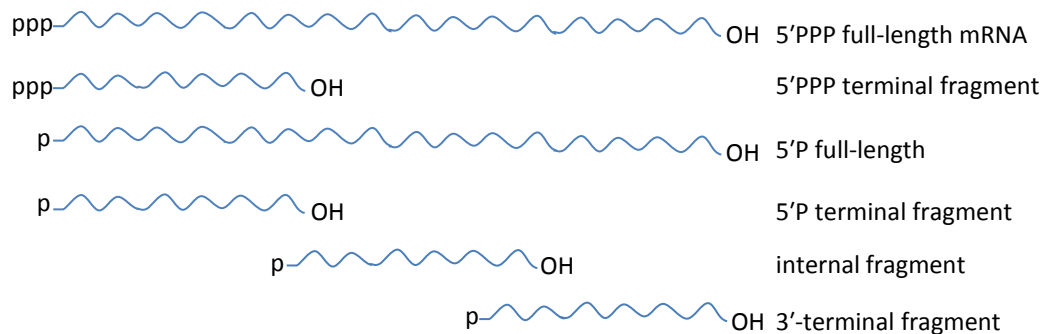


Fig. S1

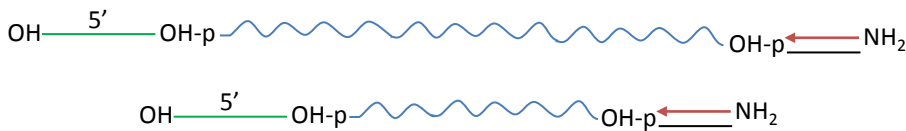
A. Isolate rRNA-depleted total RNA



B. Ligate 3' SR adaptor rApp—3'—NH₂

C. RT primer hybridization (remove excess 3' adaptor)

D. Ligate 5' SR adaptor (RNA) OH—5'—OH



E. Fragment with Mg²⁺ to 100-200 nt



F. Ligate 3' SR adaptor rApp—3'—NH₂



G. RT primer hybridization

H. Reverse transcription



I. PCR using extended primers with barcodes



J. Clean-up with AMPure Beads

K. Illumina sequence (50-nt single reads)

L. Align with *B. subtilis* genome sequence

LEGEND

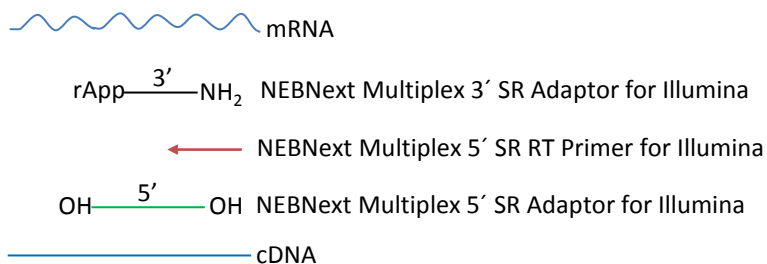


Fig. S2

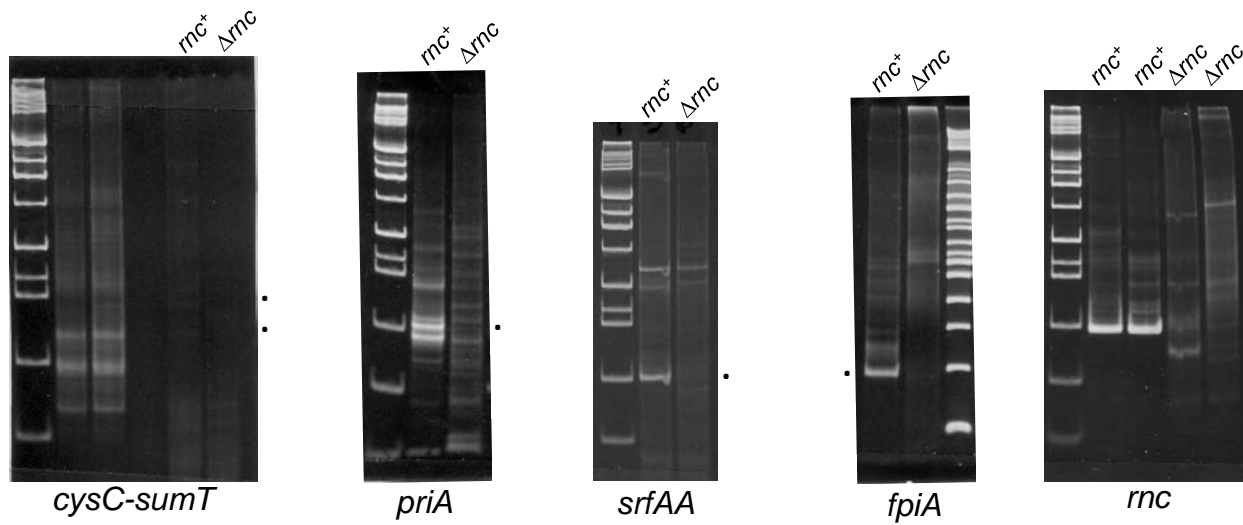


Fig. S2. 5' RLM-RACE products: Dot(s) at side of gel indicate band(s) that were cut out for cloning and sequencing.

Fig. S3

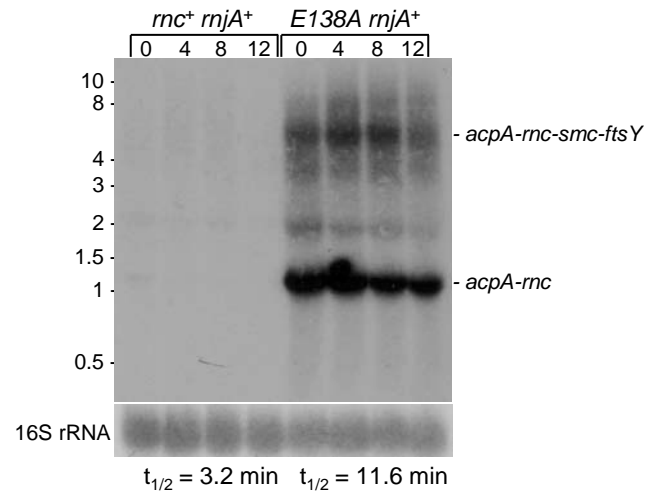


Fig. S3. Lighter exposure of Fig. 5C, showing full Northern blot results.

Table S1. Oligonucleotides used in this study.

Oligo	Gene	Sequence
CC172	16S rRNA downstream probe and primer extension	AAA ACT AAA CAA GAC AGG GAA CG
CC1059	5'-RACE primer for 5S rRNA	TGG TGG CGA TAG CGA AGA G
CC1060	5'-RACE primer downstream of 16S rRNA	AGA CCC AAG GTC TTA TAT TCC G
DHB1314	<i>rnc</i> probe	GCA CGT ATT CCT GCA GCT GGC
DHB1318	<i>rncE138A</i> mutagenesis F*	GCT CTA TTG GCG GAT GTT TTT <u>GCA</u> GCA TTT ATC GGA GCC TTG TAC
DHB1319	<i>rncE138A</i> mutagenesis R*	GTA CAA GGC TCC GAT AAA TGC <u>TGC</u> AAA AAC ATC CGC CAA TAG AGC
DHB1342	<i>putP</i> probe	GAC GGA GCC TGC GTC AAT ATG CTG AC
DHB1482	NEBNext SR Primer (inner nested)	GTT CAG AGT TCT ACA GTC CGA CGA TC
DHB1486	<i>srfAA</i> primer for 5'-RACE	CAG AAT CTG CTG ATG AAG CGC TTC AGG
DHB1491	<i>rnc</i> primer for 5'-RACE	GGT TCG CAA ACA ATT GCG GCT CTC
DHB1505	<i>priA</i> inner primer for 5'-RACE	GGC CGG GCT TTT CAT GCC TGC C
DHB1510	NEBNext SR Primer (outer nested)	CGA CCA CCG AGA TCT ACA CGT TCA GAG TTC TAC AGT CCG
DHB1512	<i>putP</i> primer for 5'-RACE	GGT AGT CGT TGA ACT GGT CTG TGA C
DHB1517	<i>priA</i> outer primer for 5'-RACE	CGT GTG TTT TCG TCA GCT GGA TAC TG
DHB1533	<i>fpiA</i> outer primer for 5'-RACE	CCA TGT ACT TCG CTG TAT CTA CAC CAA GG
DHB1534	<i>fpiA</i> inner primer for 5'-RACE	CCA AGG TAA ATC GTC GGC GC
DHB1541	<i>cysC-sumT</i> outer primer for 5'-RACE	GGT CTC CGC CTT TCA GTC TGA C
DHB1542	<i>cysC-sumT</i> inner primer for 5'-RACE	AAT CCG GAA GCT TCC CGC AG
DHB1558	<i>lacO</i> probe	AAG CTT AAT TGT TAT CCG CTC ACA ATT
DHB1714	16S rRNA probe	CCA TGG TGT GAC GGG CGG TG
DHB1716	<i>srfAA</i> probe	CAA CCG AAG GCG CAT GGC GTC ATT TCT GC

* Nucleotides that were mutagenized are underlined.

Table S2. RNA reads in strains deleted for *rnjA*, and wild-type or deleted for *rnc*.

Gene Name	CDS start	CDS end	<i>rnc</i> ⁺ <i>rnjA</i>	<i>rnc</i> <i>rnjA</i>	<i>rnc</i> <i>rnjA</i> / <i>rnjA</i>
BSU00010,dnaA	410	1750	19.23	9.93	0.52
BSU00020,dnaN	1939	3075	14.91	8.14	0.55
BSU00030,yaaA	3206	3421	32.61	7.82	0.24
BSU00040,recF	3437	4549	62.57	17.03	0.27
BSU00050,yaaB	4567	4812	56.64	17.11	0.30
BSU00060,gyrB	4867	6783	85.30	21.57	0.25
BSU00070,gyrA	6994	9459	62.29	19.90	0.32
BSU00080,yaaC	14847	15794	0.39	0.26	0.69
BSU00090,guaB	15915	17381	126.56	409.31	3.23
BSU00100,dacA	17534	18865	36.20	14.87	0.41
BSU00110,yaaD	19062	19946	18.19	18.15	1.00
BSU00120,yaaE	19968	20558	27.41	23.91	0.87
BSU00130,serS	20880	22157	9.58	11.38	1.19
BSU00140,dck	22496	23149	7.91	5.65	0.71
BSU00150,dgk	23146	23769	5.23	4.17	0.80
BSU00160,yaaH	23868	25151	0.27	0.40	1.49
BSU00170,yaaI	25221	25766	0.59	1.52	2.57
BSU00180,tadA	25852	26337	2.57	10.04	3.90
BSU00190,dnaX	26814	28505	5.09	2.84	0.56
BSU00200,yaaK	28529	28852	12.45	8.93	0.72
BSU00210,recR	28867	29463	6.19	4.21	0.68
BSU00220,yaaL	29481	29705	11.20	7.31	0.65
BSU00230,bofA	29772	30035	1.17	1.64	1.41
BSU00240,csfB	35531	35725	0.77	0.74	0.95
BSU00250,xpaC	35845	36459	3.08	3.51	1.14
BSU00260,yaaN	36478	37638	3.41	3.33	0.98
BSU00270,yaaO	37720	39162	9.06	6.15	0.68
BSU00280,tmk	39159	39797	7.46	4.89	0.65
BSU00290,yaaQ	39871	40200	10.61	12.37	1.17
BSU00300,yaaR	40213	40653	9.07	9.88	1.09
BSU00310,holB	40665	41654	10.17	10.70	1.05
BSU00320,yaaT	41657	42484	30.51	25.11	0.82
BSU00330,yabA	42499	42858	43.22	39.67	0.92
BSU00340,yabB	42917	43660	2.99	2.40	0.80
BSU00350,yazA	43647	43946	3.05	3.07	1.01
BSU00360,yabC	43921	44799	2.97	3.40	1.15
BSU00370,abrB	44848	45138	24.25	50.06	2.06
BSU00380,metS	45633	47627	11.56	11.20	0.97
BSU00390,yabD	47706	48473	1.13	4.04	3.57
BSU00400,yabE	48629	49942	12.26	23.04	1.88
BSU00410,rnmV	50087	50647	6.80	3.16	0.46
BSU00420,ksrA	50640	51518	11.05	4.78	0.43
BSU00430,yabG	51680	52552	0.29	0.32	1.14

BSU00440,veg	52763	53023	25.10	37.06	1.48
BSU00450,sspF	53183	53368	1.19	6.43	5.40
BSU00460,ipk	53516	54385	24.76	12.44	0.50
BSU00470,purR	54441	55298	48.29	30.29	0.63
BSU00480,yabJ	55295	55672	52.92	42.66	0.81
BSU00490,spoVG	55866	56159	25.73	157.86	6.14
BSU00500,glmU	56352	57722	49.71	19.96	0.40
BSU00510,prs	57745	58698	73.59	34.97	0.48
BSU00520,ctc	58783	59397	140.04	85.27	0.61
BSU00530,pth	59504	60070	5.48	6.34	1.16
BSU00540,yabK	60130	60360	7.40	7.96	1.08
BSU00550,mfd	60430	63963	11.88	7.09	0.60
BSU00560,spoVT	64099	64635	17.90	10.49	0.59
BSU00570,yabM	64817	66415	3.08	1.61	0.52
BSU00580,yabN	66405	67874	5.86	3.35	0.57
BSU00590,yabO	67877	68137	6.98	5.30	0.76
BSU00600,yabP	68216	68518	8.94	6.93	0.78
BSU00610,yabQ	68515	69150	13.83	11.29	0.82
BSU00620,divIC	69168	69545	29.68	31.83	1.07
BSU00630,yabR	69626	70012	131.32	86.97	0.66
BSU00640,spolIE	70538	73021	3.16	1.21	0.38
BSU00650,yabS	73106	73843	3.22	2.14	0.66
BSU00660,yabT	73809	74825	1.57	0.84	0.53
BSU00670,tiiS	74929	76347	17.77	19.24	1.08
BSU00680,hprT	76344	76886	23.30	25.65	1.10
BSU00690,ftsH	76984	78897	100.88	85.49	0.85
BSU00700,coaX	79092	79868	5.23	3.34	0.64
BSU00710,hslO	79880	80755	10.66	6.53	0.61
BSU00720,yacD	80802	81695	1.15	2.15	1.87
BSU00730,cysK	81771	82697	16.75	17.98	1.07
BSU00740,pabB	82864	84276	2.70	3.64	1.35
BSU00750,pabA	84290	84874	7.59	5.86	0.77
BSU00760,pabC	84874	85755	6.54	4.43	0.68
BSU00770,sul	85737	86594	12.14	10.72	0.88
BSU00780,folB	86587	86949	11.04	8.90	0.81
BSU00790,folK	86946	87449	16.66	11.40	0.68
BSU00800,yazB	87401	87610	36.47	32.41	0.89
BSU00810,dusB	87634	88635	51.17	60.82	1.19
BSU00820,lysS	88727	90226	42.61	47.61	1.12
BSU00830,ctsR	101449	101913	1.54	2.47	1.60
BSU00840,mcsA	101927	102484	3.07	3.93	1.28
BSU00850,mcsB	102484	103575	4.07	4.36	1.07
BSU00860,clpC	103572	106004	12.36	12.31	1.00
BSU00870,radA	106096	107472	4.51	3.40	0.75
BSU00880,yacK	107476	108558	3.45	2.79	0.81
BSU00890,yacL	108674	109774	7.55	6.17	0.82
BSU00900,ispD	109789	110487	13.63	8.76	0.64

BSU00910,ispF	110480	110956	5.40	4.96	0.92
BSU00920,gltx	111047	112498	53.01	44.21	0.83
BSU00930,cysE	112800	113453	3.61	1.81	0.50
BSU00940,cysS	113450	114850	8.22	5.55	0.67
BSU00950,mrnC	114854	115285	4.51	3.88	0.86
BSU00960,rlmB	115269	116018	2.78	2.16	0.78
BSU00970,yacP	116025	116537	2.01	1.40	0.70
BSU00980,sigH	116600	117256	5.92	6.90	1.17
BSU00990,rpmG	117349	117498	28.60	31.12	1.09
BSU01000,secE	117532	117711	43.18	43.00	1.00
BSU01010,nusG	117890	118423	14.74	9.20	0.62
BSU01020,rplK	118591	119016	585.52	286.56	0.49
BSU01030,rplA	119111	119809	209.55	105.89	0.51
BSU01040,rplJ	120061	120561	396.22	166.30	0.42
BSU01050,rplL	120607	120978	568.49	285.06	0.50
BSU01060,ybxB	121068	121673	3.28	2.17	0.66
BSU01070,rpoB	121919	125500	77.49	52.02	0.67
BSU01080,rpoC	125562	129161	162.04	91.91	0.57
BSU01090,ybxF	129340	129588	123.78	37.38	0.30
BSU01100,rpsL	129702	130118	363.66	143.40	0.39
BSU01110,rpsG	130160	130630	441.60	234.18	0.53
BSU01120,fusA	130684	132762	370.53	204.68	0.55
BSU01130,tufA	132882	134072	518.18	325.38	0.63
BSU01140,ybaC	134171	135127	0.95	1.54	1.63
BSU01150,rpsJ	135364	135672	195.28	96.29	0.49
BSU01160,rplC	135712	136341	270.57	132.71	0.49
BSU01170,rplD	136369	136992	310.08	160.52	0.52
BSU01180,rplW	136992	137279	353.19	184.11	0.52
BSU01190,rplB	137311	138144	388.24	196.62	0.51
BSU01200,rpsS	138202	138480	201.44	93.96	0.47
BSU01210,rplV	138497	138838	205.34	96.41	0.47
BSU01220,rpsC	138842	139498	177.30	79.83	0.45
BSU01230,rplP	139500	139934	154.61	70.75	0.46
BSU01240,rpmC	139924	140124	200.60	89.40	0.45
BSU01250,rpsQ	140147	140410	199.15	90.63	0.46
BSU01260,rplN	140451	140819	197.09	88.14	0.45
BSU01270,rplX	140857	141168	180.61	87.70	0.49
BSU01280,rplE	141195	141734	166.63	81.95	0.49
BSU01290,rpsN	141757	141942	210.97	106.13	0.50
BSU01300,rpsH	141974	142372	164.75	80.82	0.49
BSU01310,rplF	142402	142941	172.92	81.05	0.47
BSU01320,rplR	142974	143336	194.23	95.66	0.49
BSU01330,rpsE	143361	143861	163.56	80.46	0.49
BSU01340,rpmD	143875	144054	199.64	103.31	0.52
BSU01350,rplO	144085	144525	219.70	120.22	0.55
BSU01360,secY	144527	145822	150.57	85.48	0.57
BSU01370,adk	145877	146530	122.80	75.83	0.62

BSU01380,mapA	146527	147273	135.28	65.87	0.49
BSU01389,ybzG	147312	147536	194.08	93.06	0.48
BSU01390,infA	147585	147803	237.09	106.23	0.45
BSU01400,rpmJ	147837	147950	328.46	149.15	0.45
BSU01410,rpsM	147973	148338	212.60	103.40	0.49
BSU01420,rpsK	148359	148754	256.41	130.62	0.51
BSU01430,rpoA	148931	149875	247.83	127.97	0.52
BSU01440,rplQ	149953	150315	268.98	154.04	0.57
BSU01450,cbiO	150443	151288	7.34	32.39	4.41
BSU01460,cbiO	151303	152133	24.51	38.60	1.57
BSU01470,ybaF	152130	152927	26.62	36.90	1.39
BSU01480,truA	152937	153680	29.13	42.71	1.47
BSU01490,rplM	153842	154279	514.98	440.00	0.85
BSU01500,rpsI	154300	154692	601.15	476.38	0.79
BSU01510,ybaJ	155156	155923	2.45	4.45	1.82
BSU01520,ybaK	156109	156552	0.35	2.08	5.96
BSU01530,cwlD	156612	157325	0.43	2.01	4.72
BSU01540,salA	157421	158479	8.88	8.94	1.01
BSU01550,gerD	158515	159072	1.52	2.20	1.45
BSU01560,kbaA	159182	159778	0.96	1.54	1.60
BSU01570,ybaN	159779	160543	0.64	1.21	1.89
BSU01580,ybaR	177083	178519	32.44	15.20	0.47
BSU01590,ybaS	178665	179585	10.05	9.57	0.95
BSU01600,ybbA	179595	180347	1.11	1.43	1.29
BSU01610,feuC	180344	181354	1.52	1.43	0.94
BSU01620,feuB	181347	182351	1.70	1.42	0.83
BSU01630,feuA	182370	183323	1.91	1.90	0.99
BSU01640,ybbB	183414	185003	1.52	1.21	0.79
BSU01650,ybbC	185194	186438	0.30	0.64	2.16
BSU01660,ybbD	186452	188380	0.16	0.50	3.04
BSU01670,ybbE	188408	189733	0.16	0.64	4.06
BSU01680,ybbF	189790	191157	0.11	0.55	4.87
BSU01690,ybbH	191183	192034	0.16	0.63	4.02
BSU01700,murQ	192051	192965	0.27	0.94	3.55
BSU01710,ybbJ	193075	193557	0.22	0.58	2.68
BSU01720,ybbK	193570	194025	0.32	0.84	2.58
BSU01730,sigW	194849	195412	16.21	8.64	0.53
BSU01740,rsiW	195426	196052	29.60	19.17	0.65
BSU01750,ybbP	196213	197034	7.20	5.78	0.80
BSU01760,ybbR	197027	198478	8.90	6.68	0.75
BSU01770,glmM	198497	199843	12.19	14.37	1.18
BSU01780,glmS	200277	202079	279.31	150.85	0.54
BSU01800,alkA	202547	203458	1.22	1.48	1.21
BSU01810,adaA	203729	204364	0.24	0.39	1.66
BSU01820,adaB	204351	204890	0.90	1.00	1.12
BSU01830,ndhF	205409	206926	3.25	2.79	0.86
BSU01845,ybcC	206941	209556	3.47	2.81	0.81

BSU01860,ybcF	209633	210160	3.23	3.30	1.02
BSU01870,ybcH	210224	210514	3.40	3.35	0.99
BSU01880,ybcI	210572	210946	3.73	4.36	1.17
BSU01889,ybzH	211429	211731	7.92	8.45	1.07
BSU01890,ybcL	211859	213031	0.83	0.54	0.64
BSU01900,ybcM	213155	213469	0.12	0.12	1.03
BSU01910,skfA	213941	214108	1.09	0.81	0.74
BSU01920,skfB	214175	215407	0.16	0.15	0.96
BSU01935,skfC	215404	216894	0.23	0.37	1.58
BSU01950,skfE	216913	217632	0.39	0.84	2.16
BSU01960,skfF	217697	219040	0.24	0.40	1.68
BSU01970,skfG	219087	219602	0.24	0.34	1.39
BSU01980,skfH	219607	220032	0.34	0.59	1.73
BSU01990,ybdG	220279	221256	0.31	0.24	0.76
BSU02000,ybdJ	221258	221929	0.37	0.34	0.91
BSU02010,ybdK	221950	222912	0.55	0.51	0.92
BSU02019,ybzI	222971	223234	4.65	3.94	0.85
BSU02030,ybdM	223219	223989	0.91	1.02	1.12
BSU02040,ybdN	224075	224932	1.43	0.90	0.63
BSU02050,ybdO	225064	226248	0.41	0.34	0.84
BSU02060,ybxG	226566	227954	4.08	4.44	1.09
BSU02070,csgA	228066	228314	0.25	0.96	3.82
BSU02080,ybxH	228331	228522	0.29	1.03	3.54
BSU02090,ybxI	228549	229352	0.39	0.94	2.44
BSU02100,cypC	229525	230778	0.20	0.65	3.27
BSU02110,ybyB	230819	231079	0.24	3.96	16.63
BSU02120,ybeC	231348	232967	1.31	3.99	3.04
BSU02130,glpQ	233014	233895	5.46	7.63	1.40
BSU02140,glpT	233994	235328	2.81	3.62	1.29
BSU02150,ybeF	235625	235873	0.84	0.57	0.68
BSU02160,ybfA	235965	236882	0.91	0.69	0.76
BSU02170,ybfB	236879	238129	1.90	2.01	1.06
BSU02180,ybfE	238164	238448	1.30	2.02	1.56
BSU02190,ybfF	238644	239555	0.60	1.86	3.09
BSU02200,ybfG	239644	241842	1.48	1.51	1.02
BSU02210,ybfH	241917	242837	3.02	3.04	1.00
BSU02220,ybfI	242834	243661	0.87	0.77	0.88
BSU02230,purT	243892	245046	0.74	2.23	3.01
BSU02240,mpr	245190	246131	0.34	1.37	4.07
BSU02250,ybfJ	246094	246492	0.49	2.04	4.17
BSU02260,ybfK	246658	247548	2.98	2.54	0.85
BSU02270,pssA	247744	248277	12.42	5.93	0.48
BSU02280,ybfM	248268	248756	15.02	6.79	0.45
BSU02290,psd	248749	249540	18.68	8.53	0.46
BSU02300,ybfN	249595	249873	1.44	0.99	0.69
BSU02310,ybfO	249979	251319	0.65	0.35	0.53
BSU02320,ybfP	251427	252314	0.45	0.37	0.82

