

Table S1 List of software used for the analysis

Name	version	URL
FastQC	0.12.1	https://www.bioinformatics.babraham.ac.uk/projects/fastqc/
MultiQC	1.22.3	https://multiqc.info/
Trimmomatic	0.39	http://www.usadellab.org/cms/?page=trimmomatic
PRINSEQ-lite	0.20.4	http://prinseq.sourceforge.net/
STAR	2.7.11b	https://github.com/alexdobin/STAR
The Subread package/featureCounts	2.0.6	http://subread.sourceforge.net/
R	4.3.3	https://cran.r-project.org/
edgeR	4.2.0	https://bioconductor.org/packages/release/bioc/html/edgeR.html
gplots	3.1.3.1	https://cran.r-project.org/web/packages/gplots/index.html
EnhancedVolcano	1.22.0	https://bioconductor.org/packages/release/bioc/html/EnhancedVolcano.html
ggfortify	0.4.17	https://cran.r-project.org/web/packages/ggfortify/index.html
amap	0.8.19	https://cran.r-project.org/web/packages/amap/index.html
topGO	2.56.0	https://bioconductor.org/packages/release/bioc/html/topGO.html
rtracklayer	1.64.0	https://bioconductor.org/packages/devel/bioc/html/rtracklayer.html
GenomicRanges	1.56.2	https://bioconductor.org/packages/devel/bioc/html/GenomicRanges.html

Table S2 List of differentially expressed genes showing a false discovery rate (FDR) < 0.05**A total of 1,420 genes were identified.**

Names	gene	logFC	logCPM	PValue	FDR	start	end	width	strand
CDN75_RS16405	alsA	-2.521	6.359	3.875E-63	1.686E-59	3164095	3165627	1533	-
CDN75_RS17710	fimA	2.193	6.612	3.412E-53	7.422E-50	3399313	3399861	549	+
CDN75_RS07205	evgS	1.356	7.987	5.744E-45	8.331E-42	1343319	1346912	3594	+
CDN75_RS16410	alsB	-2.620	6.924	6.886E-44	7.023E-41	3165754	3166689	936	-
CDN75_RS16400	alsC	-1.958	5.669	8.071E-44	7.023E-41	3163136	3164116	981	-
CDN75_RS16415	alsR	-1.945	7.781	3.430E-41	2.487E-38	3166748	3167638	891	-
CDN75_RS21985	rhIE	1.251	7.452	1.113E-35	6.918E-33	4222492	4223856	1365	+
CDN75_RS13505	cspE	1.058	12.829	1.802E-34	9.799E-32	2573472	2573684	213	+
CDN75_RS14590	rbsA	-1.629	9.413	2.834E-34	1.370E-31	2788539	2790044	1506	+
CDN75_RS00180	bluF	2.060	7.771	2.951E-33	1.284E-30	22552	23763	1212	-
CDN75_RS15085	fadB	-1.221	8.104	1.229E-32	4.861E-30	2883541	2885730	2190	-
CDN75_RS16235	yjcB	1.217	6.294	7.968E-32	2.889E-29	3129519	3129800	282	-
CDN75_RS18580	leuB	1.842	7.775	4.529E-29	1.516E-26	3578715	3579806	1092	-
CDN75_RS08785	proW	1.092	9.950	9.856E-28	3.063E-25	1658162	1659226	1065	+
CDN75_RS08290	grcA	1.494	6.408	1.712E-27	4.967E-25	1568220	1568603	384	-
CDN75_RS00575	narG	1.413	6.474	9.674E-27	2.631E-24	88151	91894	3744	+
CDN75_RS16710	groS	-1.110	7.898	2.478E-26	6.342E-24	3225334	3225627	294	+
CDN75_RS06525	glpA	-1.200	7.609	8.302E-26	2.007E-23	1211592	1213220	1629	+
CDN75_RS13785	lldP	-1.362	11.901	2.715E-25	6.217E-23	2630822	2632477	1656	+
CDN75_RS18845	gcd	0.990	8.716	5.112E-25	1.112E-22	3636683	3639073	2391	-
CDN75_RS05860	btsS	-1.159	5.776	2.802E-24	5.806E-22	1072017	1073702	1686	-
CDN75_RS13330	dctA	-1.116	7.582	3.277E-24	6.480E-22	2535584	2536870	1287	-
CDN75_RS16530	proP	0.897	10.888	9.235E-24	1.747E-21	3185149	3186651	1503	+
CDN75_RS14145	uhpT	-1.220	6.319	1.062E-23	1.925E-21	2700537	2701928	1392	-
CDN75_RS18575	leuC	1.743	7.743	1.587E-23	2.762E-21	3577312	3578712	1401	-
CDN75_RS00970	lacZ	-2.762	8.114	5.710E-23	9.556E-21	150814	153795	2982	-
CDN75_RS08330	yfiM	1.009	7.075	1.067E-22	1.720E-20	1576282	1576605	324	+
CDN75_RS20215	tomB	1.048	6.431	1.884E-22	2.928E-20	3882118	3882492	375	-
CDN75_RS08685	glaH	-1.242	5.570	4.293E-22	6.441E-20	1641137	1642114	978	+
CDN75_RS16715	groL	-1.134	11.251	9.171E-22	1.330E-19	3225671	3227317	1647	+
CDN75_RS18355	carA	-0.859	8.417	3.195E-21	4.485E-19	3527501	3528649	1149	+
CDN75_RS18270	dnaK	-0.993	11.587	4.513E-21	6.137E-19	3510013	3511929	1917	+
CDN75_RS18790	aceE	0.824	12.501	9.987E-21	1.317E-18	3620865	3623528	2664	+
CDN75_RS17715	fimI	1.679	4.108	1.468E-20	1.865E-18	3399926	3400465	540	+
CDN75_RS12775	yzgL	-1.062	5.843	1.501E-20	1.865E-18	2417210	2417431	222	-
CDN75_RS18530	araC	-0.987	6.124	3.698E-20	4.470E-18	3568235	3569113	879	+
CDN75_RS15440	cpxP	1.119	8.937	4.184E-20	4.920E-18	2960579	2961079	501	+
CDN75_RS05700	gatY	-0.928	10.571	5.007E-20	5.733E-18	1035408	1036262	855	-
CDN75_RS08790	proX	0.967	9.919	1.273E-19	1.420E-17	1659284	1660276	993	+
CDN75_RS19375	fadE	-0.928	7.417	1.408E-19	1.532E-17	3738706	3741150	2445	-
CDN75_RS18585	leuA	1.235	8.747	1.982E-19	2.103E-17	3579806	3581377	1572	-
CDN75_RS05030	shiA	0.899	7.046	2.076E-19	2.150E-17	911506	912822	1317	+
CDN75_RS08780	proV	0.887	10.231	2.126E-19	2.151E-17	1656967	1658169	1203	+
CDN75_RS01300	puuA	1.473	7.556	3.822E-19	3.780E-17	215733	217151	1419	-
CDN75_RS20285	htpG	-0.916	9.892	5.279E-19	5.104E-17	3896904	3898778	1875	+
CDN75_RS09995	serA	0.788	9.852	9.126E-19	8.632E-17	1909266	1910498	1233	-
CDN75_RS16395	alsE	-1.994	5.522	2.560E-18	2.370E-16	3162430	3163125	696	-
CDN75_RS20210	hha	0.992	6.780	2.741E-18	2.484E-16	3881874	3882092	219	-
CDN75_RS16390	alsK	-1.516	6.147	3.375E-18	2.997E-16	3161517	3162446	930	-
CDN75_RS20870	fepC	1.205	5.334	3.566E-18	3.103E-16	4011004	4011819	816	-
CDN75_RS11615	gltB	0.744	11.893	5.006E-18	4.271E-16	2208147	2212607	4461	+
CDN75_RS12770	glpD	-0.893	10.638	5.233E-18	4.378E-16	2415436	2416941	1506	+
CDN75_RS03110	add	0.815	7.783	6.951E-18	5.707E-16	559673	560674	1002	+
CDN75_RS03870	ynjI	1.262	4.753	1.948E-17	1.570E-15	701271	702311	1041	-
CDN75_RS08400	pheA	0.802	11.238	2.114E-17	1.672E-15	1589899	1591059	1161	+
CDN75_RS14390	tnaB	-1.095	8.889	2.225E-17	1.729E-15	2744997	2746244	1248	+

CDN75_RS03865	gdhA	0.835	8.134	3.133E-17	2.392E-15	699811	701154	1344 +
CDN75_RS00965	lacY	-2.370	5.629	3.370E-17	2.515E-15	149509	150762	1254 -
CDN75_RS12735	malT	-0.856	9.220	3.410E-17	2.515E-15	2406507	2409212	2706 +
CDN75_RS16425	rpiB	-1.486	4.324	4.819E-17	3.494E-15	3167997	3168446	450 +
CDN75_RS11345	deaD	0.746	11.482	7.074E-17	5.046E-15	2159393	2161282	1890 -
CDN75_RS07250	lpnP	0.866	7.862	2.241E-16	1.573E-14	1354590	1355510	921 +
CDN75_RS08690	lhgO	-1.037	5.941	2.759E-16	1.906E-14	1642134	1643402	1269 +
CDN75_RS05855	btsR	-1.045	5.584	2.825E-16	1.921E-14	1071301	1072020	720 -
CDN75_RS15080	fadA	-0.874	7.360	3.526E-16	2.360E-14	2882368	2883531	1164 -
CDN75_RS00490	prmC	0.784	6.613	5.797E-16	3.822E-14	74381	75214	834 +
CDN75_RS13500	yiaG	1.050	5.677	5.933E-16	3.853E-14	2572901	2573191	291 +
CDN75_RS05695	gatZ	-0.848	11.020	1.600E-15	1.024E-13	1034117	1035379	1263 -
CDN75_RS15150	srkA	0.734	8.004	2.048E-15	1.292E-13	2897174	2898160	987 +
CDN75_RS21910	moaB	-0.948	6.145	2.369E-15	1.473E-13	4209675	4210187	513 +
CDN75_RS05010	mtfA	-0.912	6.372	2.507E-15	1.536E-13	901514	902311	798 +
CDN75_RS02750	cspF	1.431	4.375	2.615E-15	1.580E-13	499295	499507	213 +
CDN75_RS00355	cvrA	0.844	7.084	6.932E-15	4.130E-13	48623	50359	1737 -
CDN75_RS02745	cspB	0.808	9.535	7.023E-15	4.130E-13	498779	498994	216 -
CDN75_RS07325	nupC	-0.814	8.326	9.797E-15	5.683E-13	1371987	1373189	1203 +
CDN75_RS05275	hisG	0.770	6.959	1.012E-14	5.795E-13	948055	948954	900 +
CDN75_RS24020	gap	0.680	8.507	1.156E-14	6.532E-13	347155	348155	1001 -
CDN75_RS08260	rpoE	0.747	8.340	1.291E-14	7.201E-13	1561591	1562166	576 -
CDN75_RS17745	gntP	-0.980	5.284	1.453E-14	8.002E-13	3406151	3407494	1344 -
CDN75_RS18795	aceF	0.726	11.633	2.028E-14	1.103E-12	3623543	3625435	1893 +
CDN75_RS22000	dinG	0.834	7.324	3.167E-14	1.701E-12	4224690	4226840	2151 +
CDN75_RS16695	aspA	-0.865	9.824	3.231E-14	1.714E-12	3221537	3222973	1437 -
CDN75_RS24780	NA	2.332	2.381	3.372E-14	1.768E-12	528441	528560	120 -
CDN75_RS14595	rbsC	-0.888	9.576	3.419E-14	1.771E-12	2790049	2791014	966 +
CDN75_RS22590	aroA	0.736	7.531	5.522E-14	2.827E-12	4351770	4353053	1284 +
CDN75_RS18570	leuD	1.269	6.199	5.669E-14	2.868E-12	3576696	3577301	606 -
CDN75_RS04315	copD	0.774	7.974	7.063E-14	3.532E-12	782358	783230	873 -
CDN75_RS13790	lldR	-1.018	9.899	7.611E-14	3.763E-12	2632477	2633253	777 +
CDN75_RS17250	treB	-0.937	10.426	7.851E-14	3.838E-12	3320181	3321602	1422 -
CDN75_RS14120	nepI	0.872	6.861	9.411E-14	4.550E-12	2695310	2696500	1191 -
CDN75_RS24015	ynaM	1.443	6.419	1.092E-13	5.220E-12	291735	291848	114 -
CDN75_RS21915	moaC	-0.845	5.436	1.196E-13	5.658E-12	4210190	4210675	486 +
CDN75_RS01950	aldA	-0.851	8.987	1.236E-13	5.785E-12	345674	347113	1440 +
CDN75_RS20875	fepG	0.791	5.866	1.615E-13	7.478E-12	4011816	4012808	993 -
CDN75_RS05955	yohK	1.014	4.897	1.753E-13	8.029E-12	1090077	1090772	696 +
CDN75_RS21580	sdhC	-0.681	10.294	1.847E-13	8.369E-12	4146782	4147186	405 +
CDN75_RS08255	rseA	0.808	9.074	2.280E-13	1.022E-11	1560908	1561558	651 -
CDN75_RS17240	nrdD	-0.822	7.878	2.729E-13	1.211E-11	3315944	3318082	2139 -
CDN75_RS11360	pnp	0.698	11.860	2.830E-13	1.244E-11	2162455	2164590	2136 -
CDN75_RS06530	glpB	-1.107	7.525	3.101E-13	1.349E-11	1213210	1214469	1260 +
CDN75_RS10145	metK	-0.684	8.872	3.564E-13	1.535E-11	1938794	1939948	1155 +
CDN75_RS24045	NA	1.373	4.279	3.846E-13	1.640E-11	499562	499651	90 +
CDN75_RS19830	aroL	0.790	7.862	4.096E-13	1.730E-11	3808189	3808713	525 +
CDN75_RS17755	uxuA	-0.776	6.549	5.160E-13	2.159E-11	3407834	3409018	1185 +
CDN75_RS13795	lldD	-0.893	11.085	5.300E-13	2.196E-11	2633250	2634440	1191 +
CDN75_RS17880	yjiT	-0.759	6.567	5.775E-13	2.370E-11	3428612	3430120	1509 +
CDN75_RS06970	epmC	0.682	6.522	9.600E-13	3.904E-11	1303148	1303696	549 -
CDN75_RS17245	treC	-1.070	9.837	9.833E-13	3.929E-11	3318476	3320131	1656 -
CDN75_RS01085	trpCF	0.716	6.615	9.843E-13	3.929E-11	174670	176031	1362 -
CDN75_RS21585	sdhD	-0.690	9.625	1.028E-12	4.066E-11	4147180	4147527	348 +
CDN75_RS14585	rbsD	-0.774	7.047	1.094E-12	4.289E-11	2788112	2788531	420 +
CDN75_RS08795	NA	0.880	5.462	1.539E-12	5.977E-11	1660468	1661645	1178 +
CDN75_RS13200	slp	-1.038	5.159	1.580E-12	6.084E-11	2507384	2507950	567 +
CDN75_RS12535	yhfZ	-1.062	4.213	1.859E-12	7.095E-11	2364861	2365766	906 -
CDN75_RS23420	trhO	-0.790	6.891	1.953E-12	7.389E-11	4511144	4512196	1053 +

CDN75_RS21590	sdhA	-0.672	12.131	2.079E-12	7.797E-11	4147527	4149293	1767 +
CDN75_RS21070	cspE	0.795	8.257	2.222E-12	8.262E-11	4048912	4049121	210 +
CDN75_RS05230	tsuA	-1.119	5.733	2.321E-12	8.560E-11	942330	943388	1059 -
CDN75_RS15015	udp	-0.738	8.487	2.343E-12	8.566E-11	2871190	2871951	762 +
CDN75_RS00960	lacA	-1.932	4.708	3.675E-12	1.332E-10	148832	149443	612 -
CDN75_RS11620	gltD	0.645	9.758	3.765E-12	1.354E-10	2212620	2214038	1419 +
CDN75_RS23715	ldtC	0.946	5.084	4.067E-12	1.450E-10	4563749	4564711	963 -
CDN75_RS05280	hisD	0.674	7.705	4.232E-12	1.488E-10	948960	950264	1305 +
CDN75_RS01075	trpA	0.775	6.189	4.241E-12	1.488E-10	172659	173465	807 -
CDN75_RS01080	trpB	0.859	6.782	4.824E-12	1.679E-10	173465	174658	1194 -
CDN75_RS02715	cspI	1.732	6.372	4.881E-12	1.685E-10	495895	496107	213 -
CDN75_RS14605	rbsK	-0.775	9.571	5.125E-12	1.756E-10	2792055	2792984	930 +
CDN75_RS17965	opgB	-0.708	7.723	5.187E-12	1.763E-10	3453348	3455639	2292 -
CDN75_RS18735	guaC	-0.901	8.420	6.210E-12	2.094E-10	3611292	3612335	1044 +
CDN75_RS00580	narH	1.418	5.091	6.379E-12	2.135E-10	91891	93429	1539 +
CDN75_RS09380	sdaB	-0.743	9.308	6.471E-12	2.149E-10	1781665	1783032	1368 +
CDN75_RS10175	yqgE	0.615	7.194	7.469E-12	2.446E-10	1945025	1945588	564 +
CDN75_RS16750	sugE	0.841	6.326	7.476E-12	2.446E-10	3231521	3231838	318 +
CDN75_RS16910	rnr	0.710	9.606	7.783E-12	2.527E-10	3261300	3263741	2442 +
CDN75_RS23025	cspG	1.289	10.608	8.524E-12	2.747E-10	4444419	4444631	213 +
CDN75_RS23030	ymcF	1.365	5.784	8.599E-12	2.751E-10	4444642	4444830	189 +
CDN75_RS08245	rseC	0.666	7.255	8.685E-12	2.758E-10	1559476	1559955	480 -
CDN75_RS17685	fimB	0.672	6.613	9.628E-12	3.036E-10	3396379	3396981	603 +
CDN75_RS06975	yfcA	0.694	6.746	9.820E-12	3.074E-10	1303696	1304505	810 -
CDN75_RS05690	gatA	-0.870	8.694	1.379E-11	4.286E-10	1033655	1034107	453 -
CDN75_RS08025	iscR	0.682	8.738	1.439E-11	4.440E-10	1513797	1514285	489 -
CDN75_RS04960	hchA	-0.800	7.019	1.460E-11	4.472E-10	893698	894549	852 +
CDN75_RS06055	yieE	0.720	6.826	1.512E-11	4.579E-10	1107795	1108676	882 -
CDN75_RS01295	puuP	1.017	5.107	1.515E-11	4.579E-10	214045	215430	1386 -
CDN75_RS05285	hisC	0.649	7.184	1.561E-11	4.685E-10	950261	951331	1071 +
CDN75_RS22450	infA	0.602	7.916	1.701E-11	5.068E-10	4317845	4318063	219 -
CDN75_RS04275	msrC	0.636	7.951	1.735E-11	5.121E-10	774270	774767	498 -
CDN75_RS21505	phrB	0.730	6.066	1.742E-11	5.121E-10	4131127	4132545	1419 +
CDN75_RS04080	dmlA	1.481	5.272	1.897E-11	5.538E-10	739352	740437	1086 +
CDN75_RS13080	rbbA	-0.714	8.227	1.931E-11	5.602E-10	2480226	2482961	2736 -
CDN75_RS23530	flgE	1.272	5.828	2.072E-11	5.970E-10	4526911	4528119	1209 +
CDN75_RS08935	norR	-0.693	5.913	2.089E-11	5.979E-10	1682926	1684440	1515 -
CDN75_RS06405	resC	0.600	7.754	2.170E-11	6.170E-10	1175972	1178821	2850 -
CDN75_RS01475	ynaI	-0.904	4.971	2.859E-11	7.999E-10	251134	252165	1032 -
CDN75_RS08425	dgcN	0.809	5.538	2.859E-11	7.999E-10	1594537	1595763	1227 +
CDN75_RS00485	prfA	0.586	7.403	2.868E-11	7.999E-10	73299	74381	1083 +
CDN75_RS14405	yieE	0.699	6.370	2.952E-11	8.182E-10	2748642	2749391	750 +
CDN75_RS11355	nlpI	0.562	11.173	3.084E-11	8.493E-10	2161462	2162346	885 -
CDN75_RS18275	dnaJ	-0.714	8.422	3.516E-11	9.620E-10	3512018	3513148	1131 +
CDN75_RS14740	gppA	0.584	9.267	3.687E-11	1.003E-09	2817505	2818989	1485 -
CDN75_RS08420	yfiR	0.893	5.075	3.787E-11	1.023E-09	1594029	1594547	519 +
CDN75_RS03300	ydhP	0.885	5.250	4.871E-11	1.308E-09	593561	594730	1170 -
CDN75_RS15420	kdgT	-0.686	9.001	5.818E-11	1.546E-09	2956449	2957432	984 +
CDN75_RS05685	gatB	-0.852	7.373	5.826E-11	1.546E-09	1033379	1033624	246 -
CDN75_RS23695	ndh	0.675	7.597	6.239E-11	1.645E-09	4560422	4561726	1305 +
CDN75_RS23035	ymcE	2.032	3.072	6.416E-11	1.682E-09	4444805	4445035	231 +
CDN75_RS19325	rnhA	0.696	5.567	8.609E-11	2.232E-09	3733382	3733849	468 -
CDN75_RS11795	tldD	0.637	8.856	8.619E-11	2.232E-09	2244005	2245450	1446 -
CDN75_RS20745	nfrA	-0.707	5.849	8.762E-11	2.256E-09	3979602	3982574	2973 -
CDN75_RS11575	npr	0.711	5.809	9.176E-11	2.349E-09	2201388	2201660	273 +
CDN75_RS19835	yaiA	0.693	6.119	9.341E-11	2.377E-09	3808763	3808954	192 +
CDN75_RS05510	yegH	0.685	6.939	1.048E-10	2.651E-09	995763	997346	1584 +
CDN75_RS09375	sdaC	-0.726	10.316	1.090E-10	2.741E-09	1780318	1781607	1290 +
CDN75_RS16430	yjdP	-1.012	4.750	1.124E-10	2.812E-09	3168515	3168844	330 +

