0670	742992	Minus
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100384553	arcC		SAUSA300_1063	1163307	Plus
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100384598	-		SAUSA300_0693	768888	Plus
100384168	-		SAUSA300_2454	2650257	Plus
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1063922981	-		SAUSA300_1321	1452919	Plus
100384951	hisF		SAUSA300_2606	2834885	Plus
100385198	-		SAUSA300_1260	1388493	Minus
100386912			SAUSA300_0709	787645	Plus
100382547	clpC		SAUSA300_0510	568911	Minus
100384539			SAUSA300_1945	2110898	Plus
100384999	-		SAUSA300_1328	1489694	Minus
100384185	-		SAUSA300_0615	687331	Minus
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100384067	-		SAUSA300_0733	813773	Minus
120005697	-		SAUSA300_1908	2074808	Minus
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100384773			SAUSA300_0102	111983	Plus
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100384203	-		SAUSA300_1916	2080588	Minus
100384211	-		SAUSA300_2309	2481611	Plus
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1063923042	-		SAUSA300_2544	2748872	Plus
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100384730	ung		SAUSA300_0563	638411	Plus
100384707	-		SAUSA300_2031	2192686	Minus
100383648	-		SAUSA300_1028	1123927	Minus
100337676			SAUSA300_1895	2060490	Plus
100384079	-		SAUSA300_0076	83911	Minus
100383853	-		SAUSA300_2412	2598596	Plus
100383801	hisC		SAUSA300_2610	2837763	Plus
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1063923022	-		SAUSA300_0568	642314	Minus
1063923014	-		SAUSA300_0857	935048	Minus
100383824	-		SAUSA300_0305	354958	Plus
100384811			SAUSA300_0284	340483	Minus
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100384012	-		SAUSA300_0588	662135	Minus
100383629	-		SAUSA300_2471	2667862	Minus
100384157	sbcC		SAUSA300_1243	1362274	Plus

100383776	-		SAUSA300_1660	1825836	Minus
100338069			SAUSA300_0817	897179	Minus
100383787	atpD		SAUSA300_2058	2222071	Plus
100383816	rarD		SAUSA300_2628	2855410	Plus
100383756	-		SAUSA300_1506	1658029	Plus
100384802			SAUSA300_0679	754175	Plus
100384594	-		SAUSA300_1070	1169830	Minus
100383973	-		SAUSA300_2419	2605879	Minus
100384478	-		SAUSA300_1297	1426846	Plus
1063923039	-		SAUSA300_1943	2109951	Plus
100383675	-		SAUSA300_2552	2760448	Plus
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100383005			SAUSA300_0668	741450	Minus
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100384576	typA		SAUSA300_1009	1104957	Plus
100384608	-		SAUSA300_1721	1904284	Minus
100384988	-		SAUSA300_1061	1161079	Minus
100384975	-		SAUSA300_1650	1815414	Plus
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100383661	-		SAUSA300_2635	2862163	Plus
100385015	-		SAUSA300_1792	1975992	Minus
100384639	-		SAUSA300_0739	822273	Minus
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100384966	-		SAUSA300_2168	2349539	Minus
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100384118	-		SAUSA300_1312	1445698	Minus
100385142	argR		SAUSA300_0066	74980	Minus
100384960	-		SAUSA300_2273	2444336	Minus
100385016	opp-1A		SAUSA300_2411	2597238	Minus
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100384247	-		SAUSA300_1332	1494902	Plus
100383822	-		SAUSA300_1352	1519463	Minus
100385165	-		SAUSA300_1261	1389211	Plus
100338050			SAUSA300_0091	100206	Plus
1063923065	-		SAUSA300_1395	1563886	Minus
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100383009	plc		SAUSA300_0099	109229	Plus
100387010			SAUSA300_0256	308870	Minus
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100384780	ribE		SAUSA300_1714	1897133	Minus
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100383645	-		SAUSA300_2282	2454691	Plus
100382568	hisB		SAUSA300_2609	2836665	Minus
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100384819	trpE		SAUSA300_1262	1390631	Plus
100385002	-		SAUSA300_0773	862275	Minus
100384946	-		SAUSA300_1971	2125946	Plus
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100383783	-		SAUSA300_1550	1702238	Plus
1063923062	potB		SAUSA300_1000	1096084	Minus
1063923013	sucD		SAUSA300_1139	1248493	Minus
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100383626	hslO		SAUSA300_0490	549889	Minus
100383813	-		SAUSA300_1435	1588468	Minus
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100383650	-		SAUSA300_2102	2268891	Minus
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1063923052	-		SAUSA300_2299	2471975	Minus
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100384973	-		SAUSA300_1534	1684196	Minus
100384163			SAUSA300_2211	2379117	Minus
100383969	-		SAUSA300_1859	2021506	Plus
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100384837			SAUSA300_0599	673330	Plus
100384779			SAUSA300_1065	1166779	Plus
100383673	-		SAUSA300_2021	2184021	Plus
100384192	-		SAUSA300_0127	145928	Minus
100362110			SAUSA300_1031	1126502	Minus
1063923009	-		SAUSA300_2358	2534397	Plus
100335091			SAUSA300_2455	2651631	Minus
100383763	-		SAUSA300_0714	792953	Plus
100383830	-		SAUSA300_0567	641901	Minus
1063923041	-		SAUSA300_1217	1336126	Plus
1063923028	-		SAUSA300_1966	2121765	Minus
100383754	-		SAUSA300_2423	2608977	Minus
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100335094			SAUSA300_1977	2133556	Minus
100384178	-		SAUSA300_0208	246176	Minus
100384188	serA		SAUSA300_1670	1834806	Plus
100384250	-		SAUSA300_2583	2803158	Minus
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100384827	srrB		SAUSA300_1441	1596408	Minus
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1063923023	-		SAUSA300_0334	387200	Plus
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100384731	-		SAUSA300_0057	66503	Plus
100382994			SAUSA300_2086	2250160	Minus
100384245	-		SAUSA300_0198	232790	Plus
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1063923005	-		SAUSA300_1480	1633402	Plus
100384754			SAUSA300_1228	1345934	Minus
100383836	set7		SAUSA300_0396	447554	Minus
100384597	hlgB		SAUSA300_2367	2545158	Plus
100338085	oppF		SAUSA300_0890	977338	Minus
100384035	-		SAUSA300_2163	2342174	Minus
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100338064	purQ		SAUSA300_0970	1062106	Plus
100382996			SAUSA300_2445	2640725	Plus
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100383006	kdpB		SAUSA300_2033	2195388	Plus
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