BSU02330,ybfQ	252514	253482	13.96	7.12	0.51
BSU02340,glpP	253518	254762	0.46	1.15	2.49
BSU02350,nagP	254907	256802	27.00	38.23	1.42
BSU02360,nagBB	256823	257572	10.35	15.63	1.51
BSU02370,ybgA	257791	258498	4.49	5.27	1.17
BSU02380,ybgB	258532	258807	8.74	9.26	1.06
BSU02390,ybgE	259016	260086	0.29	0.25	0.87
BSU02400,ybgF	260123	261535	0.40	3.16	7.86
BSU02410,mmuM	261656	262603	0.25	1.08	4.37
BSU02420,glpT	262732	264168	0.13	0.13	0.98
BSU02430,ybgJ	264191	265174	0.10	0.09	0.86
BSU02440,glpJ	265476	266708	1.22	1.15	0.95
BSU02450,glpL	266719	267663	1.17	0.93	0.80
BSU02460,ycbC	267890	268816	0.05	0.08	1.38
BSU02470,ycbD	268846	270312	0.07	0.09	1.30
BSU02480,gudP	270396	271763	0.10	0.10	0.97
BSU02490,gudD	271800	273167	0.07	0.06	0.91
BSU02500,ycbG	273237	273938	2.00	1.83	0.92
BSU02510,garD	274029	275561	1.29	0.94	0.73
BSU02520,ycbJ	275838	276758	19.56	7.52	0.38
BSU02530,rtpA	277160	277321	2.20	2.56	1.17
BSU02540,ycbK	277342	278280	1.55	1.82	1.17
BSU02550,ycbL	278377	279057	0.70	0.79	1.12
BSU02560,ycbM	279059	279994	1.02	0.79	0.77
BSU02570,ycbN	280086	281009	2.53	2.61	1.03
BSU02580,ycbO	281028	281714	3.17	2.78	0.88
BSU02590,ycbP	281769	282155	0.71	4.86	6.85
BSU02600,cwlJ	282469	282897	0.45	0.44	0.97
BSU02610,ycbR	283003	283734	1.82	1.48	0.82
BSU02619,yczK	283816	283992	0.19	0.31	1.61
BSU02620,phoD	284011	285762	0.29	0.49	1.68
BSU02630,tatAD	285775	285987	0.57	1.14	2.01
BSU02640,tatCD	286048	286776	1.81	1.42	0.78
BSU02650,pcp	286773	287420	1.72	1.51	0.88
BSU02660,ycbU	287499	288611	3.47	2.19	0.63
BSU02670,lmrB	288653	290092	22.67	11.80	0.52
BSU02680,lmrA	290132	290698	41.07	25.16	0.61
BSU02690,ansZ	290915	292042	0.76	0.49	0.64
BSU02700,estA	292205	292843	1.24	0.60	0.48
BSU02710,yczC	292881	293264	3.59	1.20	0.33
BSU02720,yccF	293499	294575	9.58	6.04	0.63
BSU02730,natK	294615	295571	4.35	3.33	0.77
BSU02740,natR	295584	296285	1.60	1.85	1.15
BSU02750,natA	296429	297169	0.73	0.93	1.27
BSU02760,natB	297170	298330	1.29	1.40	1.09
BSU02770,yccK	298466	299398	0.69	1.79	2.60
BSU02780,ycdA	299438	300502	6.25	3.28	0.52

BSU02790,ycdB	300830	302248	0.33	0.76	2.27
BSU02800,ycdC	302435	303796	0.83	0.65	0.79
BSU02810,cwlK	303804	304307	1.07	0.95	0.89
BSU02820,rapJ	304430	305551	10.85	11.20	1.03
BSU02830,ycdF	305658	306434	0.19	0.75	3.95
BSU02840,ycdG	306459	308144	0.36	0.99	2.80
BSU02850,adcA	308332	309291	4.10	5.39	1.32
BSU02860,adcC	309347	310042	2.40	2.55	1.06
BSU02870,adcB	310000	310842	13.04	7.02	0.54
BSU02880,yceB	310880	311875	1.36	1.85	1.37
BSU02890,yceC	312159	312758	5.48	8.75	1.60
BSU02900,yceD	312780	313361	27.83	43.11	1.55
BSU02910,yceE	313396	313974	34.01	52.88	1.56
BSU02920,yceF	314025	314798	30.83	47.94	1.56
BSU02930,yceG	314883	316496	5.87	17.77	3.03
BSU02940,yceH	316512	317603	6.24	17.78	2.85
BSU02950,yceI	317725	318927	0.76	5.17	6.81
BSU02960,yceJ	319180	320352	0.22	0.17	0.79
BSU02970,yceK	320421	320723	15.42	17.44	1.13
BSU02980,opuAA	321013	322269	10.27	32.62	3.18
BSU02990,opuAB	322271	323119	24.04	46.14	1.92
BSU03000,opuAC	323119	324000	21.35	40.74	1.91
BSU03010,amhX	324038	325189	0.33	0.83	2.51
BSU03020,ycgA	325339	326772	0.46	0.83	1.81
BSU03030,ycgB	326888	327469	1.50	1.18	0.79
BSU03040,amyE	327618	329597	10.52	4.21	0.40
BSU03050,ldh	329774	330739	0.71	3.79	5.30
BSU03060,lctP	330771	332396	0.99	11.16	11.21
BSU03070,mdr	332441	333979	17.87	12.09	0.68
BSU03080,ycgE	334092	334556	3.83	2.52	0.66
BSU03090,ycgF	334630	335259	3.98	2.63	0.66
BSU03100,ycgG	335329	336090	2.99	1.86	0.62
BSU03110,ycgH	336092	337432	0.28	0.39	1.41
BSU03120,ycgI	337562	338158	0.11	0.11	1.02
BSU03130,nadE	338288	339106	27.50	22.75	0.83
BSU03140,tmrB	339156	339749	1.05	0.91	0.87
BSU03150,aroK	340025	340585	2.68	3.52	1.31
BSU03160,ycgJ	340613	341374	0.74	0.86	1.16
BSU03170,ycgK	341492	342466	1.17	1.19	1.02
BSU03180,cah	342538	343494	0.90	1.61	1.79
BSU03190,ycgL	343578	344360	0.74	0.78	1.05
BSU03200,ycgM	344551	345462	0.15	0.34	2.24
BSU03210,ycgN	345479	347026	0.79	1.08	1.37
BSU03220,ycgO	347150	348571	1.24	8.61	6.92
BSU03230,ycgP	348724	349959	1.06	1.82	1.72
BSU03240,ycgQ	349996	350853	4.79	2.98	0.62
BSU03250,ycgR	350858	351742	2.51	1.36	0.54

BSU03260,ycgS	351842	352696	1.00	1.65	1.65
BSU03270,ycgT	352858	353868	0.74	0.65	0.88
BSU03280,nasF	353900	355351	1.71	2.59	1.51
BSU03290,nasE	355412	355732	1.39	1.30	0.93
BSU03300,nasD	355764	358181	0.52	0.36	0.69
BSU03310,nasC	358303	360435	0.18	0.11	0.63
BSU03320,nasB	360442	362757	0.28	0.17	0.61
BSU03330,nasA	362937	364142	3.00	0.98	0.33
BSU03340,yciA	364259	365173	0.12	0.12	1.00
BSU03350,yciB	365170	365754	0.08	0.08	1.05
BSU03359,yczL	365850	366035	0.10	0.05	0.48
BSU03360,yciC	366063	367256	0.17	0.11	0.65
BSU03370,yckA	367305	367985	25.35	10.24	0.40
BSU03380,yckB	367995	368858	19.77	7.67	0.39
BSU03390,yckC	369236	369691	4.65	2.19	0.47
BSU03400,yckD	369773	370105	0.38	0.51	1.35
BSU03410,bglC	370259	371692	0.47	0.86	1.84
BSU03420,nin	371729	372127	14.96	15.26	1.02
BSU03430,nucA	372154	372597	2.57	2.96	1.15
BSU03440,tlpC	372771	374492	0.76	1.03	1.36
BSU03450,hxlB	374603	375160	0.98	1.75	1.79
BSU03460,hxlA	375166	375798	0.71	1.59	2.24
BSU03470,hxlR	376032	376394	0.16	0.22	1.34
BSU03480,srfAA	376968	387731	26.72	20.75	0.78
BSU03490,srfAB	387744	398495	29.76	22.39	0.75
BSU03500,comS	390880	391020	34.09	32.93	0.97
BSU03510,srfAC	398532	402359	47.39	30.02	0.63
BSU03520,srfAD	402388	403116	50.90	33.54	0.66
BSU03530,ycxA	403217	404443	1.36	2.81	2.07
BSU03540,ycxB	404458	405015	2.24	1.73	0.77
BSU03550,ycxC	405069	406007	0.91	0.76	0.83
BSU03560,ycxD	406131	407465	1.23	1.12	0.92
BSU03580,yczE	408240	408887	17.83	7.88	0.44
BSU03590,tcyC	409208	409951	11.24	8.32	0.74
BSU03600,tcyB	409965	410669	6.61	3.71	0.56
BSU03610,tcyA	410656	411462	7.97	4.08	0.51
BSU03620,yclA	411578	412450	0.32	0.43	1.37
BSU03630,yclB	412540	413154	0.09	0.11	1.17
BSU03640,ubiD	413157	414578	0.16	0.20	1.28
BSU03651,bsdD	414595	414822	0.36	0.49	1.39
BSU03652,yclD	414819	415283	0.36	0.46	1.27
BSU03660,yclE	415350	416195	0.98	1.09	1.12
BSU03670,ntpT	416235	417713	75.24	17.46	0.23
BSU03680,yclG	417993	419747	0.30	0.15	0.49
BSU03690,yczF	419763	419984	0.15	0.21	1.43
BSU03700,gerKA	420110	421744	0.34	0.32	0.95
BSU03710,gerKC	421734	422957	0.42	0.35	0.82

BSU03720,gerKB	422982	424103	0.58	0.47	0.82
BSU03730,yclH	424208	424888	0.29	0.26	0.89
BSU03740,yclI	424904	426364	0.20	0.16	0.80
BSU03750,yclJ	426577	427260	4.53	5.53	1.22
BSU03760,yclK	427247	428668	6.27	6.40	1.02
BSU03770,rapC	428831	429979	5.76	9.80	1.70
BSU03780,phrC	429963	430085	39.07	74.65	1.91
BSU03789,yczN	430356	430469	0.99	3.90	3.94
BSU03790,yclM	430623	431987	0.32	2.09	6.49
BSU03800,yclN	432372	433322	12.12	9.44	0.78
BSU03810,yclO	433315	434262	14.68	12.16	0.83
BSU03820,yclP	434256	435014	13.12	13.97	1.06
BSU03830,yclQ	435036	435989	18.56	25.41	1.37
BSU03840,ycnB	436036	437454	6.70	3.73	0.56
BSU03850,ycnC	437474	438352	1.80	1.30	0.72
BSU03860,ycnD	438516	439265	1.71	1.76	1.03
BSU03870,ycnE	439282	439569	1.44	1.70	1.18
BSU03880,yczG	439709	440023	13.12	15.25	1.16
BSU03890,gabR	440025	441464	0.31	0.55	1.80
BSU03900,gabT	441571	442881	0.20	0.19	0.93
BSU03910,gabD	442950	444338	6.26	5.05	0.81
BSU03920,glcU	444461	445324	0.42	0.62	1.49
BSU03930,gdh	445344	446129	0.81	1.26	1.55
BSU03940,ycnI	446174	446788	16.07	11.44	0.71
BSU03950,ycnJ	446801	448426	7.56	5.48	0.72
BSU03960,ycnK	448461	449033	4.77	4.60	0.97
BSU03970,ycnL	449198	449551	3.40	2.72	0.80
BSU03981,mtIA	449724	451160	1.82	4.02	2.21
BSU03982,mtIF	451185	451616	6.58	14.52	2.21
BSU03990,mtID	451618	452739	8.05	14.34	1.78
BSU04000,ycsA	452830	453894	4.61	2.54	0.55
BSU04010,sipU	454029	454592	2.97	2.24	0.75
BSU04020,yczH	454652	455260	11.52	5.50	0.48
BSU04030,ycsD	455346	455738	28.38	19.05	0.67
BSU04039,yczO	455771	455935	1.54	0.74	0.48
BSU04040,ycsE	456068	456817	10.06	9.84	0.98
BSU04050,ycsF	457023	457796	0.26	1.32	5.03
BSU04060,ycsG	457811	459025	0.33	1.20	3.59
BSU04070,ycsI	459049	459822	0.41	1.20	2.95
BSU04080,kipI	459867	460589	0.41	1.08	2.65
BSU04090,kipA	460592	461599	0.35	0.75	2.17
BSU04100,kipR	461615	462367	0.33	0.65	1.97
BSU04110,lipC	462431	463072	0.74	0.88	1.20
BSU04120,yczI	463245	463490	7.76	16.61	2.14
BSU04130,yczJ	463496	463783	4.87	12.81	2.63
BSU04140,pbpC	463934	465940	7.50	3.41	0.45
BSU04150,ycsN	466042	466944	18.70	10.20	0.55

BSU04160,mtlR	467130	469214	4.99	4.30	0.86
BSU04170,ydaB	469426	470937	2.41	1.33	0.55
BSU04180,ydaC	470957	471502	0.24	0.29	1.22
BSU04190,ydaD	471709	472569	0.16	1.18	7.26
BSU04200,ydaE	472585	473088	0.22	1.36	6.27
BSU04210,ydaF	473174	473725	2.00	9.58	4.79
BSU04220,ydaG	473803	474225	2.71	17.61	6.49
BSU04230,ydaH	474731	475540	14.30	5.93	0.41
BSU04240,ydzA	475584	475874	4.18	2.44	0.58
BSU04250,lrpC	476059	476493	2.98	3.55	1.19
BSU04260,topB	476558	478741	18.87	13.22	0.70
BSU04270,ydaJ	478944	480032	0.48	1.03	2.13
BSU04280,ydaK	480013	480864	0.32	0.61	1.90
BSU04290,ydaL	480875	482584	0.47	0.78	1.66
BSU04300,ydaM	482577	483839	0.47	0.78	1.67
BSU04310,ydaN	483845	485956	0.66	1.03	1.55
BSU04320,ydaO	486432	488255	5.55	1.25	0.23
BSU04330,mutT	488314	488763	0.31	0.20	0.63
BSU04340,ydaP	488830	490554	1.06	1.50	1.42
BSU04359,ydzK	490777	491043	30.43	51.84	1.70
BSU04360,mntH	491147	492424	265.44	105.22	0.40
BSU04370,ydaS	492654	492911	0.39	3.71	9.59
BSU04380,ydaT	492989	493441	0.10	0.36	3.47
BSU04390,ydbA	493559	494377	1.55	1.54	1.00
BSU04400,gsiB	494506	494877	0.25	6.30	25.51
BSU04410,ydbB	495009	495350	0.43	1.54	3.56
BSU04420,ydbC	495344	495703	0.32	1.26	3.88
BSU04430,ydbD	495740	496561	5.29	3.04	0.57
BSU04440,dctB	496646	497698	1.51	2.38	1.57
BSU04450,dctS	497768	499375	1.25	2.53	2.03
BSU04460,dctR	499365	500045	1.45	2.56	1.76
BSU04470,dctP	500166	501431	28.32	29.05	1.03
BSU04480,ydbI	501579	502631	21.55	16.57	0.77
BSU04490,ydbJ	502908	503834	4.78	3.65	0.76
BSU04500,ydbK	503854	504594	9.73	6.88	0.71
BSU04510,ydbL	504689	505024	14.25	11.87	0.83
BSU04520,ydbM	505152	506297	4.88	6.92	1.42
BSU04530,ydbN	506322	506501	3.93	4.08	1.04
BSU04540,ydbO	506866	507738	2.77	2.07	0.75
BSU04550,ydbP	507753	508073	9.78	11.10	1.13
BSU04560,ddl	508248	509312	26.63	12.67	0.48
BSU04570,murF	509384	510757	8.09	8.87	1.10
BSU04580,csH	511106	512641	166.26	102.33	0.62
BSU04590,ydbS	512814	513293	4.41	4.01	0.91
BSU04600,ydbT	513283	514764	13.18	9.88	0.75
BSU04610,ydcA	515016	515615	5.23	4.48	0.86
BSU04620,acpS	515710	516075	4.23	3.79	0.90

BSU04630,ydcC	516241	517257	3.56	3.06	0.86
BSU04640,alrA	517372	518541	4.76	3.75	0.79
BSU04650,endB	518657	518938	45.98	43.72	0.95
BSU04660,ndoA	518943	519293	38.68	39.74	1.03
BSU04670,rsbRA	519408	520232	3.87	6.60	1.71
BSU04680,rsbS	520237	520602	4.30	6.24	1.45
BSU04690,rsbT	520606	521007	3.71	5.39	1.45
BSU04700,rsbU	521019	522026	3.77	6.40	1.70
BSU04710,rsbV	522088	522417	5.61	11.49	2.05
BSU04720,rsbW	522414	522896	4.67	9.73	2.09
BSU04730,sigB	522862	523650	3.73	7.79	2.09
BSU04740,rsbX	523650	524249	4.10	7.23	1.77
BSU04750,ydcF	524492	524785	34.43	25.41	0.74
BSU04760,ydcG	524782	525222	32.45	28.71	0.88
BSU04770,ydcH	525206	525649	28.59	25.27	0.88
BSU04780,ydcI	525743	527902	6.44	4.18	0.65
BSU04790,ydcK	528129	528581	0.81	1.55	1.90
BSU04800,ydcL	529505	530611	0.00	0.00	0.00
BSU04810,immA	530624	531133	0.00	0.00	0.00
BSU04820,immR	531130	531513	0.00	0.00	0.00
BSU04830,sacV	531787	531981	0.00	0.00	0.00
BSU04839,ydzL	531978	532238	0.00	0.00	0.00
BSU04840,ydcO	532292	532552	0.00	0.00	0.00
BSU04850,ydcP	532922	533302	0.00	0.00	0.00
BSU04860,ydcQ	533338	534780	0.00	0.00	0.00
BSU04870,ydcR	534773	535831	0.00	0.00	0.00
BSU04880,ydcS	536096	536365	0.00	0.00	0.00
BSU04890,ydcT	536404	536670	0.00	0.00	0.00
BSU04900,yddA	536687	536995	0.00	0.00	0.00
BSU04910,yddB	536985	538049	0.00	0.00	0.00
BSU04920,yddC	538061	538309	0.00	0.00	0.00
BSU04930,yddD	538322	538846	0.00	0.00	0.00
BSU04940,yddE	538836	541229	0.00	0.00	0.00
BSU04950,yddF	541248	541574	0.00	0.00	0.00
BSU04960,yddG	541578	544025	0.00	0.00	0.00
BSU04970,yddH	544022	545011	0.00	0.00	0.00
BSU04980,yddI	545026	545532	0.00	0.00	0.00
BSU04990,yddJ	545595	545975	0.00	0.00	0.00
BSU05000,yddK	546166	546966	0.00	0.00	0.00
BSU05010,rapI	547306	548481	0.00	0.00	0.00
BSU05020,phrI	548438	548557	0.00	0.00	0.00
BSU05030,yddM	548710	549651	0.00	0.00	0.00
BSU05040,yddN	550240	551259	0.49	0.55	1.13
BSU05050,lrpA	551519	551929	1.57	2.10	1.34
BSU05060,lrpB	552052	552501	0.46	0.73	1.58
BSU05070,yddQ	552616	553158	0.53	1.00	1.88
BSU05080,yddR	553711	554475	0.22	0.28	1.26

BSU05090,yddS	554669	555979	0.13	0.20	1.54
BSU05099,ydzM	556562	556738	0.14	0.99	7.17
BSU05100,yddT	556763	557449	0.13	0.82	6.14
BSU05109,ydzN	557873	558058	0.87	1.69	1.95
BSU05110,ydeA	558408	559001	0.16	0.61	3.84
BSU05120,cspC	559264	559464	568.93	342.15	0.60
BSU05130,ydeB	560151	560612	0.82	1.78	2.17
BSU05140,ydzE	561180	561416	1.59	1.77	1.11
BSU05150,ydeC	561514	562389	0.75	1.28	1.70
BSU05160,ydeD	562502	563461	6.06	0.81	0.13
BSU05170,ydeE	563614	564486	1.07	1.20	1.13
BSU05180,ydeF	564704	566101	3.63	3.12	0.86
BSU05190,ydeG	566211	567503	0.59	0.80	1.34
BSU05200,ydeH	567662	568108	4.52	3.24	0.72
BSU05210,ydeI	568345	568938	1.78	2.67	1.50
BSU05220,ydeJ	569290	569949	3.01	2.62	0.87
BSU05230,ydeK	570371	571234	1.70	3.23	1.90
BSU05240,ydeL	571389	572780	0.33	0.46	1.37
BSU05250,ydeM	572974	573399	1.69	2.75	1.63
BSU05260,ydeN	573452	574024	3.22	4.73	1.47
BSU05270,ydzF	574106	574435	2.35	2.41	1.03
BSU05280,ydeO	574690	575562	1.65	2.57	1.56
BSU05290,ydeP	575712	576098	1.69	1.59	0.94
BSU05300,ydeQ	576209	576802	0.55	0.66	1.19
BSU05310,ydeR	576946	578133	0.67	0.46	0.68
BSU05320,ydeS	578337	578933	1.50	2.07	1.39
BSU05329,ydzO	579047	579232	1.50	1.98	1.32
BSU05330,aseR	579541	579876	1.37	0.81	0.59
BSU05340,ydfA	579889	581196	3.21	1.54	0.48
BSU05350,ydfB	581694	582479	0.64	0.71	1.11
BSU05360,ydfC	582536	583456	0.05	0.08	1.56
BSU05370,ydfD	583589	585037	0.40	0.37	0.93
BSU05380,ydfE	585155	585778	0.80	0.72	0.90
BSU05390,ydfF	585868	586548	7.71	5.35	0.69
BSU05400,ydfG	586628	587071	3.10	3.58	1.15
BSU05408,ydzP	587157	587336	0.24	0.37	1.51
BSU05409,ydzQ	587333	587476	0.16	0.23	1.48
BSU05410,ydfH	587744	588967	0.89	1.55	1.74
BSU05420,ydfI	588960	589601	0.79	1.58	2.00
BSU05430,ydfJ	589717	591891	0.17	0.15	0.86
BSU05440,nap	592303	593205	5.30	2.63	0.50
BSU05450,ydfK	593407	594096	0.39	0.43	1.10
BSU05460,ydfL	594186	594998	0.48	0.95	1.99
BSU05470,ydfM	595109	596002	0.55	0.38	0.69
BSU05480,ydfN	596478	597098	0.14	0.61	4.51
BSU05490,ydfO	597114	598052	0.20	0.75	3.75
BSU05500,ydfP	598154	598543	1.05	1.65	1.57

BSU05510,ydfQ	598729	599067	0.18	0.21	1.17
BSU05520,ydzH	599107	599343	0.14	0.16	1.11
BSU05529,ydzR	599875	600105	0.14	0.21	1.45
BSU05530,ydfR	600229	600906	0.15	0.16	1.05
BSU05540,ydfS	601019	601726	0.22	0.21	0.93
BSU05550,cotP	601741	602172	0.17	0.20	1.15
BSU05560,ydgA	602185	602427	0.06	0.07	1.21
BSU05570,ydgB	602441	602713	0.12	0.14	1.13
BSU05580,ydgC	603012	603599	7.69	3.79	0.49
BSU05590,ydgD	603596	603940	8.65	4.21	0.49
BSU05600,ydgE	604103	604576	3.30	2.97	0.90
BSU05610,vmlR	604736	606379	1.96	1.60	0.82
BSU05620,ydgF	606699	608075	54.41	35.28	0.65
BSU05630,dinB	608246	608764	0.76	0.85	1.12
BSU05640,ydgG	608933	609391	0.61	0.60	0.99
BSU05650,ydgH	609388	612045	3.65	2.63	0.72
BSU05660,ydgl	612191	612820	3.23	1.91	0.59
BSU05670,ydgJ	612836	613330	0.96	0.62	0.65
BSU05680,ydgK	613641	614849	4.90	3.64	0.74
BSU05690,ydhB	614885	615622	0.60	0.78	1.29
BSU05700,ydhC	615871	616545	3.62	2.69	0.74
BSU05710,ydhD	616672	617934	0.51	0.25	0.49
BSU05720,ydhE	618095	619282	1.30	0.86	0.67
BSU05730,ydhF	619321	620031	0.26	0.25	0.97
BSU05740,phoB	620097	621485	0.28	0.23	0.83
BSU05750,ydhG	621847	622218	2.98	2.63	0.88
BSU05760,ydhH	622293	622790	1.41	2.21	1.57
BSU05770,ydhI	622808	623290	0.75	1.27	1.68
BSU05780,ydhJ	623373	624350	0.50	0.91	1.82
BSU05790,ydhK	624492	625109	0.68	0.80	1.18
BSU05800,pbuE	625125	626291	34.16	7.93	0.23
BSU05810,gmuB	626622	626933	0.56	0.38	0.68
BSU05820,gmuA	626933	627265	1.14	0.68	0.60
BSU05830,gmuC	627284	628612	0.96	0.48	0.51
BSU05840,gmuD	628630	630027	0.87	0.48	0.55
BSU05850,gmuR	630170	630883	2.56	2.41	0.94
BSU05860,gmuE	630912	631811	1.27	0.89	0.70
BSU05870,gmuF	631808	632755	0.89	0.49	0.55
BSU05880,gmuG	632774	633862	1.07	0.65	0.61
BSU05900,thiL	640662	641639	11.88	6.88	0.58
BSU05910,ydiB	641654	642130	5.04	4.06	0.81
BSU05920,ydiC	642111	642800	10.46	6.60	0.63
BSU05930,rimI	642810	643265	14.81	7.60	0.51
BSU05940,gcp	643258	644298	13.78	8.52	0.62
BSU05950,ydiF	644528	646456	6.82	5.11	0.75
BSU05960,moaC	646582	647094	6.49	5.85	0.90
BSU05970,ydiH	647091	647738	14.88	15.36	1.03

BSU05980,tatAY	647760	647933	82.93	140.28	1.69
BSU05990,tatCY	647940	648704	49.50	80.63	1.63
BSU06000,ydiK	648742	648933	12.15	11.16	0.92
BSU06010,ydiL	648930	649664	8.03	8.91	1.11
BSU06020,groES	649903	650187	35.56	47.86	1.35
BSU06030,groEL	650234	651868	143.55	133.86	0.93
BSU06040,ydiM	653432	653812	0.44	0.60	1.35
BSU06048,ydzU	654071	654343	0.31	0.53	1.67
BSU06060,ydiO	655223	656506	4.95	5.39	1.09
BSU06070,ydiP	656528	657697	8.86	8.67	0.98
BSU06090,ydiR	659623	660564	2.18	4.87	2.24
BSU06100,ydiS	660596	661627	3.30	6.04	1.83
BSU06110,ydjA	661630	663027	4.74	7.34	1.55
BSU06120,ydjB	663601	663936	0.75	0.95	1.26
BSU06130,ydjC	664319	664669	0.98	1.20	1.23
BSU06140,gutR	664775	667264	6.70	3.85	0.57
BSU06150,gutB	667466	668527	0.80	0.44	0.55
BSU06160,gutP	668601	669992	0.19	0.12	0.65
BSU06170,ydjE	670087	671049	2.46	3.84	1.56
BSU06180,pspA	671245	671928	0.38	0.57	1.53
BSU06190,ydjG	671994	673019	0.59	0.60	1.01
BSU06200,ydjH	673019	673783	0.39	0.39	0.99
BSU06210,ydjI	673814	674785	1.22	0.84	0.69
BSU06220,ydjJ	674832	675857	0.06	0.09	1.62
BSU06230,iolT	676442	677863	0.31	0.20	0.64
BSU06240,bdhA	677911	678951	45.22	40.08	0.89
BSU06250,ydjM	679390	679761	15.67	11.12	0.71
BSU06260,ydjN	679827	680873	4.56	2.84	0.62
BSU06269,ydzJ	680907	681065	1.61	1.18	0.74
BSU06270,ydjO	681255	681464	10.98	10.36	0.94
BSU06280,ydjP	681547	682362	2.15	1.25	0.58
BSU06290,yeaA	682375	683364	1.60	0.92	0.57
BSU06300,cotA	683462	685003	0.20	0.21	1.05
BSU06310,gabP	685155	686564	0.24	0.59	2.43
BSU06319,ydzX	686602	686889	0.23	0.27	1.19
BSU06320,yeaB	686962	687834	1.49	1.35	0.91
BSU06330,yeaC	688184	689146	5.40	4.24	0.79
BSU06340,yeaD	689146	690342	7.44	5.05	0.68
BSU06350,yebA	690364	692577	8.56	5.46	0.64
BSU06360,guaA	692740	694281	152.62	47.20	0.31
BSU06370,pbuG	694662	695984	7.90	2.98	0.38
BSU06380,yebC	696195	696998	16.95	7.93	0.47
BSU06390,yebD	697157	697324	0.70	1.04	1.49
BSU06400,yebE	697538	698092	0.68	0.45	0.67
BSU06410,yebG	698092	698289	2.55	1.68	0.66
BSU06420,purE	698612	699100	3.84	2.21	0.58
BSU06430,purK	699093	700235	3.14	1.76	0.56