CDN75_RS16535	pmrR	1.358	4.132	1.407E-10	3.498E-09	3186763	3186852	90 +
CDN75_RS01305	puuD	0.890	5.401	1.503E-10	3.714E-09	217363	218127	765 +
CDN75_RS01730	pinR	1.896	4.415	1.597E-10	3.925E-09	290526	291116	591 -
CDN75_RS04265	prc	0.575	9.662	1.743E-10	4.262E-09	771407	773455	2049 -
CDN75_RS17110	cpdB	-0.633	6.564	1.927E-10	4.683E-09	3290029	3291987	1959 -
CDN75_RS10460	gpr	-0.676	7.465	1.963E-10	4.746E-09	1999983	2001023	1041 +
CDN75_RS23535	flgF	1.124	4.951	2.035E-10	4.893E-09	4528139	4528894	756 +
CDN75_RS04215	yobF	0.689	7.307	2.098E-10	5.015E-09	764888	765031	144 -
CDN75_RS10990	uxaC	-0.741	5.945	2.112E-10	5.022E-09	2096752	2098164	1413 -
CDN75_RS01735	ydfK	1.486	5.980	2.408E-10	5.695E-09	291433	291666	234 -
CDN75_RS04775	yedE	-0.668	7.920	2.508E-10	5.899E-09	866140	867345	1206 +
CDN75_RS21970	ybhF	-0.650	7.470	2.599E-10	6.079E-09	4218865	4220601	1737 -
CDN75_RS24005	NA	1.811	2.976	2.844E-10	6.616E-09	215420	215584	165 -
CDN75_RS19305	yafE	0.718	5.454	2.969E-10	6.858E-09	3729800	3730396	597 +
CDN75_RS08410	aroF	0.973	8.947	2.979E-10	6.858E-09	1592234	1593304	1071 -
CDN75_RS04825	fliG	1.184	4.606	3.241E-10	7.421E-09	872743	873738	996 +
CDN75_RS08250	rseB	0.598	8.424	3.969E-10	9.041E-09	1559952	1560908	957 -
CDN75_RS22915	yccA	0.613	8.959	4.238E-10	9.603E-09	4423717	4424376	660 -
CDN75_RS04685	uvrC	0.566	8.252	4.439E-10	1.001E-08	850737	852569	1833 -
CDN75_RS01310	puuR	0.854	5.302	4.565E-10	1.024E-08	218154	218711	558 +
CDN75_RS22340	artI	-0.643	7.615	4.697E-10	1.048E-08	4293877	4294608	732 -
CDN75_RS10670	ribB	0.585	7.818	5.333E-10	1.184E-08	2035899	2036552	654 -
CDN75_RS03035	rstA	-0.790	6.922	6.097E-10	1.347E-08	539599	540318	720 +
CDN75_RS15645	ppc	0.571	10.734	6.204E-10	1.362E-08	3005206	3007857	2652 -
CDN75_RS04310	yebY	0.672	5.874	6.229E-10	1.362E-08	782004	782345	342 -
CDN75_RS16145	lexA	0.803	7.849	7.340E-10	1.597E-08	3111874	3112482	609 +
CDN75_RS10650	ygiC	0.585	8.441	7.814E-10	1.691E-08	2032507	2033667	1161 +
CDN75_RS08320	patZ	-0.648	7.684	8.999E-10	1.938E-08	1572107	1574767	2661 +
CDN75_RS10260	nupG	-0.653	6.965	9.186E-10	1.969E-08	1957802	1959057	1256 +
CDN75_RS15285	csqR	-0.659	6.019	9.488E-10	2.024E-08	2929428	2930213	786 +
CDN75_RS03900	sppA	0.590	7.324	1.004E-09	2.131E-08	706277	708133	1857 +
CDN75_RS11010	mzrA	0.951	5.247	1.081E-09	2.284E-08	2101862	2102245	384 +
CDN75_RS08405	tyrA	0.617	8.040	1.094E-09	2.299E-08	1591102	1592223	1122 -
CDN75_RS21595	sdhB	-0.581	10.776	1.140E-09	2.384E-08	4149309	4150025	717 +
CDN75_RS18360	carB	-0.583	10.133	1.157E-09	2.410E-08	3528667	3531888	3222 +
CDN75_RS04360	purT	-0.705	7.693	1.357E-09	2.813E-08	789520	790698	1179 +
CDN75_RS04345	yebE	0.781	5.356	1.443E-09	2.975E-08	787687	788346	660 -
CDN75_RS06570	yfaY	0.623	7.318	1.452E-09	2.979E-08	1221376	1222578	1203 -
CDN75_RS00175	bluR	0.643	7.545	1.498E-09	3.049E-08	21616	22347	732 -
CDN75_RS12005	aroE	0.615	6.411	1.500E-09	3.049E-08	2283442	2284260	819 -
CDN75_RS15505	glpF	-0.827	9.888	1.785E-09	3.613E-08	2972004	2972849	846 -
CDN75_RS18165	robA	0.617	8.932	1.890E-09	3.808E-08	3490639	3491508	870 -
CDN75_RS12530	yhfY	-1.814	2.547	1.940E-09	3.890E-08	2364482	2364844	363 -
CDN75_RS04855	fliM	1.053	4.869	2.066E-09	4.123E-08	877950	878954	1005 +
CDN75_RS00200	yngC	-1.572	2.631	2.135E-09	4.241E-08	25036	25284	249 +
CDN75_RS06010	yeiB	0.585	6.476	2.380E-09	4.707E-08	1100868	1102025	1158 -
CDN75_RS18520	araB	-1.010	4.066	2.575E-09	5.071E-08	3566196	3567896	1701 -
CDN75_RS02665	pinQ	1.632	4.173	2.849E-09	5.584E-08	491062	491652	591 +
CDN75_RS23655	ptsG	-0.598	9.544	3.017E-09	5.887E-08	4552206	4553639	1434 +
CDN75_RS08560	rnlB	0.594	6.003	3.150E-09	6.119E-08	1619137	1619508	372 +
CDN75_RS08695	gabD	-0.660	6.597	3.363E-09	6.502E-08	1643425	1644873	1449 +
CDN75_RS22585	serC	0.548	9.466	3.378E-09	6.503E-08	4350611	4351699	1089 +
CDN75_RS15205	glnL	0.641	7.264	4.101E-09	7.860E-08	2910049	2911098	1050 -
CDN75_RS03575	selO	0.588	8.557	4.125E-09	7.872E-08	647248	648684	1437 -
CDN75_RS08365	clpB	-0.570	10.217	4.365E-09	8.293E-08	1583754	1586327	2574 -
CDN75_RS19825	yaiI	0.662	6.339	4.510E-09	8.532E-08	3807548	3808006	459 +
CDN75_RS16015	yjbD	0.828	5.005	4.575E-09	8.617E-08	3086118	3086390	273 -
CDN75_RS21920	moaD	-0.875	4.543	4.644E-09	8.710E-08	4210668	4210913	246 +
CDN75_RS14610	rbsR	-0.686	7.796	4.698E-09	8.772E-08	2792988	2793979	992 +

CDN75_RS04675	NA	0.837	5.082	5.037E-09	9.367E-08	849905	849980	76 -
CDN75_RS08335	kgtP	0.506	11.440	5.339E-09	9.885E-08	1576602	1577900	1299 -
CDN75_RS02460	hipA	-0.874	4.761	6.317E-09	1.165E-07	448296	449618	1323 -
CDN75_RS19850	ppnP	0.619	7.003	6.346E-09	1.165E-07	3809961	3810245	285 +
CDN75_RS04100	rnd	0.625	6.578	6.891E-09	1.260E-07	744304	745419	1116 -
CDN75_RS18090	deoA	-0.574	8.083	7.296E-09	1.328E-07	3474427	3475749	1323 +
CDN75_RS11445	yhbY	0.528	8.152	7.573E-09	1.373E-07	2181212	2181505	294 +
CDN75_RS06535	glpC	-0.948	7.330	7.874E-09	1.422E-07	1214466	1215656	1191 +
CDN75_RS04210	cspE	0.610	9.741	7.951E-09	1.425E-07	764666	764875	210 -
CDN75_RS14700	ilvE	0.562	6.958	7.960E-09	1.425E-07	2807244	2808173	930 +
CDN75_RS22500	ftsK	0.492	9.769	8.444E-09	1.506E-07	4326182	4330171	3990 +
CDN75_RS02605	ydeE	0.744	5.854	8.640E-09	1.534E-07	478772	479959	1188 +
CDN75_RS20155	mdlB	0.591	6.524	8.991E-09	1.590E-07	3872420	3874201	1782 +
CDN75_RS04585	flhD	-1.087	3.775	9.428E-09	1.661E-07	836486	836836	351 -
CDN75_RS00340	dadA	-0.600	9.845	9.736E-09	1.708E-07	45859	47157	1299 +
CDN75_RS00495	sirB2	0.787	4.647	9.917E-09	1.733E-07	75211	75603	393 +
CDN75_RS15275	yihU	-1.181	3.375	9.992E-09	1.739E-07	2927434	2928330	897 -
CDN75_RS11100	tdcE	1.211	5.347	1.021E-08	1.771E-07	2113547	2115841	2295 -
CDN75_RS19845	aroM	0.660	5.761	1.083E-08	1.871E-07	3809212	3809889	678 +
CDN75_RS09975	zapA	0.531	7.717	1.102E-08	1.896E-07	1907700	1908029	330 +
CDN75_RS23445	bssS	1.057	5.356	1.107E-08	1.896E-07	4515038	4515292	255 -
CDN75_RS15925	purH	-0.733	10.826	1.131E-08	1.929E-07	3060702	3062291	1590 -
CDN75_RS08870	csrA	0.534	8.389	1.273E-08	2.164E-07	1671112	1671297	186 -
CDN75_RS11105	tdcD	1.187	4.092	1.340E-08	2.269E-07	2115875	2117083	1209 -
CDN75_RS21435	kdpD	-0.581	6.704	1.385E-08	2.336E-07	4113350	4116034	2685 -
CDN75_RS02590	marA	-0.718	5.744	1.724E-08	2.896E-07	477014	477397	384 +
CDN75_RS13425	dppB	0.758	5.053	1.804E-08	3.020E-07	2558194	2559213	1020 -
CDN75_RS15010	ysgA	0.544	6.575	1.988E-08	3.314E-07	2870113	2870928	816 -
CDN75_RS13755	mtlA	-0.562	6.706	2.048E-08	3.401E-07	2625704	2627617	1914 +
CDN75_RS13685	aldB	-0.791	4.648	2.087E-08	3.452E-07	2608396	2609934	1539 -
CDN75_RS16570	melR	-0.851	4.602	2.107E-08	3.472E-07	3195367	3196275	909 -
CDN75_RS02600	eamA	0.691	6.002	2.121E-08	3.482E-07	477678	478577	900 -
CDN75_RS08045	csiE	-0.605	5.801	2.142E-08	3.504E-07	1517589	1518869	1281 +
CDN75_RS23740	lolE	0.514	7.786	2.151E-08	3.505E-07	4571657	4572901	1245 +
CDN75_RS13430	dppA	0.544	8.597	2.457E-08	3.988E-07	2559521	2561128	1608 -
CDN75_RS16290	actP	-0.722	7.074	2.471E-08	3.997E-07	3138012	3139661	1650 -
CDN75_RS07935	hisS	0.510	9.177	2.698E-08	4.348E-07	1491455	1492729	1275 -
CDN75_RS03330	cfa	-0.680	8.588	2.737E-08	4.395E-07	598853	600001	1149 +
CDN75_RS10985	uxaA	-0.703	5.779	2.784E-08	4.453E-07	2095250	2096737	1488 -
CDN75_RS18085	deoC	-0.573	7.140	3.023E-08	4.819E-07	3473521	3474300	780 +
CDN75_RS14455	bgIF	0.690	7.176	3.056E-08	4.853E-07	2758481	2760358	1878 -
CDN75_RS00590	narI	1.240	3.984	3.593E-08	5.684E-07	94136	94813	678 +
CDN75_RS22275	nfsA	-0.540	6.807	3.694E-08	5.823E-07	4282804	4283526	723 +
CDN75_RS14975	rhtC	0.519	7.368	3.927E-08	6.154E-07	2862516	2863136	621 +
CDN75_RS12905	ugpB	-0.568	6.215	3.932E-08	6.154E-07	2444432	2445748	1317 -
CDN75_RS13245	mdtE	-0.970	4.626	4.246E-08	6.622E-07	2512703	2513812	1110 +
CDN75_RS09575	tas	0.557	8.085	4.360E-08	6.775E-07	1823686	1824726	1041 +
CDN75_RS21315	asnB	0.496	9.617	4.435E-08	6.867E-07	4089133	4090797	1665 -
CDN75_RS10970	alx	0.611	6.084	4.459E-08	6.880E-07	2092003	2092968	966 +
CDN75_RS04580	flhC	-0.939	4.215	4.566E-08	7.020E-07	835905	836483	579 -
CDN75_RS00330	fadR	0.522	6.829	4.682E-08	7.173E-07	43226	43945	720 +
CDN75_RS12010	tsaC	0.503	6.821	4.866E-08	7.429E-07	2284265	2284837	573 -
CDN75_RS00955	cynX	-1.137	3.365	5.134E-08	7.811E-07	147575	148729	1155 +
CDN75_RS04835	flil	1.135	4.513	5.448E-08	8.260E-07	874417	875790	1374 +
CDN75_RS14690	ilvG	0.546	7.580	5.678E-08	8.577E-07	2805320	2806964	1645 +
CDN75_RS14925	yigB	0.590	7.257	5.946E-08	8.952E-07	2851942	2852658	717 +
CDN75_RS23520	flgC	1.077	3.723	6.159E-08	9.240E-07	4525775	4526179	405 +
CDN75_RS06965	yfcL	0.684	4.904	6.299E-08	9.418E-07	1302836	1303114	279 -
CDN75_RS09630	yqeF	-0.621	7.002	6.366E-08	9.485E-07	1836500	1837681	1182 -

CDN75_RS18460	pdxA	0.483	8.304	6.458E-08	9.590E-07	3550277	3551266	990 -
CDN75_RS12340	fkpA	0.544	8.913	6.919E-08	1.024E-06	2330029	2330841	813 -
CDN75_RS07500	cysP	-1.246	6.321	7.328E-08	1.081E-06	1401457	1402473	1017 -
CDN75_RS04600	otsB	0.605	6.689	8.554E-08	1.257E-06	839450	840250	801 -
CDN75_RS07945	rodZ	0.506	8.930	9.181E-08	1.345E-06	1493985	1494998	1014 -
CDN75_RS11565	ptsN	0.480	7.795	9.298E-08	1.358E-06	2200000	2200491	492 +
CDN75_RS03580	ydiV	0.843	4.278	9.409E-08	1.369E-06	648747	649460	714 -
CDN75_RS06180	yejG	0.559	7.620	9.901E-08	1.436E-06	1136951	1137295	345 -
CDN75_RS06030	yeiG	0.535	7.134	1.032E-07	1.491E-06	1102968	1103804	837 +
CDN75_RS22415	ybjX	-0.542	8.403	1.047E-07	1.509E-06	4309748	4310704	957 -
CDN75_RS07940	ispG	0.471	8.772	1.113E-07	1.598E-06	1492840	1493958	1119 -
CDN75_RS21925	moaE	-0.676	5.012	1.145E-07	1.638E-06	4210915	4211367	453 +
CDN75_RS24035	ynfT	1.135	6.293	1.206E-07	1.721E-06	490330	490443	114 +
CDN75_RS13410	dppF	0.687	5.767	1.236E-07	1.758E-06	2555287	2556291	1005 -
CDN75_RS08555	rnlA	0.523	6.583	1.294E-07	1.834E-06	1618072	1619144	1073 +
CDN75_RS24360	ynfU	1.575	2.554	1.376E-07	1.944E-06	498245	498415	171 +
CDN75_RS14285	cbrA	-0.628	5.178	1.396E-07	1.966E-06	2724138	2725202	1065 +
CDN75_RS22535	yeaC	-0.749	5.257	1.425E-07	2.000E-06	4337889	4338515	627 -
CDN75_RS15780	tuf	-0.496	12.174	1.525E-07	2.134E-06	3030703	3031887	1185 +
CDN75_RS20080	bolA	0.558	6.833	1.835E-07	2.559E-06	3856256	3856573	318 +
CDN75_RS17315	yjgL	0.620	5.169	1.854E-07	2.577E-06	3330859	3332673	1815 +
CDN75_RS13415	dppD	0.751	5.443	1.871E-07	2.592E-06	2556288	2557271	984 -
CDN75_RS02285	fdnG	1.022	4.604	1.904E-07	2.630E-06	404843	407890	3048 +
CDN75_RS14750	rhlB	0.465	9.802	1.941E-07	2.673E-06	2819125	2820390	1266 -
CDN75_RS07445	cysK	-0.513	9.548	2.027E-07	2.781E-06	1391354	1392325	972 +
CDN75_RS00585	narJ	1.176	4.128	2.033E-07	2.781E-06	93426	94136	711 +
CDN75_RS05900	dld	0.508	8.277	2.055E-07	2.798E-06	1081243	1082958	1716 +
CDN75_RS10180	ruvX	0.499	6.457	2.058E-07	2.798E-06	1945588	1946004	417 +
CDN75_RS21760	aroG	0.483	8.826	2.067E-07	2.802E-06	4177253	4178305	1053 +
CDN75_RS16900	purA	-0.612	11.370	2.078E-07	2.808E-06	3259333	3260631	1299 +
CDN75_RS04700	sdiA	0.844	4.965	2.132E-07	2.871E-06	853973	854695	723 -
CDN75_RS22270	ybjC	-0.635	5.290	2.221E-07	2.982E-06	4282533	4282820	288 +
CDN75_RS18485	yabP	0.817	5.202	2.424E-07	3.240E-06	3556324	3556974	651 +
CDN75_RS01485	ynaJ	0.557	6.412	2.428E-07	3.240E-06	253608	253865	258 +
CDN75_RS18515	araA	-0.704	4.504	2.601E-07	3.461E-06	3564683	3566185	1503 -
CDN75_RS19485	NA	0.677	4.775	2.660E-07	3.529E-06	3757308	3758012	705 +
CDN75_RS10150	galP	0.912	7.258	2.694E-07	3.562E-06	1940372	1941766	1395 +
CDN75_RS16905	nsrR	0.609	7.323	2.716E-07	3.581E-06	3260836	3261261	426 +
CDN75_RS21855	ybhC	-0.565	7.744	2.820E-07	3.706E-06	4197618	4198901	1284 -
CDN75_RS15990	iclR	0.760	7.402	2.835E-07	3.716E-06	3077563	3078387	825 -
CDN75_RS06895	purF	-0.530	9.861	3.219E-07	4.207E-06	1287666	1289183	1518 -
CDN75_RS03065	ydgA	0.475	8.899	3.408E-07	4.439E-06	547292	548800	1509 +
CDN75_RS21090	lipA	0.458	9.051	3.441E-07	4.469E-06	4050871	4051836	966 -
CDN75_RS11570	rapZ	0.477	8.568	3.601E-07	4.662E-06	2200537	2201391	855 +
CDN75_RS23745	nagK	0.462	7.382	3.664E-07	4.730E-06	4572930	4573841	912 +
CDN75_RS11595	arcB	0.495	8.398	3.849E-07	4.954E-06	2204111	2206447	2337 -
CDN75_RS19255	gmhB	0.532	6.619	3.938E-07	5.054E-06	3720680	3721255	576 +
CDN75_RS08705	gabP	-0.663	4.835	4.195E-07	5.369E-06	1646405	1647805	1401 +
CDN75_RS16730	epmB	0.449	7.075	4.277E-07	5.457E-06	3229275	3230303	1029 -
CDN75_RS23525	flgD	1.180	5.015	5.165E-07	6.572E-06	4526191	4526886	696 +
CDN75_RS05915	yohD	0.586	5.339	5.244E-07	6.653E-06	1084859	1085437	579 +
CDN75_RS02710	ynfQ	1.822	3.643	5.567E-07	7.042E-06	495696	495884	189 -
CDN75_RS04645	ftnA	0.822	5.426	5.621E-07	7.089E-06	846579	847076	498 +
CDN75_RS21980	cecR	-0.509	6.216	5.670E-07	7.130E-06	4221592	4222263	672 -
CDN75_RS12900	ugpA	-0.775	4.308	5.718E-07	7.170E-06	2443447	2444334	888 -
CDN75_RS16300	acs	-0.530	8.335	5.814E-07	7.270E-06	3140172	3142130	1959 -
CDN75_RS23540	flgG	1.069	4.538	5.989E-07	7.467E-06	4529066	4529848	783 +
CDN75_RS22690	gloC	0.436	8.191	6.083E-07	7.562E-06	4376608	4377255	648 +
CDN75_RS16755	blc	0.618	5.808	6.122E-07	7.589E-06	3231835	3232368	534 -

CDN75_RS20135	ybaE	-0.588	5.366	6.166E-07	7.621E-06	3867396	3869096	1701 -
CDN75_RS07715	tmcA	0.438	7.554	6.184E-07	7.622E-06	1445998	1448013	2016 -
CDN75_RS06395	rcsD	0.449	8.877	6.255E-07	7.689E-06	1172433	1175105	2673 +
CDN75_RS00335	yegB	0.607	6.131	6.329E-07	7.757E-06	43997	45529	1533 -
CDN75_RS01220	yciT	0.499	6.478	6.639E-07	8.114E-06	199840	200589	750 -
CDN75_RS07930	yfgM	0.429	7.828	6.844E-07	8.338E-06	1490817	1491437	621 -
CDN75_RS03975	yeaE	0.648	5.499	6.860E-07	8.338E-06	722222	723076	855 -
CDN75_RS09900	ygfX	0.499	6.357	6.977E-07	8.440E-06	1892505	1892912	408 -
CDN75_RS22505	lolA	0.505	7.145	6.983E-07	8.440E-06	4330330	4330941	612 +
CDN75_RS01340	pspA	-0.530	5.749	7.034E-07	8.477E-06	224322	224990	669 +
CDN75_RS24775	ynfN	2.162	2.049	7.272E-07	8.741E-06	495394	495623	230 -
CDN75_RS21975	hlyD	-0.562	6.594	7.482E-07	8.968E-06	4220594	4221589	996 -
CDN75_RS07105	yfdH	0.443	7.427	7.573E-07	9.052E-06	1327159	1328079	921 +
CDN75_RS04285	yebT	0.445	7.011	7.732E-07	9.217E-06	776149	778782	2634 +
CDN75_RS03090	hdhA	-0.571	6.182	8.386E-07	9.970E-06	554713	555480	768 -
CDN75_RS04830	fliH	1.092	4.095	8.413E-07	9.974E-06	873731	874417	687 +
CDN75_RS17530	fecA	0.478	11.290	8.450E-07	9.991E-06	3369775	3372099	2325 -
CDN75_RS06175	yejF	0.523	7.801	9.060E-07	1.068E-05	1135358	1136947	1590 +
CDN75_RS02475	NA	-0.869	4.781	9.553E-07	1.123E-05	450107	455526	5420 -
CDN75_RS04490	cutC	0.520	6.142	9.814E-07	1.151E-05	817159	817905	747 -
CDN75_RS20925	cstA	-0.495	7.552	9.982E-07	1.168E-05	4021514	4023619	2106 +
CDN75_RS17635	topAI	0.785	4.672	1.021E-06	1.190E-05	3389218	3389475	258 -
CDN75_RS00190	ymgA	-1.142	3.344	1.024E-06	1.190E-05	24356	24628	273 +
CDN75_RS10900	ebgR	0.744	5.656	1.026E-06	1.190E-05	2074889	2075872	984 +
CDN75_RS22795	ycbX	0.508	6.844	1.032E-06	1.195E-05	4399449	4400558	1110 -
CDN75_RS23200	efeO	-0.688	7.335	1.039E-06	1.199E-05	4475201	4476328	1128 +
CDN75_RS07925	bamB	0.419	8.898	1.059E-06	1.219E-05	1489628	1490806	1179 -
CDN75_RS11350	yrbN	0.558	6.533	1.063E-06	1.220E-05	2161275	2161355	81 -
CDN75_RS09405	fucI	-0.504	5.806	1.107E-06	1.268E-05	1787673	1789448	1776 +
CDN75_RS14705	ilvD	0.479	7.081	1.145E-06	1.307E-05	2808238	2810088	1851 +
CDN75_RS07270	ypdB	0.539	5.482	1.193E-06	1.356E-05	1359328	1360062	735 +
CDN75_RS20355	ybaQ	0.609	5.602	1.194E-06	1.356E-05	3910002	3910343	342 +
CDN75_RS06225	yejM	0.428	8.443	1.271E-06	1.440E-05	1143434	1145194	1761 +
CDN75_RS04380	hexR	-0.534	6.017	1.285E-06	1.450E-05	795291	796160	870 +
CDN75_RS15910	zraS	-0.641	4.745	1.287E-06	1.450E-05	3056685	3058082	1398 +
CDN75_RS07695	yffB	0.579	5.506	1.309E-06	1.472E-05	1443401	1443757	357 +
CDN75_RS16350	gltP	0.448	8.987	1.371E-06	1.538E-05	3149239	3150552	1314 +
CDN75_RS06785	alaA	0.486	7.372	1.449E-06	1.621E-05	1266506	1267723	1218 +
CDN75_RS00555	narL	-0.525	6.138	1.456E-06	1.624E-05	83466	84116	651 -
CDN75_RS09370	ppnN	0.492	8.936	1.540E-06	1.713E-05	1778397	1779761	1365 +
CDN75_RS13375	bcsE	0.457	7.244	1.725E-06	1.915E-05	2549881	2551452	1572 +
CDN75_RS00570	narK	1.004	3.987	1.791E-06	1.983E-05	86244	87635	1392 +
CDN75_RS15995	metH	0.440	9.247	1.798E-06	1.985E-05	3078587	3082270	3684 +
CDN75_RS19060	yaeH	0.513	6.237	1.890E-06	2.077E-05	3681557	3681943	387 -
CDN75_RS17760	uxuB	-0.525	6.724	1.890E-06	2.077E-05	3409099	3410559	1461 +
CDN75_RS08505	smpB	0.555	7.333	1.925E-06	2.110E-05	1607050	1607532	483 +
CDN75_RS15920	purD	-0.485	10.397	2.019E-06	2.208E-05	3059401	3060690	1290 -
CDN75_RS21520	pxpB	0.486	7.698	2.036E-06	2.220E-05	4135213	4135869	657 +
CDN75_RS18775	aroP	0.440	6.836	2.087E-06	2.270E-05	3618026	3619399	1374 -
CDN75_RS04595	otsA	0.438	7.539	2.118E-06	2.298E-05	838051	839475	1425 -
CDN75_RS11005	yqjA	0.591	6.608	2.132E-06	2.302E-05	2101196	2101858	663 +
CDN75_RS09510	ptrA	0.433	7.410	2.132E-06	2.302E-05	1808085	1810973	2889 -
CDN75_RS04780	yedF	-0.698	5.289	2.152E-06	2.318E-05	867342	867575	234 +
CDN75_RS10660	zupT	0.529	7.042	2.269E-06	2.438E-05	2034636	2035409	774 +
CDN75_RS14270	ibpA	-0.501	7.584	2.404E-06	2.576E-05	2721770	2722183	414 -
CDN75_RS07740	gcvR	0.422	7.743	2.432E-06	2.600E-05	1452060	1452632	573 +
CDN75_RS06355	mqq	0.447	8.458	2.487E-06	2.652E-05	1164053	1165699	1647 -
CDN75_RS07670	nudK	0.512	5.688	2.744E-06	2.919E-05	1435057	1435632	576 -
CDN75_RS14205	emrD	-0.554	5.765	2.805E-06	2.977E-05	2708683	2709867	1185 +