BSU06440,purB	700232	701527	4.13	2.90	0.70
BSU06450,purC	701601	702326	0.16	0.68	4.16
BSU06460,purS	702319	702573	0.20	1.16	5.78
BSU06470,purQ	702570	703253	0.14	1.09	7.86
BSU06480,purL	703237	705465	0.38	1.73	4.52
BSU06490,purF	705441	706871	0.55	2.48	4.50
BSU06500,purM	706973	708013	0.26	0.97	3.75
BSU06510,purN	708010	708597	0.31	1.18	3.85
BSU06520,purH	708594	710132	0.64	1.82	2.83
BSU06530,purD	710148	711416	0.82	2.42	2.94
BSU06540,yezC	711456	711875	2.32	2.37	1.02
BSU06550,yecA	712019	713293	0.13	0.20	1.56
BSU06559,yezF	713308	713535	0.55	1.26	2.31
BSU06560,yerA	713664	715406	12.75	5.30	0.42
BSU06570,yerB	715433	716428	25.39	15.30	0.60
BSU06580,yerC	716431	716745	30.33	19.58	0.65
BSU06590,yerD	716780	718357	0.37	1.22	3.31
BSU06600,pcrB	718622	719308	3.83	2.87	0.75
BSU06610,pcrA	719370	721589	9.03	6.87	0.76
BSU06620,ligA	721613	723619	14.83	11.41	0.77
BSU06630,yerH	723635	724825	21.06	16.55	0.79
BSU06640,yerI	724987	725997	32.34	35.25	1.09
BSU06650,sapB	726035	726733	1.50	5.32	3.56
BSU06660,opuE	726840	728318	2.52	16.12	6.40
BSU06670,gatC	728732	729022	13.72	17.67	1.29
BSU06680,gatA	729038	730495	47.79	28.29	0.59
BSU06690,gatB	730509	731939	79.78	53.83	0.67
BSU06700,yerO	731954	732823	5.22	4.71	0.90
BSU06710,swrC	732916	736113	26.35	15.55	0.59
BSU06720,yerQ	736436	737347	30.06	15.82	0.53
BSU06730,yefA	737603	738982	6.61	2.33	0.35
BSU06740,yefB	738995	739897	0.99	0.54	0.54
BSU06750,yefC	739878	740213	0.44	0.39	0.89
BSU06760,yeeA	740288	742927	0.60	0.95	1.57
BSU06770,yeeB	742939	744738	0.65	1.58	2.42
BSU06780,yeeC	744851	745999	1.52	3.11	2.04
BSU06790,yeeD	746261	746566	2.06	3.72	1.81
BSU06800,yezA	746633	746839	2.34	4.39	1.88
BSU06811,yezG	747079	747534	4.06	5.78	1.43
BSU06812,yeeF	747554	749563	2.29	1.96	0.86
BSU06820,yeeG	749775	750797	0.04	0.04	0.89
BSU06830,rapH	750959	752089	1.88	2.64	1.40
BSU06839,phrH	752079	752252	3.47	6.50	1.87
BSU06840,yeel	752412	753131	9.07	7.57	0.84
BSU06850,yeeK	753265	753702	0.19	1.64	8.82
BSU06860,yezE	753817	754401	2.11	1.53	0.73
BSU06870,yesE	754480	754923	0.26	0.24	0.92

BSU06880,yesF	754920	755780	0.25	0.31	1.24
BSU06890,cotJA	755907	756155	0.06	0.08	1.48
BSU06900,cotJB	756139	756402	0.07	0.08	1.27
BSU06910,cotJC	756417	756986	0.05	0.05	1.10
BSU06920,yesJ	757111	757653	2.13	1.84	0.86
BSU06930,yesK	757676	757978	0.37	0.31	0.83
BSU06940,yesL	758093	758722	0.56	0.34	0.61
BSU06950,yesM	758719	760452	0.42	0.22	0.52
BSU06960,yesN	760452	761558	0.66	0.37	0.56
BSU06970,yesO	761662	762945	0.07	0.05	0.73
BSU06980,yesP	762942	763871	0.08	0.06	0.71
BSU06990,yesQ	763875	764765	0.06	0.05	0.81
BSU07000,yesR	764781	765815	0.11	0.09	0.81
BSU07010,yesS	765838	768123	0.08	0.07	0.84
BSU07020,rhgT	768137	768835	0.08	0.06	0.86
BSU07030,yesU	768828	769490	0.07	0.07	0.93
BSU07040,yesV	769487	770113	0.10	0.07	0.70
BSU07050,yesW	770234	772096	0.13	0.09	0.73
BSU07060,yesX	772142	773980	0.06	0.05	0.91
BSU07070,yesY	774138	774791	0.12	0.10	0.89
BSU07080,yesZ	774799	776790	0.15	0.14	0.91
BSU07090,yetA	776834	779407	0.11	0.10	0.84
BSU07100,lplA	779529	781037	0.13	0.06	0.46
BSU07110,lplB	781092	782048	0.09	0.07	0.74
BSU07120,lplC	782062	782949	0.20	0.16	0.80
BSU07130,lplD	782958	784298	0.42	0.36	0.85
BSU07140,yetF	784381	785076	0.48	0.43	0.89
BSU07150,yetG	785113	785490	4.88	4.37	0.89
BSU07160,yetH	785543	785905	1.90	4.18	2.20
BSU07190,yezD	787715	787882	0.33	0.50	1.52
BSU07200,yetJ	787992	788636	18.31	11.59	0.63
BSU07210,yetK	788636	789628	3.30	7.83	2.37
BSU07220,yetL	789652	790155	2.20	3.02	1.37
BSU07230,yetM	790318	791427	0.15	0.12	0.85
BSU07240,yetN	791462	792532	2.74	1.21	0.44
BSU07250,yetO	792682	795867	0.12	0.14	1.11
BSU07260,ltaSA	796314	798233	33.21	12.52	0.38
BSU07270,yfnH	798469	799233	0.20	0.15	0.75
BSU07280,yfnG	799303	800208	0.26	0.23	0.92
BSU07290,yfnF	800232	801143	0.32	0.32	1.01
BSU07300,yfnE	801172	802350	1.18	1.06	0.90
BSU07310,yfnD	802351	803286	3.28	2.75	0.84
BSU07320,yfnC	803317	804546	12.61	15.75	1.25
BSU07330,yfnB	804657	805364	2.52	3.77	1.50
BSU07340,yfnA	805456	806841	8.21	5.22	0.64
BSU07350,yfmT	807091	808548	0.21	1.27	6.04
BSU07360,yfmS	808562	809422	0.34	2.05	6.04

BSU07370,yfmR	809557	811446	44.77	40.94	0.91
BSU07380,yfmQ	811569	812015	5.16	5.08	0.99
BSU07390,yfmP	812140	812562	0.57	0.59	1.04
BSU07400,yfmO	812628	813818	1.73	1.64	0.94
BSU07410,yfmN	814109	814264	0.18	0.50	2.72
BSU07420,yfmM	814384	815940	19.21	9.65	0.50
BSU07430,yfmL	816113	817243	8.19	5.01	0.61
BSU07440,yfmK	817311	817757	6.76	6.96	1.03
BSU07450,yfmJ	817810	818829	12.78	11.83	0.93
BSU07460,yfmI	819311	820531	0.93	1.50	1.62
BSU07480,yfmG	820867	822330	0.19	0.53	2.74
BSU07490,yfmF	822903	823703	6.52	7.29	1.12
BSU07500,yfmE	823716	824717	3.44	3.98	1.16
BSU07510,yfmD	824714	825715	2.79	3.33	1.19
BSU07520,yfmC	825787	826734	12.81	8.18	0.64
BSU07530,yfmB	826843	827211	0.32	0.48	1.49
BSU07540,yfmA	827252	827419	0.27	0.35	1.31
BSU07550,yfIT	827455	827802	0.40	3.87	9.61
BSU07560,peI	827993	829255	10.28	3.52	0.34
BSU07570,yfIS	829382	830818	0.85	1.34	1.57
BSU07580,citS	830945	832573	0.27	0.41	1.52
BSU07590,citT	832545	833225	0.28	0.36	1.29
BSU07600,yfIP	833228	834187	0.32	0.45	1.41
BSU07610,citM	834383	835684	1.51	0.68	0.45
BSU07620,yfIN	835740	836534	2.40	1.23	0.51
BSU07630,nosA	836653	837744	10.88	10.12	0.93
BSU07640,yfIL	837735	838010	17.35	15.64	0.90
BSU07650,yfIK	838077	838742	17.87	17.71	0.99
BSU07660,yfIJ	838783	838920	10.07	19.66	1.95
BSU07670,yfII	839077	839232	10.96	21.48	1.96
BSU07680,yfIH	839339	839653	12.04	11.37	0.94
BSU07690,yfIG	839735	840484	14.25	13.25	0.93
BSU07700,nagP	840656	842014	55.18	18.64	0.34
BSU07710,yfIE	842047	843996	14.79	8.42	0.57
BSU07720,yfID	844097	844234	0.50	1.14	2.30
BSU07735,yfIB	844253	844645	0.89	1.82	2.03
BSU07750,yfIA	844770	846185	0.39	1.20	3.11
BSU07760,yfKT	846182	847258	0.42	1.21	2.91
BSU07770,yfKS	847282	847482	0.26	0.52	1.97
BSU07780,yfKR	847498	848652	0.17	0.24	1.47
BSU07790,yfKQ	848633	850174	0.13	0.11	0.89
BSU07800,treP	850367	851779	92.68	30.98	0.33
BSU07810,treA	851850	853535	44.80	26.20	0.58
BSU07820,treR	853556	854272	59.84	39.22	0.66
BSU07830,yfKO	854412	855077	37.30	24.82	0.67
BSU07840,yfKN	855114	859502	0.84	1.23	1.46
BSU07850,yfKM	859745	860263	0.81	2.83	3.48

BSU07860,yfkl	860303	861493	6.66	12.68	1.90
BSU07870,yfkK	861586	861801	7.81	14.65	1.88
BSU07880,yfkJ	862004	862474	0.87	0.94	1.07
BSU07890,yfkI	862492	862812	1.62	2.53	1.56
BSU07900,yfkH	862836	863663	2.25	3.32	1.47
BSU07910,yfkF	863862	865037	8.57	4.00	0.47
BSU07920,yfkE	865205	866260	0.31	0.95	3.07
BSU07930,yfkD	866331	867125	0.87	2.39	2.74
BSU07940,yfkC	867164	868006	17.96	11.08	0.62
BSU07955,yfkA	868007	869128	5.97	2.73	0.46
BSU07970,yfjT	869273	869458	6.49	6.26	0.96
BSU07980,pdaA	869559	870350	1.22	1.58	1.29
BSU07990,yfjR	870388	871248	3.50	5.16	1.48
BSU08000,yfjQ	871347	872306	1.73	1.35	0.78
BSU08010,yfjP	872425	873288	2.55	4.67	1.83
BSU08020,yfjO	873402	874802	19.21	12.42	0.65
BSU08029,yfzA	875428	875694	1.53	1.57	1.03
BSU08030,dusC	876426	877403	4.11	1.14	0.28
BSU08040,yfjM	877599	878051	1.04	0.91	0.88
BSU08050,yfjL	878081	878770	0.71	0.63	0.89
BSU08060,acoA	879002	880003	0.04	0.03	0.71
BSU08070,acoB	880007	881035	0.11	0.09	0.85
BSU08080,acoC	881049	882245	0.22	0.16	0.72
BSU08090,acoL	882266	883642	0.37	0.35	0.93
BSU08100,acoR	883758	885575	14.82	7.50	0.51
BSU08110,sspH	885629	885808	15.05	9.06	0.60
BSU08120,yfjF	885844	886173	30.76	34.49	1.12
BSU08130,yfjE	886223	886681	18.96	14.40	0.76
BSU08140,yfjD	886775	887332	7.54	4.85	0.64
BSU08150,yfjC	887364	888131	1.35	1.70	1.26
BSU08160,yfjB	888143	889366	0.69	1.25	1.82
BSU08170,yfjA	889372	889686	0.94	1.32	1.40
BSU08180,malA	890022	891371	2.51	3.47	1.38
BSU08190,malR	891436	892200	0.51	0.65	1.27
BSU08200,malP	892215	893798	1.23	0.72	0.59
BSU08210,malQ	893904	895625	1.14	1.22	1.07
BSU08220,yfiC	895619	897433	2.00	2.49	1.25
BSU08230,catD	897588	897992	2.64	1.23	0.47
BSU08240,catE	898010	898867	4.72	2.10	0.45
BSU08250,yfiF	898961	899905	0.24	0.34	1.41
BSU08260,yfiG	900080	901528	0.48	0.32	0.67
BSU08270,yfiH	901555	902496	0.53	0.35	0.66
BSU08280,yfiI	902506	903687	0.62	0.52	0.84
BSU08290,yfiJ	903811	905013	9.56	5.01	0.52
BSU08300,yfiK	905010	905672	9.83	4.31	0.44
BSU08310,yfiL	905816	906751	0.10	0.08	0.76
BSU08320,yfiM	906764	907954	0.15	0.13	0.82

BSU08330,yfiN	907968	909125	0.37	0.36	0.97
BSU08340,padR	909198	909746	9.19	8.35	0.91
BSU08350,estB	910019	910651	0.53	0.33	0.62
BSU08360,yfiQ	910840	911928	0.68	0.75	1.12
BSU08370,yfiR	911964	912581	2.40	3.04	1.27
BSU08380,yfiS	912547	913800	0.52	0.42	0.81
BSU08390,yfiT	913924	914460	1.57	2.82	1.80
BSU08400,yfiU	914457	916013	0.40	0.69	1.74
BSU08410,yfiV	916124	916606	1.95	1.49	0.76
BSU08425,mprF	916778	919348	16.49	10.38	0.63
BSU08440,yfiY	919366	920343	6.82	6.92	1.02
BSU08450,yfiZ	920474	921475	13.98	10.16	0.73
BSU08460,yfhA	921472	922503	14.76	10.76	0.73
BSU08470,yfhB	922618	923499	0.50	1.72	3.41
BSU08480,yfhC	923587	924171	30.45	26.41	0.87
BSU08490,yfhD	924210	924401	1.30	1.93	1.49
BSU08500,yfhE	924468	924578	0.87	1.25	1.44
BSU08510,yfhF	924633	925544	0.84	1.04	1.25
BSU08520,recX	925633	926427	4.63	4.98	1.08
BSU08530,yfhH	926429	926743	8.43	9.15	1.08
BSU08540,yfhI	926886	928079	9.31	5.72	0.62
BSU08550,sspK	928112	928264	1.05	1.49	1.41
BSU08560,yfhJ	928389	928658	1.68	2.46	1.46
BSU08570,yfhK	928803	929321	0.42	1.09	2.59
BSU08580,yfhL	929406	929738	1.21	1.37	1.14
BSU08590,yfhM	929725	930585	1.04	1.28	1.24
BSU08600,csbB	930818	931807	0.74	1.10	1.49
BSU08610,yfhO	931879	934464	1.37	1.19	0.87
BSU08620,yfhP	934457	935440	14.31	9.63	0.67
BSU08630,yfhQ	935656	936765	3.42	2.01	0.59
BSU08640,yfhS	936773	936997	3.51	3.21	0.92
BSU08650,fabL	937079	937831	12.87	12.46	0.97
BSU08660,sspE	937900	938154	17.88	22.56	1.26
BSU08670,ygaB	938243	938587	0.10	0.29	2.88
BSU08680,ygaC	938731	939261	4.35	6.83	1.57
BSU08690,ygaD	939322	941091	3.83	4.00	1.04
BSU08700,ygaE	941168	942229	4.86	2.39	0.49
BSU08710,gsaB	942449	943738	7.10	5.26	0.74
BSU08720,ygaF	943891	944364	5.89	9.45	1.60
BSU08730,perR	944487	944924	65.80	66.11	1.00
BSU08740,ygzB	944959	945312	2.59	3.34	1.29
BSU08750,ygxA	945520	946404	4.56	4.20	0.92
BSU08760,spo0M	953373	954149	7.98	4.82	0.60
BSU08770,ygzA	954291	954494	1.67	1.68	1.00
BSU08779,ygzC	954579	954851	0.22	0.35	1.59
BSU08780,ygaJ	954893	955585	1.05	1.94	1.85
BSU08790,thiC	955895	957667	0.33	0.40	1.23

BSU08800,ygaK	957705	959060	0.14	0.20	1.43
BSU08810,senS	959290	959508	0.00	0.00	0.00
BSU08820,katA	959535	960986	3.90	4.01	1.03
BSU08830,ssuB	961394	962161	0.00	0.00	0.00
BSU08840,ssuA	962179	963177	0.02	0.05	1.91
BSU08850,ssuC	963174	964004	0.06	0.08	1.36
BSU08860,ssuD	964027	965157	0.08	0.11	1.32
BSU08870,ygaN	965261	965797	0.85	0.78	0.92
BSU08880,rpsN	965909	966178	0.31	0.32	1.04
BSU08890,ygaO	966196	966669	5.01	3.26	0.65
BSU08899,ygzD	966671	966871	5.17	3.26	0.63
BSU08900,yhzB	967229	967852	2.79	3.47	1.24
BSU08910,yhbA	967935	969095	4.71	4.72	1.00
BSU08920,yhbB	969162	970097	0.88	1.01	1.14
BSU08930,cspR	970135	970617	12.05	7.29	0.60
BSU08940,yhbD	970667	971383	0.77	0.85	1.11
BSU08950,yhbE	971374	972087	2.01	2.24	1.12
BSU08960,yhbF	972099	972806	2.70	3.07	1.14
BSU08970,prkA	973156	975051	0.19	0.16	0.86
BSU08980,yhbH	975231	976409	0.16	0.13	0.83
BSU08990,yhbl	976569	977033	0.43	0.38	0.89
BSU09000,yhbJ	977069	977734	0.61	0.60	0.97
BSU09010,yhcA	977775	979373	0.84	0.77	0.92
BSU09020,yhcB	979396	979926	1.73	1.55	0.90
BSU09030,yhcC	979939	980313	1.54	1.46	0.95
BSU09040,yhcD	980313	980468	0.42	0.74	1.76
BSU09050,yhcE	980473	981234	3.75	8.17	2.18
BSU09060,yhcF	981237	981602	4.57	11.56	2.53
BSU09070,yhcG	981604	982302	5.13	16.50	3.22
BSU09080,yhcH	982319	983236	7.42	22.74	3.07
BSU09090,yhcl	983229	984170	27.11	51.18	1.89
BSU09100,cspB	984262	984465	1005.07	1241.30	1.24
BSU09110,yhcJ	984901	985731	10.45	16.83	1.61
BSU09120,yhcK	985734	986813	3.19	1.68	0.53
BSU09130,tcyP	986986	988377	11.31	2.34	0.21
BSU09140,yhcM	988417	988872	0.41	1.02	2.49
BSU09150,yhcN	989022	989591	0.63	3.06	4.85
BSU09165,yhcO	989712	990680	0.14	0.23	1.70
BSU09180,yhcQ	990612	991265	0.64	1.27	1.99
BSU09190,yhcR	991348	995001	0.50	1.47	2.96
BSU09200,yhcS	994998	995594	0.91	2.28	2.50
BSU09210,yhcT	995624	996532	1.82	1.32	0.72
BSU09220,yhcU	996643	997038	0.83	1.08	1.29
BSU09230,yhcV	997175	997597	1.13	2.18	1.94
BSU09240,yhcW	997724	998386	4.97	7.12	1.43
BSU09250,yhcX	998402	999943	7.87	15.12	1.92
BSU09260,yhxA	1000364	1001716	18.77	9.27	0.49

BSU09270,glpP	1001744	1002322	30.78	16.80	0.55
BSU09280,glpF	1002501	1003325	8.59	3.79	0.44
BSU09290,glpK	1003344	1004834	54.94	59.64	1.09
BSU09300,glpD	1004975	1006642	6.53	13.53	2.07
BSU09310,pgcA	1006774	1008519	24.12	24.63	1.02
BSU09320,yhcY	1008668	1009807	6.20	7.87	1.27
BSU09330,yhcZ	1009804	1010448	5.86	8.08	1.38
BSU09340,yhdA	1010445	1010969	5.87	8.85	1.51
BSU09350,yhdB	1010984	1011226	0.38	1.84	4.80
BSU09360,yhdC	1011427	1011750	0.54	1.93	3.60
BSU09370,lytF	1011792	1013258	1.03	2.83	2.76
BSU09380,nsrR	1013411	1013851	2.81	5.62	2.00
BSU09390,ygxB	1013958	1015616	0.71	2.13	2.99
BSU09400,spoVR	1015647	1017053	0.20	0.13	0.63
BSU09410,phoA	1017083	1018468	0.62	1.09	1.77
BSU09420,lytE	1018998	1020002	151.22	62.03	0.41
BSU09430,citR	1020073	1020948	1.34	3.93	2.93
BSU09440,citA	1021057	1022157	1.22	4.77	3.92
BSU09450,yhdF	1022231	1023100	2.31	8.19	3.55
BSU09460,ctrA	1023350	1024747	0.21	0.09	0.40
BSU09470,yhdH	1024865	1026220	7.46	3.47	0.46
BSU09480,yhdI	1026255	1027664	3.93	2.36	0.60
BSU09490,yhdJ	1027774	1028202	0.81	2.67	3.30
BSU09500,yhdK	1028233	1028523	24.20	11.92	0.49
BSU09510,yhdL	1028511	1029587	17.01	8.33	0.49
BSU09520,sigM	1029577	1030068	5.06	3.06	0.60
BSU09530,yhdN	1030265	1031260	0.31	2.80	9.14
BSU09540,plsC	1031395	1031994	20.47	15.27	0.75
BSU09550,yhdP	1032063	1033397	22.80	28.65	1.26
BSU09560,cueR	1033458	1033889	27.28	29.86	1.09
BSU09570,yhdR	1034046	1035227	0.59	1.67	2.85
BSU09590,yhdT	1035554	1036939	3.56	13.34	3.75
BSU09600,crcBA	1036953	1037309	3.60	4.63	1.29
BSU09610,yhdV	1037306	1037701	3.43	4.09	1.19
BSU09620,yhdW	1037688	1038419	3.48	4.25	1.22
BSU09630,yhdX	1038653	1038760	5.11	40.40	7.91
BSU09640,yhdY	1038909	1040024	8.79	3.09	0.35
BSU09650,yhdZ	1040094	1040837	2.68	3.94	1.47
BSU09660,yheN	1040861	1041709	7.44	9.36	1.26
BSU09670,dat	1041994	1042842	1.96	5.67	2.90
BSU09680,nhaC	1042885	1044246	6.64	2.58	0.39
BSU09690,nhaX	1044373	1044873	0.32	0.92	2.88
BSU09700,yheJ	1045037	1045198	19.37	24.40	1.26
BSU09710,yheI	1045318	1047075	1.24	1.04	0.84
BSU09720,yheH	1047072	1049093	2.64	3.05	1.16
BSU09730,yheG	1049142	1049762	1.46	2.27	1.55
BSU09740,yheF	1049801	1049926	0.21	0.34	1.64

BSU09750,sspB	1050031	1050234	1.17	9.46	8.08
BSU09760,yheE	1050443	1050661	1.10	1.67	1.52
BSU09770,yheD	1050811	1052172	0.60	0.30	0.50
BSU09780,yheC	1052162	1053253	0.25	0.15	0.61
BSU09790,yheB	1053520	1054653	3.69	2.42	0.66
BSU09800,yheA	1054746	1055099	14.51	9.94	0.68
BSU09810,yhaZ	1055143	1056216	1.69	1.20	0.71
BSU09830,yhaX	1056702	1057568	11.68	5.51	0.47
BSU09840,hemZ	1057680	1059185	10.28	3.40	0.33
BSU09850,yhaU	1059203	1060420	3.78	2.58	0.68
BSU09860,khtT	1060427	1060924	1.54	1.28	0.83
BSU09870,khtS	1060988	1061326	0.93	0.84	0.91
BSU09880,yhaR	1061491	1062258	0.19	0.33	1.74
BSU09889,yhzD	1062279	1062464	0.19	0.39	2.09
BSU09890,natA	1062591	1063487	1.06	0.69	0.65
BSU09900,natB	1063480	1064739	13.86	5.92	0.43
BSU09910,yhaO	1064846	1066072	1.24	1.70	1.38
BSU09920,yhaN	1066077	1068968	7.11	5.89	0.83
BSU09930,yhaM	1069042	1069986	13.34	12.81	0.96
BSU09940,yhaL	1070111	1070323	0.77	1.34	1.74
BSU09950,prsA	1070364	1071242	16.57	18.17	1.10
BSU09958,yhzE	1071402	1071488	0.35	0.39	1.12
BSU09965,yhaJ	1072042	1072560	5.79	4.36	0.75
BSU09980,yhaI	1072768	1073109	9.21	24.91	2.70
BSU09990,hpr	1073106	1073717	5.00	19.30	3.86
BSU10000,yhaH	1073895	1074251	8.14	8.66	1.06
BSU10009,yhzF	1074381	1074572	2.16	2.45	1.13
BSU10010,trpP	1074646	1075164	39.76	58.50	1.47
BSU10020,serC	1075289	1076368	2.96	22.26	7.52
BSU10030,hinT	1076515	1076952	9.60	15.73	1.64
BSU10040,ecsA	1077440	1078183	8.82	8.59	0.97
BSU10050,ecsB	1078176	1079402	40.41	32.56	0.81
BSU10060,ecsC	1079422	1080132	47.79	39.29	0.82
BSU10070,yhaA	1080150	1081340	0.67	2.81	4.18
BSU10080,yhfA	1081413	1082804	0.29	0.33	1.15
BSU10090,yhgB	1082870	1083184	0.39	0.62	1.60
BSU10100,yhgC	1083229	1083729	5.37	5.77	1.07
BSU10110,pbpF	1083851	1085995	1.27	0.94	0.74
BSU10120,hemE	1086117	1087178	6.05	4.04	0.67
BSU10130,hemH	1087250	1088182	12.19	8.63	0.71
BSU10140,hemY	1088197	1089609	8.52	6.76	0.79
BSU10150,yhgD	1089755	1090330	1.83	2.04	1.11
BSU10160,yhgE	1090401	1092728	10.21	6.06	0.59
BSU10170,fabHB	1092770	1093747	0.91	0.80	0.87
BSU10180,yhfC	1093874	1094650	0.08	0.27	3.32
BSU10200,yhfE	1095063	1096103	2.79	2.33	0.83
BSU10210,yhfF	1096116	1096523	3.43	2.93	0.85

BSU10220,glT	1096560	1097849	84.63	107.96	1.28
BSU10230,yhfH	1098120	1098260	0.57	0.65	1.14
BSU10240,yhfI	1098412	1099146	1.15	1.39	1.21
BSU10250,yhfJ	1099159	1100154	2.42	2.06	0.85
BSU10260,yhfK	1100219	1100863	4.32	5.75	1.33
BSU10270,yhfL	1100980	1102521	1.24	1.00	0.81
BSU10280,yhfM	1102560	1102955	0.39	0.63	1.60
BSU10290,yhfN	1103104	1104384	1.06	1.30	1.22
BSU10300,aprE	1104423	1105568	0.12	0.27	2.27
BSU10310,yhfO	1106003	1106452	0.95	1.89	1.98
BSU10320,yhfP	1106524	1107516	6.17	9.23	1.50
BSU10330,yhfQ	1107733	1108704	24.10	18.95	0.79
BSU10340,phoE	1108736	1109317	8.20	9.08	1.11
BSU10350,yhfS	1109388	1110482	2.26	2.45	1.08
BSU10360,yhfT	1110479	1111918	0.92	1.24	1.34
BSU10370,bioY	1111925	1112485	0.35	0.41	1.16
BSU10380,hemAT	1112620	1113918	0.22	0.89	4.06
BSU10390,yhfW	1114057	1115586	0.12	0.13	1.08
BSU10400,yhxC	1115698	1116555	0.17	0.20	1.22
BSU10410,yhzc	1116583	1116816	0.25	1.65	6.54
BSU10420,comK	1117109	1117687	0.50	0.95	1.89
BSU10430,yhxD	1117734	1118633	0.41	0.93	2.27
BSU10440,yhjA	1118850	1119119	35.59	24.41	0.69
BSU10450,yhjB	1119162	1120631	0.46	0.37	0.80
BSU10460,yhjC	1120628	1120828	0.17	0.25	1.44
BSU10470,yhjD	1121036	1121398	0.30	0.20	0.66
BSU10480,yhjE	1121550	1122173	2.65	2.02	0.76
BSU10490,sipV	1122175	1122681	3.28	2.23	0.68
BSU10500,yhjG	1122862	1124361	0.50	0.61	1.21
BSU10510,yhjH	1124438	1124965	2.62	2.56	0.98
BSU10520,glcP	1125123	1126328	0.28	0.75	2.66
BSU10530,ntdC	1126400	1127452	0.55	1.15	2.09
BSU10540,ntdB	1127466	1128314	0.17	0.44	2.63
BSU10550,ntdA	1128286	1129611	0.30	0.98	3.31
BSU10560,yhjM	1129715	1130704	1.22	2.45	2.01
BSU10570,yhjN	1130918	1132072	1.76	3.83	2.17
BSU10580,yhjO	1132179	1133384	0.09	0.14	1.46
BSU10590,yhjP	1133498	1135225	3.49	3.84	1.10
BSU10600,yhjQ	1135255	1135581	0.22	0.23	1.06
BSU10610,yhjR	1135699	1136136	0.11	0.17	1.53
BSU10620,addB	1136320	1139820	9.81	11.01	1.12
BSU10630,addA	1139807	1143505	11.41	12.31	1.08
BSU10640,sbcD	1143577	1144752	7.02	14.48	2.06
BSU10650,sbcC	1144749	1148141	8.23	18.74	2.28
BSU10660,yisB	1148155	1148457	8.91	19.64	2.20
BSU10670,gerPF	1148494	1148721	0.48	0.33	0.68
BSU10680,gerPE	1148744	1149145	0.39	0.27	0.70

BSU10690,gerPD	1149145	1149321	0.49	0.37	0.77
BSU10700,gerPC	1149318	1149935	0.36	0.27	0.77
BSU10710,gerPB	1149958	1150200	0.30	0.24	0.81
BSU10720,gerPA	1150206	1150427	0.28	0.21	0.73
BSU10730,yisI	1150850	1151020	0.58	2.86	4.93
BSU10740,yisJ	1151166	1152089	0.07	0.12	1.72
BSU10750,yisK	1152244	1153149	0.61	2.12	3.47
BSU10760,yisL	1153265	1153621	3.54	4.66	1.32
BSU10770,wprA	1153789	1156473	2.15	1.06	0.49
BSU10780,yisN	1156504	1157091	0.08	0.07	0.84
BSU10790,asnO	1157237	1159081	0.08	0.09	1.07
BSU10800,yizA	1159211	1159690	0.51	0.64	1.25
BSU10810,yisP	1159922	1160746	4.42	3.72	0.84
BSU10820,yisQ	1160776	1162143	1.42	1.11	0.78
BSU10830,yisR	1162267	1163130	1.98	1.88	0.95
BSU10840,degA	1163148	1164161	2.96	3.04	1.03
BSU10850,yisS	1164370	1165398	3.79	0.91	0.24
BSU10860,yisT	1165449	1165958	0.49	1.55	3.19
BSU10870,yisU	1166008	1166670	0.25	0.36	1.47
BSU10880,yisV	1166737	1168191	1.13	1.25	1.11
BSU10890,yisX	1168199	1168837	6.67	8.20	1.23
BSU10900,yisY	1169043	1169849	0.84	0.82	0.98
BSU10910,yisZ	1169877	1170476	0.27	0.28	1.03
BSU10920,sat	1170473	1171642	0.20	0.17	0.83
BSU10930,yitB	1171755	1172465	0.14	0.11	0.77
BSU10940,yitC	1172650	1173336	0.10	0.09	0.90
BSU10950,yitD	1173333	1174091	0.08	0.08	1.03
BSU10960,yitE	1174136	1174765	0.07	0.09	1.24
BSU10970,yitF	1174861	1175976	2.09	4.79	2.29
BSU10980,yitG	1175985	1177253	1.35	2.79	2.07
BSU10990,yitH	1177365	1178213	8.53	10.05	1.18
BSU11000,yitI	1178218	1178682	7.38	8.31	1.13
BSU11010,yitJ	1178757	1180595	0.24	0.65	2.66
BSU11020,yitK	1180909	1181400	5.62	7.29	1.30
BSU11030,yitL	1181499	1182395	6.48	4.77	0.74
BSU11040,yitM	1182448	1183032	0.20	0.44	2.17
BSU11055,yitO	1183029	1183958	0.16	0.17	1.02
BSU11070,yitP	1183943	1184479	0.17	0.14	0.84
BSU11079,yizB	1184657	1185004	2.90	2.03	0.70
BSU11080,yitQ	1185001	1185588	4.08	2.84	0.70
BSU11090,yitR	1185608	1185901	4.00	3.47	0.87
BSU11100,nprB	1186037	1187653	0.34	0.45	1.33
BSU11110,yitS	1187700	1188551	10.84	15.58	1.44
BSU11120,yitT	1188689	1189531	14.80	7.95	0.54
BSU11130,ipi	1189646	1190005	22.27	14.71	0.66
BSU11139,yizC	1190036	1190233	12.27	10.21	0.83
BSU11140,yitU	1190490	1191302	9.02	8.44	0.94

BSU11150,yitV	1191423	1192190	1.59	1.40	0.88
BSU11160,yitW	1192254	1192562	18.72	33.41	1.78
BSU11170,yitY	1192858	1194288	4.52	2.92	0.65
BSU11180,yitZ	1194333	1194827	7.59	3.85	0.51
BSU11190,argC	1195034	1196071	0.14	0.20	1.48
BSU11200,argJ	1196091	1197311	0.11	0.09	0.80
BSU11210,argB	1197326	1198102	0.08	0.06	0.79
BSU11220,argD	1198099	1199256	0.08	0.08	1.00
BSU11230,carA	1199327	1200388	0.11	0.08	0.73
BSU11240,carB	1200381	1203473	0.17	0.10	0.60
BSU11250,argF	1203461	1204420	0.28	0.20	0.71
BSU11260,yjzC	1204506	1204685	6.78	6.32	0.93
BSU11270,yjzD	1204731	1204916	189.53	140.51	0.74
BSU11280,yjaU	1205165	1205899	0.30	0.52	1.73
BSU11290,yjaV	1205981	1206538	0.13	0.16	1.20
BSU11300,med	1206629	1207582	18.81	11.66	0.62
BSU11310,comZ	1207597	1207788	33.50	25.69	0.77
BSU11320,yjzB	1207818	1208057	3.58	1.80	0.50
BSU11330,fabHA	1208222	1209160	15.62	8.30	0.53
BSU11340,fabF	1209183	1210424	24.70	13.76	0.56
BSU11350,yjaZ	1210500	1211285	0.07	0.09	1.27
BSU11360,appD	1211477	1212463	0.13	0.29	2.27
BSU11370,appF	1212460	1213449	0.12	0.48	3.92
BSU11390,appB	1215243	1216193	0.26	0.47	1.79
BSU11400,appC	1216210	1217121	0.24	0.37	1.54
BSU11410,yjbA	1217326	1218078	0.25	0.51	2.02
BSU11420,trpS	1218113	1219105	10.85	10.36	0.96
BSU11430,oppA	1219849	1221486	0.80	4.92	6.11
BSU11440,oppB	1221594	1222529	0.21	0.82	3.95
BSU11450,oppC	1222533	1223450	0.56	1.34	2.37
BSU11460,oppD	1223455	1224531	0.71	2.11	2.96
BSU11470,oppF	1224533	1225450	0.95	2.99	3.14
BSU11480,yjbB	1225557	1226774	1.01	0.66	0.65
BSU11490,yjbC	1226938	1227516	8.84	7.77	0.88
BSU11500,spxA	1227697	1228092	49.62	62.72	1.26
BSU11510,yjbE	1228135	1228791	1.72	1.83	1.06
BSU11520,mecA	1229068	1229724	12.77	25.15	1.97
BSU11530,coiA	1229915	1231036	0.31	0.40	1.30
BSU11540,pepF	1231083	1233095	3.59	4.53	1.26
BSU11549,yizD	1233133	1233300	0.61	1.68	2.74
BSU11550,yjbH	1233614	1234513	9.41	13.17	1.40
BSU11560,yjbl	1234510	1234908	12.23	20.20	1.65
BSU11570,yjbJ	1235163	1235708	3.99	7.90	1.98
BSU11580,yjbK	1235912	1236484	2.06	2.97	1.44
BSU11590,yjbL	1236609	1236977	2.99	2.67	0.89
BSU11600,yjbM	1237006	1237641	13.42	8.88	0.66
BSU11610,ppnK	1237660	1238460	18.27	14.13	0.77

BSU11620,yjbO	1238523	1239374	35.46	45.27	1.28
BSU11630,yjbP	1239387	1240121	0.81	1.88	2.33
BSU11640,yjbQ	1240356	1242200	1.80	1.30	0.72
BSU11650,tenA	1242449	1243159	0.69	0.40	0.58
BSU11660,tenI	1243134	1243751	1.20	0.57	0.48
BSU11670,thiO	1243735	1244844	1.16	0.61	0.52
BSU11680,thiS	1244844	1245044	1.28	0.86	0.67
BSU11690,thiG	1245041	1245811	1.26	1.04	0.83
BSU11700,thiF	1245808	1246818	1.19	0.68	0.57
BSU11710,yjbV	1246837	1247652	1.44	0.77	0.54
BSU11720,fabI	1247788	1248564	37.08	30.39	0.82
BSU11730,cotO	1248665	1249348	0.94	1.46	1.56
BSU11740,cotZ	1249442	1249888	0.11	0.17	1.51
BSU11750,cotY	1250016	1250504	0.38	0.33	0.88
BSU11760,cotX	1250656	1251174	0.18	0.27	1.48
BSU11770,cotW	1251273	1251590	0.13	0.19	1.48
BSU11780,cotV	1251631	1252017	0.17	0.17	0.99
BSU11790,yjcA	1252177	1252533	0.34	0.29	0.85
BSU11799,yjzK	1252815	1253021	0.13	0.19	1.41
BSU11809,yjcZ	1253103	1253252	0.17	0.42	2.42
BSU11810,spoVIF	1253385	1253639	0.09	0.06	0.72
BSU11820,yjcD	1253713	1255866	12.83	6.35	0.50
BSU11839,yjzE	1256109	1256363	0.72	0.64	0.89
BSU11840,yjcF	1256436	1256858	5.35	20.57	3.85
BSU11850,yjcG	1256862	1257377	4.83	22.68	4.70
BSU11860,yjcH	1257414	1258136	2.25	8.62	3.84
BSU11870,yjcl	1258492	1259613	0.20	4.45	22.79
BSU11880,yjcJ	1259606	1260778	0.37	8.26	22.35
BSU11890,yjcK	1260811	1261356	0.31	1.06	3.37
BSU11900,yjcl	1261426	1262616	0.11	0.36	3.19
BSU11910,yjcM	1263702	1264931	2.08	3.99	1.92
BSU11920,yjcN	1265057	1265377	42.49	41.64	0.98
BSU11928,yjzF	1265530	1265661	0.13	0.19	1.53
BSU11929,yjzG	1265677	1265850	0.15	0.19	1.24
BSU11930,yjcO	1265887	1266348	0.17	0.24	1.44
BSU11940,yjcP	1266614	1267117	0.15	0.70	4.68
BSU11950,yjcQ	1267129	1267413	0.49	2.53	5.14
BSU11960,yjcR	1267574	1268101	0.11	0.09	0.80
BSU11970,yjcS	1268275	1268592	0.59	1.34	2.29
BSU11980,yjdA	1268829	1269584	2.01	2.97	1.48
BSU11990,yjdB	1269733	1270080	1.30	1.93	1.49
BSU12000,manR	1270631	1272577	5.85	6.01	1.03
BSU12010,manP	1272725	1274677	17.16	8.00	0.47
BSU12020,manA	1274692	1275639	27.27	12.83	0.47
BSU12030,yjdF	1275809	1276291	27.47	14.47	0.53
BSU12040,yjdG	1276337	1276843	4.39	4.40	1.00
BSU12050,yjdH	1277062	1277457	0.46	0.34	0.74

BSU12060,yjdl	1277686	1278165	3.76	3.65	0.97
BSU12069,yjzH	1278205	1278399	1.75	1.28	0.73
BSU12070,yjdJ	1278565	1278894	1.65	1.49	0.90
BSU12080,ctaO	1279514	1280503	0.45	0.30	0.66
BSU12090,cotT	1280626	1280949	0.26	0.22	0.84
BSU12100,yjeA	1281128	1282531	23.37	6.47	0.28
BSU12110,yjfA	1282571	1283044	0.58	0.30	0.52
BSU12120,yjfb	1283169	1283336	0.31	1.13	3.63
BSU12130,yjfc	1283463	1284362	0.20	0.17	0.84
BSU12140,yjgA	1284371	1284769	2.57	2.07	0.81
BSU12150,yjgB	1284870	1285445	0.07	0.10	1.36
BSU12160,yjgC	1285591	1288548	0.19	0.65	3.37
BSU12170,yjgD	1288541	1289101	0.32	1.15	3.63
BSU12180,yjhA	1289298	1289939	2.30	1.00	0.44
BSU12190,yjhB	1290018	1290644	3.88	2.48	0.64
BSU12200,yjiA	1290675	1290953	1.64	1.79	1.09
BSU12210,yjiB	1291344	1292534	1.78	3.66	2.05
BSU12220,yjiC	1292557	1293735	3.26	4.43	1.36
BSU12229,yjzl	1293776	1293964	4.49	4.96	1.11
BSU12230,hemD	1294138	1294950	11.36	14.93	1.31
BSU12240,yjka	1294996	1295748	5.12	6.90	1.35
BSU12250,yjkb	1295748	1296500	4.65	6.11	1.31
BSU12260,yjla	1296620	1297594	5.18	6.62	1.28
BSU12270,yjlb	1297726	1298223	0.42	0.81	1.95
BSU12280,rex	1298612	1299034	35.85	31.52	0.88
BSU12290,ndh	1299074	1300252	52.04	52.51	1.01
BSU12300,uxaC	1300450	1301871	0.57	0.18	0.31
BSU12310,exuM	1301939	1303318	0.41	0.23	0.57
BSU12320,yjmC	1303423	1304436	0.06	0.04	0.76
BSU12330,yjmD	1304442	1305461	0.07	0.06	0.95
BSU12340,uxuA	1305486	1306565	0.20	0.12	0.59
BSU12350,yjmF	1306562	1307398	0.09	0.07	0.76
BSU12360,exuT	1307446	1308714	0.11	0.07	0.61
BSU12370,exuR	1308802	1309803	2.94	3.17	1.08
BSU12380,uxaB	1309880	1311322	0.50	0.22	0.44
BSU12390,uxaA	1311319	1312812	0.86	0.32	0.38
BSU12400,yjnA	1312851	1313615	0.16	0.18	1.12
BSU12410,yjoA	1313840	1314304	3.85	4.01	1.04
BSU12420,yjoB	1314453	1315724	3.10	1.44	0.46
BSU12430,rapA	1315869	1317005	2.60	3.18	1.22
BSU12440,phrA	1316995	1317129	4.72	6.41	1.36
BSU12450,yjpA	1317157	1317414	3.93	2.70	0.69
BSU12460,xlyB	1317535	1318488	0.59	0.37	0.62
BSU12470,yjqA	1318528	1318905	4.12	3.87	0.94
BSU12480,yjqB	1319011	1319613	1.50	1.09	0.73
BSU12490,yjqC	1319690	1320526	10.22	7.73	0.76
BSU12500,xkdA	1320570	1321166	0.32	0.56	1.76

BSU12510,xre	1321329	1321670	4.68	5.40	1.15
BSU12519,yjzJ	1321848	1322027	0.11	0.08	0.66
BSU12520,xkdB	1322014	1322850	0.14	0.10	0.68
BSU12530,xkdC	1322750	1323550	0.30	0.19	0.64
BSU12539,ykzK	1323550	1323717	0.35	0.23	0.65
BSU12540,xkdD	1323802	1324152	0.42	0.21	0.49
BSU12550,xtrA	1324149	1324355	0.44	0.28	0.64
BSU12560,xpf	1324471	1324980	0.12	0.07	0.54
BSU12570,xtmA	1325096	1325893	1.77	0.99	0.56
BSU12580,xtmB	1325890	1327191	2.10	1.18	0.56
BSU12590,xkdE	1327195	1328682	1.71	0.97	0.56
BSU12600,xkdF	1328702	1329529	1.36	0.70	0.51
BSU12610,xkdG	1329555	1330490	1.14	0.60	0.53
BSU12619,ykzL	1330512	1330895	1.55	0.89	0.58
BSU12620,xkdH	1330892	1331248	1.20	0.72	0.60
BSU12630,xkdI	1331245	1331730	0.96	0.51	0.53
BSU12640,xkdJ	1331743	1332183	0.96	0.52	0.54
BSU12649,ykzM	1332187	1332405	1.59	0.78	0.49
BSU12650,xkdK	1332402	1333802	1.81	0.97	0.53
BSU12660,xkdM	1333804	1334247	2.40	1.44	0.60
BSU12671,xkdN	1334339	1334785	0.68	0.55	0.82
BSU12672,xkzB	1334815	1334964	0.42	0.28	0.66
BSU12680,xkdO	1334966	1338964	1.02	0.60	0.58
BSU12690,xkdP	1338957	1339616	0.92	0.56	0.60
BSU12700,xkdQ	1339632	1340609	0.63	0.40	0.65
BSU12710,xkdR	1340609	1340875	0.74	0.45	0.61
BSU12720,xkdS	1340932	1341357	0.74	0.34	0.47
BSU12730,xkdT	1341350	1342396	0.66	0.38	0.57
BSU12740,xkdU	1342380	1342958	0.61	0.48	0.78
BSU12749,xkzA	1342955	1343227	0.78	0.52	0.68
BSU12750,xkdV	1343230	1345293	0.68	0.45	0.65
BSU12760,xkdW	1345305	1345634	1.09	0.59	0.54
BSU12770,xkdX	1345631	1345795	1.17	0.64	0.55
BSU12780,xepA	1345839	1346678	1.03	0.61	0.59
BSU12790,xhlA	1346731	1347000	1.37	0.84	0.62
BSU12800,xhlB	1347013	1347276	1.46	0.96	0.65
BSU12810,xlyA	1347289	1348182	1.46	1.05	0.72
BSU12820,spolISB	1348442	1348612	12.87	19.57	1.52
BSU12830,spolISA	1348612	1349358	4.67	5.39	1.16
BSU12840,pit	1349468	1350469	19.97	11.21	0.56
BSU12850,ykaA	1350482	1351099	15.46	10.91	0.71
BSU12860,ykbA	1351375	1352691	7.20	6.75	0.94
BSU12870,mhqA	1353080	1354030	0.61	1.07	1.74
BSU12880,ykcB	1354285	1356435	0.15	0.26	1.71
BSU12890,ykcC	1356447	1357418	0.17	0.33	1.93
BSU12900,htrA	1357936	1359285	7.60	4.94	0.65
BSU12910,proG	1359454	1360272	1.09	1.28	1.17

BSU12920,dppA	1360401	1361225	0.07	0.14	2.07
BSU12930,dppB	1361242	1362168	0.10	0.10	0.99
BSU12940,dppC	1362174	1363136	0.12	0.13	1.12
BSU12950,dppD	1363141	1364148	0.08	0.14	1.63
BSU12960,dppE	1364151	1365800	0.13	0.25	1.95
BSU12970,ykfA	1365888	1366847	0.09	0.15	1.68
BSU12980,ykfB	1366844	1367944	0.16	0.24	1.51
BSU12990,ykfC	1367941	1368831	0.21	0.35	1.67
BSU13000,ykfD	1368844	1369833	0.26	0.70	2.70
BSU13010,ykgB	1369876	1370925	5.43	6.08	1.12
BSU13020,ykgA	1371015	1371875	0.23	0.28	1.26
BSU13030,ykhA	1372035	1372553	9.01	9.37	1.04
BSU13040,hmp	1372792	1373991	0.46	0.90	1.97
BSU13050,ykzH	1374068	1374292	0.19	0.25	1.32
BSU13060,ykjA	1374437	1375168	0.10	0.17	1.65
BSU13070,ykkA	1375260	1375787	0.11	0.19	1.77
BSU13080,ykkB	1375777	1376295	0.11	0.24	2.23
BSU13090,ykkC	1376517	1376855	1.22	0.95	0.78
BSU13100,ykkD	1376855	1377172	1.38	1.01	0.73
BSU13110,purU	1377243	1378145	10.82	20.69	1.91
BSU13120,proB	1378496	1379593	5.79	7.53	1.30
BSU13130,proA	1379605	1380852	10.55	16.92	1.60
BSU13140,ohrA	1380978	1381403	1.07	2.72	2.54
BSU13150,ohrR	1381434	1381877	1.76	1.54	0.87
BSU13160,ohrB	1382020	1382430	0.40	2.95	7.31
BSU13169,ykzN	1382457	1382627	0.10	0.75	7.74
BSU13170,guaD	1382677	1383147	0.23	1.28	5.59
BSU13180,metE	1383320	1385608	0.32	5.91	18.42
BSU13190,ispA	1386024	1386983	0.42	0.45	1.09
BSU13200,rsbRB	1387206	1388039	3.88	3.49	0.90
BSU13210,thiX	1388070	1388834	1.20	0.92	0.77
BSU13220,thiW	1388809	1390452	1.04	0.92	0.89
BSU13230,thiV	1390439	1391038	0.99	0.93	0.94
BSU13240,thiU	1391040	1391642	0.64	0.86	1.36
BSU13250,ykoG	1391953	1392639	0.49	0.45	0.92
BSU13260,ykoH	1392643	1394007	1.55	0.91	0.59
BSU13270,ykoI	1394004	1394684	2.10	1.04	0.49
BSU13280,ykoJ	1394776	1395288	3.44	2.68	0.78
BSU13290,ykzD	1395371	1395508	0.38	0.34	0.90
BSU13300,mgtE	1396013	1397368	7.26	4.79	0.66
BSU13310,tnrA	1397411	1397743	2.77	3.67	1.32
BSU13320,ykzB	1397938	1398093	2.08	3.66	1.76
BSU13330,ykoL	1398181	1398363	0.09	0.08	0.80
BSU13340,ykoM	1398496	1398960	3.92	5.97	1.52
BSU13350,ykoN	1398975	1400096	0.17	0.16	0.93
BSU13360,ykoP	1400188	1400739	0.07	0.08	1.07
BSU13370,ykoQ	1400767	1401579	0.45	0.33	0.72

BSU13380,ykoS	1401772	1403466	0.24	0.23	0.95
BSU13390,ykoT	1403479	1404492	0.64	0.66	1.04
BSU13400,ligD	1404518	1406353	0.60	0.81	1.36
BSU13410,ykoV	1406357	1407292	0.08	0.36	4.27
BSU13420,ykoW	1407329	1409578	0.20	0.28	1.42
BSU13430,ykoX	1409912	1410577	7.21	5.27	0.73
BSU13440,ykoY	1410654	1411628	2.26	2.58	1.14
BSU13450,sigl	1411892	1412647	2.05	1.99	0.97
BSU13460,rsgl	1412644	1413789	3.72	2.84	0.76
BSU13470,sspD	1413800	1413994	12.38	6.98	0.56
BSU13480,ykrK	1414125	1414826	10.33	11.03	1.07
BSU13490,ykrL	1414997	1415893	46.98	21.01	0.45
BSU13500,ktrD	1416067	1417416	27.80	14.51	0.52
BSU13509,ykzP	1417561	1417716	0.41	1.05	2.58
BSU13510,ykzE	1417719	1417895	0.23	0.79	3.44
BSU13520,ykrP	1417938	1418960	2.35	1.09	0.46
BSU13530,kinE	1419213	1421429	0.24	0.79	3.32
BSU13540,ogt	1421426	1421923	3.02	5.53	1.83
BSU13550,mtnA	1422172	1423233	0.22	1.86	8.28
BSU13560,mtnK	1423241	1424440	0.50	2.09	4.15
BSU13570,mtnU	1424767	1425546	0.96	2.48	2.57
BSU13580,ykrV	1425641	1426837	0.85	2.26	2.65
BSU13590,mtnW	1427034	1428278	0.30	6.33	21.22
BSU13600,mtnX	1428275	1428982	0.44	9.04	20.66
BSU13610,mtnB	1428940	1429569	0.56	15.38	27.53
BSU13620,mtnD	1429584	1430120	1.16	22.74	19.54
BSU13630,ykvA	1430161	1430481	5.33	7.07	1.33
BSU13640,spoOE	1430684	1430941	43.16	28.65	0.66
BSU13650,eag	1431027	1431458	2.39	2.30	0.96
BSU13660,kinD	1431486	1433006	21.73	47.50	2.19
BSU13670,mhqR	1433199	1433636	32.77	15.11	0.46
BSU13680,motB	1433676	1434461	0.64	2.49	3.88
BSU13690,motA	1434433	1435245	0.18	1.48	8.17
BSU13700,clpE	1435628	1437727	4.05	1.77	0.44
BSU13710,ykvI	1438092	1439135	0.10	0.09	0.93
BSU13720,queC	1439448	1440107	7.11	2.27	0.32
BSU13730,queD	1440100	1440549	10.26	3.65	0.36
BSU13740,queE	1440542	1441273	13.54	4.95	0.37
BSU13750,ykvM	1441291	1441788	19.29	8.66	0.45
BSU13760,ykvN	1442347	1442703	0.43	0.92	2.16
BSU13770,ykvO	1442872	1443618	0.28	0.65	2.37
BSU13780,ykvP	1444099	1445298	0.13	0.21	1.59
BSU13789,ykzQ	1445314	1445541	0.33	0.63	1.92
BSU13790,ykvQ	1445638	1446336	0.40	0.48	1.20
BSU13799,ykzR	1446317	1446568	0.48	0.46	0.96
BSU13800,ykvR	1447251	1447541	0.32	1.07	3.29
BSU13810,ykvS	1447662	1447847	1.73	5.46	3.15