CDN75_RS11340	mtr	0.504	6.028	2.830E-06	2.996E-05	2157995	2159239	1245 -
CDN75_RS04260	htpX	0.467	8.621	2.864E-06	3.024E-05	770334	771215	882 -
CDN75_RS16295	yjcH	-0.785	4.637	2.880E-06	3.034E-05	3139658	3139972	315 -
CDN75_RS04630	yecJ	0.626	5.371	3.052E-06	3.208E-05	845370	845621	252 -
CDN75_RS08380	bamD	0.517	8.791	3.142E-06	3.294E-05	1588300	1589037	738 +
CDN75_RS16540	pmrB	0.566	5.802	3.195E-06	3.342E-05	3186828	3187928	1101 -
CDN75_RS02300	yddM	0.544	5.288	3.217E-06	3.356E-05	409840	410124	285 -
CDN75_RS06510	NA	-0.936	3.922	3.270E-06	3.403E-05	1208596	1208838	243 +
CDN75_RS18780	pdhR	0.422	9.634	3.342E-06	3.471E-05	3619940	3620704	765 +
CDN75_RS18455	rsmA	0.408	8.540	3.444E-06	3.568E-05	3549459	3550280	822 -
CDN75_RS06955	fabB	-0.425	8.368	3.667E-06	3.790E-05	1299330	1300550	1221 -
CDN75_RS14980	rhtB	0.603	5.353	3.814E-06	3.932E-05	2863198	2863818	621 -
CDN75_RS23020	cspH	1.111	3.247	3.981E-06	4.092E-05	4443921	4444133	213 -
CDN75_RS14920	xerC	0.470	7.718	3.988E-06	4.092E-05	2851046	2851942	897 +
CDN75_RS22510	rarA	0.407	7.491	4.128E-06	4.226E-05	4330952	4332295	1344 +
CDN75_RS21525	pxpC	0.447	7.855	4.153E-06	4.242E-05	4135863	4136795	933 +
CDN75_RS14845	NA	0.630	6.533	4.228E-06	4.308E-05	2837270	2837345	76 +
CDN75_RS10110	tkr	-0.459	10.010	4.425E-06	4.498E-05	1931732	1933723	1992 -
CDN75_RS13370	becR	0.735	4.122	4.462E-06	4.526E-05	2549420	2549608	189 -
CDN75_RS05290	hisB	0.444	7.404	4.526E-06	4.580E-05	951331	952398	1068 +
CDN75_RS19040	dgt	0.468	6.423	4.866E-06	4.903E-05	3677085	3678602	1518 +
CDN75_RS16200	tyrB	0.401	8.108	4.868E-06	4.903E-05	3121873	3123066	1194 +
CDN75_RS15525	hslU	-0.459	9.544	4.901E-06	4.925E-05	2975175	2976506	1332 -
CDN75_RS03005	pntA	-0.464	7.640	4.921E-06	4.933E-05	533811	535343	1533 -
CDN75_RS09590	galR	0.609	5.859	5.049E-06	5.047E-05	1828688	1829719	1032 +
CDN75_RS04820	flhF	0.814	4.730	5.057E-06	5.047E-05	871092	872750	1659 +
CDN75_RS18760	nadC	0.469	7.089	5.265E-06	5.242E-05	3615600	3616493	894 -
CDN75_RS02425	ydeP	-0.771	4.039	5.515E-06	5.478E-05	441649	443928	2280 -
CDN75_RS14600	rbsB	-0.575	11.415	5.566E-06	5.516E-05	2791039	2791929	891 +
CDN75_RS15540	cytR	-0.431	7.251	5.587E-06	5.524E-05	2978190	2979215	1026 -
CDN75_RS07100	yfdG	0.493	5.510	5.669E-06	5.594E-05	1326800	1327162	363 +
CDN75_RS23730	lolC	0.412	7.594	5.757E-06	5.667E-05	4569764	4570963	1200 +
CDN75_RS22495	NA	0.508	7.148	6.078E-06	5.970E-05	4325730	4326047	318 +
CDN75_RS14580	kup	-0.516	5.693	6.103E-06	5.980E-05	2786077	2787945	1869 +
CDN75_RS02610	mgtS	1.852	0.938	6.129E-06	5.992E-05	480086	480181	96 +
CDN75_RS18210	thrA	0.431	8.092	6.151E-06	6.000E-05	3498187	3500649	2463 +
CDN75_RS11560	hpf	0.399	7.613	6.475E-06	6.296E-05	2199595	2199882	288 +
CDN75_RS05950	yohJ	0.909	3.643	6.482E-06	6.296E-05	1089682	1090080	399 +
CDN75_RS17720	fimC	1.188	3.311	6.520E-06	6.318E-05	3400502	3401227	726 +
CDN75_RS04270	proQ	0.410	9.190	6.534E-06	6.318E-05	773475	774173	699 -
CDN75_RS06995	smrB	0.533	5.983	6.623E-06	6.390E-05	1307551	1308102	552 +
CDN75_RS15500	glpK	-0.626	11.716	6.947E-06	6.688E-05	2970473	2971981	1509 -
CDN75_RS01160	cysB	0.497	7.831	7.005E-06	6.717E-05	190098	191072	975 +
CDN75_RS00985	mhpR	-0.504	6.013	7.032E-06	6.717E-05	155077	155910	834 -
CDN75_RS14250	NA	-0.862	4.166	7.034E-06	6.717E-05	2716748	2718364	1617 -
CDN75_RS07200	evgA	0.475	7.001	7.040E-06	6.717E-05	1342700	1343314	615 +
CDN75_RS13250	mdtF	-0.531	6.601	7.209E-06	6.863E-05	2513837	2516950	3114 +
CDN75_RS05250	yeeZ	0.437	7.558	7.344E-06	6.964E-05	946167	946991	825 -
CDN75_RS07960	ndk	-0.450	8.890	7.346E-06	6.964E-05	1496587	1497018	432 -
CDN75_RS02305	adhP	0.502	6.055	7.533E-06	7.116E-05	410270	411280	1011 -
CDN75_RS09400	fucP	-0.744	4.123	7.540E-06	7.116E-05	1786324	1787640	1317 +
CDN75_RS22335	artQ	-0.443	7.014	7.666E-06	7.219E-05	4293154	4293870	717 -
CDN75_RS12895	ugpE	-0.719	4.372	7.693E-06	7.229E-05	2442605	2443450	846 -
CDN75_RS01320	puuC	0.595	5.283	7.828E-06	7.341E-05	218986	220473	1488 +
CDN75_RS02660	ydfK	1.306	5.563	8.012E-06	7.497E-05	490512	490745	234 +
CDN75_RS22480	NA	0.467	7.247	8.038E-06	7.505E-05	4324215	4324415	201 +
CDN75_RS14620	yieP	0.422	7.247	8.233E-06	7.671E-05	2795395	2796087	693 -
CDN75_RS20625	NA	0.439	6.413	8.317E-06	7.733E-05	3966599	3967612	1014 -
CDN75_RS13355	becB	0.423	7.318	8.351E-06	7.748E-05	2543691	2546030	2340 -

CDN75_RS06620	arnF	-0.689	4.123	8.381E-06	7.751E-05	1231837	1232223	387 +
CDN75_RS10645	ygiB	0.437	8.423	8.390E-06	7.751E-05	2031830	2032501	672 +
CDN75_RS03570	hemP	0.606	4.819	8.478E-06	7.815E-05	647053	647244	192 +
CDN75_RS17955	lgoR	-0.923	4.104	8.791E-06	8.087E-05	3451135	3452049	915 -
CDN75_RS04870	fliP	1.146	3.448	8.841E-06	8.115E-05	879732	880469	738 +
CDN75_RS22955	appC	-0.707	4.228	8.969E-06	8.215E-05	4430698	4432242	1545 +
CDN75_RS04400	znuA	0.542	6.274	9.011E-06	8.237E-05	800290	801222	933 -
CDN75_RS00480	hemA	0.393	7.911	9.077E-06	8.279E-05	72002	73258	1257 +
CDN75_RS01425	ycjX	-0.572	6.160	9.178E-06	8.354E-05	240360	241757	1398 +
CDN75_RS07475	yfeS	0.722	4.248	9.289E-06	8.437E-05	1396694	1397428	735 +
CDN75_RS09515	recC	0.404	8.359	9.347E-06	8.472E-05	1811149	1814517	3369 -
CDN75_RS02955	ynfM	0.613	8.655	9.877E-06	8.935E-05	527139	528392	1254 +
CDN75_RS13420	dppC	0.817	5.073	1.026E-05	9.265E-05	2557282	2558184	903 -
CDN75_RS19320	yafS	0.516	6.050	1.030E-05	9.277E-05	3732663	3733385	723 +
CDN75_RS18550	thiB	-0.515	5.273	1.054E-05	9.475E-05	3572345	3573328	984 -
CDN75_RS19065	yaeI	0.717	4.997	1.119E-05	1.004E-04	3682105	3682917	813 -
CDN75_RS16225	uvrA	0.418	8.633	1.141E-05	1.022E-04	3125808	3128630	2823 -
CDN75_RS12015	yrdD	0.410	7.330	1.150E-05	1.028E-04	2284842	2285384	543 -
CDN75_RS17525	fecB	0.446	8.815	1.162E-05	1.036E-04	3368828	3369730	903 -
CDN75_RS16095	malK	-0.716	7.236	1.171E-05	1.042E-04	3101543	3102658	1116 +
CDN75_RS05530	dgcE	0.434	6.718	1.177E-05	1.045E-04	1001127	1004444	3318 +
CDN75_RS14035	gmk	0.397	8.519	1.184E-05	1.049E-04	2676189	2676812	624 +
CDN75_RS20315	ybaL	0.399	8.318	1.191E-05	1.053E-04	3903346	3905022	1677 -
CDN75_RS23735	lolD	0.424	7.134	1.276E-05	1.126E-04	4570956	4571657	702 +
CDN75_RS00345	dadX	-0.514	9.168	1.281E-05	1.128E-04	47167	48237	1071 +
CDN75_RS03890	ydjA	0.437	6.761	1.319E-05	1.160E-04	705565	706116	552 -
CDN75_RS13590	avtA	0.397	8.647	1.326E-05	1.163E-04	2593128	2594381	1254 +
CDN75_RS11440	rlmE	0.412	9.028	1.339E-05	1.170E-04	2180457	2181086	630 -
CDN75_RS00390	treA	-0.560	5.084	1.340E-05	1.170E-04	53967	55664	1698 -
CDN75_RS03460	ydiJ	0.396	9.049	1.347E-05	1.174E-04	623069	626125	3057 -
CDN75_RS16885	hflK	0.392	10.212	1.365E-05	1.188E-04	3256684	3257943	1260 +
CDN75_RS12950	rpoH	0.425	10.138	1.395E-05	1.212E-04	2453352	2454206	855 -
CDN75_RS08430	yfiB	0.680	5.057	1.421E-05	1.232E-04	1595779	1596261	483 +
CDN75_RS14265	ibpB	-0.525	6.224	1.424E-05	1.232E-04	2721230	2721658	429 -
CDN75_RS14385	tnaA	-0.522	12.860	1.434E-05	1.238E-04	2743491	2744906	1416 +
CDN75_RS03455	menI	0.488	5.698	1.463E-05	1.261E-04	622662	623072	411 -
CDN75_RS16160	zur	0.592	6.407	1.509E-05	1.297E-04	3114247	3114762	516 -
CDN75_RS06015	folE	0.393	8.125	1.525E-05	1.309E-04	1102042	1102710	669 -
CDN75_RS11995	yrdA	0.454	6.851	1.529E-05	1.309E-04	2282658	2283212	555 +
CDN75_RS15270	yihT	-0.800	4.003	1.535E-05	1.312E-04	2926532	2927410	879 -
CDN75_RS22835	ycbZ	0.400	8.484	1.541E-05	1.315E-04	4409497	4411257	1761 -
CDN75_RS12805	asd	0.363	9.476	1.551E-05	1.321E-04	2427198	2428301	1104 -
CDN75_RS00530	chaA	0.412	7.024	1.557E-05	1.323E-04	79036	80136	1101 -
CDN75_RS16020	lysC	0.390	7.933	1.709E-05	1.449E-04	3086643	3087992	1350 -
CDN75_RS07275	ypdC	0.577	4.982	1.716E-05	1.452E-04	1360075	1360932	858 +
CDN75_RS07405	xapA	-1.669	1.984	1.729E-05	1.461E-04	1382990	1383823	834 -
CDN75_RS23515	flgB	1.069	3.185	1.760E-05	1.484E-04	4525355	4525771	417 +
CDN75_RS12940	panM	0.487	5.861	1.801E-05	1.516E-04	2451407	2451790	384 +
CDN75_RS18765	ampD	0.571	5.843	1.860E-05	1.563E-04	3616581	3617132	552 +
CDN75_RS09735	actS	0.429	5.999	1.923E-05	1.612E-04	1851225	1851980	756 -
CDN75_RS04735	fliC	0.451	6.740	1.961E-05	1.640E-04	859973	861469	1497 -
CDN75_RS18850	hpt	0.400	7.449	1.968E-05	1.643E-04	3639279	3639815	537 +
CDN75_RS03055	fumB	-0.426	10.166	1.971E-05	1.643E-04	544171	545817	1647 -
CDN75_RS04670	NA	0.649	5.085	2.035E-05	1.693E-04	849777	849850	74 -
CDN75_RS19365	yafV	0.533	5.693	2.054E-05	1.706E-04	3737266	3738036	771 -
CDN75_RS05035	amn	0.443	8.077	2.073E-05	1.718E-04	912924	914378	1455 +
CDN75_RS15040	ubiB	0.399	8.373	2.080E-05	1.721E-04	2874985	2876625	1641 +
CDN75_RS13450	eptB	0.447	6.622	2.109E-05	1.741E-04	2562207	2563898	1692 -
CDN75_RS19250	metN	-0.438	6.714	2.123E-05	1.749E-04	3719461	3720492	1032 -

CDN75_RS22285	ybjN	-0.422	6.306	2.136E-05	1.757E-04	4284577	4285053	477 +
CDN75_RS23460	pyrC	-0.385	8.125	2.239E-05	1.838E-04	4515898	4516944	1047 -
CDN75_RS04965	hprS	0.622	5.195	2.310E-05	1.893E-04	894657	896015	1359 -
CDN75_RS04480	torZ	-0.657	4.220	2.329E-05	1.905E-04	813217	815646	2430 -
CDN75_RS13705	yibF	0.427	6.725	2.361E-05	1.927E-04	2614770	2615378	609 -
CDN75_RS03960	msrB	-0.400	6.730	2.376E-05	1.936E-04	719456	719869	414 -
CDN75_RS05295	hisH	0.428	6.253	2.406E-05	1.957E-04	952398	952988	591 +
CDN75_RS04845	fliK	0.984	4.131	2.424E-05	1.968E-04	876249	877376	1128 +
CDN75_RS10245	mutY	0.403	6.904	2.603E-05	2.109E-04	1955101	1956153	1053 +
CDN75_RS15095	yigZ	0.381	7.364	2.639E-05	2.134E-04	2887251	2887865	615 +
CDN75_RS08735	stpA	-0.586	5.224	2.706E-05	2.185E-04	1650243	1650647	405 -
CDN75_RS24040	ynfR	2.369	0.456	2.723E-05	2.194E-04	495628	495693	66 -
CDN75_RS01755	nifJ	-0.461	9.423	2.729E-05	2.195E-04	294702	298226	3525 -
CDN75_RS16385	yjcS	-0.945	3.782	2.748E-05	2.202E-04	3159259	3161244	1986 -
CDN75_RS18770	ampE	0.533	5.843	2.748E-05	2.202E-04	3617129	3617983	855 +
CDN75_RS13385	bcsG	0.471	6.664	2.781E-05	2.225E-04	2551637	2553316	1680 +
CDN75_RS20410	tesA	0.444	6.748	2.841E-05	2.268E-04	3920923	3921546	624 -
CDN75_RS02005	opgD	0.410	6.782	2.887E-05	2.300E-04	354298	355953	1656 +
CDN75_RS00500	sirB1	0.384	7.531	2.975E-05	2.366E-04	75607	76416	810 +
CDN75_RS19475	NA	0.456	5.971	3.080E-05	2.446E-04	3755991	3757199	1209 -
CDN75_RS07585	eutB	0.416	8.442	3.315E-05	2.627E-04	1416263	1417624	1362 -
CDN75_RS05875	yehW	0.519	5.806	3.577E-05	2.830E-04	1074803	1075534	732 -
CDN75_RS23555	flgJ	0.797	4.029	3.702E-05	2.924E-04	4531708	4532649	942 +
CDN75_RS16780	frdA	-0.373	8.056	3.772E-05	2.973E-04	3235156	3236964	1809 -
CDN75_RS13360	bcsA	0.417	7.046	3.890E-05	3.061E-04	2546041	2548659	2619 -
CDN75_RS23015	NA	0.420	8.568	3.930E-05	3.086E-04	4442791	4443488	698 +
CDN75_RS17935	btsT	1.171	8.656	3.949E-05	3.096E-04	3445327	3447477	2151 -
CDN75_RS03970	yeaD	-0.477	5.654	4.015E-05	3.142E-04	721290	722174	885 +
CDN75_RS04355	yebG	0.499	6.065	4.172E-05	3.259E-04	789096	789386	291 -
CDN75_RS13980	radC	0.417	6.685	4.194E-05	3.270E-04	2666651	2667319	669 -
CDN75_RS07665	ypfG	0.494	5.263	4.244E-05	3.300E-04	1433888	1434931	1044 -
CDN75_RS14915	yigA	0.391	7.068	4.247E-05	3.300E-04	2850342	2851049	708 +
CDN75_RS19450	prfH	0.866	3.705	4.290E-05	3.327E-04	3751543	3752049	507 +
CDN75_RS12040	rsmB	0.412	7.579	4.334E-05	3.355E-04	2288629	2289918	1290 +
CDN75_RS08730	ygaP	0.636	4.290	4.420E-05	3.416E-04	1649672	1650196	525 +
CDN75_RS05615	yegQ	-0.459	7.123	4.462E-05	3.442E-04	1023529	1024890	1362 +
CDN75_RS01490	uspE	0.386	8.022	4.535E-05	3.492E-04	253915	254865	951 -
CDN75_RS20880	fepD	0.420	6.529	4.634E-05	3.558E-04	4012805	4013809	1005 -
CDN75_RS10310	sslE	0.383	8.191	4.636E-05	3.558E-04	1966637	1971199	4563 -
CDN75_RS21600	sucA	-0.388	12.662	4.724E-05	3.613E-04	4150326	4153127	2802 +
CDN75_RS11790	aaeR	0.438	6.700	4.725E-05	3.613E-04	2242942	2243871	930 +
CDN75_RS09855	uacT	-1.423	3.161	4.790E-05	3.656E-04	1883456	1884904	1449 +
CDN75_RS23245	pgaA	0.464	5.567	4.800E-05	3.657E-04	4485310	4486446	1137 -
CDN75_RS04940	yedJ	0.626	4.790	4.820E-05	3.666E-04	890247	890942	696 -
CDN75_RS11395	rimP	0.374	7.951	4.852E-05	3.684E-04	2170976	2171428	453 -
CDN75_RS13300	yhjE	0.439	5.749	4.912E-05	3.723E-04	2528209	2529531	1323 +
CDN75_RS06790	yfbR	0.537	4.700	4.946E-05	3.743E-04	1267807	1268406	600 +
CDN75_RS04120	yoaA	0.386	6.740	4.991E-05	3.770E-04	748765	750675	1911 -
CDN75_RS09580	lplT	0.442	5.753	5.047E-05	3.805E-04	1824758	1825951	1194 -
CDN75_RS02975	ydgD	0.404	5.973	5.199E-05	3.913E-04	529400	530221	822 +
CDN75_RS19990	pgpA	0.369	6.968	5.223E-05	3.925E-04	3838373	3838891	519 +
CDN75_RS22185	pdeI	-0.538	5.599	5.407E-05	4.056E-04	4264599	4266947	2349 +
CDN75_RS18450	apaG	0.397	6.799	5.479E-05	4.103E-04	3549079	3549456	378 -
CDN75_RS12020	smg	0.360	7.842	5.601E-05	4.187E-04	2285413	2285886	474 -
CDN75_RS11095	tdcF	1.018	2.769	5.792E-05	4.322E-04	2113144	2113533	390 -
CDN75_RS03335	ribE	0.451	6.113	5.922E-05	4.412E-04	600041	600682	642 -
CDN75_RS19300	yafD	0.352	7.597	6.194E-05	4.607E-04	3728969	3729769	801 +
CDN75_RS15175	polA	0.369	8.867	6.287E-05	4.668E-04	2901725	2904511	2787 +
CDN75_RS04105	fadD	-0.416	6.777	6.365E-05	4.718E-04	745501	747186	1686 -

CDN75_RS22350	ybjP	-0.439	5.985	6.916E-05	5.109E-04	4295572	4296087	516 -
CDN75_RS07135	yfdN	-2.309	0.204	6.917E-05	5.109E-04	1331332	1331826	495 -
CDN75_RS22685	mepK	0.360	7.806	6.934E-05	5.113E-04	4376033	4376581	549 +
CDN75_RS23545	flgH	0.991	3.583	7.002E-05	5.155E-04	4529901	4530599	699 +
CDN75_RS20230	acrR	0.440	5.629	7.419E-05	5.452E-04	3887545	3888192	648 +
CDN75_RS03695	tcyP	-0.654	7.747	7.443E-05	5.452E-04	668374	669765	1392 +
CDN75_RS15495	glpX	-0.451	7.851	7.443E-05	5.452E-04	2969328	2970338	1011 -
CDN75_RS03025	folM	0.437	5.707	7.779E-05	5.689E-04	538416	539138	723 +
CDN75_RS14380	tnaC	-0.662	7.135	8.138E-05	5.941E-04	2743196	2743270	75 +
CDN75_RS10840	dnaG	-0.389	8.870	8.200E-05	5.976E-04	2064530	2066275	1746 +
CDN75_RS03040	rstB	-0.366	7.084	8.231E-05	5.989E-04	540322	541623	1302 +
CDN75_RS11685	nanT	-0.497	6.176	8.269E-05	6.006E-04	2224506	2225996	1491 -
CDN75_RS03985	yeaG	0.363	6.736	8.666E-05	6.284E-04	724348	726282	1935 +
CDN75_RS18465	surA	0.347	9.380	8.689E-05	6.291E-04	3551266	3552552	1287 -
CDN75_RS20175	ybaY	0.398	8.244	8.812E-05	6.369E-04	3877163	3877735	573 +
CDN75_RS01445	ycjG	0.442	6.246	8.899E-05	6.421E-04	245173	246138	966 +
CDN75_RS21565	gltA	-0.410	11.648	9.140E-05	6.584E-04	4144805	4146088	1284 -
CDN75_RS02210	NA	-1.083	2.442	9.356E-05	6.729E-04	388028	389172	1145 +
CDN75_RS16890	hflC	0.360	9.558	9.603E-05	6.895E-04	3257946	3258950	1005 +
CDN75_RS16640	lysS	-0.437	10.343	9.758E-05	6.994E-04	3207847	3209364	1518 -
CDN75_RS07700	dapE	0.415	7.579	9.882E-05	7.071E-04	1443761	1444888	1128 +
CDN75_RS15410	sodA	-0.392	11.879	9.925E-05	7.091E-04	2955569	2956189	621 +
CDN75_RS04660	yecA	0.526	6.526	1.009E-04	7.199E-04	848817	849482	666 -
CDN75_RS08850	NA	0.508	6.050	1.031E-04	7.345E-04	1670210	1670286	77 -
CDN75_RS09075	otnK	-0.539	4.552	1.036E-04	7.369E-04	1714486	1715652	1167 +
CDN75_RS19900	brnQ	0.335	7.723	1.050E-04	7.455E-04	3821375	3822694	1320 +
CDN75_RS11165	garP	-0.706	4.028	1.055E-04	7.479E-04	2126996	2128330	1335 -
CDN75_RS17160	tamB	0.333	8.663	1.063E-04	7.511E-04	3299534	3303313	3780 +
CDN75_RS22630	ycaQ	0.403	5.989	1.063E-04	7.511E-04	4362347	4363579	1233 +
CDN75_RS12835	yhhX	0.339	7.597	1.077E-04	7.597E-04	2433191	2434228	1038 -
CDN75_RS23560	flgK	0.727	4.552	1.112E-04	7.828E-04	4532715	4534358	1644 +
CDN75_RS13290	rcdB	-0.551	4.390	1.118E-04	7.857E-04	2525837	2526736	900 +
CDN75_RS09550	ptsP	0.343	8.763	1.126E-04	7.902E-04	1818277	1820523	2247 -
CDN75_RS00185	yegZ	-0.972	2.992	1.133E-04	7.939E-04	24077	24313	237 +
CDN75_RS01430	ycjF	-0.457	5.471	1.174E-04	8.215E-04	241754	242815	1062 +
CDN75_RS21965	ybhS	-0.421	6.016	1.187E-04	8.287E-04	4217739	4218872	1134 -
CDN75_RS02765	NA	1.205	1.775	1.216E-04	8.478E-04	501746	502024	279 -
CDN75_RS07720	ypfJ	0.341	7.654	1.223E-04	8.512E-04	1448028	1448891	864 -
CDN75_RS21905	moaA	-0.345	7.738	1.254E-04	8.714E-04	4208664	4209653	990 +
CDN75_RS16560	adiY	-1.399	2.333	1.256E-04	8.714E-04	3191815	3192576	762 -
CDN75_RS24555	NA	1.010	2.679	1.283E-04	8.892E-04	3389966	3390097	132 -
CDN75_RS06115	fruB	-0.507	5.334	1.301E-04	8.998E-04	1121423	1122553	1131 -
CDN75_RS00445	yehH	-0.491	5.071	1.311E-04	9.052E-04	67079	67357	279 +
CDN75_RS15865	rsd	0.355	7.305	1.315E-04	9.068E-04	3051091	3051567	477 -
CDN75_RS03030	ydgC	0.543	4.600	1.317E-04	9.069E-04	539135	539470	336 -
CDN75_RS04850	fliL	0.832	4.110	1.333E-04	9.164E-04	877481	877945	465 +
CDN75_RS07970	yfhM	0.339	8.836	1.385E-04	9.503E-04	1499480	1504441	4962 -
CDN75_RS08860	NA	0.521	5.827	1.402E-04	9.606E-04	1670624	1670700	77 -
CDN75_RS15035	ubiJ	0.340	7.750	1.414E-04	9.671E-04	2874383	2874988	606 +
CDN75_RS06400	rcsB	0.351	8.621	1.431E-04	9.776E-04	1175122	1175772	651 +
CDN75_RS10070	epd	-0.404	8.121	1.482E-04	1.011E-03	1924760	1925779	1020 -
CDN75_RS08700	gabT	-0.387	6.549	1.530E-04	1.042E-03	1644887	1646167	1281 +
CDN75_RS09985	fau	0.427	7.078	1.533E-04	1.042E-03	1908275	1908877	603 +
CDN75_RS02235	yddE	0.402	6.000	1.540E-04	1.045E-03	392407	393300	894 -
CDN75_RS00800	NA	-1.551	1.273	1.554E-04	1.053E-03	126310	126606	297 -
CDN75_RS09255	ygcU	-0.970	3.129	1.590E-04	1.076E-03	1750115	1751569	1455 -
CDN75_RS01290	ymjA	0.462	4.942	1.606E-04	1.085E-03	213666	213911	246 -
CDN75_RS10545	ygiS	-0.411	6.579	1.609E-04	1.085E-03	2018197	2019804	1608 -
CDN75_RS15655	argE	0.378	6.956	1.661E-04	1.118E-03	3008455	3009606	1152 -

CDN75_RS13760	mtlD	-0.341	7.153	1.688E-04	1.135E-03	2627847	2628995	1149 +
CDN75_RS15360	frvX	-0.645	4.128	1.709E-04	1.146E-03	2944614	2945684	1071 -
CDN75_RS07900	guaA	0.344	9.185	1.711E-04	1.146E-03	1483112	1484689	1578 -
CDN75_RS00735	NA	-0.450	5.705	1.712E-04	1.146E-03	118639	119832	1194 +
CDN75_RS05300	hisA	0.353	6.659	1.732E-04	1.157E-03	952988	953725	738 +
CDN75_RS22015	ybiJ	0.530	5.157	1.739E-04	1.161E-03	4229285	4229545	261 -
CDN75_RS11755	mdh	-0.353	11.295	1.792E-04	1.194E-03	2236752	2237690	939 -
CDN75_RS16810	asd	0.339	8.245	1.837E-04	1.222E-03	3244038	3245006	969 -
CDN75_RS11555	rpoN	0.329	9.798	1.841E-04	1.223E-03	2198139	2199572	1434 +
CDN75_RS08180	yfhH	0.596	4.311	1.873E-04	1.242E-03	1550913	1551761	849 +
CDN75_RS15530	hslV	-0.380	7.862	1.904E-04	1.261E-03	2976516	2977046	531 -
CDN75_RS08485	recN	0.451	5.453	1.964E-04	1.299E-03	1603949	1605610	1662 +
CDN75_RS21270	miaB	-0.369	8.214	1.981E-04	1.308E-03	4085151	4086575	1425 -
CDN75_RS16455	phnL	-0.645	3.820	2.069E-04	1.364E-03	3171862	3172542	681 -
CDN75_RS22280	rimK	-0.363	6.532	2.084E-04	1.372E-03	4283587	4284489	903 +
CDN75_RS14320	yidA	0.336	7.241	2.096E-04	1.378E-03	2730901	2731713	813 -
CDN75_RS06170	yejE	0.529	5.070	2.104E-04	1.381E-03	1134331	1135356	1026 +
CDN75_RS00730	kch	0.746	3.712	2.152E-04	1.410E-03	116881	118134	1254 -
CDN75_RS12035	fnt	0.342	8.791	2.167E-04	1.418E-03	2287636	2288583	948 +
CDN75_RS14415	adeP	0.346	9.005	2.171E-04	1.419E-03	2750033	2751370	1338 -
CDN75_RS23710	bhsA	0.482	4.772	2.195E-04	1.432E-03	4563410	4563667	258 +
CDN75_RS03295	sodB	0.333	8.324	2.234E-04	1.455E-03	592818	593399	582 +
CDN75_RS08055	hcaR	-0.427	6.250	2.282E-04	1.484E-03	1520160	1521050	891 -
CDN75_RS20740	ybcH	-0.732	3.790	2.288E-04	1.486E-03	3978711	3979601	891 -
CDN75_RS14930	uvrD	0.324	9.149	2.296E-04	1.489E-03	2852742	2854904	2163 +
CDN75_RS01120	rluB	0.389	6.919	2.413E-04	1.562E-03	183095	183970	876 +
CDN75_RS20255	ybaN	0.383	6.063	2.431E-04	1.572E-03	3892666	3893043	378 +
CDN75_RS12350	slyD	0.370	9.655	2.506E-04	1.617E-03	2331329	2331919	591 -
CDN75_RS11170	garD	-0.497	4.836	2.509E-04	1.617E-03	2128705	2130276	1572 +
CDN75_RS18475	djlA	0.369	6.569	2.531E-04	1.628E-03	3555214	3556029	816 +
CDN75_RS03755	nadE	0.374	7.462	2.534E-04	1.628E-03	679898	680725	828 +
CDN75_RS04320	yobA	0.346	7.060	2.541E-04	1.628E-03	783234	783608	375 -
CDN75_RS09505	recB	0.326	8.557	2.541E-04	1.628E-03	1804550	1808092	3543 -
CDN75_RS07840	upp	-0.428	6.602	2.602E-04	1.665E-03	1472400	1473026	627 -
CDN75_RS14835	thrP	0.391	6.892	2.618E-04	1.673E-03	2835647	2837032	1386 +
CDN75_RS18665	ftsW	0.321	7.981	2.640E-04	1.684E-03	3596251	3597495	1245 +
CDN75_RS10525	ygiQ	0.328	7.693	2.717E-04	1.731E-03	2011013	2013232	2220 -
CDN75_RS23040	gnsA	0.924	3.446	2.726E-04	1.733E-03	4445025	4445198	174 +
CDN75_RS03760	cho	0.532	4.631	2.729E-04	1.733E-03	680955	681842	888 +
CDN75_RS22810	pqiA	0.348	6.480	2.753E-04	1.746E-03	4404959	4406212	1254 +
CDN75_RS06520	glpT	-0.553	10.740	2.759E-04	1.747E-03	1209961	1211319	1359 -
CDN75_RS00715	yciU	0.473	4.810	2.768E-04	1.750E-03	114686	115015	330 -
CDN75_RS00665	adhE	-0.333	9.738	2.782E-04	1.757E-03	103733	106408	2676 -
CDN75_RS08455	ffh	0.319	9.171	2.849E-04	1.796E-03	1598588	1599949	1362 -
CDN75_RS19390	dpaA	0.334	7.628	2.881E-04	1.814E-03	3742912	3743652	741 -
CDN75_RS09500	recD	0.320	7.075	2.914E-04	1.832E-03	1802724	1804550	1827 -
CDN75_RS23465	yceB	0.383	5.837	2.931E-04	1.840E-03	4517050	4517610	561 -
CDN75_RS22345	artP	-0.372	7.092	2.939E-04	1.843E-03	4294626	4295354	729 -
CDN75_RS02545	dgcF	0.506	5.032	2.968E-04	1.856E-03	468347	469333	987 -
CDN75_RS10490	metC	0.439	6.374	2.969E-04	1.856E-03	2004322	2005509	1188 +
CDN75_RS23550	flgI	0.948	4.092	3.022E-04	1.886E-03	4530611	4531708	1098 +
CDN75_RS11365	rpsO	0.359	9.452	3.029E-04	1.888E-03	2164837	2165106	270 -
CDN75_RS07480	cysM	0.409	5.914	3.089E-04	1.923E-03	1397617	1398528	912 -
CDN75_RS10950	rlmG	0.411	5.743	3.170E-04	1.970E-03	2088162	2089298	1137 -
CDN75_RS02395	yddB	-0.445	5.946	3.181E-04	1.974E-03	432689	435061	2373 -
CDN75_RS13235	gadE	-0.743	4.048	3.189E-04	1.976E-03	2511789	2512316	528 +
CDN75_RS20860	entF	0.579	8.281	3.213E-04	1.989E-03	4005777	4009658	3882 +
CDN75_RS02355	ddpA	-0.693	3.467	3.274E-04	2.024E-03	418373	419923	1551 -
CDN75_RS17360	lptG	0.323	7.584	3.299E-04	2.036E-03	3342740	3343822	1083 +

CDN75_RS14445	bgIH	-1.038	3.346	3.329E-04	2.050E-03	2755371	2756981	1611 -
CDN75_RS14310	dgoR	-0.578	4.361	3.331E-04	2.050E-03	2729232	2729921	690 -
CDN75_RS23440	solA	0.378	6.683	3.351E-04	2.060E-03	4513805	4514923	1119 -
CDN75_RS11810	yhdE	0.343	7.141	3.395E-04	2.081E-03	2251207	2251800	594 -
CDN75_RS23700	ycfJ	0.364	6.167	3.396E-04	2.081E-03	4561936	4562475	540 +
CDN75_RS13150	rlmJ	0.318	7.493	3.401E-04	2.081E-03	2498808	2499650	843 +
CDN75_RS12685	feoB	-0.453	7.357	3.421E-04	2.091E-03	2393829	2396150	2322 +
CDN75_RS07330	NA	-0.594	4.365	3.542E-04	2.162E-03	1373276	1374388	1113 +
CDN75_RS04205	rlmA	0.373	5.998	3.656E-04	2.228E-03	763691	764500	810 -
CDN75_RS22645	ycbJ	0.480	4.654	3.696E-04	2.249E-03	4364710	4365603	894 +
CDN75_RS16980	ulaR	-0.508	4.565	3.761E-04	2.285E-03	3272344	3273099	756 -
CDN75_RS23250	dgcT	0.632	4.400	3.811E-04	2.313E-03	4487033	4488391	1359 +
CDN75_RS06190	bcr	0.313	7.651	3.909E-04	2.369E-03	1137628	1138818	1191 -
CDN75_RS16435	phnP	-0.480	4.586	3.927E-04	2.376E-03	3168991	3169749	759 -
CDN75_RS21130	mrdB	0.335	6.999	3.949E-04	2.386E-03	4056821	4057933	1113 -
CDN75_RS22785	pyrD	-0.431	6.310	4.009E-04	2.417E-03	4397726	4398736	1011 +
CDN75_RS15200	glnG	0.359	6.930	4.011E-04	2.417E-03	2908628	2910037	1410 -
CDN75_RS20785	cusA	-0.553	4.790	4.074E-04	2.452E-03	3990334	3993477	3144 +
CDN75_RS16875	hfq	0.325	8.784	4.100E-04	2.463E-03	3254934	3255242	309 +
CDN75_RS23210	phoH	0.350	6.467	4.110E-04	2.463E-03	4478226	4479014	789 +
CDN75_RS21720	NA	-0.508	7.733	4.113E-04	2.463E-03	4172989	4173064	76 +
CDN75_RS09070	ltnD	-0.692	3.695	4.116E-04	2.463E-03	1713581	1714489	909 +
CDN75_RS18505	polB	0.402	6.636	4.157E-04	2.484E-03	3561277	3563628	2352 -
CDN75_RS22545	yczM	-0.874	3.235	4.217E-04	2.517E-03	4340187	4341617	1431 +
CDN75_RS21530	pxpA	0.348	7.000	4.250E-04	2.533E-03	4136785	4137519	735 +
CDN75_RS01450	mpaA	0.366	6.067	4.259E-04	2.535E-03	246113	246841	729 -
CDN75_RS14305	dgoK	-0.630	3.877	4.283E-04	2.541E-03	2728357	2729235	879 -
CDN75_RS06765	nuoB	-0.335	9.669	4.286E-04	2.541E-03	1262896	1263558	663 -
CDN75_RS18920	yadL	-1.386	1.655	4.286E-04	2.541E-03	3649474	3650079	606 -
CDN75_RS00625	purU	0.331	7.518	4.330E-04	2.563E-03	96069	96911	843 -
CDN75_RS18335	fkpB	0.327	7.374	4.394E-04	2.597E-03	3523676	3524125	450 +
CDN75_RS07705	ypfN	0.425	5.273	4.410E-04	2.604E-03	1444916	1445116	201 +
CDN75_RS22700	ompF	0.463	11.535	4.442E-04	2.618E-03	4378852	4379940	1089 -
CDN75_RS17460	nanX	-0.648	4.315	4.447E-04	2.618E-03	3359480	3360697	1218 +
CDN75_RS13630	lyxK	-0.740	3.981	4.492E-04	2.641E-03	2600507	2602003	1497 +
CDN75_RS19470	crl	0.351	7.937	4.551E-04	2.672E-03	3755676	3755978	303 +
CDN75_RS15220	typA	0.354	10.729	4.576E-04	2.684E-03	2913166	2914989	1824 +
CDN75_RS13055	rhsB	-0.579	4.675	4.597E-04	2.692E-03	2472615	2476850	4236 +
CDN75_RS04505	argS	-0.360	8.217	4.629E-04	2.707E-03	818701	820434	1734 +
CDN75_RS10850	rpoD	-0.325	10.294	4.656E-04	2.719E-03	2066470	2068311	1842 +
CDN75_RS17910	hsdM	-0.336	7.250	4.687E-04	2.734E-03	3437657	3439246	1590 -
CDN75_RS21500	ybgA	0.512	4.778	4.758E-04	2.772E-03	4130621	4131130	510 +
CDN75_RS23765	potD	-0.316	7.674	4.855E-04	2.824E-03	4576120	4577166	1047 -
CDN75_RS02575	ydeA	0.495	4.614	4.907E-04	2.851E-03	474468	475658	1191 +
CDN75_RS07495	cysT	-0.575	5.481	5.013E-04	2.908E-03	1400624	1401457	834 -
CDN75_RS13240	NA	-0.955	2.241	5.071E-04	2.938E-03	2512317	2512595	279 -
CDN75_RS05245	yeeY	0.551	5.594	5.079E-04	2.939E-03	945192	946121	930 -
CDN75_RS08885	recA	0.394	8.846	5.143E-04	2.972E-03	1674859	1675920	1062 -
CDN75_RS11110	tdcC	0.516	5.301	5.150E-04	2.972E-03	2117109	2118440	1332 -
CDN75_RS07710	ypfH	0.400	5.783	5.178E-04	2.984E-03	1445226	1445924	699 -
CDN75_RS03690	ydjM	0.897	3.077	5.200E-04	2.993E-03	667651	668241	591 +
CDN75_RS16175	dusA	0.339	6.996	5.229E-04	3.006E-03	3116428	3117465	1038 +
CDN75_RS21515	ybgI	0.321	7.658	5.519E-04	3.168E-03	4134447	4135190	744 +
CDN75_RS00810	NA	-0.309	7.531	5.606E-04	3.214E-03	127404	128270	867 -
CDN75_RS14695	ilvM	0.925	2.813	5.649E-04	3.234E-03	2806961	2807224	264 +
CDN75_RS05405	galF	0.360	8.041	5.667E-04	3.240E-03	971296	972189	894 -
CDN75_RS10010	argP	0.403	7.022	5.700E-04	3.255E-03	1911841	1912734	894 +
CDN75_RS11240	agaI	-0.941	2.583	5.744E-04	3.276E-03	2139693	2140448	756 +
CDN75_RS10500	yqhC	-0.455	4.892	5.868E-04	3.342E-03	2006348	2007247	900 -

CDN75_RS16880	hflX	0.318	9.753	5.908E-04	3.360E-03	3255318	3256598	1281 +
CDN75_RS06815	ackA	0.395	9.033	5.947E-04	3.377E-03	1272415	1273617	1203 +
CDN75_RS23060	torR	-0.529	4.376	5.953E-04	3.377E-03	4450220	4450912	693 -
CDN75_RS14295	dgoD	-0.743	3.844	6.049E-04	3.423E-03	2726611	2727759	1149 -
CDN75_RS23140	rutC	-1.467	1.221	6.050E-04	3.423E-03	4464731	4465117	387 -
CDN75_RS08280	yfiE	0.482	4.713	6.261E-04	3.538E-03	1566593	1567474	882 -
CDN75_RS01225	yciZ	0.597	4.451	6.311E-04	3.561E-03	200679	200852	174 -
CDN75_RS13515	NA	0.582	4.358	6.411E-04	3.613E-03	2574103	2575472	1370 +
CDN75_RS02945	mlc	-0.408	5.264	6.490E-04	3.653E-03	524784	526004	1221 -
CDN75_RS12525	yhfX	-0.983	2.804	6.537E-04	3.674E-03	2363235	2364398	1164 -
CDN75_RS15795	rplK	-0.314	11.165	6.594E-04	3.698E-03	3033206	3033634	429 +
CDN75_RS00195	ariR	-1.003	3.399	6.595E-04	3.698E-03	24657	24923	267 +
CDN75_RS06220	yejL	0.356	6.243	6.873E-04	3.846E-03	1143187	1143414	228 +
CDN75_RS02725	rzpQ	1.247	2.266	6.876E-04	3.846E-03	496470	496967	498 -
CDN75_RS17185	ytfQ	-0.503	4.861	6.943E-04	3.878E-03	3305384	3306340	957 +
CDN75_RS06430	atoE	-0.970	2.518	7.137E-04	3.976E-03	1183701	1185023	1323 +
CDN75_RS15235	yihN	-0.933	3.216	7.138E-04	3.976E-03	2917006	2918271	1266 +
CDN75_RS15195	yshB	-0.421	5.703	7.241E-04	4.029E-03	2908406	2908516	111 -
CDN75_RS12500	yhfS	-0.579	4.054	7.283E-04	4.047E-03	2358357	2359442	1086 -
CDN75_RS14465	phoU	0.396	6.942	7.309E-04	4.056E-03	2761614	2762339	726 -
CDN75_RS13260	gadW	0.338	5.981	7.360E-04	4.079E-03	2517313	2518041	729 -
CDN75_RS05520	dcd	0.341	7.317	7.388E-04	4.090E-03	999495	1000076	582 -
CDN75_RS20105	lon	-0.340	10.218	7.448E-04	4.118E-03	3860672	3863026	2355 +
CDN75_RS07980	sseB	-0.336	7.115	7.486E-04	4.133E-03	1506311	1507087	777 -
CDN75_RS12390	prkB	0.340	7.004	7.688E-04	4.240E-03	2337912	2338781	870 +
CDN75_RS12030	def	0.306	7.916	7.714E-04	4.249E-03	2287112	2287621	510 +
CDN75_RS06155	pdeN	0.367	6.395	7.724E-04	4.249E-03	1129784	1131340	1557 +
CDN75_RS20345	ybaP	0.414	6.166	7.804E-04	4.287E-03	3909070	3909864	795 -
CDN75_RS15775	NA	-0.506	7.203	7.844E-04	4.301E-03	3030513	3030585	73 +
CDN75_RS21305	NA	0.745	2.885	7.849E-04	4.301E-03	4088677	4088753	77 -
CDN75_RS12550	gph	-0.374	6.595	7.896E-04	4.321E-03	2367053	2367811	759 -
CDN75_RS03360	ydhR	0.373	5.688	7.931E-04	4.335E-03	604140	604445	306 +
CDN75_RS15210	glnA	0.409	11.208	7.941E-04	4.335E-03	2911384	2912793	1410 -
CDN75_RS07680	narQ	0.384	5.402	8.006E-04	4.365E-03	1437885	1439585	1701 +
CDN75_RS23105	wrbA	-0.475	5.714	8.153E-04	4.440E-03	4460070	4460666	597 -
CDN75_RS16280	yjcE	0.337	6.847	8.171E-04	4.444E-03	3134739	3136388	1650 +
CDN75_RS14850	NA	0.564	4.702	8.235E-04	4.473E-03	2837366	2837451	86 +
CDN75_RS22515	serS	0.304	10.243	8.340E-04	4.525E-03	4332386	4333678	1293 +
CDN75_RS10040	yggE	-0.315	7.553	8.537E-04	4.626E-03	1919428	1920168	741 -
CDN75_RS15180	yihA	0.302	7.181	8.576E-04	4.641E-03	2904892	2905524	633 -
CDN75_RS02615	dgcZ	0.476	4.688	8.641E-04	4.664E-03	480400	481290	891 -
CDN75_RS04350	yebF	0.329	6.243	8.646E-04	4.664E-03	788673	789029	357 -
CDN75_RS13225	hdeA	-0.675	7.805	8.662E-04	4.664E-03	2509831	2510163	333 -
CDN75_RS16250	soxS	0.377	8.140	8.662E-04	4.664E-03	3131819	3132142	324 -
CDN75_RS03450	ydiH	0.558	4.552	8.730E-04	4.695E-03	622374	622562	189 -
CDN75_RS11815	mreD	0.312	6.634	8.799E-04	4.727E-03	2251809	2252297	489 -
CDN75_RS06690	yfbM	-1.343	1.449	8.904E-04	4.777E-03	1245879	1246382	504 +
CDN75_RS14710	ilvA	0.307	6.805	8.958E-04	4.800E-03	2810091	2811635	1545 +
CDN75_RS04860	fliN	0.979	3.106	9.028E-04	4.832E-03	878951	879364	414 +
CDN75_RS01945	ydcF	-0.384	5.404	9.114E-04	4.872E-03	344677	345477	801 +
CDN75_RS15280	yihV	-0.624	3.814	9.142E-04	4.880E-03	2928498	2929394	897 +
CDN75_RS00720	cls	0.307	7.467	9.153E-04	4.880E-03	115050	116510	1461 -
CDN75_RS18340	ispH	0.298	8.309	9.176E-04	4.887E-03	3524127	3525077	951 +
CDN75_RS13000	yhhQ	-0.477	4.504	9.265E-04	4.924E-03	2462640	2463305	666 +
CDN75_RS14375	mnmE	-0.300	7.824	9.269E-04	4.924E-03	2741589	2742953	1365 +
CDN75_RS13075	yhhJ	-0.359	6.742	9.344E-04	4.958E-03	2479102	2480226	1125 -
CDN75_RS14095	setC	-1.005	2.827	9.416E-04	4.990E-03	2691714	2692898	1185 +
CDN75_RS00285	pliG	-0.664	3.784	9.522E-04	5.040E-03	35359	35760	402 -
CDN75_RS22240	ybjI	0.420	5.286	9.621E-04	5.086E-03	4276936	4277751	816 -