BSU13819,ykzS	1448013	1448207	1.76	1.27	0.72
BSU13820,ykvT	1448506	1449132	0.36	0.38	1.08
BSU13830,ykvU	1449250	1450587	0.31	0.26	0.85
BSU13840,stoA	1450638	1451135	2.49	3.84	1.54
BSU13850,zosA	1451371	1453284	1.57	1.81	1.15
BSU13860,ykvY	1453691	1454782	8.29	7.36	0.89
BSU13870,ykvZ	1455064	1456029	1.57	1.75	1.11
BSU13880,glcT	1456092	1456958	9.27	5.41	0.58
BSU13890,ptsG	1457187	1459286	45.35	11.82	0.26
BSU13900,ptsH	1459384	1459650	96.02	42.12	0.44
BSU13910,ptsI	1459650	1461362	103.26	41.12	0.40
BSU13920,splA	1461453	1461692	1.41	4.25	3.01
BSU13930,splB	1461770	1462798	1.38	4.33	3.15
BSU13940,ykwB	1462813	1463493	0.07	0.23	3.40
BSU13950,mcpC	1463628	1465595	0.26	0.87	3.36
BSU13960,ykwC	1465733	1466599	12.60	14.27	1.13
BSU13970,ykwD	1466638	1467411	0.40	1.51	3.73
BSU13980,pbpH	1467805	1469862	3.00	2.73	0.91
BSU13990,kinA	1470026	1471846	0.42	1.29	3.10
BSU14000,patA	1471857	1473038	17.53	18.26	1.04
BSU14009,ykzT	1473240	1473401	5.56	4.99	0.90
BSU14010,cheV	1473605	1474516	0.57	1.77	3.12
BSU14020,ykyB	1474560	1475024	8.61	15.08	1.75
BSU14030,ykuC	1475150	1476442	11.95	14.14	1.18
BSU14040,ykuD	1476518	1477012	2.19	2.50	1.14
BSU14050,ykuE	1477069	1477929	1.76	2.35	1.34
BSU14060,ykuF	1478072	1478836	0.13	0.17	1.29
BSU14071,fadG	1479137	1480867	1.35	1.06	0.78
BSU14072,ykzU	1480933	1481451	2.29	1.77	0.77
BSU14080,ykuH	1481547	1482095	1.42	3.65	2.57
BSU14090,ykul	1482248	1483471	5.22	11.44	2.19
BSU14100,ykuJ	1484117	1484356	21.12	18.34	0.87
BSU14110,ykuK	1484466	1484984	18.92	16.31	0.86
BSU14120,ykzF	1485118	1485315	12.09	17.88	1.48
BSU14130,ykuL	1485453	1485896	0.92	1.52	1.64
BSU14140,ccpC	1486045	1486926	12.03	8.55	0.71
BSU14150,ykuN	1487038	1487514	3.25	1.74	0.53
BSU14160,ykuO	1487504	1488397	2.70	1.39	0.52
BSU14170,ykuP	1488413	1488868	2.35	1.40	0.59
BSU14180,dapH	1488973	1489683	13.26	10.68	0.81
BSU14190,dapL	1489753	1490877	7.27	12.20	1.68
BSU14200,ykuS	1490939	1491184	8.56	13.18	1.54
BSU14210,ykuT	1491221	1492024	1.43	1.72	1.20
BSU14220,ykuU	1492261	1492803	2.60	2.62	1.01
BSU14230,ykuV	1492875	1493321	2.61	2.01	0.77
BSU14240,rok	1493787	1494362	13.43	16.91	1.26
BSU14250,yknT	1494403	1495368	1.02	0.54	0.53

BSU14260,mobA	1495505	1496104	2.43	1.26	0.52
BSU14270,moeB	1496155	1497174	8.09	5.20	0.64
BSU14280,moeA	1497192	1498484	16.31	12.38	0.76
BSU14290,mobB	1498445	1498966	17.74	14.22	0.80
BSU14300,moaE	1498966	1499439	18.26	14.46	0.79
BSU14310,moaD	1499432	1499665	13.39	10.23	0.76
BSU14320,yknU	1499889	1501646	0.09	0.19	2.10
BSU14330,yknV	1501658	1503472	0.11	0.21	1.92
BSU14340,yknW	1503582	1504277	3.63	2.22	0.61
BSU14350,yknX	1504282	1505415	2.54	1.53	0.60
BSU14360,yknY	1505416	1506108	7.39	3.08	0.42
BSU14370,yknZ	1506105	1507298	10.40	4.72	0.45
BSU14380,fruR	1507578	1508333	1.65	1.46	0.89
BSU14390,fruK	1508330	1509241	2.60	1.99	0.77
BSU14400,fruA	1509256	1511163	12.46	5.76	0.46
BSU14410,sipT	1511308	1511889	18.64	28.88	1.55
BSU14420,ykoA	1511923	1512192	3.76	6.18	1.64
BSU14430,ykpA	1512373	1513995	46.52	29.95	0.64
BSU14440,ykpB	1514052	1514963	8.17	27.33	3.35
BSU14450,ampS	1514997	1516229	4.01	4.70	1.17
BSU14460,ykpC	1516339	1516473	15.81	3.91	0.25
BSU14470,mreBH	1516574	1517581	7.97	2.16	0.27
BSU14480,abh	1517865	1518143	18.98	10.52	0.55
BSU14490,kinC	1518333	1519619	4.49	3.92	0.87
BSU14500,ykqA	1519635	1520468	7.72	6.04	0.78
BSU14510,ktrC	1520531	1521196	23.22	24.69	1.06
BSU14520,adeC	1521351	1523084	16.34	57.26	3.50
BSU14530,rnjA	1523118	1524785	0.61	0.82	1.35
BSU14540,ykzG	1524791	1525000	18.79	25.25	1.34
BSU14550,ykrA	1525386	1526159	3.00	1.75	0.58
BSU14560,def	1526195	1526749	6.57	6.44	0.98
BSU14569,ykzV	1526859	1527017	0.19	0.30	1.55
BSU14570,ykyA	1527231	1527902	1.51	0.98	0.65
BSU14580,pdhA	1528326	1529441	83.30	54.17	0.65
BSU14590,pdhB	1529445	1530422	87.22	57.72	0.66
BSU14600,pdhC	1530537	1531865	172.27	127.52	0.74
BSU14610,pdhD	1531870	1533282	191.21	167.45	0.88
BSU14620,slp	1533327	1533701	1.22	0.88	0.72
BSU14629,ykzW	1534120	1534239	7.71	1.35	0.17
BSU14630,speA	1534279	1535751	20.61	5.73	0.28
BSU14640,yktA	1535936	1536202	3.63	5.37	1.48
BSU14650,yktB	1536235	1536873	7.48	11.56	1.55
BSU14660,ykzI	1537113	1537301	0.14	1.26	9.08
BSU14670,suhB	1537441	1538238	2.77	4.26	1.54
BSU14680,ykzC	1538264	1538692	6.02	5.94	0.99
BSU14690,yktD	1538770	1539684	1.55	0.98	0.63
BSU14700,nprE	1540036	1541601	0.75	0.86	1.14

BSU14710,ylaA	1541886	1543826	0.57	0.30	0.52
BSU14720,ylaB	1543816	1544085	1.38	0.82	0.59
BSU14730,ylaC	1544085	1544606	2.22	1.25	0.56
BSU14740,ylaD	1544603	1544896	2.39	1.26	0.53
BSU14750,ylaE	1544936	1545547	1.00	1.74	1.73
BSU14760,ylaF	1545820	1546008	16.59	19.10	1.15
BSU14770,bipA	1546121	1547959	56.29	40.29	0.72
BSU14780,ylaH	1548016	1548333	297.34	613.99	2.06
BSU14790,ylaI	1548389	1548598	2.50	3.15	1.26
BSU14800,ylaJ	1548681	1549310	0.20	0.30	1.49
BSU14810,ylaK	1549465	1550793	1.13	1.13	1.00
BSU14820,ylaL	1550797	1551282	5.89	5.49	0.93
BSU14830,ylaM	1551385	1552314	0.43	0.39	0.90
BSU14840,ylaN	1552412	1552693	25.90	25.62	0.99
BSU14850,ftsW	1552899	1554110	13.26	20.78	1.57
BSU14860,pycA	1554185	1557631	71.63	132.40	1.85
BSU14870,ctaA	1558034	1558954	18.50	11.65	0.63
BSU14880,ctaB	1559309	1560226	30.94	23.77	0.77
BSU14890,ctaC	1560466	1561536	0.59	0.57	0.96
BSU14900,ctaD	1561569	1563437	1.48	1.07	0.72
BSU14910,ctaE	1563437	1564060	1.73	1.17	0.68
BSU14920,ctaF	1564063	1564395	2.04	1.59	0.78
BSU14930,ctaG	1564422	1565315	1.32	1.11	0.84
BSU14940,ylbA	1565347	1565709	3.59	2.89	0.81
BSU14950,ylbB	1565849	1566295	0.70	0.64	0.92
BSU14960,ylbC	1566379	1567419	2.45	2.56	1.04
BSU14970,ylbD	1567651	1568049	0.34	0.37	1.08
BSU14980,ylbE	1568065	1568304	0.31	0.52	1.64
BSU14990,ylbF	1568420	1568869	29.73	18.54	0.62
BSU15000,ylbG	1568924	1569196	15.41	12.08	0.78
BSU15010,ylbH	1569519	1570073	12.57	7.28	0.58
BSU15020,coaD	1570078	1570563	18.74	11.76	0.63
BSU15030,ylbJ	1570574	1571800	1.34	1.50	1.13
BSU15040,ylbK	1571981	1572763	2.63	3.03	1.15
BSU15050,ylbL	1572765	1573790	4.94	4.70	0.95
BSU15060,ylbM	1573807	1575054	2.91	2.97	1.02
BSU15069,ylzH	1575051	1575236	5.08	5.70	1.12
BSU15070,ylbN	1575264	1575782	269.19	144.95	0.54
BSU15080,rpmF	1575804	1575983	1088.06	852.95	0.78
BSU15090,ylbO	1576129	1576710	1.03	4.64	4.51
BSU15100,ylbP	1576767	1577249	0.30	0.40	1.36
BSU15110,ylbQ	1577409	1578305	1.43	1.97	1.38
BSU15120,yllA	1578376	1579995	10.55	5.50	0.52
BSU15130,yllB	1580121	1580552	14.37	20.92	1.46
BSU15140,mraW	1580622	1581557	27.30	240.06	8.79
BSU15150,ftsL	1581597	1581950	31.28	40.57	1.30
BSU15160,ppbB	1581947	1584097	7.48	6.29	0.84

BSU15170,spoVD	1584214	1586154	0.36	0.18	0.51
BSU15180,murE	1586330	1587814	12.04	4.82	0.40
BSU15190,mraY	1587926	1588900	24.20	9.52	0.39
BSU15200,murD	1588901	1590256	41.11	19.72	0.48
BSU15210,spoVE	1590317	1591417	56.27	32.89	0.58
BSU15220,murG	1591540	1592631	9.63	2.97	0.31
BSU15230,murB	1592663	1593574	18.63	6.81	0.37
BSU15240,divIB	1593704	1594495	3.05	2.23	0.73
BSU15250,ylxW	1594492	1595187	4.68	2.84	0.61
BSU15260,ylxX	1595210	1595917	11.88	11.15	0.94
BSU15270,ebp	1595935	1596300	5.30	6.69	1.26
BSU15280,ftsA	1596474	1597796	22.72	29.12	1.28
BSU15290,ftsZ	1597832	1598980	126.08	99.30	0.79
BSU15300,bpr	1599283	1603584	0.66	3.25	4.93
BSU15310,spolIGA	1603779	1604708	0.10	0.15	1.49
BSU15320,sigE	1604771	1605490	0.17	0.32	1.83
BSU15330,sigG	1605630	1606412	1.00	0.85	0.85
BSU15340,ylmA	1606560	1607354	0.25	0.56	2.20
BSU15350,ylmB	1607556	1608836	0.25	0.24	0.94
BSU15360,ylmC	1608919	1609164	0.53	0.75	1.41
BSU15370,ylmD	1609327	1610163	15.70	14.60	0.93
BSU15380,ylmE	1610170	1610862	19.68	18.93	0.96
BSU15390,sepF	1610865	1611314	37.52	36.00	0.96
BSU15400,ylmG	1611321	1611593	39.55	38.46	0.97
BSU15410,ylmH	1611654	1612427	20.73	28.18	1.36
BSU15420,divIVA	1612521	1613015	75.26	81.51	1.08
BSU15430,ileS	1613357	1616122	52.35	49.80	0.95
BSU15440,ylyA	1616267	1616641	0.29	0.72	2.45
BSU15450,lspA	1616744	1617208	5.94	4.10	0.69
BSU15460,rluD	1617210	1618121	27.45	11.79	0.43
BSU15470,pyrR	1618304	1618849	174.75	96.97	0.55
BSU15480,pyrP	1619023	1620330	346.64	128.60	0.37
BSU15490,pyrB	1620476	1621390	128.87	35.93	0.28
BSU15500,pyrC	1621374	1622660	108.63	35.55	0.33
BSU15510,pyrAA	1622657	1623751	109.77	41.40	0.38
BSU15520,carB	1623736	1626951	104.40	59.60	0.57
BSU15530,pyrK	1626948	1627718	84.12	50.38	0.60
BSU15540,pyrD	1627718	1628653	77.96	36.94	0.47
BSU15550,pyrF	1628622	1629341	81.64	40.31	0.49
BSU15560,pyrE	1629320	1629970	92.77	50.60	0.55
BSU15570,cysH	1630382	1631083	1.64	8.83	5.37
BSU15580,cysP	1631095	1632159	1.03	6.96	6.73
BSU15590,sat	1632208	1633356	1.20	15.18	12.65
BSU15600,cysC	1633369	1633962	1.22	16.95	13.84
BSU15610,sumT	1634061	1634834	1.86	20.19	10.85
BSU15620,sirB	1634837	1635622	10.03	28.61	2.85
BSU15630,sirC	1635603	1636091	14.54	37.36	2.57

BSU15640,yloA	1636131	1637849	11.44	10.52	0.92
BSU15650,yloB	1637965	1640637	0.32	0.22	0.68
BSU15660,yloC	1640720	1641595	12.16	12.56	1.03
BSU15670,ylzA	1641672	1641941	34.51	30.70	0.89
BSU15680,gmk	1641949	1642563	34.27	28.07	0.82
BSU15690,rpoZ	1642567	1642770	43.47	34.91	0.80
BSU15700,coaBC	1642851	1644071	3.05	4.80	1.57
BSU15710,priA	1644068	1646485	3.07	6.20	2.02
BSU15720,def	1646512	1646994	7.16	8.80	1.23
BSU15730,fmt	1646999	1647952	14.49	18.28	1.26
BSU15740,rsmB	1647939	1649282	14.88	19.24	1.29
BSU15750,yloN	1649286	1650377	11.41	11.78	1.03
BSU15760,prpC	1650384	1651148	4.49	6.77	1.51
BSU15770,prkC	1651142	1653088	14.23	11.26	0.79
BSU15780,yloQ	1653103	1653999	29.19	26.42	0.91
BSU15790,rpe	1654004	1654657	28.11	24.86	0.88
BSU15800,thiN	1654730	1655374	7.34	11.78	1.60
BSU15810,spoVM	1655446	1655526	9.25	15.43	1.67
BSU15820,rpmB	1655599	1655787	497.79	396.95	0.80
BSU15830,yloU	1656064	1656426	18.00	20.30	1.13
BSU15840,yloV	1656442	1658103	38.70	32.89	0.85
BSU15850,sdaAB	1658242	1658904	4.04	6.38	1.58
BSU15860,sdaAA	1658930	1659832	8.34	9.00	1.08
BSU15870,recG	1659810	1661858	2.45	3.34	1.36
BSU15880,ylpC	1661967	1662533	15.16	12.68	0.84
BSU15890,plsX	1662547	1663548	12.83	11.11	0.87
BSU15900,fabD	1663567	1664520	23.12	16.75	0.72
BSU15910,fabG	1664513	1665253	27.53	22.84	0.83
BSU15920,acpP	1665337	1665570	89.33	68.10	0.76
BSU15930,rnc	1665710	1666459	15.35	0.40	0.03
BSU15940,smc	1666560	1670120	16.69	5.57	0.33
BSU15950,ftsY	1670140	1671129	21.38	6.71	0.31
BSU15960,ylqB	1671166	1671651	0.59	1.01	1.71
BSU15970,ylxM	1671828	1672160	33.22	20.20	0.61
BSU15980,ffh	1672174	1673514	45.85	27.46	0.60
BSU15990,rpsP	1673620	1673892	226.24	149.51	0.66
BSU16000,ylqC	1673892	1674137	180.97	114.08	0.63
BSU16010,ylqD	1674259	1674645	2.56	2.88	1.12
BSU16020,rimM	1674650	1675174	7.75	6.58	0.85
BSU16030,trmD	1675171	1675902	9.40	6.81	0.72
BSU16040,rplS	1676033	1676389	451.86	216.80	0.48
BSU16050,rbgA	1676532	1677380	13.17	7.77	0.59
BSU16060,rnhB	1677451	1678218	1.34	1.52	1.13
BSU16070,ylqG	1678250	1679980	1.93	1.98	1.03
BSU16080,ylqH	1679977	1680258	1.29	1.36	1.05
BSU16090,sucC	1680431	1681588	7.25	15.22	2.10
BSU16100,sucD	1681617	1682519	14.24	23.37	1.64

BSU16110,dprA	1682580	1683473	0.37	1.05	2.81
BSU16120,topA	1683661	1685736	20.89	11.13	0.53
BSU16130,gid	1685812	1687119	9.50	3.99	0.42
BSU16140,xerC	1687187	1688101	14.99	8.65	0.58
BSU16150,clpQ	1688114	1688659	30.09	26.38	0.88
BSU16160,hslU	1688676	1690079	28.97	26.06	0.90
BSU16170,codY	1690119	1690898	37.48	32.10	0.86
BSU16180,flgB	1691278	1691667	0.93	11.07	11.97
BSU16190,flgC	1691667	1692119	0.71	11.08	15.69
BSU16200,fliE	1692130	1692450	0.29	8.31	28.39
BSU16210,fliF	1692496	1694106	0.34	16.11	47.40
BSU16220,fliG	1694119	1695135	0.16	5.56	34.86
BSU16230,fliH	1695254	1695880	0.18	6.06	33.11
BSU16240,fliI	1695877	1697193	0.14	5.73	40.96
BSU16250,fliJ	1697196	1697639	0.12	5.78	49.33
BSU16260,ylxF	1697651	1698265	0.14	6.31	44.26
BSU16270,fliK	1698278	1699741	0.14	6.00	43.00
BSU16280,flgD	1699738	1700160	0.15	5.19	34.03
BSU16290,flgG	1700182	1700976	0.27	5.32	20.03
BSU16299,ylzI	1701016	1701231	0.15	2.94	20.05
BSU16300,fliL	1701228	1701650	0.17	3.48	20.69
BSU16310,fliM	1701684	1702682	0.24	4.62	19.58
BSU16320,fliY	1702672	1703808	0.32	5.53	17.44
BSU16330,cheY	1703834	1704196	0.68	11.45	16.84
BSU16340,fliZ	1704211	1704870	0.31	5.67	18.14
BSU16350,fliP	1704863	1705528	0.19	3.60	19.07
BSU16360,fliQ	1705543	1705812	0.27	5.38	19.81
BSU16370,fliR	1705820	1706599	0.25	4.80	19.10
BSU16380,flhB	1706599	1707681	0.23	4.09	17.99
BSU16390,flhA	1707714	1709747	0.29	4.06	14.15
BSU16400,flhF	1709747	1710847	0.31	3.62	11.58
BSU16410,ylxH	1710838	1711734	0.37	3.63	9.84
BSU16420,cheB	1711736	1712809	0.24	3.40	14.11
BSU16430,cheA	1712815	1714833	0.31	4.09	13.36
BSU16440,cheW	1714855	1715325	0.53	5.75	10.76
BSU16450,cheC	1715344	1715973	0.71	7.52	10.53
BSU16460,cheD	1715970	1716470	0.69	5.96	8.68
BSU16470,sigD	1716493	1717257	0.86	6.06	7.04
BSU16480,ylxL	1717286	1717789	1.17	7.89	6.74
BSU16490,rpsB	1717933	1718673	141.08	68.05	0.48
BSU16500,tsf	1718775	1719656	215.83	101.52	0.47
BSU16510,pyrH	1719802	1720524	39.08	24.57	0.63
BSU16520,frf	1720526	1721083	47.36	26.43	0.56
BSU16530,uppS	1721214	1721996	8.07	8.05	1.00
BSU16540,cdsA	1722000	1722809	7.93	7.24	0.91
BSU16550,dxr	1722871	1724022	14.64	9.55	0.65
BSU16560,rseP	1724029	1725297	45.85	27.96	0.61

BSU16570,proS	1725330	1727024	82.48	43.50	0.53
BSU16580,polC	1727133	1731446	17.01	8.12	0.48
BSU16590,ylxS	1731776	1732246	12.44	5.29	0.43
BSU16600,nusA	1732281	1733396	18.29	9.39	0.51
BSU16610,ylxR	1733410	1733685	24.50	12.00	0.49
BSU16620,ylxQ	1733687	1733989	25.81	13.16	0.51
BSU16630,infB	1734009	1736159	34.88	19.25	0.55
BSU16640,ylxP	1736156	1736434	54.04	33.35	0.62
BSU16650,rbfA	1736451	1736804	39.94	25.54	0.64
BSU16660,truB	1736886	1737815	0.97	0.99	1.02
BSU16670,ribC	1737834	1738784	9.83	6.68	0.68
BSU16680,rpsO	1738941	1739210	403.66	241.67	0.60
BSU16690,pnpA	1739383	1741500	96.84	72.51	0.75
BSU16700,ylxY	1741618	1742577	2.98	5.96	2.00
BSU16710,mlpA	1742617	1743846	6.13	10.46	1.71
BSU16720,ymxH	1743924	1744181	1.21	5.56	4.58
BSU16730,spoVFA	1744367	1745260	0.19	0.16	0.85
BSU16740,spoVFB	1745263	1745865	0.25	0.26	1.06
BSU16750,asd	1745991	1747031	23.68	46.08	1.95
BSU16760,dapG	1747123	1748337	21.19	19.62	0.93
BSU16770,dapA	1748368	1749240	34.03	32.92	0.97
BSU16780,rnjB	1749418	1751085	92.91	68.56	0.74
BSU16790,tepA	1751201	1751938	1.24	1.67	1.35
BSU16799,ylzJ	1751935	1752147	1.66	2.19	1.32
BSU16800,spolIIE	1752272	1754641	13.03	11.56	0.89
BSU16810,ymfC	1754785	1755510	4.55	12.07	2.66
BSU16825,ymfD	1755649	1756857	0.91	3.21	3.53
BSU16845,ymfF	1757037	1758317	17.00	16.56	0.97
BSU16860,ymfH	1758314	1759600	21.73	20.87	0.96
BSU16870,fabG	1759655	1760383	1.40	2.21	1.58
BSU16880,ymfJ	1760464	1760721	3.81	7.42	1.95
BSU16910,ymfM	1761707	1762573	15.50	15.89	1.03
BSU16920,pgsA	1762623	1763204	20.15	9.26	0.46
BSU16930,cinA	1763222	1764472	32.95	17.14	0.52
BSU16940,recA	1764645	1765691	45.04	27.10	0.60
BSU16950,pbpX	1765859	1767034	1.80	0.85	0.48
BSU16960,ymdA	1767310	1768872	404.62	493.46	1.22
BSU16970,ymdB	1768941	1769735	8.36	5.57	0.67
BSU16980,spoVS	1769935	1770195	10.94	9.49	0.87
BSU16990,tdh	1770461	1771504	4.72	3.02	0.64
BSU17000,kbl	1771517	1772695	22.35	6.57	0.29
BSU17010,ymcB	1772843	1774372	14.05	7.77	0.55
BSU17020,ymcA	1774374	1774805	20.06	13.37	0.67
BSU17030,cotE	1775067	1775612	0.29	0.21	0.71
BSU17040,mutS	1775745	1778321	16.67	7.73	0.46
BSU17050,mutL	1778337	1780220	22.48	12.03	0.54
BSU17060,ymzD	1780618	1781073	2.69	3.03	1.13