CDN75_RS05515	asmA	0.338	7.929	9.640E-04	5.091E-03	997620	999473	1854 -
CDN75_RS13265	gadX	0.333	6.888	9.656E-04	5.093E-03	2518409	2519233	825 -
CDN75_RS16775	frdB	-0.355	6.620	9.751E-04	5.136E-03	3234429	3235163	735 -
CDN75_RS22095	opgE	0.373	6.811	9.767E-04	5.138E-03	4242634	4244217	1584 -
CDN75_RS09385	xni	-0.401	5.156	9.901E-04	5.203E-03	1783144	1783899	756 +
CDN75_RS18220	thrC	0.321	7.402	9.930E-04	5.212E-03	3501584	3502870	1287 +
CDN75_RS16745	ecnB	0.524	4.225	9.943E-04	5.212E-03	3231199	3231345	147 +
CDN75_RS13010	yhhS	0.314	8.281	9.999E-04	5.233E-03	2463939	2465156	1218 -
CDN75_RS15265	yihS	-0.504	4.943	1.001E-03	5.233E-03	2925274	2926515	1242 -
CDN75_RS19725	hemB	-0.356	8.001	1.025E-03	5.355E-03	3791260	3792234	975 -
CDN75_RS05960	cdd	-0.371	6.123	1.027E-03	5.360E-03	1090902	1091786	885 +
CDN75_RS10120	speB	0.304	7.094	1.040E-03	5.418E-03	1934965	1935885	921 -
CDN75_RS20365	glsA	-0.901	3.285	1.044E-03	5.434E-03	3913425	3914357	933 +
CDN75_RS14290	dgoT	-0.613	4.380	1.061E-03	5.513E-03	2725199	2726536	1338 -
CDN75_RS09540	thyA	0.287	8.093	1.062E-03	5.516E-03	1816450	1817244	795 -
CDN75_RS12440	tsgA	0.494	5.946	1.073E-03	5.565E-03	2345990	2347171	1182 +
CDN75_RS10000	rpiA	-0.299	7.551	1.079E-03	5.582E-03	1910754	1911413	660 -
CDN75_RS05385	rfbA	0.288	7.966	1.080E-03	5.582E-03	968001	968882	882 -
CDN75_RS17385	idnD	-0.886	2.848	1.080E-03	5.582E-03	3348797	3349828	1032 -
CDN75_RS06135	yeiQ	-0.418	5.154	1.086E-03	5.605E-03	1125303	1126769	1467 +
CDN75_RS08480	nadK	0.325	6.299	1.089E-03	5.612E-03	1602985	1603863	879 +
CDN75_RS22225	ybjG	-0.452	5.737	1.096E-03	5.646E-03	4274412	4275008	597 -
CDN75_RS22140	ybiY	-0.996	2.379	1.113E-03	5.723E-03	4254232	4255131	900 -
CDN75_RS07435	zipA	0.292	9.177	1.123E-03	5.770E-03	1389192	1390178	987 -
CDN75_RS00630	ychJ	0.372	5.875	1.139E-03	5.844E-03	96961	97419	459 -
CDN75_RS16520	crfC	0.507	5.362	1.147E-03	5.880E-03	3181782	3184010	2229 +
CDN75_RS16690	dcuA	-0.347	8.814	1.150E-03	5.886E-03	3220119	3221419	1301 -
CDN75_RS09150	cysD	-0.665	5.690	1.159E-03	5.926E-03	1727572	1728480	909 -
CDN75_RS18345	rihC	-0.407	6.910	1.170E-03	5.974E-03	3525143	3526057	915 +
CDN75_RS11510	mldD	0.316	7.202	1.172E-03	5.978E-03	2191332	2191883	552 -
CDN75_RS18945	folK	-0.381	5.422	1.180E-03	6.012E-03	3655101	3655580	480 -
CDN75_RS06165	yejB	0.441	5.000	1.197E-03	6.089E-03	1133237	1134331	1095 +
CDN75_RS21210	hscC	-0.637	3.649	1.198E-03	6.089E-03	4073343	4075013	1671 -
CDN75_RS08855	NA	0.452	6.388	1.203E-03	6.107E-03	1670349	1670425	77 -
CDN75_RS18950	pcnB	-0.340	9.086	1.208E-03	6.127E-03	3655577	3656974	1398 -
CDN75_RS02140	mnaT	0.486	5.418	1.226E-03	6.210E-03	375770	376288	519 -
CDN75_RS19290	dkgB	-0.453	4.478	1.229E-03	6.213E-03	3727014	3727817	804 +
CDN75_RS15915	zraR	-0.360	5.854	1.231E-03	6.213E-03	3058079	3059404	1326 +
CDN75_RS23365	clsC	0.383	5.967	1.231E-03	6.213E-03	4500632	4502113	1482 +
CDN75_RS12830	yhhW	0.350	5.837	1.233E-03	6.216E-03	2432373	2433068	696 -
CDN75_RS21790	modF	0.358	6.723	1.245E-03	6.268E-03	4183936	4185408	1473 -
CDN75_RS02050	insQ	0.334	6.020	1.246E-03	6.268E-03	361099	362307	1209 +
CDN75_RS08995	hycE	-0.585	3.904	1.252E-03	6.288E-03	1696913	1698622	1710 -
CDN75_RS24255	NA	-1.748	0.497	1.255E-03	6.299E-03	1331823	1332530	708 -
CDN75_RS11740	zapG	0.288	8.357	1.262E-03	6.324E-03	2233613	2234011	399 +
CDN75_RS24860	NA	-1.521	0.566	1.270E-03	6.361E-03	4603081	4603594	514 +
CDN75_RS09585	aas	0.304	6.675	1.275E-03	6.376E-03	1825944	1828103	2160 -
CDN75_RS05310	hisIE	0.316	6.774	1.284E-03	6.412E-03	954477	955088	612 +
CDN75_RS22110	ybiR	-0.456	4.366	1.288E-03	6.428E-03	4245267	4246385	1119 +
CDN75_RS04140	pabB	-0.413	5.586	1.312E-03	6.538E-03	752245	753606	1362 +
CDN75_RS10655	ygiD	0.461	4.952	1.316E-03	6.553E-03	2033705	2034493	789 -
CDN75_RS21845	ybhI	-1.258	2.095	1.319E-03	6.559E-03	4193507	4194940	1434 +
CDN75_RS07380	NA	1.227	1.320	1.367E-03	6.778E-03	1380198	1380273	76 +
CDN75_RS15300	dtd	0.355	6.041	1.368E-03	6.778E-03	2931774	2932211	438 +
CDN75_RS23205	efeB	-0.427	7.257	1.368E-03	6.778E-03	4476334	4477605	1272 +
CDN75_RS03790	astA	-0.396	5.635	1.372E-03	6.788E-03	687171	688205	1035 -
CDN75_RS07000	yfcO	0.415	5.483	1.373E-03	6.788E-03	1308173	1308994	822 -
CDN75_RS11840	csrD	0.282	7.491	1.380E-03	6.814E-03	2254814	2256754	1941 -
CDN75_RS03590	btuD	0.318	6.336	1.381E-03	6.815E-03	650249	650998	750 -

CDN75_RS05330	wbbL	0.331	5.966	1.390E-03	6.845E-03	959259	959612	354 -
CDN75_RS11805	rng	0.296	8.496	1.391E-03	6.845E-03	2249748	2251217	1470 -
CDN75_RS03680	yniB	0.361	5.774	1.397E-03	6.866E-03	666137	666673	537 -
CDN75_RS16790	yjeM	-0.489	4.367	1.425E-03	6.989E-03	3238485	3239987	1503 +
CDN75_RS04280	yebS	0.375	5.878	1.426E-03	6.989E-03	774897	776180	1284 +
CDN75_RS01335	pspF	0.534	4.675	1.426E-03	6.989E-03	223178	224155	978 -
CDN75_RS20405	ybbO	0.300	7.057	1.428E-03	6.991E-03	3920124	3920933	810 -
CDN75_RS18960	dksA	-0.313	8.400	1.433E-03	7.006E-03	3657997	3658452	456 -
CDN75_RS23660	fluE	0.489	6.622	1.435E-03	7.008E-03	4553699	4555888	2190 -
CDN75_RS23145	rutB	-1.043	2.285	1.443E-03	7.039E-03	4465129	4465821	693 -
CDN75_RS18405	fixA	-1.075	1.974	1.450E-03	7.064E-03	3540253	3541023	771 +
CDN75_RS19755	ampH	-0.402	5.629	1.461E-03	7.108E-03	3797637	3798794	1158 -
CDN75_RS16815	rsgA	0.293	8.699	1.467E-03	7.130E-03	3245103	3246155	1053 -
CDN75_RS22190	dgcI	-0.409	5.071	1.477E-03	7.174E-03	4266955	4268283	1329 +
CDN75_RS07820	bepA	0.305	7.419	1.484E-03	7.196E-03	1468248	1469711	1464 +
CDN75_RS09545	lgt	0.292	7.837	1.485E-03	7.196E-03	1817251	1818126	876 -
CDN75_RS08370	yfiH	0.347	6.605	1.494E-03	7.231E-03	1586457	1587188	732 -
CDN75_RS09955	ubiH	0.286	8.463	1.501E-03	7.258E-03	1904428	1905606	1179 -
CDN75_RS18425	yaaU	-0.932	3.091	1.511E-03	7.296E-03	3543657	3544988	1332 +
CDN75_RS02930	dmsD	0.448	5.413	1.553E-03	7.489E-03	521946	522560	615 +
CDN75_RS20810	ybdJ	0.475	4.472	1.554E-03	7.489E-03	3997571	3997819	249 -
CDN75_RS01905	pdxI	-0.704	3.550	1.564E-03	7.526E-03	331663	332523	861 +
CDN75_RS08570	yfjQ	-0.843	2.717	1.579E-03	7.592E-03	1620818	1621639	822 +
CDN75_RS03505	ydiF	-1.075	2.380	1.584E-03	7.609E-03	633027	634622	1596 +
CDN75_RS24840	NA	-1.575	0.361	1.594E-03	7.642E-03	3775132	3775212	81 +
CDN75_RS13210	dctR	-0.893	2.776	1.595E-03	7.642E-03	2508106	2508636	531 +
CDN75_RS02490	lsrA	-0.751	3.075	1.623E-03	7.766E-03	458930	460465	1536 +
CDN75_RS05315	wzzB	0.314	8.050	1.637E-03	7.827E-03	955184	956164	981 -
CDN75_RS21400	NA	0.756	2.912	1.666E-03	7.956E-03	4107032	4107526	495 +
CDN75_RS10095	yggP	-1.037	2.675	1.699E-03	8.104E-03	1928267	1929544	1278 -
CDN75_RS22100	mntS	0.408	8.435	1.729E-03	8.241E-03	4244489	4244617	129 -
CDN75_RS14780	wzzE	0.279	7.651	1.732E-03	8.243E-03	2823791	2824837	1047 +
CDN75_RS22410	ybjD	-0.299	6.624	1.736E-03	8.255E-03	4308093	4309751	1659 +
CDN75_RS07735	dapA	0.279	9.424	1.745E-03	8.289E-03	1451036	1451914	879 -
CDN75_RS14450	bglB	-0.919	3.186	1.759E-03	8.345E-03	2757050	2758462	1413 -
CDN75_RS01860	paaK	-0.409	5.311	1.772E-03	8.399E-03	319567	320880	1314 +
CDN75_RS11800	yhdP	0.271	8.477	1.859E-03	8.802E-03	2245880	2249680	3801 -
CDN75_RS18290	nhaA	0.288	7.207	1.883E-03	8.906E-03	3515339	3516505	1167 +
CDN75_RS00990	mhpA	-0.811	2.944	1.905E-03	8.998E-03	156101	157765	1665 +
CDN75_RS24240	NA	-1.956	-0.177	1.928E-03	9.089E-03	125785	125943	159 -
CDN75_RS19630	mhpF	-0.765	2.844	1.928E-03	9.089E-03	3775428	3776378	951 +
CDN75_RS06160	yejA	0.353	5.922	1.931E-03	9.091E-03	1131422	1133236	1815 +
CDN75_RS09055	mutS	-0.272	7.810	1.944E-03	9.137E-03	1709244	1711805	2562 +
CDN75_RS12405	crp	0.298	9.865	1.945E-03	9.137E-03	2339542	2340174	633 +
CDN75_RS18215	thrB	0.296	7.059	1.961E-03	9.200E-03	3500651	3501583	933 +
CDN75_RS23750	cobB	0.307	6.849	1.965E-03	9.200E-03	4573857	4574696	840 +
CDN75_RS17845	yjiN	0.405	5.371	1.967E-03	9.200E-03	3422164	3423444	1281 -
CDN75_RS12520	yhfW	-0.655	3.396	1.968E-03	9.200E-03	2362009	2363235	1227 -
CDN75_RS06770	nuoA	-0.288	9.374	1.970E-03	9.200E-03	1263574	1264017	444 -
CDN75_RS04040	dgcP	0.347	6.483	1.971E-03	9.200E-03	735155	736180	1026 +
CDN75_RS18710	secA	0.276	9.884	1.977E-03	9.220E-03	3606127	3608832	2706 +
CDN75_RS12720	gntT	-0.320	5.872	1.992E-03	9.270E-03	2399981	2401297	1317 +
CDN75_RS10505	yqhD	-0.315	7.155	1.992E-03	9.270E-03	2007441	2008604	1164 +
CDN75_RS07865	ppx	0.273	7.853	1.997E-03	9.282E-03	1477269	1478810	1542 +
CDN75_RS04690	uvrY	0.312	7.022	2.006E-03	9.315E-03	852566	853222	657 -
CDN75_RS13230	hdeD	-0.379	6.026	2.008E-03	9.315E-03	2510418	2510990	573 +
CDN75_RS07470	yfeK	0.837	2.507	2.019E-03	9.353E-03	1396287	1396661	375 +
CDN75_RS24000	ymiC	1.847	0.156	2.047E-03	9.476E-03	191815	191910	96 +
CDN75_RS14410	yieF	0.315	6.108	2.064E-03	9.543E-03	2749413	2749979	567 +

CDN75_RS18545	thiP	-0.372	5.228	2.069E-03	9.556E-03	3570759	3572369	1611 -
CDN75_RS14065	xanP	-0.441	9.929	2.080E-03	9.597E-03	2683706	2685097	1392 +
CDN75_RS03600	btuC	0.322	6.064	2.097E-03	9.666E-03	651612	652592	981 -
CDN75_RS13660	yiaT	-1.159	2.450	2.106E-03	9.698E-03	2604551	2605291	741 -
CDN75_RS04330	yobB	0.442	4.421	2.118E-03	9.740E-03	784079	784735	657 +
CDN75_RS03675	yniA	0.309	6.328	2.127E-03	9.773E-03	665236	666096	861 +
CDN75_RS24685	ytiD	-1.019	1.976	2.136E-03	9.805E-03	3412852	3412995	144 +
CDN75_RS08515	intA	0.276	7.045	2.146E-03	9.840E-03	1608313	1609554	1242 +
CDN75_RS20545	purK	-0.320	9.556	2.158E-03	9.883E-03	3953311	3954378	1068 -
CDN75_RS20465	allA	-0.836	2.423	2.161E-03	9.888E-03	3934235	3934717	483 +
CDN75_RS10870	nfeR	-0.320	6.456	2.189E-03	1.001E-02	2070202	2070825	624 +
CDN75_RS14800	rfaA	0.310	7.250	2.193E-03	1.001E-02	2828368	2829249	882 +
CDN75_RS22625	lpxK	0.289	7.213	2.215E-03	1.010E-02	4361324	4362310	987 +
CDN75_RS15090	pepQ	0.273	9.506	2.217E-03	1.010E-02	2885920	2887251	1332 +
CDN75_RS04385	pyk	-0.300	8.605	2.221E-03	1.011E-02	796288	797730	1443 +
CDN75_RS06560	rhmD	-0.747	2.812	2.264E-03	1.029E-02	1219154	1220359	1206 -
CDN75_RS23840	ymfD	-0.800	2.493	2.272E-03	1.032E-02	4591204	4591869	666 -
CDN75_RS19595	NA	0.394	5.075	2.274E-03	1.032E-02	3770350	3771501	1152 +
CDN75_RS22025	ybiX	0.619	4.558	2.283E-03	1.035E-02	4230150	4230827	678 -
CDN75_RS16915	rlmB	0.307	6.667	2.287E-03	1.035E-02	3263921	3264652	732 +
CDN75_RS02390	pqqL	-0.353	6.052	2.295E-03	1.038E-02	429849	432632	2784 -
CDN75_RS22995	gfcC	-0.948	2.655	2.311E-03	1.044E-02	4440903	4441649	747 -
CDN75_RS21225	gltK	0.378	5.129	2.330E-03	1.052E-02	4076875	4077549	675 -
CDN75_RS07965	pbpC	0.353	6.247	2.335E-03	1.053E-02	1497167	1499479	2313 -
CDN75_RS08910	srIB	0.695	5.984	2.408E-03	1.084E-02	1679513	1679884	372 +
CDN75_RS23810	purB	-0.286	9.537	2.414E-03	1.086E-02	4584953	4586323	1371 -
CDN75_RS20370	ybaT	-0.521	4.727	2.448E-03	1.100E-02	3914360	3915652	1293 +
CDN75_RS24375	yecV	1.746	-0.137	2.472E-03	1.110E-02	820476	820520	45 -
CDN75_RS18835	yacC	0.296	7.081	2.491E-03	1.118E-02	3634418	3634765	348 -
CDN75_RS02985	mdtJ	0.757	3.230	2.516E-03	1.128E-02	530576	530941	366 -
CDN75_RS08095	yphC	-0.505	4.061	2.546E-03	1.139E-02	1526854	1527948	1095 -
CDN75_RS21005	rna	0.301	6.814	2.548E-03	1.139E-02	4035817	4036623	807 -
CDN75_RS21215	rihA	-0.325	6.908	2.590E-03	1.157E-02	4075097	4076032	936 -
CDN75_RS23005	gfcA	0.553	3.596	2.603E-03	1.161E-02	4442397	4442702	306 -
CDN75_RS13995	slmA	-0.298	7.265	2.648E-03	1.181E-02	2669254	2669850	597 +
CDN75_RS08640	ypjA	-0.496	5.608	2.652E-03	1.181E-02	1630299	1634879	4581 -
CDN75_RS01970	cybB	0.322	6.070	2.699E-03	1.201E-02	348344	348874	531 +
CDN75_RS14235	yidK	-0.719	3.733	2.708E-03	1.204E-02	2713162	2714877	1716 -
CDN75_RS04730	fliA	0.605	3.764	2.748E-03	1.220E-02	858933	859652	720 -
CDN75_RS18410	fixB	-0.974	2.181	2.779E-03	1.232E-02	3541038	3541979	942 +
CDN75_RS03220	slyB	-0.290	8.993	2.834E-03	1.255E-02	577316	577783	468 +
CDN75_RS07580	eutC	-0.469	4.073	2.839E-03	1.257E-02	1415355	1416242	888 -
CDN75_RS07745	bcp	0.268	8.341	2.843E-03	1.257E-02	1452632	1453102	471 +
CDN75_RS01940	hrpA	0.265	8.345	2.845E-03	1.257E-02	340503	344405	3903 +
CDN75_RS19865	rdgC	-0.375	5.933	2.856E-03	1.260E-02	3810892	3811803	912 -
CDN75_RS18200	yjtD	0.420	5.360	2.870E-03	1.265E-02	3497140	3497826	687 +
CDN75_RS07340	NA	0.728	2.751	2.878E-03	1.267E-02	1376986	1377061	76 -
CDN75_RS11665	yhcG	0.437	4.482	2.884E-03	1.269E-02	2221249	2222376	1128 +
CDN75_RS00935	NA	-0.551	3.652	2.892E-03	1.271E-02	142789	144381	1593 +
CDN75_RS10885	ygiG	0.310	5.921	2.905E-03	1.275E-02	2072917	2074296	1380 +
CDN75_RS09795	yqcC	-0.763	2.563	2.920E-03	1.281E-02	1866376	1867146	771 -
CDN75_RS00460	prs	-0.281	10.014	2.936E-03	1.286E-02	69216	70163	948 -
CDN75_RS04765	yedD	0.330	6.291	2.938E-03	1.286E-02	865540	865953	414 -
CDN75_RS16360	fdhF	-0.351	6.079	2.948E-03	1.289E-02	3151866	3154013	2148 -
CDN75_RS00640	rssB	0.301	6.015	2.976E-03	1.300E-02	98529	99542	1014 +
CDN75_RS20585	folD	0.272	8.038	2.989E-03	1.304E-02	3958659	3959525	867 -
CDN75_RS20605	fimH	-0.996	1.965	2.999E-03	1.308E-02	3964126	3965103	978 +
CDN75_RS23045	yccM	0.712	3.988	3.005E-03	1.309E-02	4445247	4446320	1074 -
CDN75_RS15520	menA	-0.362	5.302	3.020E-03	1.314E-02	2974182	2975108	927 -

CDN75_RS18280	NA	-0.543	3.926	3.033E-03	1.318E-02	3513295	3514407	1113 +
CDN75_RS22175	gsiC	0.351	5.515	3.054E-03	1.326E-02	4262587	4263507	921 +
CDN75_RS16490	phnE	-0.836	3.222	3.070E-03	1.332E-02	3177090	3177877	788 -
CDN75_RS02585	marR	-0.361	5.061	3.088E-03	1.338E-02	476560	476994	435 +
CDN75_RS13775	yibL	0.336	6.217	3.099E-03	1.342E-02	2630088	2630450	363 +
CDN75_RS10780	cca	0.285	7.816	3.121E-03	1.350E-02	2055315	2056553	1239 +
CDN75_RS14080	yicJ	-0.653	3.823	3.132E-03	1.353E-02	2689308	2690690	1383 -
CDN75_RS04880	fliR	0.769	3.123	3.158E-03	1.363E-02	880756	881541	786 +
CDN75_RS13365	bcsQ	0.337	5.503	3.162E-03	1.363E-02	2548656	2549384	729 -
CDN75_RS07175	dsdC	-0.547	3.692	3.179E-03	1.369E-02	1335639	1336574	936 -
CDN75_RS21430	kdpE	-0.416	4.395	3.247E-03	1.397E-02	4112676	4113353	678 -
CDN75_RS07355	yfeD	0.410	5.129	3.257E-03	1.400E-02	1377758	1378150	393 +
CDN75_RS07985	pepB	-0.265	8.487	3.277E-03	1.407E-02	1507229	1508512	1284 -
CDN75_RS07045	fadI	-0.330	6.778	3.279E-03	1.407E-02	1318104	1319414	1311 -
CDN75_RS09080	ygbL	-0.577	3.413	3.317E-03	1.422E-02	1715744	1716382	639 +
CDN75_RS06415	atoC	-0.486	4.522	3.342E-03	1.431E-02	1180811	1182196	1386 +
CDN75_RS17060	ytfB	0.277	6.753	3.345E-03	1.431E-02	3282725	3283363	639 -
CDN75_RS22160	iaaA	-0.274	7.477	3.350E-03	1.432E-02	4258188	4259153	966 +
CDN75_RS04975	hiuH	-0.697	2.868	3.423E-03	1.461E-02	896819	897232	414 +
CDN75_RS16255	soxR	-0.538	3.725	3.451E-03	1.472E-02	3132228	3132692	465 +
CDN75_RS20205	maa	0.303	6.440	3.486E-03	1.486E-02	3881151	3881702	552 -
CDN75_RS13605	yiaK	-0.879	3.123	3.491E-03	1.486E-02	2596156	2597154	999 +
CDN75_RS20490	allW	-1.069	2.540	3.535E-03	1.504E-02	3939417	3940871	1455 +
CDN75_RS02375	digH	-0.388	4.631	3.587E-03	1.524E-02	424946	426265	1320 -
CDN75_RS01880	NA	-0.519	4.120	3.627E-03	1.539E-02	322834	325359	2526 +
CDN75_RS24405	tdcR	-1.646	0.023	3.655E-03	1.550E-02	2120803	2121021	219 +
CDN75_RS11520	mlaF	0.267	8.406	3.663E-03	1.551E-02	2192678	2193487	810 -
CDN75_RS10930	fadH	-0.430	6.292	3.666E-03	1.551E-02	2085088	2087106	2019 +
CDN75_RS08265	nadB	0.495	4.953	3.678E-03	1.555E-02	1562574	1564196	1623 +
CDN75_RS07630	eutT	-0.855	2.415	3.704E-03	1.565E-02	1425657	1426460	804 -
CDN75_RS12355	yheV	0.416	4.535	3.709E-03	1.565E-02	2332014	2332214	201 -
CDN75_RS13510	hokA	0.602	3.344	3.765E-03	1.587E-02	2573871	2574023	153 -
CDN75_RS13220	hdeB	-0.663	6.770	3.778E-03	1.591E-02	2509389	2509715	327 -
CDN75_RS20485	glxR	-0.966	2.030	3.798E-03	1.598E-02	3938370	3939248	879 +
CDN75_RS10305	pppA	0.393	4.681	3.842E-03	1.615E-02	1965630	1966439	810 -
CDN75_RS14315	yidX	0.389	4.703	3.853E-03	1.618E-02	2730199	2730855	657 +
CDN75_RS04520	flhA	0.525	4.771	3.880E-03	1.628E-02	821611	823689	2079 -
CDN75_RS17280	pyrB	-0.336	5.638	3.901E-03	1.635E-02	3326882	3327817	936 -
CDN75_RS05235	plaP	-0.307	7.013	3.931E-03	1.646E-02	943567	944925	1359 -
CDN75_RS13565	xylG	-0.613	4.013	3.972E-03	1.662E-02	2585624	2587165	1542 +
CDN75_RS23340	csgB	-1.330	0.818	3.989E-03	1.667E-02	4498288	4498743	456 +
CDN75_RS09755	xdhC	-0.728	2.681	4.052E-03	1.692E-02	1855578	1856057	480 +
CDN75_RS12215	gspA	-0.593	3.687	4.060E-03	1.694E-02	2307351	2308820	1470 -
CDN75_RS16805	mscM	0.251	7.784	4.080E-03	1.700E-02	3240693	3244016	3324 -
CDN75_RS21540	abrB	0.311	5.882	4.090E-03	1.703E-02	4138343	4139389	1047 -
CDN75_RS12915	livG	0.582	3.576	4.096E-03	1.704E-02	2446862	2447629	768 -
CDN75_RS21445	kdpB	-0.379	4.779	4.136E-03	1.719E-02	4116608	4118656	2049 -
CDN75_RS10100	cmtA	-1.014	2.963	4.163E-03	1.728E-02	1929559	1930947	1389 -
CDN75_RS03165	rsxE	0.316	5.791	4.198E-03	1.741E-02	568268	568963	696 +
CDN75_RS16990	ulaA	-0.695	3.317	4.202E-03	1.741E-02	3274626	3276023	1398 +
CDN75_RS02450	NA	-1.326	0.634	4.223E-03	1.748E-02	447776	447984	209 -
CDN75_RS15800	rplA	-0.289	12.085	4.240E-03	1.754E-02	3033638	3034342	705 +
CDN75_RS08915	srlD	0.633	7.709	4.257E-03	1.759E-02	1679888	1680667	780 +
CDN75_RS03365	ydhS	0.383	4.917	4.263E-03	1.760E-02	604571	606175	1605 +
CDN75_RS07760	hyfC	-1.116	1.826	4.288E-03	1.768E-02	1456001	1456948	948 +
CDN75_RS10385	pitB	-0.724	3.067	4.395E-03	1.811E-02	1986958	1988457	1500 -
CDN75_RS10355	yghO	-0.391	5.382	4.406E-03	1.814E-02	1981129	1982265	1137 -
CDN75_RS24330	NA	-1.045	1.727	4.411E-03	1.814E-02	3973280	3973717	438 +
CDN75_RS08020	iscS	0.259	10.377	4.483E-03	1.840E-02	1512471	1513685	1215 -

CDN75_RS16150	dinF	0.339	5.117	4.483E-03	1.840E-02	3112555	3113880	1326 +
CDN75_RS04430	yebB	-0.874	2.015	4.495E-03	1.842E-02	804890	805492	603 +
CDN75_RS09775	ygeY	-0.550	3.491	4.497E-03	1.842E-02	1860853	1862064	1212 +
CDN75_RS04340	ptrB	0.283	6.207	4.522E-03	1.851E-02	785418	787478	2061 -
CDN75_RS05435	cpsG	-0.704	3.004	4.549E-03	1.860E-02	979471	980841	1371 -
CDN75_RS08905	srlE	0.673	7.078	4.561E-03	1.863E-02	1678543	1679502	960 +
CDN75_RS23565	flgL	0.419	4.630	4.573E-03	1.867E-02	4534370	4535323	954 +
CDN75_RS00980	lacI	-0.329	6.257	4.580E-03	1.868E-02	153918	155000	1083 -
CDN75_RS19685	NA	-1.704	-0.050	4.602E-03	1.875E-02	3785095	3785358	264 -
CDN75_RS09950	ubiI	0.260	7.768	4.610E-03	1.876E-02	1903203	1904405	1203 -
CDN75_RS22470	trxB	-0.277	8.381	4.625E-03	1.881E-02	4322705	4323670	966 -
CDN75_RS00815	NA	-0.310	7.109	4.634E-03	1.883E-02	128407	129117	711 -
CDN75_RS06840	yfcF	0.372	5.087	4.647E-03	1.886E-02	1278786	1279430	645 -
CDN75_RS01975	NA	0.480	4.006	4.728E-03	1.917E-02	349119	349292	174 +
CDN75_RS09085	ygbM	-0.559	3.420	4.790E-03	1.940E-02	1716387	1717163	777 +
CDN75_RS18630	rsmH	-0.257	7.528	4.816E-03	1.949E-02	3587942	3588883	942 +
CDN75_RS11675	nanK	-0.365	5.577	4.819E-03	1.949E-02	2222897	2223772	876 -
CDN75_RS10475	exbD	0.323	8.105	4.850E-03	1.959E-02	2002904	2003329	426 -
CDN75_RS09450	csdE	0.306	6.061	4.886E-03	1.968E-02	1796631	1797074	444 +
CDN75_RS11515	mIaE	0.282	7.881	4.889E-03	1.968E-02	2191888	2192670	783 -
CDN75_RS13550	xylB	-0.606	3.876	4.893E-03	1.968E-02	2581340	2582794	1455 -
CDN75_RS12545	trpS	-0.348	6.935	4.893E-03	1.968E-02	2366056	2367060	1005 -
CDN75_RS07520	murQ	-0.446	4.300	4.894E-03	1.968E-02	1404718	1405614	897 +
CDN75_RS18380	caiD	-1.064	2.052	4.901E-03	1.969E-02	3533227	3534012	786 -
CDN75_RS21785	galE	0.417	7.966	4.913E-03	1.972E-02	4182659	4183675	1017 -
CDN75_RS05430	wcaJ	-0.662	3.123	4.966E-03	1.991E-02	978022	979416	1395 -
CDN75_RS15535	ftsN	-0.276	7.906	5.005E-03	2.004E-02	2977139	2978098	960 -
CDN75_RS22030	fiu	0.552	7.376	5.007E-03	2.004E-02	4230869	4233151	2283 -
CDN75_RS16210	aphA	-0.354	6.453	5.016E-03	2.006E-02	3124173	3124886	714 +
CDN75_RS18150	trpR	0.390	4.634	5.030E-03	2.009E-02	3488958	3489284	327 +
CDN75_RS21220	gltL	0.303	5.799	5.033E-03	2.009E-02	4076150	4076875	726 -
CDN75_RS07265	ypdA	0.285	5.933	5.038E-03	2.009E-02	1357616	1359313	1698 +
CDN75_RS21010	citT	-0.720	3.287	5.074E-03	2.022E-02	4036737	4038200	1464 -
CDN75_RS13675	yiaW	-1.536	0.751	5.085E-03	2.023E-02	2607528	2607851	324 -
CDN75_RS07755	hyfB	-0.715	3.645	5.086E-03	2.023E-02	1453972	1455990	2019 +
CDN75_RS16555	adiC	-0.785	3.420	5.101E-03	2.025E-02	3190341	3191678	1338 -
CDN75_RS15030	ubiE	0.262	8.592	5.102E-03	2.025E-02	2873614	2874369	756 +
CDN75_RS01770	ldhA	-0.336	5.679	5.117E-03	2.030E-02	299296	300285	990 -
CDN75_RS14165	ilvN	0.415	6.373	5.126E-03	2.030E-02	2705563	2705853	291 -
CDN75_RS06900	cvpA	-0.322	8.172	5.127E-03	2.030E-02	1289220	1289708	489 -
CDN75_RS17610	sgcB	-0.990	1.458	5.134E-03	2.031E-02	3385677	3385955	279 -
CDN75_RS05305	hisF	0.282	6.754	5.167E-03	2.040E-02	953707	954483	777 +
CDN75_RS14815	wzxE	0.254	6.936	5.167E-03	2.040E-02	2831038	2832288	1251 +
CDN75_RS24400	yqiM	0.722	2.991	5.174E-03	2.041E-02	2101091	2101174	84 +
CDN75_RS14520	atpH	-0.267	10.790	5.187E-03	2.044E-02	2774631	2775164	534 -
CDN75_RS00635	rssA	0.288	6.263	5.193E-03	2.044E-02	97532	98437	906 +
CDN75_RS01245	yciW	-0.379	5.123	5.196E-03	2.044E-02	205223	206350	1128 -
CDN75_RS07790	hyfI	-0.743	2.772	5.209E-03	2.047E-02	1462860	1463618	759 +
CDN75_RS16725	yjeJ	0.414	4.696	5.212E-03	2.047E-02	3228011	3228880	870 -
CDN75_RS14470	pstB	0.334	6.998	5.241E-03	2.056E-02	2762354	2763127	774 -
CDN75_RS18500	rapA	-0.281	8.287	5.253E-03	2.059E-02	3558206	3561112	2907 -
CDN75_RS12485	frlC	-0.588	3.218	5.281E-03	2.068E-02	2355762	2356592	831 +
CDN75_RS20030	yajQ	-0.287	7.469	5.286E-03	2.068E-02	3846467	3846958	492 +
CDN75_RS02290	fdnH	0.709	3.160	5.333E-03	2.085E-02	407903	408787	885 +
CDN75_RS18915	yadK	-1.315	0.569	5.340E-03	2.086E-02	3648851	3649447	597 -
CDN75_RS17785	iraD	-0.743	2.740	5.369E-03	2.095E-02	3413191	3413583	393 +
CDN75_RS21415	potE	-0.485	4.011	5.377E-03	2.095E-02	4108566	4109885	1320 -
CDN75_RS16495	phnD	-1.107	2.163	5.380E-03	2.095E-02	3177983	3178999	1017 -
CDN75_RS09215	cysJ	-0.494	7.342	5.382E-03	2.095E-02	1742250	1744049	1800 -

CDN75_RS18070	yjIV	-0.505	4.041	5.390E-03	2.096E-02	3469679	3470458	780 +
CDN75_RS15230	yihM	-0.666	3.307	5.438E-03	2.109E-02	2915924	2916904	981 +
CDN75_RS18095	deoB	-0.248	9.730	5.439E-03	2.109E-02	3475801	3477024	1224 +
CDN75_RS10065	pgk	-0.253	10.143	5.442E-03	2.109E-02	1923547	1924710	1164 -
CDN75_RS15610	frwC	-0.934	2.782	5.443E-03	2.109E-02	2997289	2998368	1080 +
CDN75_RS01835	paaF	-0.817	2.108	5.462E-03	2.113E-02	314939	315706	768 +
CDN75_RS19950	tsx	-0.274	9.830	5.465E-03	2.113E-02	3832913	3833797	885 -
CDN75_RS20715	ompT	-0.332	9.239	5.485E-03	2.120E-02	3976300	3977253	954 -
CDN75_RS18400	caiT	-0.693	3.233	5.516E-03	2.130E-02	3538267	3539781	1515 -
CDN75_RS23505	flgM	0.523	3.872	5.535E-03	2.135E-02	4524172	4524465	294 -
CDN75_RS10665	yqiD	0.801	2.072	5.549E-03	2.138E-02	2035467	2035637	171 -
CDN75_RS16565	adiA	-0.313	5.542	5.554E-03	2.138E-02	3192901	3195168	2268 -
CDN75_RS23795	roxA	0.249	7.887	5.571E-03	2.143E-02	4581456	4582577	1122 -
CDN75_RS11585	mtgA	-0.276	7.349	5.589E-03	2.148E-02	2202503	2203231	729 -
CDN75_RS07610	eutE	-0.806	2.328	5.613E-03	2.156E-02	1422503	1423906	1404 -
CDN75_RS15675	oxyR	0.241	8.599	5.623E-03	2.156E-02	3013249	3014166	918 +
CDN75_RS11160	garL	-0.517	3.608	5.623E-03	2.156E-02	2126210	2126980	771 -
CDN75_RS12335	yheO	0.260	7.253	5.670E-03	2.172E-02	2329140	2329862	723 -
CDN75_RS07635	eutQ	-0.954	1.869	5.687E-03	2.176E-02	1426457	1427158	702 -
CDN75_RS11480	ispB	0.253	8.321	5.709E-03	2.181E-02	2187132	2188103	972 +
CDN75_RS09965	ygfB	0.253	7.935	5.710E-03	2.181E-02	1906954	1907532	579 -
CDN75_RS13625	yiaO	-0.865	2.568	5.768E-03	2.200E-02	2599517	2600503	987 +
CDN75_RS21535	nei	0.277	6.167	5.768E-03	2.200E-02	4137555	4138346	792 +
CDN75_RS18235	yaaJ	0.352	5.391	5.803E-03	2.211E-02	3504379	3505809	1431 -
CDN75_RS15255	yihQ	-0.556	3.993	5.854E-03	2.228E-02	2921999	2924035	2037 -
CDN75_RS15305	fabY	0.278	7.306	5.860E-03	2.229E-02	2932256	2933197	942 +
CDN75_RS13560	xyfI	-0.635	3.750	5.913E-03	2.247E-02	2584554	2585546	993 +
CDN75_RS15395	rhaS	-0.551	3.332	5.933E-03	2.252E-02	2952495	2953331	837 +
CDN75_RS06760	nuoC	-0.246	10.980	5.983E-03	2.270E-02	1261000	1262802	1803 -
CDN75_RS06080	rihB	-1.124	1.404	5.998E-03	2.273E-02	1113303	1114244	942 -
CDN75_RS10600	mdaB	-0.277	6.252	6.028E-03	2.283E-02	2024616	2025197	582 +
CDN75_RS01260	sapF	0.316	5.756	6.087E-03	2.303E-02	208071	208877	807 -
CDN75_RS01410	NA	-1.234	1.350	6.107E-03	2.308E-02	237064	238145	1082 +
CDN75_RS06515	glpQ	-0.405	10.082	6.132E-03	2.316E-02	1208880	1209956	1077 -
CDN75_RS21160	holA	0.242	7.500	6.166E-03	2.327E-02	4062194	4063225	1032 -
CDN75_RS16460	phnK	-0.770	2.984	6.202E-03	2.338E-02	3172653	3173411	759 -
CDN75_RS22725	ssuC	-1.369	1.760	6.226E-03	2.345E-02	4386999	4387790	792 -
CDN75_RS18995	fhuC	0.330	6.316	6.240E-03	2.349E-02	3667626	3668423	798 +
CDN75_RS03340	mdtK	0.309	6.776	6.289E-03	2.365E-02	600897	602270	1374 +
CDN75_RS01060	yciE	-0.828	2.153	6.317E-03	2.374E-02	170961	171467	507 -
CDN75_RS14530	atpE	-0.255	9.731	6.354E-03	2.385E-02	2775711	2775950	240 -
CDN75_RS22855	sulA	0.375	5.730	6.389E-03	2.396E-02	4413368	4413877	510 -
CDN75_RS19370	ivy	-0.290	6.521	6.408E-03	2.401E-02	3738217	3738663	447 +
CDN75_RS05705	fbaB	-0.298	7.138	6.434E-03	2.409E-02	1036570	1037622	1053 -
CDN75_RS04840	fliJ	0.844	2.519	6.466E-03	2.419E-02	875809	876252	444 +
CDN75_RS23160	putA	-0.340	9.699	6.474E-03	2.420E-02	4467878	4471840	3963 -
CDN75_RS02640	rspR	0.272	6.197	6.481E-03	2.420E-02	485792	486478	687 +
CDN75_RS03750	osmE	0.285	6.659	6.509E-03	2.429E-02	679358	679696	339 -
CDN75_RS08035	suhB	0.279	7.244	6.522E-03	2.432E-02	1515596	1516399	804 +
CDN75_RS14790	wecC	0.247	7.797	6.551E-03	2.440E-02	2826020	2827282	1263 +
CDN75_RS00615	NA	0.311	5.865	6.557E-03	2.441E-02	95650	95781	132 -
CDN75_RS17325	rraB	0.344	8.123	6.606E-03	2.457E-02	3333895	3334311	417 +
CDN75_RS01530	abgR	-0.537	3.696	6.654E-03	2.472E-02	262183	263091	909 +
CDN75_RS10210	hemW	0.248	7.582	6.697E-03	2.486E-02	1949355	1950491	1137 +
CDN75_RS04785	yedK	-0.726	2.503	6.755E-03	2.505E-02	867684	868352	669 +
CDN75_RS17085	ytfF	0.350	5.208	6.764E-03	2.507E-02	3286737	3287702	966 -
CDN75_RS15455	sbp	-0.350	5.967	6.805E-03	2.520E-02	2963593	2964582	990 +
CDN75_RS11735	zapE	0.264	6.891	6.846E-03	2.533E-02	2232292	2233419	1128 -
CDN75_RS15840	thiG	-0.417	4.151	6.860E-03	2.535E-02	3046624	3047394	771 -