BSU17070,ymcC	1781228	1781785	0.84	0.75	0.90
BSU17080,pkA	1781906	1782523	7.46	5.71	0.76
BSU17090,pkB	1782713	1783390	0.53	1.41	2.64
BSU17100,pkC	1783763	1784629	2.14	4.64	2.16
BSU17110,pkD	1785133	1786107	0.47	3.21	6.87
BSU17120,pkE	1786104	1788407	0.11	1.47	13.79
BSU17130,acpK	1788469	1788717	0.08	1.22	14.56
BSU17140,pkF	1788695	1789942	0.05	0.66	14.42
BSU17150,pkG	1789943	1791205	0.07	0.56	7.94
BSU17160,pkH	1791193	1791972	0.05	0.53	10.23
BSU17170,pkI	1792012	1792761	0.07	0.43	5.89
BSU17180,pkJ	1792806	1807937	0.13	0.61	4.74
BSU17190,pkL	1807921	1821537	0.18	0.42	2.30
BSU17200,pkM	1821553	1834341	0.35	0.52	1.48
BSU17210,pkN	1834409	1850875	0.20	0.51	2.57
BSU17220,pkR	1850890	1858521	0.65	1.12	1.72
BSU17230,pkS	1858566	1859783	4.08	5.61	1.37
BSU17240,ymzB	1860014	1860370	0.60	1.19	1.97
BSU17250,ymaE	1860449	1861273	0.27	0.86	3.22
BSU17260,aprX	1861384	1862712	0.16	0.20	1.22
BSU17270,ymaC	1863448	1864155	0.30	0.43	1.45
BSU17280,ymaD	1864225	1864677	2.91	3.98	1.37
BSU17290,ebrB	1864691	1865044	2.85	2.11	0.74
BSU17300,ebrA	1865058	1865375	1.80	1.36	0.75
BSU17310,ymaG	1865512	1865787	0.13	0.14	1.08
BSU17320,ymaF	1865876	1866289	0.13	0.12	0.97
BSU17330,miaA	1866389	1867333	6.64	5.81	0.87
BSU17340,hfq	1867373	1867594	12.47	28.19	2.26
BSU17350,ymzC	1867790	1868062	0.97	1.13	1.17
BSU17360,ymzA	1868144	1868374	4.15	4.79	1.15
BSU17370,nrdI	1868617	1869009	6.31	4.99	0.79
BSU17380,nrdE	1868969	1871071	21.82	11.70	0.54
BSU17390,nrdF	1871089	1872078	23.29	12.83	0.55
BSU17400,ymaB	1872128	1872748	4.08	3.93	0.96
BSU17410,cwlC	1872812	1873579	1.42	1.12	0.79
BSU17420,spoVK	1874203	1875171	0.21	0.42	1.97
BSU17430,ynbA	1875304	1876566	4.73	3.86	0.82
BSU17440,ynbB	1876584	1877849	5.67	3.80	0.67
BSU17450,glnR	1877959	1878366	36.29	21.72	0.60
BSU17460,glnA	1878425	1879759	130.06	82.86	0.64
BSU17470,ynxB	1880087	1880377	0.40	1.30	3.27
BSU17480,ynzF	1880623	1880967	1.42	2.23	1.57
BSU17490,ynzG	1881098	1881349	0.46	1.23	2.66
BSU17500,ynaB	1881536	1881970	2.70	5.12	1.90
BSU17510,ynaC	1882040	1882831	1.77	2.79	1.58
BSU17520,ynaD	1883166	1883678	0.17	0.50	2.97
BSU17530,ynaE	1884238	1884879	1.33	3.43	2.58

BSU17540,ynaF	1884968	1885321	1.16	3.45	2.97
BSU17550,ynaG	1885365	1885640	0.92	2.86	3.12
BSU17559,ynzI	1885753	1885917	0.91	2.33	2.55
BSU17560,ynal	1886057	1886527	0.39	0.99	2.53
BSU17570,xynP	1887352	1888743	0.32	0.16	0.50
BSU17580,xynB	1888774	1890375	0.70	0.59	0.83
BSU17590,xylR	1890512	1891564	0.98	1.31	1.33
BSU17600,xylA	1891908	1893245	4.91	1.71	0.35
BSU17610,xylB	1893396	1894895	1.06	0.48	0.45
BSU17620,yncB	1895378	1896013	2.09	1.34	0.64
BSU17630,yncC	1896424	1897839	1.90	1.04	0.55
BSU17640,alrB	1897941	1899125	0.21	0.16	0.76
BSU17650,yncE	1899589	1900050	0.55	1.10	2.02
BSU17660,yncF	1900080	1900514	4.29	5.35	1.25
BSU17670,cotU	1901117	1901377	0.79	3.37	4.27
BSU17680,thyA	1902219	1903058	2.71	3.48	1.28
BSU17690,yncM	1903511	1904263	2.61	6.25	2.39
BSU17699,ynzK	1904393	1904749	0.14	0.12	0.82
BSU17700,cotC	1904995	1905195	1.06	1.50	1.42
BSU17710,tatAC	1905370	1905558	10.78	21.33	1.98
BSU17720,yndA	1905809	1906207	0.16	0.45	2.82
BSU17730,yndB	1906272	1906706	35.83	40.23	1.12
BSU17740,ynzB	1907013	1907201	2.62	3.12	1.19
BSU17750,yndD	1907494	1909056	0.23	0.15	0.64
BSU17760,yndE	1909086	1910177	0.16	0.12	0.73
BSU17770,yndF	1910167	1911381	0.08	0.08	0.94
BSU17780,yndG	1911528	1912334	0.59	0.38	0.65
BSU17790,yndH	1912339	1912956	1.28	0.69	0.54
BSU17800,yndJ	1912953	1914593	2.64	1.17	0.44
BSU17810,yndK	1914630	1914995	1.44	0.55	0.38
BSU17820,yndL	1915221	1915979	0.10	0.16	1.68
BSU17830,yndM	1916006	1916545	0.60	1.16	1.92
BSU17840,yndN	1916663	1917097	1.37	0.60	0.44
BSU17850,lexA	1917639	1918256	34.40	28.96	0.84
BSU17860,yneA	1918406	1918723	0.30	0.38	1.27
BSU17870,yneB	1918742	1919395	0.39	0.51	1.31
BSU17880,ynzC	1919459	1919692	6.60	6.57	1.00
BSU17890,tkf	1919861	1921864	49.98	43.17	0.86
BSU17900,yneE	1922017	1922463	0.74	3.05	4.11
BSU17910,yneF	1922549	1922767	46.49	41.00	0.88
BSU17920,ynzD	1922841	1923014	6.22	6.85	1.10
BSU17930,ccdA	1923234	1923941	0.74	0.48	0.65
BSU17940,yneI	1924030	1924392	5.16	4.92	0.95
BSU17950,yneJ	1924471	1924962	33.44	25.77	0.77
BSU17960,yneK	1924993	1925421	11.09	5.35	0.48
BSU17970,cotM	1925655	1926047	0.27	0.19	0.70
BSU17980,sspP	1926128	1926274	0.34	0.44	1.29

BSU17990,sspO	1926306	1926452	0.55	0.50	0.91
BSU18000,citB	1926680	1929409	6.89	10.71	1.56
BSU18010,yneN	1929481	1929993	0.80	2.11	2.64
BSU18019,ynzL	1930074	1930199	0.00	0.00	0.00
BSU18020,sspN	1930264	1930410	0.12	0.59	4.95
BSU18030,tlp	1930447	1930698	0.11	0.53	4.94
BSU18040,yneP	1930834	1931199	3.62	3.95	1.09
BSU18050,yneQ	1931215	1931514	3.88	3.93	1.01
BSU18060,yneR	1931545	1931832	42.65	40.35	0.95
BSU18070,yneS	1931920	1932501	12.59	13.91	1.11
BSU18080,yneT	1932671	1933078	19.24	39.11	2.03
BSU18090,parE	1933477	1935444	9.95	6.84	0.69
BSU18100,parC	1935448	1937868	17.21	11.64	0.68
BSU18110,ynfC	1938066	1938476	1.46	6.59	4.51
BSU18120,alsT	1938925	1940322	14.47	4.03	0.28
BSU18130,eglS	1940625	1942124	0.56	0.42	0.76
BSU18140,ynfE	1942192	1942455	0.07	0.13	1.89
BSU18150,xynC	1942714	1943982	3.01	1.42	0.47
BSU18160,xynD	1944113	1945654	2.34	0.96	0.41
BSU18170,yngA	1946249	1946695	0.20	0.35	1.73
BSU18180,yngB	1946702	1947595	1.10	1.04	0.94
BSU18190,yngC	1947668	1948264	7.81	4.59	0.59
BSU18200,yngD	1948313	1949512	0.90	0.60	0.67
BSU18210,yngE	1949682	1951217	0.23	0.16	0.69
BSU18220,yngF	1951228	1952010	0.11	0.09	0.84
BSU18230,yngG	1952031	1952930	0.08	0.06	0.85
BSU18239,yngHB	1952945	1953166	0.00	0.00	0.00
BSU18240,yngH	1953181	1954515	0.05	0.05	1.10
BSU18250,yngI	1954525	1956174	0.07	0.06	0.89
BSU18260,yngJ	1956218	1957360	0.06	0.05	0.81
BSU18270,ynzE	1957451	1957756	0.09	0.12	1.30
BSU18280,yngK	1958027	1959559	0.13	0.13	0.94
BSU18290,yngL	1959695	1960087	0.09	0.16	1.84
BSU18300,ppsE	1960198	1964037	0.31	1.78	5.82
BSU18310,ppsD	1964045	1974856	0.36	3.12	8.65
BSU18320,ppsC	1974881	1982548	0.16	2.31	14.84
BSU18330,ppsB	1982565	1990247	0.00	0.00	0.00
BSU18340,ppsA	1990272	1997957	0.00	0.00	0.00
BSU18350,dacC	1998340	1999815	0.76	2.46	3.25
BSU18360,yoxA	1999849	2000826	0.74	2.44	3.32
BSU18370,yoeA	2000960	2002351	3.94	4.28	1.09
BSU18380,iseA	2002637	2003182	31.30	27.50	0.88
BSU18390,yoeC	2003401	2003946	1.11	1.70	1.53
BSU18400,yoeD	2004262	2004492	2.65	2.17	0.82
BSU18410,ggT	2004677	2006440	0.30	0.20	0.67
BSU18420,ftsR	2006541	2007398	3.40	2.08	0.61
BSU18430,yogA	2007526	2008515	0.48	0.38	0.78

BSU18440,gltd	2008572	2010053	1.50	29.57	19.65
BSU18450,glta	2010070	2014632	1.59	23.83	15.01
BSU18460,gltc	2014779	2015681	4.67	5.48	1.17
BSU18470,proj	2015733	2016848	1.78	1.40	0.79
BSU18480,proh	2016845	2017738	1.00	0.95	0.95
BSU18490,rtp	2017886	2018254	0.72	1.95	2.70
BSU18500,fabG	2018554	2019270	10.90	8.13	0.75
BSU18510,yoxC	2019421	2019726	0.18	0.58	3.18
BSU18520,yoxB	2019797	2020567	0.06	0.12	1.80
BSU18530,yoaA	2020611	2021144	1.23	2.17	1.76
BSU18540,yoaB	2021223	2022467	0.11	0.60	5.21
BSU18550,yoaC	2022561	2024024	0.06	0.39	6.67
BSU18560,yoaD	2024042	2025076	0.06	0.97	16.77
BSU18570,yoaE	2025400	2027442	0.55	4.47	8.08
BSU18580,yoaF	2027509	2027802	2.57	6.65	2.59
BSU18590,yoaG	2028175	2028579	0.90	0.92	1.02
BSU18600,yozQ	2029020	2029313	0.43	0.97	2.26
BSU18610,yoaH	2029429	2031114	0.16	0.29	1.80
BSU18620,yoaI	2031439	2032890	0.15	0.24	1.52
BSU18630,exlX	2032927	2033625	4.27	2.72	0.64
BSU18640,yoaK	2033895	2034572	4.76	2.99	0.63
BSU18650,peIB	2034745	2035782	2.45	1.43	0.58
BSU18660,yoaM	2036039	2036722	3.17	1.61	0.51
BSU18669,yozS	2037063	2037368	1.98	2.25	1.13
BSU18670,yoaN	2037601	2038779	0.09	0.07	0.79
BSU18680,yoaO	2038902	2039390	0.06	0.09	1.58
BSU18690,yoaP	2039610	2040365	0.06	0.09	1.45
BSU18700,yoaQ	2040673	2041029	0.15	0.16	1.07
BSU18709,yozT	2040988	2041227	0.16	0.16	1.00
BSU18710,yozF	2041330	2041827	0.13	0.13	1.03
BSU18720,yoaR	2041928	2042839	0.25	0.28	1.15
BSU18730,yoaS	2043186	2043668	0.70	0.73	1.05
BSU18740,yozG	2043678	2043932	1.20	1.18	0.98
BSU18750,yoaT	2044038	2044832	1.10	1.04	0.95
BSU18760,yoaU	2044956	2045828	0.26	0.37	1.40
BSU18770,cyeA	2045929	2046807	0.40	0.27	0.66
BSU18780,yoaW	2046980	2047411	2.45	1.54	0.63
BSU18790,yoaZ	2047675	2048307	0.53	0.94	1.80
BSU18800,penP	2048533	2049453	9.31	9.17	0.99
BSU18810,yobA	2049950	2050312	0.23	0.39	1.71
BSU18820,yobB	2050689	2050952	1.32	0.53	0.41
BSU18830,pps	2051329	2053929	0.75	0.35	0.47
BSU18840,xynA	2054599	2055240	3.97	2.94	0.74
BSU18849,yozV	2055868	2056107	0.35	2.14	6.16
BSU18850,yobD	2056278	2056616	0.34	2.27	6.62
BSU18860,yozH	2056650	2057006	1.36	4.11	3.02
BSU18870,yozI	2057214	2057579	2.30	6.22	2.70

BSU18880,yobE	2057801	2058460	17.14	25.10	1.46
BSU18890,yobF	2058715	2059638	5.18	7.40	1.43
BSU18898,yozW	2059691	2059864	0.40	1.04	2.63
BSU18899,yozX	2060009	2060233	0.13	0.42	3.18
BSU18900,yozJ	2060237	2060692	0.13	0.43	3.31
BSU18908,yozY	2060817	2061077	4.37	6.09	1.39
BSU18910,rapK	2062150	2063265	0.37	1.41	3.83
BSU18920,phrK	2063262	2063384	1.72	6.38	3.70
BSU18930,yobH	2063510	2064163	0.04	0.13	3.55
BSU18940,yozK	2064200	2064547	0.01	0.07	5.60
BSU18950,yozL	2064540	2064833	0.04	0.07	2.02
BSU18960,yozM	2065042	2065377	0.07	0.36	4.98
BSU18970,yobl	2065424	2069029	1.18	3.71	3.14
BSU18980,yobJ	2070244	2071086	2.50	2.68	1.07
BSU18990,yobK	2071286	2071744	3.88	5.69	1.47
BSU19000,yobL	2071754	2073556	1.17	1.47	1.26
BSU19010,yobM	2073658	2074221	1.72	2.50	1.45
BSU19020,yobN	2074439	2075779	0.21	0.22	1.05
BSU19030,yobO	2076206	2078626	0.20	0.44	2.23
BSU19040,csaA	2079214	2079546	5.11	5.52	1.08
BSU19050,yobQ	2079611	2080336	0.90	1.01	1.12
BSU19060,yobR	2080351	2081094	0.40	0.64	1.61
BSU19070,yobS	2081172	2081747	0.40	0.46	1.14
BSU19080,yobT	2081753	2082454	0.60	0.70	1.17
BSU19090,yobU	2082531	2083013	0.19	0.88	4.53
BSU19100,yobV	2083067	2084008	0.75	0.52	0.69
BSU19110,yobW	2084214	2084759	0.16	0.14	0.91
BSU19120,czrA	2084786	2085109	3.72	4.18	1.12
BSU19130,yocA	2085303	2085980	5.13	5.28	1.03
BSU19140,yozB	2086070	2086606	9.70	7.44	0.77
BSU19150,yocB	2086743	2087525	0.38	0.94	2.44
BSU19160,yocC	2087696	2088193	1.29	1.08	0.83
BSU19170,yocD	2088257	2089234	7.79	7.83	1.00
BSU19180,des	2089396	2090454	5.44	1.33	0.24
BSU19190,desK	2090574	2091686	1.27	1.47	1.16
BSU19200,desR	2091705	2092304	1.46	2.04	1.39
BSU19210,yocH	2092899	2093762	30.54	15.68	0.51
BSU19220,yocl	2094010	2095785	5.58	3.75	0.67
BSU19230,yocJ	2096350	2096976	0.91	1.12	1.23
BSU19240,yocK	2097126	2097617	1.51	1.27	0.84
BSU19250,yocL	2097692	2098024	1.20	1.06	0.89
BSU19259,yoyB	2098102	2098329	1.17	0.95	0.81
BSU19260,yocM	2098316	2098792	0.90	0.68	0.75
BSU19270,yozN	2098859	2099122	1.30	1.54	1.19
BSU19280,yocN	2099127	2099360	1.03	1.27	1.23
BSU19290,yozO	2099446	2099790	5.59	5.78	1.03
BSU19300,yozC	2100147	2100350	5.80	9.47	1.63

BSU19310,dhaS	2100580	2102067	31.11	15.15	0.49
BSU19320,sqhC	2102168	2104066	0.32	0.27	0.82
BSU19330,sodF	2104056	2104901	0.34	0.55	1.62
BSU19340,yocR	2104934	2106271	10.70	18.86	1.76
BSU19350,yocS	2106490	2107455	0.56	1.01	1.80
BSU19360,odhB	2107505	2108758	121.39	147.84	1.22
BSU19370,sucA	2108774	2111608	84.06	88.51	1.05
BSU19380,yojO	2111837	2113753	8.77	4.07	0.46
BSU19390,yojN	2113764	2114678	4.67	2.26	0.48
BSU19400,sodC	2114742	2115332	0.14	0.57	3.98
BSU19410,cwlS	2115425	2116669	0.46	1.96	4.30
BSU19420,yojK	2117051	2118268	0.64	0.84	1.32
BSU19430,yojJ	2118504	2119127	0.09	0.10	1.10
BSU19440,yojI	2119393	2120751	3.81	2.86	0.75
BSU19450,rsbRC	2120767	2121615	6.01	4.77	0.79
BSU19460,yojG	2121641	2122306	5.54	7.15	1.29
BSU19470,yojF	2122325	2122675	5.71	6.85	1.20
BSU19479,yoyC	2122672	2122950	3.11	3.64	1.17
BSU19480,yojE	2123026	2123922	1.30	1.77	1.36
BSU19490,gerT	2124021	2124494	0.05	0.07	1.36
BSU19510,yojB	2124529	2124765	0.69	0.64	0.93
BSU19520,yojA	2124850	2126184	0.56	0.42	0.76
BSU19530,yodA	2126549	2126938	1.15	1.08	0.94
BSU19540,yodB	2127345	2127683	4.67	5.41	1.16
BSU19550,yodC	2127813	2128421	9.44	10.84	1.15
BSU19560,yodD	2128464	2129066	0.68	1.56	2.30
BSU19570,yodE	2129082	2129993	0.33	0.57	1.73
BSU19579,yoyD	2130177	2130377	0.08	2.14	27.43
BSU19580,yodF	2130377	2131867	0.66	2.15	3.24
BSU19590,ctpA	2131902	2133302	7.24	7.22	1.00
BSU19600,yodH	2133455	2134156	0.15	0.12	0.83
BSU19610,yodI	2134244	2134495	0.13	0.16	1.20
BSU19620,yodJ	2134566	2135387	2.52	2.18	0.86
BSU19630,deoD	2135470	2136171	6.42	3.98	0.62
BSU19639,yoyE	2136373	2136498	0.21	0.27	1.32
BSU19640,yodL	2136538	2136852	2.48	2.14	0.86
BSU19650,yodM	2136913	2137524	1.45	0.93	0.64
BSU19660,yozD	2137602	2137778	0.25	0.75	2.96
BSU19669,yoyF	2137897	2138040	0.31	1.03	3.28
BSU19670,yodN	2138037	2138717	0.16	0.72	4.59
BSU19680,yozE	2138868	2139092	4.90	14.14	2.88
BSU19689,yokU	2139179	2139457	0.13	0.22	1.64
BSU19690,kamA	2139454	2140869	0.30	0.68	2.30
BSU19700,yodP	2140898	2141725	0.08	0.10	1.30
BSU19710,yodQ	2141703	2143013	0.05	0.05	1.11
BSU19720,yodR	2143022	2143675	0.00	0.00	0.00
BSU19730,yodS	2143660	2144349	0.00	0.00	0.00

BSU19740,yodT	2144356	2145690	0.03	0.03	1.08
BSU19749,yoyG	2145820	2145933	0.39	0.85	2.18
BSU19750,cgeE	2146013	2146792	0.16	0.43	2.64
BSU19760,cgeD	2146821	2148101	0.08	0.14	1.73
BSU19770,cgeC	2148166	2148471	0.29	0.54	1.84
BSU19780,cgeA	2148676	2149077	0.29	0.32	1.12
BSU19790,cgeB	2149084	2150037	0.54	1.09	2.01
BSU19800,phy	2150108	2151256	4.50	5.54	1.23
BSU19820,yotN	2152086	2152262	0.00	0.00	0.00
BSU19830,yotM	2152265	2152852	0.00	0.00	0.00
BSU19840,yotL	2152927	2153169	0.00	0.00	0.00
BSU19850,yotK	2153171	2153356	0.00	0.00	0.00
BSU19860,yotJ	2153440	2153652	0.00	0.00	0.00
BSU19870,yotI	2153718	2154080	0.00	0.00	0.00
BSU19880,yotH	2154077	2154250	0.00	0.00	0.00
BSU19890,yotG	2154266	2154583	0.00	0.00	0.00
BSU19900,yotF	2154596	2154673	0.00	0.00	0.00
BSU19910,yotE	2154705	2154851	0.00	0.00	0.00
BSU19920,yotD	2154887	2155018	0.00	0.00	0.00
BSU19930,yotC	2155058	2155249	0.00	0.00	0.00
BSU19940,yotB	2155293	2156120	0.00	0.00	0.00
BSU19950,sspC	2156239	2156457	0.00	0.00	0.00
BSU19970,yosX	2156757	2157110	0.00	0.00	0.00
BSU19980,yosW	2157341	2157682	0.00	0.00	0.00
BSU19990,yosV	2157829	2158119	0.00	0.00	0.00
BSU19999,yojW	2158120	2158287	0.00	0.00	0.00
BSU20000,yosU	2158439	2158684	0.00	0.00	0.00
BSU20010,yosT	2158724	2159173	0.00	0.00	0.00
BSU20020,yosS	2159268	2159696	0.00	0.00	0.00
BSU20030,yosR	2159742	2159984	0.00	0.00	0.00
BSU20040,nrdF	2159981	2161778	0.00	0.00	0.00
BSU20050,yosQ	2160565	2161086	0.00	0.00	0.00
BSU20060,nrdEB	2162108	2165614	0.00	0.00	0.00
BSU20070,nrdI	2165577	2165966	0.00	0.00	0.00
BSU20080,yosL	2165972	2166325	0.00	0.00	0.00
BSU20090,yosK	2166413	2166613	0.00	0.00	0.00
BSU20100,yosJ	2166658	2166852	0.00	0.00	0.00
BSU20110,yosI	2166873	2167007	0.00	0.00	0.00
BSU20120,yosH	2167039	2167509	0.00	0.00	0.00
BSU20130,yosG	2167570	2167932	0.00	0.00	0.00
BSU20140,yosF	2167975	2168100	0.00	0.00	0.00
BSU20150,yosE	2168114	2168461	0.00	0.00	0.00
BSU20160,yosD	2168476	2168871	0.00	0.00	0.00
BSU20170,yosC	2168910	2169452	0.00	0.00	0.00
BSU20180,yosB	2169497	2169676	0.00	0.00	0.00
BSU20190,yosA	2169807	2169926	0.00	0.00	0.00
BSU20200,yorZ	2170030	2170242	0.00	0.00	0.00

BSU20210,yorY	2170309	2170491	0.00	0.00	0.00
BSU20220,yorX	2170504	2170731	0.00	0.00	0.00
BSU20230,yorW	2170771	2171136	0.00	0.00	0.00
BSU20240,yorV	2171139	2171357	0.00	0.00	0.00
BSU20250,mtbP	2171401	2172732	0.00	0.00	0.00
BSU20260,yorT	2172781	2172900	0.00	0.00	0.00
BSU20270,yorS	2172932	2173450	0.00	0.00	0.00
BSU20280,yorR	2173459	2173956	0.00	0.00	0.00
BSU20290,yorQ	2173956	2174111	0.00	0.00	0.00
BSU20300,yorP	2174104	2174319	0.00	0.00	0.00
BSU20310,yorO	2174352	2174549	0.00	0.00	0.00
BSU20320,yorN	2174585	2174734	0.00	0.00	0.00
BSU20330,yorM	2174852	2175568	0.00	0.00	0.00
BSU20340,yorL	2175596	2179513	0.00	0.00	0.00
BSU20350,yorK	2179526	2181256	0.00	0.00	0.00
BSU20360,yorJ	2181256	2182392	0.00	0.00	0.00
BSU20370,yorI	2182408	2183922	0.00	0.00	0.00
BSU20380,yorH	2183937	2184407	0.00	0.00	0.00
BSU20390,yorG	2184450	2185421	0.00	0.00	0.00
BSU20400,yorF	2185504	2186418	0.00	0.00	0.00
BSU20410,yorE	2186440	2186811	0.00	0.00	0.00
BSU20420,yorD	2186985	2187299	0.00	0.00	0.00
BSU20430,yorC	2187376	2187756	0.00	0.00	0.00
BSU20440,yorB	2187819	2188115	0.00	0.00	0.00
BSU20450,yorA	2188204	2189964	0.00	0.00	0.00
BSU20460,yoqZ	2189961	2190785	0.00	0.00	0.00
BSU20470,yoqY	2190884	2191279	0.00	0.00	0.00
BSU20480,yoqX	2191334	2191555	0.00	0.00	0.00
BSU20490,yoqW	2191626	2192300	0.00	0.00	0.00
BSU20500,ligB	2192370	2193182	0.00	0.00	0.00
BSU20510,yoqU	2193248	2193661	0.00	0.00	0.00
BSU20520,yoqT	2193827	2193976	0.00	0.00	0.00
BSU20530,yoqS	2194053	2194400	0.00	0.00	0.00
BSU20540,yoqR	2194402	2194758	0.00	0.00	0.00
BSU20550,yoqP	2194718	2195059	0.00	0.00	0.00
BSU20560,yoqO	2195173	2195547	0.00	0.00	0.00
BSU20570,yoqN	2195564	2195782	0.00	0.00	0.00
BSU20580,yoqM	2195986	2196264	0.00	0.00	0.00
BSU20590,yoqL	2196389	2197081	0.00	0.00	0.00
BSU20600,yoqK	2197121	2197324	0.00	0.00	0.00
BSU20610,yoqJ	2197344	2197859	0.00	0.00	0.00
BSU20620,yoqI	2198070	2198264	0.00	0.00	0.00
BSU20630,yoqH	2198313	2198765	0.00	0.00	0.00
BSU20640,yoqG	2198848	2199105	0.00	0.00	0.00
BSU20650,yoqF	2199150	2199353	0.00	0.00	0.00
BSU20660,yoqE	2199362	2199526	0.00	0.00	0.00
BSU20670,yoqD	2199580	2200335	0.00	0.00	0.00

BSU20680,yoqC	2200376	2200783	0.00	0.00	0.00
BSU20690,yoqB	2200790	2201128	0.00	0.00	0.00
BSU20700,yoqA	2201125	2201475	0.00	0.00	0.00
BSU20710,yopZ	2201488	2201691	0.00	0.00	0.00
BSU20720,yopY	2201705	2201983	0.00	0.00	0.00
BSU20730,yopX	2201980	2202384	0.00	0.00	0.00
BSU20740,yopW	2202381	2202716	0.00	0.00	0.00
BSU20750,yopV	2202805	2202999	0.00	0.00	0.00
BSU20760,yopU	2203111	2203308	0.00	0.00	0.00
BSU20770,yopT	2203378	2203596	0.00	0.00	0.00
BSU20780,yopS	2203779	2204003	0.00	0.00	0.00
BSU20790,yopR	2204192	2205169	0.00	0.00	0.00
BSU20800,yopQ	2205193	2206575	0.00	0.00	0.00
BSU20810,yopP	2206682	2207758	0.00	0.00	0.00
BSU20820,yopO	2207748	2207960	0.00	0.00	0.00
BSU20830,yopN	2208008	2208325	0.00	0.00	0.00
BSU20840,yopM	2208328	2208528	0.00	0.00	0.00
BSU20850,yopL	2208855	2208980	0.00	0.00	0.00
BSU20860,yopK	2208994	2210154	0.00	0.00	0.00
BSU20870,yopJ	2210331	2210747	0.00	0.00	0.00
BSU20880,yopI	2210749	2211282	0.00	0.00	0.00
BSU20890,yopH	2211309	2211845	0.00	0.00	0.00
BSU20900,yopG	2211884	2212015	0.00	0.00	0.00
BSU20910,yopF	2212026	2212241	0.00	0.00	0.00
BSU20920,yopE	2212245	2212496	0.00	0.00	0.00
BSU20928,yoyH	2212567	2212746	0.00	0.00	0.00
BSU20929,yoyI	2212848	2213078	0.00	0.00	0.00
BSU20930,yopD	2213083	2213478	0.00	0.00	0.00
BSU20940,yopC	2213536	2214864	0.00	0.00	0.00
BSU20950,yopB	2214972	2215199	0.00	0.00	0.00
BSU20960,yopA	2215460	2216776	0.00	0.00	0.00
BSU20970,yonX	2217133	2217639	0.00	0.00	0.00
BSU20980,yonV	2217967	2219199	0.00	0.00	0.00
BSU20990,yonU	2219281	2219469	0.00	0.00	0.00
BSU20999,yoyJ	2219514	2219765	0.00	0.00	0.00
BSU21000,yonT	2219784	2219960	0.00	0.00	0.00
BSU21010,yonS	2220335	2220946	0.00	0.00	0.00
BSU21020,yonR	2221061	2221387	0.00	0.00	0.00
BSU21030,yonP	2222340	2222534	0.00	0.00	0.00
BSU21040,yonO	2222574	2225093	0.00	0.00	0.00
BSU21050,yonN	2225337	2225615	0.00	0.00	0.00
BSU21060,yonK	2227297	2227488	0.00	0.00	0.00
BSU21070,yonJ	2227505	2228722	0.00	0.00	0.00
BSU21080,yonI	2228756	2229166	0.00	0.00	0.00
BSU21090,yonH	2229385	2229885	0.00	0.00	0.00
BSU21100,yonG	2229988	2230908	0.00	0.00	0.00
BSU21110,yonF	2230895	2232664	0.00	0.00	0.00

BSU21120,yonE	2232682	2234202	0.00	0.00	0.00
BSU21130,yonD	2234233	2235669	0.00	0.00	0.00
BSU21140,yonC	2235694	2236230	0.00	0.00	0.00
BSU21150,yonB	2236269	2237285	0.00	0.00	0.00
BSU21160,yonA	2237321	2237791	0.00	0.00	0.00
BSU21170,yomZ	2237806	2238201	0.00	0.00	0.00
BSU21180,yomY	2238198	2238452	0.00	0.00	0.00
BSU21190,yomX	2238436	2239086	0.00	0.00	0.00
BSU21200,yomW	2239083	2239589	0.00	0.00	0.00
BSU21210,yomV	2239586	2240296	0.00	0.00	0.00
BSU21220,yomU	2240339	2241136	0.00	0.00	0.00
BSU21229,youA	2241154	2241765	0.00	0.00	0.00
BSU21230,yomT	2241765	2241992	0.00	0.00	0.00
BSU21240,yomS	2242056	2242412	0.00	0.00	0.00
BSU21250,yomR	2242414	2243631	0.00	0.00	0.00
BSU21260,yomQ	2243642	2243992	0.00	0.00	0.00
BSU21270,yomP	2243989	2244180	0.00	0.00	0.00
BSU21280,yomO	2244230	2244730	0.00	0.00	0.00
BSU21290,yomN	2244714	2245133	0.00	0.00	0.00
BSU21300,yomM	2245147	2246148	0.00	0.00	0.00
BSU21310,yozP	2246151	2246480	0.00	0.00	0.00
BSU21320,yomL	2246656	2247342	0.06	0.28	4.96
BSU21329,youB	2247367	2247543	0.00	0.00	0.00
BSU21330,yomK	2247889	2248335	0.00	0.00	0.00
BSU21340,yomJ	2248417	2249100	0.00	0.00	0.00
BSU21350,yomI	2249154	2256011	0.00	0.00	0.00
BSU21360,yomH	2256062	2256820	0.00	0.00	0.00
BSU21370,yomG	2256832	2259459	0.00	0.00	0.00
BSU21380,yomF	2259475	2260296	0.00	0.00	0.00
BSU21390,yomE	2260333	2262267	0.00	0.00	0.00
BSU21400,yomD	2262437	2263261	0.00	0.00	0.00
BSU21410,blyA	2263489	2264592	0.00	0.00	0.00
BSU21420,bhlA	2264680	2264892	0.00	0.00	0.00
BSU21430,bhlB	2264903	2265169	0.00	0.00	0.00
BSU21440,bdbB	2265225	2265671	0.00	0.00	0.00
BSU21450,yolJ	2265668	2266936	0.00	0.00	0.00
BSU21460,bdbA	2266936	2267349	0.00	0.00	0.00
BSU21470,sunT	2267346	2269463	0.00	0.00	0.00
BSU21480,sunA	2269521	2269691	0.00	0.00	0.00
BSU21490,sunI	2269988	2270305	0.00	0.00	0.00
BSU21500,uvrX	2270407	2271657	0.00	0.00	0.00
BSU21510,yolD	2271650	2271982	0.00	0.00	0.00
BSU21520,yolC	2272156	2272491	0.00	0.00	0.00
BSU21530,yolB	2272534	2272890	0.00	0.00	0.00
BSU21540,yolA	2272896	2273363	0.00	0.00	0.00
BSU21550,yokL	2273989	2274522	0.00	0.00	0.00
BSU21560,yokK	2274558	2275136	0.00	0.00	0.00

BSU21570,yokJ	2275200	2275697	0.00	0.00	0.00
BSU21580,yokI	2275706	2277421	0.00	0.00	0.00
BSU21590,yokH	2277521	2278078	0.00	0.00	0.00
BSU21600,yokG	2278602	2279675	0.00	0.00	0.00
BSU21610,yokF	2279977	2280867	0.00	0.00	0.00
BSU21620,yokE	2280881	2281363	0.00	0.00	0.00
BSU21630,yokD	2281667	2282485	0.00	0.00	0.00
BSU21640,yokC	2283136	2283651	0.00	0.00	0.00
BSU21650,yokB	2283858	2284568	0.00	0.00	0.00
BSU21660,yokA	2284771	2286408	0.00	0.00	0.00
BSU21680,yppQ	2287097	2287528	3.85	6.56	1.70
BSU21690,msrA	2287529	2288062	1.71	3.67	2.14
BSU21700,ypoP	2288194	2288619	13.52	17.05	1.26
BSU21710,dinF	2288669	2290006	2.60	2.47	0.95
BSU21720,ypmT	2290078	2290272	14.35	12.72	0.89
BSU21730,ypmS	2290285	2290848	11.21	9.38	0.84
BSU21740,ypmR	2290858	2291625	6.40	6.93	1.08
BSU21750,scuA	2291703	2292284	0.74	1.49	2.02
BSU21760,ypmP	2292432	2292683	21.96	66.93	3.05
BSU21770,ilvA	2292769	2294037	0.38	2.28	6.02
BSU21780,yplP	2294286	2295281	1.76	2.34	1.33
BSU21790,yplQ	2295302	2295943	5.32	6.58	1.24
BSU21800,ypkP	2295982	2296602	36.25	72.93	2.01
BSU21810,dfrA	2296603	2297109	15.43	16.42	1.06
BSU21820,thyA	2297106	2297900	12.37	14.88	1.20
BSU21830,ypjQ	2297984	2298517	35.70	37.17	1.04
BSU21840,ypjP	2298535	2299146	21.39	26.60	1.24
BSU21850,ypiP	2299406	2300179	7.34	14.89	2.03
BSU21860,yphP	2300221	2300655	19.61	19.07	0.97
BSU21870,ilvD	2300762	2302438	1.18	2.88	2.44
BSU21880,ypgR	2302727	2303860	19.57	22.20	1.13
BSU21890,ypgQ	2303920	2304537	1.81	4.47	2.47
BSU21900,bsaA	2304553	2305035	0.86	2.62	3.05
BSU21910,metA	2305378	2306283	6.32	11.73	1.86
BSU21920,ugtP	2306514	2307662	33.51	29.18	0.87
BSU21930,cspD	2307905	2308105	139.76	362.87	2.60
BSU21940,degR	2308157	2308339	3.73	9.36	2.51
BSU21950,ypzA	2308495	2308764	4.65	4.91	1.06
BSU21960,ypeQ	2308792	2308974	3.59	5.12	1.43
BSU21970,ypeP	2308967	2309647	2.78	3.88	1.40
BSU21980,ypdP	2309730	2310419	4.67	6.75	1.45
BSU21990,ypdQ	2310419	2310817	15.34	22.77	1.48
BSU22000,sspL	2310859	2310987	16.08	22.71	1.41
BSU22010,exoA	2310995	2311885	16.02	9.31	0.58
BSU22019,ypzF	2311986	2312132	7.47	24.79	3.32
BSU22020,ypbS	2312207	2312464	8.30	32.92	3.97
BSU22030,ypbR	2312529	2316110	0.52	1.44	2.76

BSU22040,ypbQ	2316446	2316952	0.17	0.24	1.45
BSU22050,bcsA	2316956	2318053	0.21	0.31	1.44
BSU22060,pbuX	2318127	2319443	4.65	1.12	0.24
BSU22070,xpt	2319440	2320024	5.32	1.25	0.23
BSU22080,ypwA	2320355	2321860	4.13	3.25	0.79
BSU22090,kdgT	2321972	2322964	3.09	1.72	0.56
BSU22100,kdgA	2323009	2323599	2.22	1.07	0.48
BSU22110,kdgK	2323601	2324575	2.18	1.12	0.52
BSU22120,kdgR	2324613	2325632	1.15	0.74	0.64
BSU22130,kdul	2325854	2326681	1.73	2.17	1.25
BSU22140,kduD	2326683	2327447	2.15	2.15	1.00
BSU22150,ypvA	2327488	2329413	14.26	7.32	0.51
BSU22160,yptA	2329515	2329706	4.72	2.70	0.57
BSU22169,ypzG	2329870	2330022	11.11	11.62	1.05
BSU22170,ypsC	2330075	2331232	12.33	5.76	0.47
BSU22180,ypsB	2331779	2332075	23.18	20.79	0.90
BSU22190,ypsA	2332153	2332782	28.70	15.01	0.52
BSU22200,cotD	2332784	2333011	202.61	95.17	0.47
BSU22210,yprB	2333324	2334565	8.59	4.67	0.54
BSU22220,yprA	2334581	2336830	6.95	4.46	0.64
BSU22230,ypqE	2336933	2337439	5.31	6.45	1.21
BSU22240,ypqA	2337577	2337996	0.17	0.19	1.07
BSU22250,yppG	2338017	2338394	0.09	0.14	1.53
BSU22260,yppF	2338582	2338770	119.34	223.12	1.87
BSU22270,yppE	2338809	2339180	4.29	6.18	1.44
BSU22280,yppD	2339226	2339471	0.46	1.88	4.07
BSU22290,sspM	2339670	2339774	0.22	0.69	3.06
BSU22300,yppC	2339799	2340761	3.82	2.12	0.56
BSU22310,recU	2340802	2341422	8.17	5.03	0.62
BSU22320,ponA	2341444	2344188	16.45	9.00	0.55
BSU22330,ypoC	2344264	2344758	8.94	11.74	1.31
BSU22340,nth	2344755	2345414	9.98	14.07	1.41
BSU22350,dnaD	2345433	2346131	7.50	10.91	1.45
BSU22360,asnC	2346224	2347516	46.33	34.48	0.74
BSU22370,aspB	2347660	2348841	35.00	39.47	1.13
BSU22380,ypmB	2348864	2349349	22.96	22.36	0.97
BSU22390,ypmA	2349358	2349528	15.09	11.47	0.76
BSU22400,dinG	2349671	2352466	19.16	12.91	0.67
BSU22410,panD	2352592	2352975	54.99	22.45	0.41
BSU22420,panC	2352977	2353837	48.07	17.53	0.36
BSU22430,panB	2353839	2354672	34.27	12.25	0.36
BSU22440,birA	2354918	2355895	8.28	3.69	0.45
BSU22450,cca	2355880	2357073	6.35	3.76	0.59
BSU22460,ypjH	2357078	2358211	8.54	7.06	0.83
BSU22470,ypjG	2358208	2358918	3.11	3.43	1.10
BSU22480,mgsA	2358911	2359324	4.86	5.05	1.04
BSU22490,dapB	2359340	2360143	3.38	3.42	1.01

BSU22500,ypjD	2360155	2360490	2.63	3.27	1.24
BSU22510,ypjC	2360630	2361502	2.89	1.90	0.66
BSU22520,ypjB	2361544	2362338	11.28	6.21	0.55
BSU22530,ypjA	2362407	2362964	7.85	3.20	0.41
BSU22540,qcrC	2363111	2363878	10.60	6.18	0.58
BSU22550,qcrB	2363913	2364587	10.66	6.17	0.58
BSU22560,qcrA	2364589	2365092	8.79	5.10	0.58
BSU22570,ypiF	2365235	2365681	0.26	0.68	2.60
BSU22580,ypiB	2365736	2366275	4.14	10.62	2.56
BSU22590,ypiA	2366347	2367618	4.01	5.21	1.30
BSU22600,aroE	2367954	2369240	16.72	21.42	1.28
BSU22610,tyrA	2369251	2370366	3.44	7.15	2.08
BSU22620,hisC	2370415	2371497	13.31	16.38	1.23
BSU22630,trpA	2371508	2372311	6.97	8.91	1.28
BSU22640,trpB	2372304	2373506	0.13	0.20	1.62
BSU22650,trpF	2373487	2374134	0.07	0.15	2.15
BSU22660,trpC	2374139	2374888	0.09	0.17	1.89
BSU22670,trpD	2374881	2375897	0.08	0.16	2.10
BSU22680,trpE	2375869	2377416	0.12	0.34	2.77
BSU22690,aroH	2377632	2378015	23.43	41.59	1.77
BSU22700,aroB	2378012	2379100	21.42	36.77	1.72
BSU22710,aroF	2379100	2380272	20.79	34.37	1.65
BSU22720,cheR	2380347	2381117	2.92	4.52	1.55
BSU22730,ndk	2381354	2381803	37.73	28.24	0.75
BSU22740,hepT	2381919	2382965	45.78	27.76	0.61
BSU22750,ubiE	2382907	2383608	51.76	33.46	0.65
BSU22760,hepS	2383615	2384370	90.81	77.38	0.85
BSU22770,mtrB	2384534	2384761	27.75	27.71	1.00
BSU22780,foIE	2384783	2385355	23.07	20.87	0.90
BSU22790,hbs	2385543	2385821	794.93	976.36	1.23
BSU22800,spoIVA	2386195	2387673	0.50	1.54	3.06
BSU22810,yphF	2387854	2388588	7.32	10.05	1.37
BSU22820,yphE	2388610	2388813	7.31	10.87	1.49
BSU22830,gpsA	2389151	2390188	26.29	12.87	0.49
BSU22840,engA	2390206	2391516	17.65	7.43	0.42
BSU22849,ypzH	2391670	2391864	0.44	0.60	1.36
BSU22850,seaA	2391861	2392754	0.28	0.52	1.88
BSU22860,yphA	2392751	2393350	0.20	0.61	3.04
BSU22869,ypzI	2393422	2393559	0.75	1.81	2.42
BSU22870,fni	2393602	2394651	11.81	23.72	2.01
BSU22880,rpsA	2394664	2395812	34.92	81.79	2.34
BSU22890,cmk	2396045	2396719	9.31	9.24	0.99
BSU22900,ypfB	2396798	2396974	1.17	2.56	2.18
BSU22910,ypfA	2397019	2397672	1.03	2.10	2.04
BSU22920,ypeB	2397765	2399117	0.30	0.67	2.21
BSU22930,sleB	2399152	2400069	0.08	0.16	1.93
BSU22940,prsW	2400208	2400864	13.35	11.94	0.89

BSU22950,ypdA	2400984	2401958	9.22	10.77	1.17
BSU22960,gudB	2402067	2403350	29.62	26.12	0.88
BSU22970,ypbH	2403506	2404090	11.08	13.56	1.22
BSU22980,ypbG	2404249	2405028	1.75	0.86	0.49
BSU22990,ypbF	2405114	2405557	1.05	1.66	1.58
BSU23000,ypbE	2405620	2406342	16.79	14.06	0.84
BSU23010,ypbD	2406293	2406862	23.60	17.25	0.73
BSU23020,recQ	2406922	2408412	18.81	13.54	0.72
BSU23030,ypbB	2408405	2409463	10.44	8.38	0.80
BSU23040,fer	2409729	2409977	79.58	76.36	0.96
BSU23050,fmnP	2410017	2410589	9.95	10.80	1.09
BSU23060,ypzE	2410695	2410859	5.67	8.44	1.49
BSU23070,serA	2411086	2412663	6.14	47.31	7.70
BSU23080,aroD	2412706	2413473	1.79	4.99	2.79
BSU23090,rsiX	2413585	2414691	12.08	10.72	0.89
BSU23100,sigX	2414627	2415211	2.31	3.35	1.45
BSU23110,resE	2415415	2417184	22.00	11.64	0.53
BSU23120,resD	2417181	2417903	19.71	10.96	0.56
BSU23130,resC	2417984	2419159	16.96	8.97	0.53
BSU23140,resB	2419179	2420807	10.50	5.12	0.49
BSU23150,resA	2420804	2421343	2.92	3.19	1.09
BSU23160,rluB	2421438	2422172	4.35	3.33	0.77
BSU23170,spmB	2422264	2422800	0.39	0.61	1.55
BSU23180,spmA	2422805	2423395	0.55	0.76	1.40
BSU23190,dacB	2423383	2424531	0.59	0.83	1.41
BSU23200,ypuI	2424654	2425193	39.14	18.98	0.48
BSU23210,spcB	2425248	2425841	13.28	6.13	0.46
BSU23220,scpA	2425831	2426586	8.58	4.80	0.56
BSU23230,ypuF	2426867	2427391	1.59	0.97	0.61
BSU23240,ypzK	2427405	2427779	37.67	57.85	1.54
BSU23250,ribH	2427892	2428356	28.51	50.01	1.75
BSU23260,ribA	2428389	2429585	19.02	31.72	1.67
BSU23270,ribE	2429600	2430247	6.25	8.20	1.31
BSU23280,ribD	2430258	2431343	5.15	5.78	1.12
BSU23300,ypuD	2431737	2432081	3.78	2.11	0.56
BSU23310,sipS	2432316	2432870	5.81	6.01	1.03
BSU23320,ypzC	2433137	2433373	1.15	1.69	1.47
BSU23328,ypzJ	2433316	2433522	0.75	1.35	1.79
BSU23340,ypuB	2434143	2434346	0.25	0.23	0.93
BSU23350,ypzD	2435012	2435224	0.10	0.09	0.90
BSU23360,ppiB	2435360	2435791	37.25	31.48	0.85
BSU23370,ypuA	2436045	2436917	9.95	4.32	0.43
BSU23380,lysA	2436947	2438266	7.96	20.07	2.52
BSU23390,spoVAF	2438372	2439853	0.77	0.90	1.17
BSU23401,spoVAEA	2439804	2440415	0.25	0.60	2.39
BSU23402,spoVAEB	2440423	2440773	0.24	0.61	2.52
BSU23410,spoVAD	2440775	2441791	0.14	0.41	2.83

BSU23420,spoVAC	2441804	2442256	0.07	0.21	2.95
BSU23430,spoVAB	2442269	2442694	0.00	0.00	0.00
BSU23440,spoVAA	2442684	2443304	0.06	0.17	2.76
BSU23450,sigF	2443429	2444196	1.54	1.70	1.10
BSU23460,spoIAB	2444208	2444648	1.82	2.06	1.13
BSU23470,spoIAA	2444645	2444998	1.21	1.48	1.23
BSU23480,dacF	2445094	2446263	0.41	0.25	0.63
BSU23490,pupG	2446418	2447233	102.22	58.51	0.57
BSU23500,drm	2447246	2448430	53.28	29.34	0.55
BSU23510,xerD	2448591	2449481	6.81	7.52	1.10
BSU23519,yqzK	2449489	2449716	3.14	4.81	1.53
BSU23520,fur	2449841	2450290	13.29	8.57	0.64
BSU23530,spoIIM	2450403	2451047	0.08	0.10	1.20
BSU23540,yqkK	2451148	2451363	0.19	0.13	0.67
BSU23550,mleA	2451463	2452782	104.67	56.72	0.54
BSU23560,mleN	2452800	2454206	44.29	22.57	0.51
BSU23570,aspA	2454347	2455774	13.14	14.18	1.08
BSU23580,ansA	2455819	2456808	3.68	4.92	1.34
BSU23590,ansR	2456990	2457340	3.23	4.21	1.31
BSU23600,yqxK	2457349	2458512	3.61	2.80	0.78
BSU23610,nudF	2458509	2459066	2.53	2.25	0.89
BSU23620,yqkF	2459326	2460246	4.59	5.86	1.27
BSU23630,yqkE	2460278	2460502	1.17	1.60	1.37
BSU23640,yqkD	2460664	2461581	1.94	1.71	0.88
BSU23650,yqkC	2461621	2461860	79.21	179.32	2.26
BSU23660,yqkB	2461873	2462196	16.91	18.60	1.10
BSU23670,yqkA	2462193	2463224	2.87	3.39	1.18
BSU23680,yqjZ	2463217	2463561	0.91	1.51	1.65
BSU23690,yqjY	2463571	2464041	0.65	1.00	1.55
BSU23700,yqjX	2464227	2464565	0.07	0.11	1.54
BSU23710,yqjW	2464562	2465800	0.08	0.09	1.08
BSU23720,yqzH	2465966	2466172	1.58	1.95	1.23
BSU23730,yqjV	2466721	2467953	1.10	1.71	1.56
BSU23740,yqjU	2467971	2468162	17.12	13.91	0.81
BSU23750,yqjT	2468159	2468545	17.96	14.35	0.80
BSU23760,coaA	2468549	2469508	8.65	6.37	0.74
BSU23770,dsdA	2469580	2470926	1.66	2.15	1.30
BSU23780,yqjQ	2471002	2471781	2.76	3.40	1.23
BSU23790,yqjP	2471787	2472746	3.43	3.85	1.12
BSU23800,proI	2473151	2473987	4.53	4.76	1.05
BSU23810,yqjN	2474028	2475671	0.69	2.14	3.11
BSU23820,yqjM	2475843	2476859	3.13	2.80	0.89
BSU23830,yqjL	2476969	2477730	16.09	7.39	0.46
BSU23840,yqjK	2478006	2478929	4.34	3.14	0.72
BSU23850,zwf	2479156	2480625	54.82	46.98	0.86
BSU23860,yqjI	2480750	2482159	93.23	95.85	1.03
BSU23870,yqjH	2482269	2483513	1.51	1.91	1.27

BSU23880,yqzJ	2483586	2483873	12.23	13.84	1.13
BSU23890,yqjG	2483904	2484731	34.84	24.48	0.70
BSU23900,yqjF	2484911	2485639	4.86	19.22	3.95
BSU23910,yqjE	2485680	2486795	17.99	16.82	0.94
BSU23920,yqjD	2486813	2488336	5.41	3.83	0.71
BSU23930,yqjC	2488329	2488751	0.12	0.47	3.84
BSU23940,yqjB	2488953	2489483	1.02	1.53	1.51
BSU23950,yqjA	2489535	2490503	7.86	5.65	0.72
BSU23960,artR	2490574	2491296	10.76	3.00	0.28
BSU23970,artQ	2491289	2491948	6.55	1.82	0.28
BSU23980,artP	2492029	2492796	9.75	2.76	0.28
BSU23990,yqiW	2493064	2493501	12.37	15.88	1.28
BSU24000,bmrU	2493662	2494555	0.16	0.35	2.15
BSU24010,bmr	2494656	2495825	15.52	49.51	3.19
BSU24020,bmrR	2495898	2496734	1.02	6.92	6.78
BSU24030,bkdB	2496796	2498070	34.55	12.67	0.37
BSU24040,bkdAB	2498093	2499076	33.54	10.96	0.33
BSU24050,bkdAA	2499090	2500082	26.19	8.80	0.34
BSU24060,lpdV	2500104	2501528	18.66	6.91	0.37
BSU24070,buk	2501549	2502640	6.38	2.65	0.41
BSU24080,bcd	2502659	2503753	9.88	3.87	0.39
BSU24090,ptb	2503765	2504664	8.34	3.93	0.47
BSU24100,bkdR	2504789	2506867	7.65	3.76	0.49
BSU24110,yqzF	2507020	2507256	74.24	54.25	0.73
BSU24120,prpB	2507298	2508203	2.00	1.81	0.90
BSU24130,prpD	2508221	2509639	0.41	0.42	1.02
BSU24140,mmgD	2509654	2510772	0.10	0.11	1.12
BSU24150,mmgC	2510806	2511945	0.06	0.06	0.96
BSU24160,mmgB	2511973	2512836	0.05	0.06	1.10
BSU24170,mmgA	2512861	2514042	0.04	0.04	1.05
BSU24180,yqiK	2514169	2514900	3.84	5.87	1.53
BSU24190,yqil	2514979	2515599	0.21	0.30	1.40
BSU24200,yqiH	2515614	2515907	0.17	0.23	1.37
BSU24210,yqiG	2516440	2517558	2.32	2.17	0.93
BSU24220,spo0A	2518023	2518826	31.59	23.69	0.75
BSU24230,spoIVB	2519102	2520382	0.15	0.34	2.24
BSU24240,recN	2520557	2522287	13.19	11.03	0.84
BSU24250,ahrC	2522324	2522773	11.39	7.87	0.69
BSU24260,yqxC	2522871	2523716	18.75	15.75	0.84
BSU24270,dxs	2523713	2525614	21.14	17.17	0.81
BSU24280,ispA	2525789	2526679	4.68	2.08	0.44
BSU24290,xseB	2526669	2526923	4.40	2.05	0.47
BSU24300,xseA	2526920	2528266	3.23	1.72	0.53
BSU24310,foID	2528404	2529255	30.08	32.32	1.07
BSU24320,nusB	2529267	2529662	24.82	25.19	1.01
BSU24330,yqhY	2529926	2530333	102.21	80.75	0.79
BSU24340,accC	2530354	2531706	37.96	24.12	0.64