CDN75_RS21380	ybfE	0.308	5.387	6.865E-03	2.535E-02	4103225	4103518	294 -
CDN75_RS09640	yqeH	-0.955	2.044	6.895E-03	2.545E-02	1839625	1840257	633 +
CDN75_RS02095	ydcT	-0.596	3.419	6.941E-03	2.559E-02	370259	371272	1014 +
CDN75_RS13990	dut	-0.258	7.658	6.956E-03	2.563E-02	2668689	2669147	459 +
CDN75_RS16470	phnI	-0.905	2.663	7.041E-03	2.591E-02	3174246	3175310	1065 -
CDN75_RS21610	sucC	-0.273	11.981	7.045E-03	2.591E-02	4154634	4155800	1167 +
CDN75_RS03115	ydgJ	0.270	6.638	7.120E-03	2.615E-02	560708	561748	1041 -
CDN75_RS08295	ung	0.284	6.095	7.123E-03	2.615E-02	1568908	1569597	690 +
CDN75_RS04130	yoaC	0.524	3.353	7.159E-03	2.626E-02	751573	751872	300 +
CDN75_RS14105	nlpA	0.378	4.830	7.170E-03	2.628E-02	2693936	2694754	819 -
CDN75_RS08900	srlA	0.539	5.992	7.194E-03	2.635E-02	1677983	1678546	564 +
CDN75_RS09610	araE	0.291	5.869	7.203E-03	2.636E-02	1832853	1834271	1419 -
CDN75_RS09290	eno	-0.237	10.702	7.215E-03	2.637E-02	1758732	1760030	1299 -
CDN75_RS19670	NA	-1.377	0.696	7.219E-03	2.637E-02	3783351	3783794	444 -
CDN75_RS07385	NA	1.324	0.259	7.228E-03	2.638E-02	1380304	1380429	126 +
CDN75_RS03180	dtpA	0.264	8.597	7.316E-03	2.668E-02	570209	571711	1503 +
CDN75_RS04575	motA	0.646	3.245	7.365E-03	2.684E-02	834891	835778	888 -
CDN75_RS01140	yciN	0.298	5.712	7.377E-03	2.686E-02	186660	186911	252 -
CDN75_RS18720	yacG	0.325	5.340	7.397E-03	2.688E-02	3609497	3609694	198 -
CDN75_RS11450	greA	0.269	6.877	7.397E-03	2.688E-02	2181661	2182137	477 -
CDN75_RS07130	yfdM	-1.438	0.681	7.404E-03	2.688E-02	1331066	1331332	267 -
CDN75_RS06680	yfbK	-0.649	2.962	7.406E-03	2.688E-02	1242940	1244667	1728 -
CDN75_RS07315	ypeC	0.371	4.510	7.456E-03	2.702E-02	1369946	1370272	327 +
CDN75_RS01365	ycjM	-0.811	2.533	7.460E-03	2.702E-02	226459	228138	1680 +
CDN75_RS21165	lptE	0.246	7.474	7.465E-03	2.702E-02	4063225	4063806	582 -
CDN75_RS22950	hyaF	-0.754	2.407	7.520E-03	2.720E-02	4429707	4430564	858 +
CDN75_RS07860	ppkI	0.239	8.700	7.550E-03	2.728E-02	1475198	1477264	2067 +
CDN75_RS07730	bamC	0.232	9.570	7.618E-03	2.751E-02	1449985	1451019	1035 -
CDN75_RS12045	trkA	0.259	7.191	7.734E-03	2.790E-02	2289940	2291316	1377 +
CDN75_RS09905	sdhE	0.376	5.925	7.741E-03	2.791E-02	1892893	1893159	267 -
CDN75_RS19565	NA	-1.139	0.847	7.755E-03	2.793E-02	3766514	3766714	201 -
CDN75_RS01095	trpE	0.560	3.906	7.931E-03	2.854E-02	177627	179189	1563 -
CDN75_RS02690	ynfO	-1.144	1.094	8.015E-03	2.882E-02	494196	494429	234 +
CDN75_RS19210	arfB	0.364	5.162	8.060E-03	2.894E-02	3712680	3713102	423 +
CDN75_RS07910	xseA	0.264	7.663	8.060E-03	2.894E-02	1486386	1487756	1371 +
CDN75_RS23650	ycfH	0.242	6.958	8.082E-03	2.899E-02	4551114	4551911	798 +
CDN75_RS08100	yphD	-0.622	2.885	8.103E-03	2.904E-02	1527981	1528979	999 -
CDN75_RS16590	fumB	-0.376	5.088	8.113E-03	2.905E-02	3200327	3201973	1647 -
CDN75_RS11670	nanQ	-0.409	4.544	8.198E-03	2.933E-02	2222436	2222900	465 -
CDN75_RS20885	entS	0.331	6.234	8.290E-03	2.964E-02	4013920	4015170	1251 +
CDN75_RS24525	NA	-1.133	1.526	8.373E-03	2.991E-02	2622685	2623206	522 +
CDN75_RS09895	fldB	0.259	6.982	8.414E-03	3.003E-02	1891944	1892465	522 +
CDN75_RS17220	yjgA	0.257	7.033	8.465E-03	3.019E-02	3312736	3313287	552 -
CDN75_RS03260	nemR	-0.419	4.127	8.472E-03	3.019E-02	583463	584062	600 +
CDN75_RS22605	rpsA	-0.248	12.539	8.535E-03	3.037E-02	4354953	4356626	1674 +
CDN75_RS24140	NA	-0.534	3.938	8.537E-03	3.037E-02	2620632	2621588	957 +
CDN75_RS08925	srlR	-0.323	5.485	8.556E-03	3.041E-02	1681198	1681971	774 +
CDN75_RS06830	yfcD	-0.252	6.827	8.565E-03	3.041E-02	1277579	1278121	543 -
CDN75_RS04305	pphA	0.381	4.406	8.570E-03	3.041E-02	780952	781608	657 -
CDN75_RS23630	pabC	0.309	5.399	8.620E-03	3.057E-02	4547637	4548446	810 +
CDN75_RS18195	yjjY	0.364	7.263	8.639E-03	3.059E-02	3496600	3496740	141 +
CDN75_RS14660	maoP	-0.310	5.811	8.641E-03	3.059E-02	2802846	2803184	339 +
CDN75_RS14870	hemY	0.230	8.398	8.666E-03	3.066E-02	2841445	2842641	1197 -
CDN75_RS12385	yheU	0.441	3.989	8.751E-03	3.093E-02	2337640	2337858	219 +
CDN75_RS16330	nrfE	-0.777	3.446	8.777E-03	3.100E-02	3146211	3147928	1718 +
CDN75_RS21630	mngB	-0.343	4.811	8.795E-03	3.104E-02	4159598	4162231	2634 +
CDN75_RS15345	fdhD	0.290	6.002	8.832E-03	3.114E-02	2940775	2941608	834 +
CDN75_RS02155	mcbR	0.471	3.551	8.881E-03	3.129E-02	377704	378369	666 +
CDN75_RS12360	kefB	0.299	6.526	8.927E-03	3.138E-02	2332224	2334029	1806 -

CDN75_RS21040	citC	-0.788	2.429	8.927E-03	3.138E-02	4042418	4043476	1059 -
CDN75_RS06285	ccmE	-0.513	3.510	8.929E-03	3.138E-02	1153959	1154438	480 -
CDN75_RS13575	xylR	0.285	5.635	8.959E-03	3.146E-02	2588402	2589580	1179 +
CDN75_RS04680	pgsA	0.261	6.534	8.972E-03	3.146E-02	850132	850680	549 -
CDN75_RS13380	bcsF	0.640	3.266	8.973E-03	3.146E-02	2551449	2551640	192 +
CDN75_RS21950	ybhP	0.369	4.394	8.983E-03	3.147E-02	4215356	4216117	762 -
CDN75_RS10220	ansB	0.439	4.212	9.000E-03	3.150E-02	1951770	1952816	1047 -
CDN75_RS01195	lapA	0.277	5.845	9.016E-03	3.153E-02	196486	196794	309 +
CDN75_RS14440	yieL	-0.673	3.339	9.146E-03	3.196E-02	2754169	2755338	1170 -
CDN75_RS16480	phnG	-0.931	1.797	9.159E-03	3.198E-02	3175891	3176343	453 -
CDN75_RS13610	yiaL	-1.234	1.018	9.219E-03	3.217E-02	2597166	2597633	468 +
CDN75_RS09395	fucA	-0.676	2.922	9.270E-03	3.232E-02	1785130	1785777	648 -
CDN75_RS13320	kdgK	-0.247	10.350	9.286E-03	3.234E-02	2532842	2533771	930 +
CDN75_RS20195	pdeB	0.260	6.637	9.298E-03	3.234E-02	3878851	3880401	1551 -
CDN75_RS09265	yqcE	-0.606	3.067	9.298E-03	3.234E-02	1752742	1754019	1278 +
CDN75_RS16285	espX5	-1.433	0.941	9.308E-03	3.235E-02	3136542	3137834	1293 -
CDN75_RS22265	grxA	0.721	2.252	9.320E-03	3.236E-02	4282116	4282373	258 -
CDN75_RS03410	lpp	0.307	9.694	9.419E-03	3.268E-02	614861	615097	237 +
CDN75_RS16850	nnr	-0.241	6.866	9.492E-03	3.291E-02	3248712	3250259	1548 +
CDN75_RS18175	creB	-0.276	5.971	9.531E-03	3.299E-02	3492205	3492894	690 +
CDN75_RS08805	ygaH	0.261	6.601	9.531E-03	3.299E-02	1662496	1662831	336 +
CDN75_RS22975	etk	-0.289	5.472	9.557E-03	3.305E-02	4434988	4437168	2181 -
CDN75_RS03170	nth	0.279	5.626	9.564E-03	3.305E-02	568963	569598	636 +
CDN75_RS18420	fixX	-1.207	0.678	9.573E-03	3.306E-02	3543313	3543600	288 +
CDN75_RS15045	tatA	0.261	6.941	9.582E-03	3.306E-02	2876704	2876973	270 +
CDN75_RS22330	artM	-0.259	6.853	9.592E-03	3.307E-02	4292486	4293154	669 -
CDN75_RS05085	ldtA	0.299	5.861	9.652E-03	3.325E-02	920254	921189	936 -
CDN75_RS01190	pgpB	0.309	5.328	9.658E-03	3.325E-02	195573	196337	765 +
CDN75_RS00475	lolB	0.262	6.601	9.728E-03	3.346E-02	71165	71788	624 -
CDN75_RS04395	mepM	0.249	7.168	9.742E-03	3.348E-02	798952	800274	1323 -
CDN75_RS03490	ydiN	-1.075	1.622	9.767E-03	3.354E-02	629952	631217	1266 +
CDN75_RS22420	macA	0.299	5.682	9.776E-03	3.354E-02	4310855	4311970	1116 +
CDN75_RS23150	rutA	-0.928	2.174	9.861E-03	3.381E-02	4465821	4466912	1092 -
CDN75_RS20540	ybcF	-0.362	5.341	9.884E-03	3.385E-02	3952223	3953116	894 +
CDN75_RS21990	ybiA	0.530	3.423	9.888E-03	3.385E-02	4224088	4224570	483 -
CDN75_RS00170	ycgX	0.664	2.857	9.897E-03	3.385E-02	20991	21395	405 -
CDN75_RS21705	NA	-0.328	7.951	1.007E-02	3.441E-02	4172463	4172538	76 +
CDN75_RS08270	trmN	0.316	5.078	1.009E-02	3.446E-02	1564181	1564918	738 -
CDN75_RS17420	NA	0.331	6.796	1.019E-02	3.476E-02	3355015	3356198	1184 -
CDN75_RS13645	araD	-0.545	3.380	1.026E-02	3.498E-02	2603509	2604204	696 +
CDN75_RS19705	tauA	-0.701	2.493	1.027E-02	3.499E-02	3787739	3788701	963 +
CDN75_RS20795	ybdG	0.240	6.666	1.030E-02	3.504E-02	3995036	3996283	1248 -
CDN75_RS16935	yjfK	-0.930	1.700	1.030E-02	3.504E-02	3265948	3266607	660 +
CDN75_RS14515	atpA	-0.249	12.634	1.036E-02	3.520E-02	2773077	2774618	1542 -
CDN75_RS03955	yeaC	-0.286	5.849	1.037E-02	3.521E-02	719142	719414	273 -
CDN75_RS17145	msrA	0.249	6.680	1.038E-02	3.521E-02	3296960	3297598	639 -
CDN75_RS14525	atpF	-0.248	11.100	1.042E-02	3.534E-02	2775179	2775649	471 -
CDN75_RS11195	kbaZ	-0.466	3.814	1.043E-02	3.534E-02	2132337	2133617	1281 +
CDN75_RS06475	ubiG	0.240	7.046	1.048E-02	3.549E-02	1198512	1199234	723 +
CDN75_RS22710	pncB	0.239	8.421	1.050E-02	3.552E-02	4382112	4383314	1203 -
CDN75_RS02900	ynfC	0.304	5.059	1.054E-02	3.562E-02	514187	514897	711 -
CDN75_RS09980	ssrS	0.285	7.532	1.056E-02	3.568E-02	1908071	1908254	184 +
CDN75_RS16370	mdtO	-0.468	4.077	1.057E-02	3.568E-02	3155674	3157725	2052 -
CDN75_RS10560	mqsR	-0.415	4.034	1.069E-02	3.604E-02	2020334	2020630	297 -
CDN75_RS15385	rhaA	-0.667	3.265	1.072E-02	3.614E-02	2949482	2950741	1260 -
CDN75_RS02265	NA	-1.181	1.436	1.081E-02	3.640E-02	401826	403156	1331 -
CDN75_RS12670	yhgF	-0.232	8.851	1.083E-02	3.643E-02	2390807	2393128	2322 +
CDN75_RS04035	yoaF	0.552	3.174	1.086E-02	3.651E-02	734718	734972	255 -
CDN75_RS11015	yqjC	0.251	7.938	1.093E-02	3.671E-02	2102392	2102760	369 +

CDN75_RS22575	ycaO	0.261	7.427	1.098E-02	3.681E-02	4347830	4349590	1761 -
CDN75_RS06870	hisM	0.313	5.094	1.098E-02	3.681E-02	1283462	1284178	717 -
CDN75_RS09340	gudP	-0.764	3.376	1.098E-02	3.681E-02	1772837	1774189	1353 -
CDN75_RS05790	apbC	0.235	8.596	1.099E-02	3.681E-02	1052117	1053226	1110 -
CDN75_RS18670	murG	0.227	7.836	1.104E-02	3.696E-02	3597492	3598559	1068 +
CDN75_RS03640	thrS	0.220	11.200	1.106E-02	3.698E-02	658082	660010	1929 -
CDN75_RS22890	yccU	0.334	4.845	1.108E-02	3.704E-02	4420904	4421317	414 +
CDN75_RS13305	yhjG	0.265	6.519	1.110E-02	3.705E-02	2529713	2531773	2061 -
CDN75_RS14420	yieH	0.309	5.352	1.110E-02	3.705E-02	2751535	2752200	666 +
CDN75_RS14140	adeD	-0.323	6.080	1.112E-02	3.708E-02	2698725	2700491	1767 +
CDN75_RS02090	ydcS	-0.419	3.902	1.118E-02	3.725E-02	369096	370241	1146 +
CDN75_RS16135	plsB	-0.248	8.909	1.119E-02	3.726E-02	3108802	3111225	2424 -
CDN75_RS04715	dcyD	0.276	5.959	1.128E-02	3.753E-02	856357	857343	987 -
CDN75_RS06205	radD	0.276	6.350	1.131E-02	3.759E-02	1139690	1141450	1761 +
CDN75_RS20180	NA	0.329	4.895	1.132E-02	3.759E-02	3877766	3878077	312 -
CDN75_RS15880	nfi	0.249	7.235	1.133E-02	3.761E-02	3053549	3054220	672 +
CDN75_RS10765	ygIF	-0.268	6.003	1.135E-02	3.763E-02	2053088	2054389	1302 -
CDN75_RS19105	pyrH	-0.222	8.699	1.137E-02	3.766E-02	3689703	3690428	726 +
CDN75_RS07640	eutP	-0.998	1.409	1.137E-02	3.766E-02	1427133	1427612	480 -
CDN75_RS00505	kdsA	0.236	8.294	1.139E-02	3.768E-02	76452	77306	855 +
CDN75_RS23980	NA	0.250	8.158	1.150E-02	3.803E-02	107690	107986	297 -
CDN75_RS20020	yajL	0.260	6.047	1.154E-02	3.814E-02	3844835	3845425	591 -
CDN75_RS15390	rhaB	-0.627	3.194	1.161E-02	3.831E-02	2950738	2952207	1470 -
CDN75_RS11895	yhdJ	-0.686	2.898	1.161E-02	3.831E-02	2265075	2265959	885 +
CDN75_RS18330	lspA	0.249	8.033	1.167E-02	3.846E-02	3523057	3523551	495 +
CDN75_RS20065	ampG	0.237	7.059	1.169E-02	3.851E-02	3853854	3855329	1476 -
CDN75_RS02110	patD	-0.367	4.390	1.183E-02	3.894E-02	373020	374444	1425 +
CDN75_RS15970	aceB	-0.281	6.815	1.187E-02	3.903E-02	3070237	3071838	1602 +
CDN75_RS11920	acrF	-0.340	5.389	1.189E-02	3.906E-02	2268455	2271559	3105 +
CDN75_RS12325	tusC	0.272	5.782	1.197E-02	3.932E-02	2328395	2328754	360 -
CDN75_RS15615	frwB	-0.906	2.038	1.207E-02	3.961E-02	2998383	2998703	321 +
CDN75_RS00795	NA	-1.266	0.400	1.209E-02	3.963E-02	125945	126154	210 -
CDN75_RS16000	yjbB	0.269	6.529	1.210E-02	3.965E-02	3082490	3084121	1632 +
CDN75_RS01785	ydbL	0.548	3.650	1.222E-02	4.000E-02	303322	303648	327 +
CDN75_RS18715	mutT	0.422	4.175	1.227E-02	4.013E-02	3608892	3609281	390 +
CDN75_RS24480	cynS	-1.226	0.435	1.228E-02	4.013E-02	147072	147542	471 +
CDN75_RS15425	yiiM	-0.243	6.937	1.238E-02	4.041E-02	2957581	2958255	675 +
CDN75_RS09275	queE	0.308	5.427	1.238E-02	4.041E-02	1756836	1757507	672 -
CDN75_RS02510	lsrF	-0.708	2.660	1.240E-02	4.044E-02	463540	464415	876 +
CDN75_RS03280	lhr	0.226	6.975	1.266E-02	4.126E-02	586527	591143	4617 +
CDN75_RS14895	cyaA	0.215	10.676	1.271E-02	4.138E-02	2845912	2848458	2547 +
CDN75_RS15715	NA	-1.385	-0.044	1.287E-02	4.189E-02	3021418	3022959	1542 +
CDN75_RS08720	yqaE	0.680	2.337	1.293E-02	4.202E-02	1649022	1649180	159 -
CDN75_RS19860	NA	0.614	2.671	1.293E-02	4.202E-02	3810393	3810734	342 +
CDN75_RS08390	raiA	0.252	8.831	1.297E-02	4.210E-02	1589308	1589649	342 +
CDN75_RS16830	NA	0.309	5.021	1.300E-02	4.217E-02	3247118	3247193	76 +
CDN75_RS24500	NA	-0.847	1.504	1.302E-02	4.222E-02	923779	923922	144 -
CDN75_RS09670	ygeG	-1.175	0.672	1.312E-02	4.247E-02	1843357	1843848	492 +
CDN75_RS20595	fimC	-0.893	1.488	1.312E-02	4.247E-02	3960758	3961450	693 +
CDN75_RS01170	yciX	0.445	3.667	1.313E-02	4.247E-02	191534	191701	168 +
CDN75_RS17465	nanY	-0.296	5.012	1.316E-02	4.251E-02	3360709	3361827	1119 +
CDN75_RS20600	sfmD	-0.692	3.473	1.316E-02	4.251E-02	3961481	3964084	2604 +
CDN75_RS03445	sufA	-0.317	5.417	1.319E-02	4.257E-02	621458	621826	369 -
CDN75_RS20580	ybcJ	0.329	4.864	1.323E-02	4.269E-02	3958445	3958657	213 -
CDN75_RS19880	sbcC	-0.249	6.858	1.337E-02	4.310E-02	3814391	3817537	3147 -
CDN75_RS18815	acnB	-0.255	12.216	1.344E-02	4.326E-02	3629463	3632060	2598 +
CDN75_RS22990	gfcD	-0.351	4.696	1.344E-02	4.326E-02	4438807	4440903	2097 -
CDN75_RS05535	alkA	0.398	4.771	1.347E-02	4.332E-02	1004553	1005401	849 -
CDN75_RS12275	gspO	-0.319	5.159	1.351E-02	4.341E-02	2318965	2319642	678 +

CDN75_RS08125	glyA	-0.268	12.233	1.355E-02	4.350E-02	1536408	1537661	1254 -
CDN75_RS18955	gluQRS	-0.288	5.474	1.360E-02	4.364E-02	3657034	3657930	897 -
CDN75_RS08985	hycG	-0.546	3.123	1.363E-02	4.370E-02	1695594	1696361	768 -
CDN75_RS16845	queG	0.242	7.018	1.372E-02	4.395E-02	3247574	3248713	1140 -
CDN75_RS17190	ytfR	-0.344	4.889	1.375E-02	4.403E-02	3306480	3307982	1503 +
CDN75_RS15355	frvR	-0.565	3.611	1.381E-02	4.420E-02	2942866	2944614	1749 -
CDN75_RS04625	ftnB	0.338	4.701	1.384E-02	4.425E-02	844788	845291	504 +
CDN75_RS17015	ulaF	-0.445	3.863	1.386E-02	4.428E-02	3278346	3279032	687 +
CDN75_RS13960	coaD	-0.339	5.205	1.389E-02	4.432E-02	2664585	2665064	480 +
CDN75_RS11465	yhbE	0.240	7.410	1.389E-02	4.432E-02	2185192	2186157	966 -
CDN75_RS17275	pyrI	-0.316	4.729	1.392E-02	4.437E-02	3326408	3326869	462 -
CDN75_RS02435	ydeR	-0.962	1.328	1.398E-02	4.453E-02	445235	445738	504 -
CDN75_RS12000	yrdB	0.337	4.956	1.401E-02	4.457E-02	2283188	2283445	258 -
CDN75_RS14055	recG	-0.220	8.074	1.401E-02	4.457E-02	2679971	2682052	2082 +
CDN75_RS20505	glxK	-0.987	2.777	1.404E-02	4.464E-02	3943672	3944817	1146 +
CDN75_RS18655	mraY	0.215	7.554	1.408E-02	4.471E-02	3593850	3594932	1083 +
CDN75_RS09445	csdA	0.222	7.477	1.413E-02	4.484E-02	1795426	1796631	1206 +
CDN75_RS21350	glnS	0.225	9.514	1.419E-02	4.499E-02	4097713	4099377	1665 +
CDN75_RS12580	hofQ	-0.651	3.511	1.435E-02	4.543E-02	2372887	2374125	1239 -
CDN75_RS13855	tdh	-0.229	9.367	1.435E-02	4.543E-02	2643743	2644768	1026 -
CDN75_RS16835	NA	0.498	3.320	1.436E-02	4.543E-02	3247229	3247304	76 +
CDN75_RS14775	wecA	0.225	7.798	1.439E-02	4.550E-02	2822676	2823779	1104 +
CDN75_RS16205	yjbS	-1.205	0.422	1.442E-02	4.558E-02	3123568	3123771	204 -
CDN75_RS09780	hyuA	-0.505	3.465	1.446E-02	4.565E-02	1862117	1863502	1386 +
CDN75_RS05425	wzxC	-0.629	3.219	1.447E-02	4.565E-02	976542	978020	1479 -
CDN75_RS12630	hslO	-0.248	8.052	1.456E-02	4.590E-02	2383196	2384074	879 +
CDN75_RS20425	rhsD	-0.382	5.354	1.457E-02	4.591E-02	3925045	3929325	4281 +
CDN75_RS19940	secF	0.228	8.312	1.465E-02	4.610E-02	3831289	3832260	972 +
CDN75_RS21265	ybeZ	-0.238	8.501	1.466E-02	4.610E-02	4083958	4084998	1041 -
CDN75_RS02680	nohA	-1.011	1.751	1.466E-02	4.610E-02	493238	493807	570 -
CDN75_RS10905	ebgA	-0.390	5.015	1.487E-02	4.668E-02	2076056	2079148	3093 +
CDN75_RS18930	htrE	-0.756	2.799	1.487E-02	4.668E-02	3650677	3653274	2598 -
CDN75_RS01400	ycjT	-0.512	3.427	1.494E-02	4.685E-02	234127	236394	2268 +
CDN75_RS16275	ghxP	-0.232	9.105	1.499E-02	4.698E-02	3133238	3134587	1350 +
CDN75_RS00925	NA	-0.665	3.030	1.504E-02	4.710E-02	140664	142586	1923 +
CDN75_RS13875	rfaF	0.214	8.174	1.508E-02	4.720E-02	2648352	2649398	1047 +
CDN75_RS21495	ybfD	-1.172	1.365	1.511E-02	4.725E-02	4129712	4130470	759 +
CDN75_RS07920	der	0.224	8.400	1.512E-02	4.727E-02	1488038	1489510	1473 -
CDN75_RS20855	ybdZ	0.542	4.066	1.517E-02	4.736E-02	4005562	4005780	219 +
CDN75_RS14655	hdfR	0.238	6.404	1.517E-02	4.736E-02	2801888	2802727	840 -
CDN75_RS15620	pflD	-0.333	4.877	1.523E-02	4.748E-02	2998754	3001051	2298 +
CDN75_RS20550	purE	-0.285	8.187	1.523E-02	4.748E-02	3954375	3954884	510 -
CDN75_RS01010	NA	-0.275	5.501	1.526E-02	4.752E-02	159942	162038	2097 -
CDN75_RS08185	yfhL	0.672	2.407	1.532E-02	4.767E-02	1551817	1552077	261 +
CDN75_RS21645	cydB	0.227	8.793	1.536E-02	4.778E-02	4164662	4165801	1140 +
CDN75_RS09440	ygdI	0.419	3.998	1.541E-02	4.788E-02	1795007	1795234	228 -
CDN75_RS06110	fruK	-0.378	4.899	1.542E-02	4.788E-02	1120485	1121423	939 -
CDN75_RS16080	malF	-0.338	7.110	1.545E-02	4.794E-02	3098290	3099834	1545 -
CDN75_RS23070	torA	-0.433	3.931	1.549E-02	4.803E-02	4452214	4454760	2547 +
CDN75_RS09620	kduD	0.231	10.405	1.560E-02	4.830E-02	1834586	1835347	762 -
CDN75_RS02130	ydcY	0.335	4.622	1.561E-02	4.830E-02	375090	375323	234 +
CDN75_RS01165	ymiA	0.644	2.819	1.561E-02	4.830E-02	191391	191531	141 +
CDN75_RS16870	miaA	0.221	9.655	1.562E-02	4.830E-02	3253898	3254848	951 +
CDN75_RS21125	rlpA	0.220	8.311	1.566E-02	4.839E-02	4055722	4056810	1089 -
CDN75_RS22195	rimO	-0.267	6.153	1.572E-02	4.855E-02	4268330	4269655	1326 -
CDN75_RS12330	tusD	0.241	6.239	1.586E-02	4.894E-02	2328754	2329140	387 -
CDN75_RS08155	purL	-0.257	11.540	1.588E-02	4.896E-02	1543810	1547697	3888 -
CDN75_RS22075	dps	0.234	9.274	1.589E-02	4.896E-02	4240028	4240531	504 -
CDN75_RS13670	yiaV	-0.753	3.154	1.591E-02	4.898E-02	2606386	2607522	1137 -

CDN75_RS15770	NA	-0.323	5.551	1.595E-02	4.904E-02	3030432	3030506	75 +
CDN75_RS20780	cusB	-0.652	2.445	1.595E-02	4.904E-02	3989099	3990322	1224 +
CDN75_RS12245	gspH	-0.820	2.442	1.598E-02	4.909E-02	2314890	2315399	510 +
CDN75_RS18145	sltY	0.215	7.506	1.602E-02	4.919E-02	3486931	3488868	1938 +
CDN75_RS17885	NA	-0.251	6.161	1.605E-02	4.925E-02	3430117	3432264	2148 +
CDN75_RS09330	gudD	-0.474	4.235	1.611E-02	4.941E-02	1770134	1771474	1341 -
CDN75_RS00550	ychO	0.298	5.162	1.631E-02	4.998E-02	82071	83465	1395 +

Table S3 List of genes significantly upregulated in static culture (S<T)

Genes with $|\log_{2}FC| > 1$ and a significantly low FDR (FDR < 0.05) were annotated. Genes identified as characteristic of the culture are highlighted or marked (see Table 1).

gene	log ₂ FC	size (a.a)	Description: <i>Escherichia coli</i> K-12 substr. MG1655 reference genome (EcoCyc)	UniProt Entry
ynfR	2.369	21	Qin prophage; protein YnfR	P0DPO9
NA	2.332			
fimA	2.193	184	type 1 fimbriae major subunit (fimD; pilA)	Q47223
ynfN	2.162	51	Qin prophage; protein YnfN	P76157
bluF	2.060	403	blue light- and temperature-regulated antirepressor BluF (ycgF; Blrp; blue light-responsive regulator of BluR)	P75990
ymcE	2.032	76	protein YmcE	P0AAA5
pinR	1.896	196	Rac prophage; putative site-specific recombinase (ynaD)	P0ADI0
mgtS	1.852	31	small protein MgtS (yneM)	A5A616
ymiC	1.847	31	protein YmiC	P0DPO1
leuB	1.842	363	3-isopropylmalate dehydrogenase (IPMDH)	P30125
ynfQ	1.822	62	Qin prophage; protein YnfQ	P0DPO8
NA	1.811			
yecV	1.746	14	protein YecV	P0DSF6
leuC	1.743	466	3-isopropylmalate dehydratase subunit LeuC (3-isopropylmalate dehydratase, large subunit)	P0A6A6
cspI	1.732	70	Qin prophage; cold shock-like protein CspI (cspJ)	P0A986
fimI	1.679	179	putative fimbrial protein FimI	P39264
pinQ	1.632	196	Qin prophage; putative recombinase PinQ (ydfL)	P77170
ynfU	1.575	56	Qin prophage; putative zinc-binding protein YnfU	P0DSF4
grcA	1.494	127	stress-induced alternate pyruvate formate-lyase subunit (yfiD; autonomous glycyl radical cofactor protein)	P68066
ydfK	1.486	77	Qin prophage; cold shock protein YdfK	P76154
dmlA	1.481	361	D-malate/3-isopropylmalate dehydrogenase (decarboxylating) (ttuC; yeaU)	P76251
puuA	1.473	472	glutamate-putrescine ligase (ycjK)	P78061
ynaM	1.443	37	Rac prophage; protein YnaM	P0DPO4
cspF	1.431	70	Qin prophage; cold shock-like protein CspF	P0A976
narH	1.418	521	nitrate reductase A subunit β (chlC)	P11349
narG	1.413	1247	nitrate reductase A subunit α (chlC; narC)	P09152
NA	1.373			
ymcF	1.365	62	protein YmcF: CP4-6 Prophage	P0DPC9
pmrR	1.358	29	small regulatory membrane protein PmrR	G3MTW7
evgS	1.356	1197	sensor histidine kinase EvgS	P30855
NA	1.324			
ydfK	1.306	77	Qin prophage; cold shock protein YdfK	P76154
cspG	1.289	70	cold shock protein CspG (Qin Prophage)	P0A978

flgE	1.272	409	flagellar hook protein FlgE (flaK)	P75937
leuD	1.269	201	3-isopropylmalate dehydratase subunit LeuD (3-isopropylmalate dehydratase, small subunit)	P30126
ynjI	1.262	346	DUF1266 domain-containing protein YnjI	P76228
rhIE	1.251	454	ATP-dependent RNA helicase RhIE	P25888
rzpQ	1.247	165	Qin prophage; DUF2514 domain-containing protein RzpQ (ydfP)	P76158
narI	1.240	225	nitrate reductase A subunit γ (chII)	P11350
leuA	1.235	523	2-isopropylmalate synthase	P09151
NA	1.227			
yjcB	1.217	93	uncharacterized protein YjcB	P32700
tdcE	1.211	764	• 2-oxobutanoate formate-lyase/pyruvate formate-lyase 4 (yhaS; 2-ketobutyrate formate-lyase/pyruvate formate-lyase 4)	P42632
fepC	1.205	271	ferric enterobactin ABC transporter ATP binding subunit	P23878
NA	1.205			
fimC	1.188	241	type 1 fimbriae periplasmic chaperone (pilB)	P31697
tdcD	1.187	402	• propionate kinase (yhaA)	P11868
fliG	1.184	331	flagellar motor switch protein FliG (flaAII.2; flaBII)	P0ABZ1
flgD	1.180	231	flagellar motor switch protein FliG (flaAII.2; flaBII)	P75936
narJ	1.176	236	nitrate reductase 1 molybdenum cofactor assembly chaperone (molybdenum cofactor assembly chaperone subunit (δ subunit) of nitrate reductase 1)	P0AF26
btsT	1.171	716	• pyruvate:H ⁺ symporter (yjiY)	P39396
fliP	1.146	245	flagellar biosynthesis protein FliP (flaR)	P0AC05
ynfT	1.135	37	Qin prophage; protein YnfT	P0DPO8
fliI	1.135	457	flagellar export ATPase FliI (fla; flaAIII; flaC)	P52612
flgF	1.124	251	flagellar basal-body rod protein FlgF (flaX)	P75938
cpxP	1.119	166	periplasmic protein involved in stress resistance (yiiO; b3913)	P0AE85
cspH	1.111	74	CspA family protein CspH (cspK)	P0A968
fliH	1.092	228	flagellar biosynthesis protein FliH (flaAII.3; flaBIII)	P31068
proW	1.092	354	glycine betaine ABC transporter membrane subunit ProW (osrA; proU)	P14176
flgC	1.077	134	flagellar basal-body rod protein FlgC (flaW)	P0ABX2
flgB	1.069	138	flagellar basal-body rod protein FlgB (flbA)	P0ABW9
flgG	1.069	260	flagellar basal-body rod protein FlgG (flaL)	P0ABX5
cspE	1.058	69	transcription antiterminator and regulator of RNA stability CspE (gicA; msmC)	P0A972
bssS	1.057	84	regulator of biofilm formation (yceP)	P0AB33
fliM	1.053	334	flagellar motor switch protein FliM (flaQ; fla; flaQII; flaAII; flaA; cheC2)	P06974
yiaG	1.050	96	putative DNA-binding transcriptional regulator YiaG	P0A9V5
tomB	1.048	124	Hha toxicity modulator TomB (ybaJ)	P0AAR0
fdnG	1.022	1015	formate dehydrogenase N subunit α	P24183
tdcF	1.018	129	• predicted enamine/imine deaminase (yhaR)	P0AGL2
puuP	1.017	461	putrescine:H ⁺ symporter PuuP (ycjJ)	P76037

yohK	1.014	231	putative 3-hydroxypropanoate export protein YohK	P0AD19
NA	1.010			
yfiM	1.009	107	DUF2279 domain-containing protein YfiM	P46126
narK	1.004	463	nitrate:nitrite antiporter NarK	P10903

	small protein (<100 a.a.)
	predicted chaperon
	prophage
	nitrate/nitrite metabolism
	flageller
	fimbrial
•	carbohydrate utilization
NA	Not Available

Table S4 List of genes significantly upregulated in shaking culture (S>T)

Genes with $|\logFC| > 1$ and a significantly low FDR (FDR < 0.05) were annotated. Genes identified as characteristic of the culture are highlighted or marked (see Table 1).

gene	logFC	size (a.a)	Description: <i>Escherichia coli</i> K-12 substr. MG1655 reference genome (EcoCyc)	UniProt Entry
<i>lacZ</i>	-2.762	1024	• β -galactosidase (β -D-galactoside galactohydrolase; β -D-galactosidase; lactase)	P00722
<i>alsB</i>	-2.620	311	• D-allose ABC transporter periplasmic binding protein (<i>yjcX</i> ; ALBP; allose binding protein)	P39265
<i>alsA</i>	-2.521	510	• D-allose ABC transporter ATP binding subunit (<i>yjcW</i>)	P32721
<i>lacY</i>	-2.370	417	• lactose permease (lactose:H ⁺ symporter; lac permease; galactoside:proton symporter)	P02920
<i>yfdN</i>	-2.309	164	CPS-53 (KpLE1) prophage; uncharacterized protein YfdN (<i>zyyA</i>)	P76510
<i>alsE</i>	-1.994	231	• D-allulose-6-phosphate 3-epimerase (<i>yjcU</i>)	P32719
<i>alsC</i>	-1.958	326	• D-allose ABC transporter membrane subunit (<i>yjcV</i>)	P32720
NA	-1.956			
<i>alsR</i>	-1.945	296	• DNA-binding transcriptional repressor AlsR (<i>yjcY</i> ; <i>rpiR</i>)	P0ACS7
<i>lacA</i>	-1.932	203	• galactoside O-acetyltransferase (thiogalactoside acetyltransferase)	P07464
<i>yhfY</i>	-1.814	120	PRD domain-containing protein YhfY	P45551
NA	-1.748			
NA	-1.704			
<i>xapA</i>	-1.669	277	• xanthosine phosphorylase. xanthosine phosphorylase (<i>pndA</i> ; purine nucleoside phosphorylase II)	P45563
<i>tdcR</i>	-1.646	72	• DNA-binding transcriptional activator TdcR (threonine dehydratase operon activator protein)	P11866
<i>rbsA</i>	-1.629	501	• ribose ABC transporter ATP binding subunit (<i>rbsT</i> ; <i>rbsP</i>)	P04983
NA	-1.575			
<i>ymgC</i>	-1.572	82	protein YmgC (protein involved in biofilm formation)	P75994
NA	-1.551			
<i>yiaW</i>	-1.536	107	DUF3302 domain-containing protein YiaW	P0ADK4
NA	-1.521			
<i>alsK</i>	-1.516	309	• D-allose kinase (<i>yjcT</i>)	P32718
<i>rpiB</i>	-1.486	149	• allose-6-phosphate isomerase / ribose-5-phosphate isomerase B (<i>yjcA</i> ; <i>alsI</i>)	P37351
<i>rutC</i>	-1.467	128	3-aminoacrylate deaminase (<i>ycdK</i> ; putative aminoacrylate peracid reductase RutC)	P0AFQ5
<i>yfdM</i>	-1.438	91	CPS-53 (KpLE1) prophage; putative methyltransferase YfdM (<i>zyyB</i>)	P76509
<i>espX5</i>	-1.433	430	pentapeptide repeat-containing protein YjcF (RS21705; YjcF)	A0AAW9WZX7
<i>uacT</i>	-1.423	482	transporter urate:H ⁺ symporter (<i>ygfU</i>)	Q46821
<i>adiY</i>	-1.399	253	DNA-binding transcriptional activator AdiY	P33234
<i>yadL</i>	-1.386	201	putative fimbrial protein YadL	P37017
NA	-1.385			

NA	-1.377			
<i>ssuC</i>	-1.369	263	aliphatic sulfonate ABC transporter membrane subunit (ycbM)	P75851
<i>lldP</i>	-1.362	551	• lactate/glycolate:H ⁺ symporter LldP (lct; lctP)	P33231
<i>yfbM</i>	-1.343	167	DUF1877 domain-containing protein YfbM	P76483
<i>csgB</i>	-1.330	151	curlin, minor subunit	P0ABK7
NA	-1.326			
<i>yadK</i>	-1.315	198	putative fimbrial protein YadK	P37016
NA	-1.266			
<i>ybhI</i>	-1.258	477	putative tricarboxylate transporter	P75763
<i>cysP</i>	-1.246	338	thiosulfate/sulfate ABC transporter periplasmic binding protein CysP (TSBP)	P16700
<i>glaH</i>	-1.242	325	glutarate dioxygenase GlaH (csi-12; ygaT; csiD)	P76621
<i>yiaL</i>	-1.234	155	DUF386 domain-containing protein YiaL	P37673
NA	-1.234			
<i>cynS</i>	-1.226	156	cyanase (cnt; cyaN)	P00816
<i>fadB</i>	-1.221	729	• multifunctional fatty acid oxidation complex subunit alpha (oldB; multifunctional enoyl-CoA hydratase, 3-hydroxyacyl-CoA epimerase, Δ ³ -cis- Δ ² -trans-enoyl-CoA isomerase, L-3-hydroxyacyl-CoA dehydrogenase)	P21177
<i>uhpT</i>	-1.220	463	• hexose-6-phosphate:phosphate antiporter (UhpT-hexose phosphate MFS transporter)	P0AGC0
<i>fixX</i>	-1.207	95	putative ferredoxin FixX (yaaT; putative ferredoxin possibly involved in anaerobic carnitine metabolism)	P68646
<i>yjbS</i>	-1.205	67	uncharacterized protein YjbS	P58036
<i>glpA</i>	-1.200	542	• anaerobic glycerol-3-phosphate dehydrogenase subunit A	P0A9C0
NA	-1.181			
<i>yihU</i>	-1.181	298	3-sulfolactaldehyde reductase (squU)	P0A9V8
<i>ygeG</i>	-1.175	163	TPR repeat-containing putative chaperone YgeG	Q46787
<i>ybfD</i>	-1.172	253	H repeat-associated putative transposase YbfD	P28916
<i>btsS</i>	-1.159	561	• high-affinity pyruvate receptor (yehU)	P0AD14
<i>yiaT</i>	-1.159	246	outer membrane protein YiaT	P37681
<i>ynfO</i>	-1.144	77	Qin prophage; DUF3950 domain-containing protein YnfO	Q2EES0
<i>ymgA</i>	-1.142	90	putative two-component system connector protein YmgA (protein involved in biofilm formation)	P75992
NA	-1.139			
<i>cynX</i>	-1.137	384	cyanate transporter (CynX cyanate MFS transporter)	P17583
<i>groL</i>	-1.134	548	chaperonin GroEL (groEL; mopA; cpn60)	P0A6F5
NA	-1.133			
<i>rihB</i>	-1.124	313	• pyrimidine-specific ribonucleoside hydrolase RihB (yeiK; ribonucleoside hydrolase 2 (pyrimidine-specific))	P33022
<i>tsuA</i>	-1.119	2247	thiosulfate transporter	Q55FT4
<i>hyfC</i>	-1.116	315	hydrogenase 4 component C	P77858

<i>dctA</i>	-1.116	428	• C4 dicarboxylate/orotate:H ⁺ symporter	P0A830
<i>groS</i>	-1.110	97	cochaperonin GroES (groES; mopB; cpn10)	P0A6F9
<i>glpB</i>	-1.107	419	• anaerobic glycerol-3-phosphate dehydrogenase subunit B (psi-51)	P13033
<i>phnD</i>	-1.107	338	phosphonate/phosphate ABC transporter periplasmic binding protein (phn; psiD; cryptic phosphonate ABC transporter periplasmic binding protein)	P16682
<i>tnaB</i>	-1.095	415	tryptophan:H ⁺ symporter TnaB (tnaP; trpP; TnaB tryptophan ArAAP transporter)	P23173
<i>flhD</i>	-1.087	116	DNA-binding transcriptional dual regulator FlhD (flbB)	P0A8S9
NA	-1.083			
<i>ydiN</i>	-1.075	421	putative transporter YdiN	P76198
<i>ydiF</i>	-1.075	531	acetate-CoA transferase YdiF (fused predicted acetyl-CoA:acetoacetyl-CoA transferase: α subunit/ β subunit; lactate-CoA transferase)	P37766
<i>fixA</i>	-1.075	256	putative electron transfer flavoprotein FixA (yaaQ; putative electron transfer flavoprotein subunit, ETFP adenine nucleotide-binding domain): Qin prophage**	P60566
<i>treC</i>	-1.070	551	• trehalose-6-phosphate hydrolase (treE; olgH)	P28904
<i>allW</i>	-1.069	484	• allantoin transporter (allP; glxB2; ybbW)	P75712
<i>caiD</i>	-1.064	261	• crotonobetainyl-CoA hydratase (yaaL)	P31551
<i>yhfZ</i>	-1.062	301	putative DNA-binding transcriptional regulator YhfZ	P45552
<i>yzgL</i>	-1.062	93	putative uncharacterized protein YzgL	P76692
<i>btsR</i>	-1.045	239	• DNA-binding transcriptional dual regulator BtsR (yehT)	P0AFT5
NA	-1.045			
<i>rutB</i>	-1.043	230	ureidoacrylate amidohydrolase (ycdL; peroxyureidoacrylate amidohydrolase)	P75897
<i>yadN</i>	-1.041	194	putative fimbrial protein YadN	P37050
<i>bgIH</i>	-1.038	538	• carbohydrate-specific outer membrane porin (yieC)	P26218
<i>slp</i>	-1.038	188	starvation lipoprotein	P37194
<i>yggP</i>	-1.037	433	putative zinc-binding dehydrogenase YggP (b2931; b2932)	P52048
<i>lhgO</i>	-1.037	422	L-2-hydroxyglutarate dehydrogenase (ygaF; lhgO)	P37339
<i>ytiD</i>	-1.019	47	Protein YtiD	P0DPC5
<i>lldR</i>	-1.018	258	• DNA-binding transcriptional dual regulator LldR (lct; lctR)	P0ACL7
<i>cmtA</i>	-1.014	462	• mannitol-specific PTS enzyme IICB component CmtA (EIICB ^{Cmt} ; Enzyme IICB ^{Cmt})	P69826
<i>yjdP</i>	-1.012	109	protein YjdP	Q6BEX5
<i>nohA</i>	-1.011	189	putative prophage DNA-packaging protein NohA (nohQ)	P31061
<i>araB</i>	-1.010	566	• Ribulokinase	P08204
<i>setC</i>	-1.005	394	putative arabinose exporter (yicK; YicK MFS Transporter)	P31436
<i>ariR</i>	-1.003	88	putative two-component system connector protein AriR (ymgB; regulator of acid resistance, influenced by indole)	P75993

	small protein (<100 a.a.)
	predicted chaperon
	prophage





-  nitrate/nitrite metabolism
-  flageller
-  fimbrial
-  carbohydrate utilization
- NA Not Available

Table S5 Turbidity (OD₆₀₀) of cultures collected for the transcriptome analysis

Cell densities were measured after 3 h of incubation. Values represent the mean OD₆₀₀ of pooled replicates (n=3 for each group, S01–S03 and T01–T03). Statistical analysis (Student's t-test) showed no significant difference in growth between shaking and static conditions, ensuring that transcriptomic differences are not confounded by differences in growth phase.

Sample	OD ₆₀₀
S01	0.8263
S02	0.8816
S03	0.8445
T01	0.9247
T02	0.8154
T03	0.7732

Table S6 Results of gene ontology (GO) enrichment analysis of differentially expressed genes (DEGs)
 Categories included Biological Process (1), Molecular Function (2), and Cellular Component (3). The top 10 results, sorted in ascending order of P-value, are shown. For combinations with 500 or more DEGs, the top 500 genes (ranked by the lowest FDR) were used for the analysis.

(a) Top 10 of GO enrichment analysis (Biological Process categori, S vs T)

GO. ID	Term	Annotated*	Significant**	Expected***	P value****
GO:0006082	organic acid metabolic process	205	44	26.41	0.00016
GO:0043436	oxoacid metabolic process	201	43	25.9	0.00021
GO:0019752	carboxylic acid metabolic process	196	42	25.25	0.00025
GO:0042953	lipoprotein transport	4	4	0.52	0.00027
GO:0044872	lipoprotein localization	4	4	0.52	0.00027
GO:0009072	aromatic amino acid metabolic process	13	7	1.67	0.00046
GO:0009073	aromatic amino acid family biosynthetic process	10	6	1.29	0.00057
GO:0016053	organic acid biosynthetic process	95	23	12.24	0.00135
GO:0046394	carboxylic acid biosynthetic process	95	23	12.24	0.00135
GO:0006551	leucine metabolic process	3	3	0.39	0.00211

(b) Top 10 of GO enrichment analysis (Molecular Function categori, S vs T)

GO. ID	Term	Annotated*	Significant**	Expected***	P value****
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GO:0016901	oxidoreductase activity, acting on the CH-OH group of donors, quinone or similar compound as acceptor	6	6	0.78	4.70E-06
GO:0004368	glycerol-3-phosphate dehydrogenase (quinone) activity	4	4	0.52	0.00029
GO:0008028	monocarboxylic acid transmembrane transporter activity	5	4	0.65	0.00128
GO:0016614	oxidoreductase activity, acting on CH-OH group of donors	53	15	6.92	0.0022
GO:0001072	transcription antitermination factor activity, RNA binding	3	3	0.39	0.00221
GO:0003861	3-isopropylmalate dehydratase activity	2	2	0.26	0.01701
GO:0004106	chorismate mutase activity	2	2	0.26	0.01701
GO:0004834	tryptophan synthase activity	2	2	0.26	0.01701
GO:0016836	hydro-lyase activity	33	9	4.31	0.02144
GO:0004672	protein kinase activity	23	7	3	0.02288

(c) Top 10 of GO enrichment analysis (Cellular Component category, S vs T)

GO. ID	Term	Annotated*	Significant**	Expected***	P value****
GO: 1990204	oxidoreductase complex	19	8	2.26	0.0007

GO: 1902494	catalytic complex	57	15	6.78	0.0012
GO:0009331	glycerol-3-phosphate dehydrogenase complex	3	3	0.36	0.0016
GO:0009288	bacterial-type flagellum	16	6	1.9	0.007
GO:0009316	3-isopropylmalate dehydratase complex	2	2	0.24	0.014
GO:0045254	pyruvate dehydrogenase complex	2	2	0.24	0.014
GO:0042995	cell projection	36	8	4.28	0.0516
GO:0009425	bacterial-type flagellum basal body	8	3	0.95	0.0582
GO:0005737	cytoplasm	92	15	10.94	0.1088
GO:0009325	nitrate reductase complex	5	2	0.59	0.11

*Annotated: Number of genes annotated to a specific GO term among all of the genes **Number of genes associated with a GO term among the DEGs.

***Expected: The number of genes predicted to occur in the DEG list by chance

****P-value calculated by Fisher's exact test