BSU24350,accB	2531718	2532197	22.22	15.66	0.70
BSU24360,spoIIAH	2532353	2533009	0.13	0.18	1.37
BSU24370,spoIIAG	2533010	2533699	0.10	0.11	1.08
BSU24380,spoIIAF	2533692	2534312	0.08	0.09	1.12
BSU24390,spoIIAE	2534326	2535525	0.10	0.11	1.01
BSU24400,spoIIAD	2535544	2535945	0.00	0.00	0.00
BSU24410,spoIIAC	2535952	2536158	0.00	0.00	0.00
BSU24420,spoIIAB	2536181	2536696	0.08	0.08	1.05
BSU24430,spoIIAA	2536690	2537613	0.06	0.08	1.21
BSU24440,yqhV	2537689	2537970	0.07	0.05	0.73
BSU24450,efp	2538115	2538672	68.94	50.37	0.73
BSU24460,yqhT	2538697	2539758	17.26	17.90	1.04
BSU24470,yqhS	2539755	2540201	7.65	11.37	1.49
BSU24480,yqhR	2540288	2540824	0.12	0.09	0.75
BSU24490,yqhQ	2541051	2542007	8.14	8.43	1.04
BSU24500,yqhP	2542047	2542442	13.85	14.45	1.04
BSU24510,yqhO	2542439	2543314	1.14	1.32	1.16
BSU24520,mntR	2543440	2543868	12.42	12.93	1.04
BSU24530,yqhM	2543968	2544804	2.82	5.27	1.87
BSU24540,yqhL	2544995	2545375	17.58	15.01	0.85
BSU24550,gcvPB	2545410	2546876	5.30	13.73	2.59
BSU24560,gcvPA	2546869	2548215	4.96	13.73	2.77
BSU24570,gcvT	2548245	2549333	3.36	8.53	2.54
BSU24580,yqhH	2549775	2551448	0.19	0.20	1.10
BSU24590,yqhG	2551469	2552263	0.49	0.98	2.00
BSU24600,sinI	2552446	2552619	5.60	6.33	1.13
BSU24610,sinR	2552653	2552988	9.67	14.06	1.45
BSU24620,tasA	2553081	2553866	25.36	7.07	0.28
BSU24630,sipW	2553930	2554502	14.17	4.08	0.29
BSU24640,yqxM	2554486	2555247	6.22	1.78	0.29
BSU24650,yqzG	2555519	2555845	0.29	0.33	1.13
BSU24660,yqzE	2555887	2556066	0.37	0.69	1.85
BSU24670,comGG	2556137	2556511	0.10	0.21	2.09
BSU24680,comGF	2556512	2556895	0.06	0.12	1.88
BSU24690,comGE	2556921	2557268	0.08	0.14	1.69
BSU24700,comGD	2557252	2557683	0.07	0.15	2.24
BSU24710,comGC	2557673	2557969	0.08	0.23	2.88
BSU24720,comGB	2557983	2558954	0.07	0.18	2.77
BSU24730,comGA	2559007	2560077	0.08	0.27	3.27
BSU24740,yqxL	2560489	2561442	0.06	0.11	1.76
BSU24750,yqhB	2561585	2562913	0.07	0.22	3.22
BSU24760,rsbRD	2562966	2563802	0.39	3.01	7.65
BSU24770,mgsR	2564026	2564406	0.46	8.94	19.34
BSU24780,yqgY	2564638	2564883	8.26	6.74	0.82
BSU24790,yqgX	2564923	2565558	2.86	4.71	1.64
BSU24800,yqgW	2565715	2565888	11.49	6.22	0.54
BSU24810,yqgV	2565920	2566234	20.32	30.95	1.52

BSU24820,yqgU	2566237	2567298	5.05	6.24	1.24
BSU24830,yqgT	2567360	2568490	1.79	2.24	1.25
BSU24840,yqgS	2568573	2570489	18.28	11.95	0.65
BSU24850,glcK	2570606	2571571	10.58	5.54	0.52
BSU24860,yqgQ	2571582	2571797	6.72	4.46	0.66
BSU24870,glpG	2571907	2573430	5.34	5.81	1.09
BSU24880,yqgO	2573520	2573693	1.91	5.12	2.67
BSU24890,yqgN	2573760	2574323	1.91	5.28	2.77
BSU24900,rpmG	2574408	2574557	80.66	40.09	0.50
BSU24910,yqgM	2574641	2575720	0.88	1.29	1.46
BSU24920,yqgL	2575717	2576187	0.53	1.27	2.38
BSU24930,yqzD	2576367	2576720	13.42	9.89	0.74
BSU24940,yqzC	2576717	2577181	26.93	14.13	0.52
BSU24950,pstBB	2577210	2577992	5.06	3.45	0.68
BSU24960,pstBA	2578003	2578812	4.80	3.16	0.66
BSU24970,pstA	2578833	2579717	3.70	2.25	0.61
BSU24980,pstC	2579717	2580646	3.62	2.37	0.65
BSU24990,pstS	2580715	2581617	2.36	1.39	0.59
BSU25000,pbpA	2581771	2583921	11.71	7.41	0.63
BSU25010,yqgE	2584035	2585327	0.16	1.14	7.09
BSU25020,sodA	2585434	2586042	50.98	90.59	1.78
BSU25030,yqgC	2586221	2586703	4.45	5.67	1.27
BSU25040,yqgB	2586813	2587580	6.72	15.76	2.34
BSU25050,yqgA	2587996	2588424	33.13	60.41	1.82
BSU25060,yqfZ	2588701	2589000	0.28	0.65	2.33
BSU25070,ispG	2589123	2590256	17.65	14.65	0.83
BSU25080,yqfX	2590282	2590671	1.39	2.87	2.06
BSU25090,yqfW	2590804	2591385	9.81	10.13	1.03
BSU25100,zur	2591428	2591865	15.78	14.13	0.90
BSU25110,yqfU	2592003	2592884	1.10	1.68	1.52
BSU25120,yqfT	2593000	2593254	0.22	0.42	1.93
BSU25130,yqfS	2593281	2594174	25.62	17.05	0.67
BSU25140,cshB	2594184	2595500	8.57	5.02	0.59
BSU25150,yqfQ	2595669	2596412	0.13	0.16	1.17
BSU25160,ispH	2596535	2597479	7.17	3.86	0.54
BSU25170,yqfO	2597502	2598623	16.92	9.25	0.55
BSU25180,rmkK	2598616	2599266	11.52	5.49	0.48
BSU25190,cccA	2599523	2599885	0.81	0.45	0.55
BSU25200,sigA	2600214	2601329	38.09	28.28	0.74
BSU25210,dnaG	2601528	2603339	28.27	20.11	0.71
BSU25220,antE	2602979	2603275	33.21	24.02	0.72
BSU25230,yqxD	2603373	2603867	21.17	14.62	0.69
BSU25240,yqfL	2604121	2604933	4.56	7.50	1.64
BSU25250,ccpN	2604959	2605597	3.31	6.03	1.83
BSU25260,glyS	2605730	2607769	15.91	13.22	0.83
BSU25270,glyQ	2607762	2608649	11.98	10.73	0.90
BSU25280,recO	2608946	2609713	21.40	35.71	1.67

BSU25289,yqzL	2609750	2609893	48.52	53.94	1.11
BSU25290,era	2610041	2610946	24.79	24.26	0.98
BSU25300,cdd	2610927	2611337	13.46	13.34	0.99
BSU25310,dgkA	2611456	2611827	15.78	12.83	0.81
BSU25320,yqfG	2611808	2612281	20.27	15.49	0.76
BSU25330,yqfF	2612282	2614417	7.10	5.22	0.74
BSU25340,phoH	2614496	2615455	18.56	13.85	0.75
BSU25350,yqfD	2615452	2616648	0.57	0.60	1.04
BSU25360,yqfC	2616667	2616948	0.14	0.15	1.07
BSU25370,yqfB	2617005	2617424	20.76	24.60	1.18
BSU25380,yqfA	2617449	2618444	18.18	21.74	1.20
BSU25390,yqeZ	2618466	2619779	9.58	13.73	1.43
BSU25400,yqeY	2619910	2620356	385.69	364.43	0.94
BSU25410,rpsU	2620371	2620544	609.41	578.61	0.95
BSU25420,yqeW	2620717	2621640	0.26	0.55	2.14
BSU25430,rimO	2621677	2623032	61.79	29.68	0.48
BSU25440,yqeU	2623032	2623802	40.18	56.28	1.40
BSU25450,prmA	2623825	2624760	20.43	23.07	1.13
BSU25460,dnaJ	2624785	2625912	21.23	14.15	0.67
BSU25470,dnaK	2626112	2627947	55.75	48.84	0.88
BSU25480,grpE	2627971	2628534	34.31	35.31	1.03
BSU25490,hrcA	2628606	2629637	21.20	15.73	0.74
BSU25500,hemN	2629718	2630857	5.92	2.39	0.40
BSU25510,lepA	2630910	2632748	53.14	21.66	0.41
BSU25520,yqxA	2632882	2633220	0.65	0.60	0.91
BSU25530,spolIP	2633237	2634442	0.61	0.49	0.81
BSU25540,gpr	2634505	2635611	0.39	0.40	1.02
BSU25550,rpsT	2635815	2636081	204.85	171.95	0.84
BSU25560,holA	2636096	2637139	5.63	3.91	0.69
BSU25569,yqzM	2637369	2637503	15.13	18.84	1.24
BSU25570,comEC	2637543	2639873	0.59	0.74	1.26
BSU25580,comEB	2639877	2640446	4.07	3.11	0.76
BSU25590,comEA	2640513	2641130	0.10	0.17	1.70
BSU25600,comER	2641214	2642035	0.20	0.32	1.58
BSU25610,yqeM	2642101	2642844	53.43	30.84	0.58
BSU25620,yqeL	2642841	2643197	60.18	35.13	0.58
BSU25630,yqeK	2643215	2643775	22.66	11.60	0.51
BSU25640,nadD	2643765	2644334	19.81	8.85	0.45
BSU25650,yqel	2644346	2644636	22.10	10.55	0.48
BSU25660,aroE	2644630	2645472	22.43	10.99	0.49
BSU25670,yqeH	2645490	2646590	17.24	9.12	0.53
BSU25680,yqeG	2646594	2647112	13.25	7.93	0.60
BSU25690,sda	2647456	2647614	11.89	86.61	7.28
BSU25700,yqeF	2647920	2648651	4.13	4.56	1.11
BSU25710,cwlH	2648903	2649655	0.23	0.15	0.66
BSU25720,yqeD	2649842	2650468	1.02	0.63	0.62
BSU25730,yqeC	2650487	2651380	0.31	0.25	0.82

BSU25740,yqeB	2651632	2652354	6.72	3.24	0.48
BSU25750,nucB	2652387	2652797	0.41	0.33	0.80
BSU25770,spolVCA	2653371	2654873	0.00	0.00	0.00
BSU25780,arsC	2655322	2655741	0.00	0.00	0.00
BSU25790,arsB	2655753	2656793	0.00	0.00	0.00
BSU25800,yqcK	2656816	2657256	0.00	0.00	0.00
BSU25810,arsR	2657317	2657634	0.00	0.00	0.00
BSU25820,yqcl	2658006	2658770	0.00	0.00	0.00
BSU25830,rapE	2659213	2660340	0.00	0.00	0.00
BSU25840,phrE	2660330	2660464	0.00	0.00	0.00
BSU25850,yqzI	2660574	2660732	0.00	0.00	0.00
BSU25860,yqcG	2661102	2662697	0.00	0.00	0.00
BSU25870,yqcF	2662712	2663290	0.00	0.00	0.00
BSU25880,yqxJ	2663551	2663913	0.00	0.00	0.00
BSU25890,yqxI	2663929	2664408	0.00	0.00	0.00
BSU25900,cwlA	2664573	2665391	0.00	0.00	0.00
BSU25910,yqxH	2665436	2665858	0.00	0.00	0.00
BSU25920,yqxG	2665903	2666796	0.00	0.00	0.00
BSU25930,yqcE	2666884	2667048	0.00	0.00	0.00
BSU25940,yqcD	2667045	2667380	0.00	0.00	0.00
BSU25950,yqcC	2667390	2668490	0.00	0.00	0.00
BSU25960,yqcB	2668493	2668765	0.00	0.00	0.00
BSU25970,yqcA	2668762	2669340	0.00	0.00	0.00
BSU25980,yqbT	2669324	2670370	0.00	0.00	0.00
BSU25990,yqbS	2670363	2670788	0.00	0.00	0.00
BSU26000,yqbR	2670801	2671064	0.00	0.00	0.00
BSU26010,yqbQ	2671061	2672041	0.00	0.00	0.00
BSU26020,yqbP	2672054	2672713	0.00	0.00	0.00
BSU26030,yqbO	2672706	2677463	0.00	0.00	0.00
BSU26050,yqdB	2678240	2678419	0.00	0.00	0.00
BSU26060,yqbM	2679142	2679585	0.00	0.00	0.00
BSU26075,yqbK	2679588	2680988	0.00	0.00	0.00
BSU26089,yqzN	2680989	2681180	0.00	0.00	0.00
BSU26090,yqbJ	2681177	2681614	0.00	0.00	0.00
BSU26100,yqbI	2681627	2682130	0.00	0.00	0.00
BSU26110,yqbH	2682127	2682489	0.00	0.00	0.00
BSU26120,yqbG	2682486	2682881	0.00	0.00	0.00
BSU26130,yqbF	2682885	2683196	0.00	0.00	0.00
BSU26140,yqbE	2683207	2684142	0.00	0.00	0.00
BSU26150,yqbD	2684161	2685129	0.00	0.00	0.00
BSU26160,yqbC	2685162	2685815	0.00	0.00	0.00
BSU26170,yqbB	2685856	2686773	0.00	0.00	0.00
BSU26180,yqbA	2686770	2688302	0.00	0.00	0.00
BSU26190,yqaT	2688306	2689601	0.00	0.00	0.00
BSU26200,yqaS	2689594	2690313	0.00	0.00	0.00
BSU26210,yqaR	2690381	2690845	0.00	0.00	0.00
BSU26220,yqaQ	2690989	2691444	0.00	0.00	0.00

BSU26230,yqaP	2691642	2692571	0.00	0.00	0.00
BSU26240,yqaO	2692645	2692851	0.00	0.00	0.00
BSU26250,yqaN	2692933	2693361	0.00	0.00	0.00
BSU26259,yqzO	2693457	2693606	0.00	0.00	0.00
BSU26260,yqaM	2693597	2694457	0.00	0.00	0.00
BSU26270,yqaL	2694420	2695097	0.00	0.00	0.00
BSU26280,yqaK	2695173	2696027	0.00	0.00	0.00
BSU26290,yqaJ	2696030	2696989	0.00	0.00	0.00
BSU26300,yqaI	2697095	2697289	0.00	0.00	0.00
BSU26310,yqaH	2697419	2697676	0.00	0.00	0.00
BSU26320,yqaG	2697673	2698242	0.00	0.00	0.00
BSU26330,yqdA	2698316	2698456	0.00	0.00	0.00
BSU26340,yqaF	2698486	2698716	0.00	0.00	0.00
BSU26350,yqaE	2698893	2699243	0.00	0.00	0.00
BSU26360,yqaD	2699510	2699677	0.00	0.00	0.00
BSU26370,yqaC	2700033	2700569	0.00	0.00	0.00
BSU26380,yqaB	2700838	2701356	0.00	0.00	0.00
BSU26400,yrkS	2701979	2702143	0.28	0.41	1.45
BSU26410,yrkR	2702688	2703104	0.63	1.44	2.30
BSU26420,yrkQ	2703150	2704448	0.62	1.42	2.29
BSU26430,yrkP	2704435	2705130	0.40	0.90	2.23
BSU26440,yrkO	2705398	2706615	1.24	4.37	3.53
BSU26450,yrkN	2707127	2707684	1.96	7.88	4.02
BSU26470,yrkL	2708175	2708699	1.48	3.15	2.12
BSU26480,yrkK	2708943	2709419	0.85	2.61	3.06
BSU26490,yrkJ	2710002	2710787	0.11	0.20	1.78
BSU26500,yrkI	2710848	2711075	1.01	0.53	0.53
BSU26510,yrkH	2711109	2712242	0.90	0.37	0.41
BSU26530,yrkF	2712577	2713134	0.71	0.30	0.43
BSU26540,yrkE	2713320	2713802	0.57	0.21	0.36
BSU26550,yrkD	2713949	2714140	2.89	4.73	1.64
BSU26560,yrkC	2714933	2715493	1.56	1.17	0.75
BSU26570,yrkB	2715719	2715865	0.57	0.47	0.82
BSU26580,bltR	2716035	2716856	0.10	0.15	1.58
BSU26590,blt	2716973	2718175	1.25	0.46	0.37
BSU26600,bltD	2718344	2718802	1.70	0.78	0.46
BSU26610,yrkA	2718959	2720263	1.72	1.40	0.81
BSU26619,yrzO	2720526	2720669	0.41	0.28	0.67
BSU26620,yrdR	2720687	2721652	0.28	0.16	0.57
BSU26630,yrdQ	2721778	2722644	0.81	0.59	0.73
BSU26640,yrdP	2722767	2723804	0.25	0.59	2.36
BSU26650,czcD	2723892	2724827	0.21	0.59	2.76
BSU26660,yrdN	2725114	2725503	0.29	0.41	1.39
BSU26670,gltr	2725837	2726727	1.56	1.29	0.83
BSU26680,yrdK	2726885	2727163	2.64	1.85	0.70
BSU26690,brnQ	2727160	2728482	1.11	0.86	0.78
BSU26700,azlD	2728647	2728979	1.30	1.16	0.89

BSU26710,azlC	2728976	2729740	0.70	0.66	0.95
BSU26720,azlB	2729753	2730226	0.47	0.67	1.44
BSU26730,yrdF	2730560	2730835	0.06	0.18	2.93
BSU26740,cypA	2731107	2732339	0.13	0.15	1.20
BSU26760,yrdC	2732980	2733543	0.68	1.84	2.71
BSU26770,yrdB	2733772	2734143	0.17	1.14	6.83
BSU26780,yrdA	2734953	2735456	4.67	4.43	0.95
BSU26790,aadK	2735682	2736536	1.22	2.52	2.07
BSU26800,yrpB	2736915	2737958	0.78	2.66	3.43
BSU26810,yrpC	2738308	2739105	1.47	2.07	1.41
BSU26820,yrpD	2739486	2740193	4.66	3.58	0.77
BSU26830,yrpE	2741357	2742112	0.10	0.10	1.00
BSU26840,sigZ	2742244	2742774	0.15	0.24	1.60
BSU26850,yrpG	2742909	2743889	0.09	0.12	1.36
BSU26860,yraO	2744163	2745479	0.71	0.66	0.94
BSU26870,yraN	2745594	2746463	0.06	0.18	3.06
BSU26880,yraM	2746608	2747711	0.30	0.28	0.93
BSU26890,csn	2747984	2748817	1.08	0.70	0.64
BSU26900,yraL	2749260	2749523	2.43	4.20	1.72
BSU26910,yraK	2749660	2750475	0.28	0.45	1.61
BSU26920,yraJ	2750883	2751239	0.74	1.23	1.65
BSU26930,yraI	2751292	2751726	0.18	0.32	1.78
BSU26940,yraH	2752167	2752553	0.26	0.40	1.55
BSU26950,yraG	2752802	2753047	0.23	0.23	1.02
BSU26960,yraF	2753065	2753433	0.25	0.33	1.32
BSU26970,adhB	2753452	2754588	0.11	0.17	1.55
BSU26980,yraE	2754607	2754804	0.22	0.37	1.72
BSU26990,yraD	2754820	2755119	0.24	0.38	1.60
BSU27000,yraB	2755382	2755804	0.39	0.35	0.89
BSU27010,adhA	2756312	2757361	0.35	0.37	1.07
BSU27020,yraA	2757492	2758001	7.21	11.36	1.58
BSU27030,sacC	2758043	2760076	0.39	0.68	1.76
BSU27040,levG	2760233	2761060	0.23	0.36	1.56
BSU27050,levF	2761081	2761890	0.19	0.33	1.79
BSU27060,levE	2761907	2762395	0.23	0.40	1.77
BSU27070,levD	2762395	2762835	0.16	0.32	2.04
BSU27080,levR	2763025	2765832	0.74	0.82	1.11
BSU27090,aapA	2766558	2767946	57.13	78.45	1.37
BSU27100,yrhP	2768042	2768674	2.63	5.00	1.90
BSU27110,yrhO	2768827	2769654	4.94	4.77	0.96
BSU27120,sigV	2769850	2770350	0.48	0.16	0.34
BSU27130,rsiV	2770350	2771207	0.68	0.28	0.41
BSU27140,oatA	2771318	2773222	1.79	0.79	0.44
BSU27150,yrhK	2773356	2773646	4.21	1.70	0.40
BSU27160,cypB	2773890	2777054	4.36	4.02	0.92
BSU27170,bscR	2777070	2777654	1.99	1.46	0.73
BSU27180,yrhH	2777877	2778419	3.14	1.39	0.44

BSU27190,yrzI	2778923	2779072	2.77	1.62	0.58
BSU27200,yrhG	2779462	2780262	1.63	1.20	0.73
BSU27210,yrhF	2780525	2780893	3.75	2.07	0.55
BSU27220,yrhE	2781209	2784151	5.79	3.14	0.54
BSU27230,yrhD	2784170	2784652	10.41	6.76	0.65
BSU27240,yrhC	2784688	2784918	6.01	6.40	1.06
BSU27250,yrhB	2785001	2786140	2.00	1.06	0.53
BSU27260,mccA	2786142	2787065	1.98	0.80	0.40
BSU27270,mtn	2787130	2787825	10.15	5.77	0.57
BSU27280,yrrT	2787846	2788487	3.78	1.71	0.45
BSU27290,yrzA	2788680	2788883	1.48	1.27	0.86
BSU27300,yrrS	2788920	2789621	21.59	13.65	0.63
BSU27310,pbpl	2789686	2791440	0.54	0.51	0.93
BSU27320,greA	2791494	2791967	27.13	23.57	0.87
BSU27330,udk	2792218	2792853	42.47	17.25	0.41
BSU27340,yrrO	2792860	2794128	35.63	13.11	0.37
BSU27350,yrrN	2794147	2795076	11.76	3.77	0.32
BSU27360,yrrM	2795082	2795735	7.34	2.16	0.29
BSU27370,yrrL	2795887	2796969	5.83	2.84	0.49
BSU27380,yrzB	2797100	2797381	53.46	49.48	0.93
BSU27390,yrrK	2797399	2797815	31.90	30.83	0.97
BSU27400,yrzL	2797823	2798089	34.17	32.79	0.96
BSU27410,alaS	2798174	2800810	18.25	13.74	0.75
BSU27420,yrrI	2801141	2802202	0.29	0.40	1.36
BSU27430,glnQ	2802358	2803086	0.16	0.19	1.19
BSU27440,glnH	2803108	2803929	0.06	0.04	0.79
BSU27450,glnM	2803990	2804640	0.00	0.00	0.00
BSU27460,glnP	2804657	2805313	0.08	0.06	0.70
BSU27468,yrzQ	2805348	2805479	1.97	2.25	1.14
BSU27469,yrzR	2805501	2805692	2.67	3.51	1.31
BSU27470,yrrD	2805704	2806228	1.07	1.87	1.74
BSU27480,yrrC	2806286	2808682	8.72	7.55	0.87
BSU27490,yrrB	2808707	2809327	4.36	2.27	0.52
BSU27500,mnmA	2809413	2810528	36.65	15.16	0.41
BSU27510,iscS	2810559	2811698	29.67	13.22	0.45
BSU27520,cymR	2811717	2812133	14.31	7.30	0.51
BSU27530,yrvN	2812336	2813601	1.78	1.95	1.10
BSU27540,yrvM	2813643	2814407	25.59	12.64	0.49
BSU27550,aspS	2814743	2816521	61.28	63.48	1.04
BSU27560,hisS	2816535	2817809	11.00	12.56	1.14
BSU27570,yrzK	2818191	2818361	1.51	0.99	0.65
BSU27580,yrvJ	2818494	2820050	2.71	3.45	1.27
BSU27590,yrvI	2820077	2820475	90.61	82.87	0.91
BSU27600,relA	2820529	2822733	58.95	57.07	0.97
BSU27610,apt	2822901	2823413	41.11	14.66	0.36
BSU27620,recJ	2823419	2825779	26.02	8.99	0.35
BSU27630,yrvD	2825846	2826169	2.49	4.01	1.61

BSU27640,yrvC	2826245	2826742	2.32	3.06	1.32
BSU27650,secDF	2826900	2829113	36.83	24.81	0.67
BSU27660,comN	2829152	2829448	6.20	9.48	1.53
BSU27670,spoVB	2829564	2831120	0.23	0.53	2.31
BSU27680,yrbG	2831124	2831780	0.15	0.16	1.02
BSU27690,yrzE	2831915	2832367	0.19	0.19	0.96
BSU27700,yajC	2832424	2832690	32.65	55.93	1.71
BSU27710,tgt	2832727	2833872	12.69	13.36	1.05
BSU27720,queA	2833899	2834927	8.80	7.50	0.85
BSU27729,yrzS	2834957	2835157	7.60	6.35	0.84
BSU27730,ruvB	2835150	2836154	9.30	7.34	0.79
BSU27740,ruvA	2836165	2836770	3.23	3.52	1.09
BSU27750,bofC	2836909	2837421	2.47	1.10	0.44
BSU27760,csbX	2837469	2838776	8.12	3.01	0.37
BSU27770,yrbE	2838847	2839872	37.15	20.32	0.55
BSU27785,yrzF	2840110	2840757	1.15	1.91	1.66
BSU27800,yrzH	2841169	2841300	3.15	3.18	1.01
BSU27809,yrzT	2841307	2841447	2.41	2.37	0.98
BSU27810,yrbD	2841611	2843065	5.49	2.22	0.40
BSU27820,yrbC	2843106	2843828	0.36	0.30	0.84
BSU27830,coxA	2843931	2844527	0.17	0.47	2.75
BSU27840,safA	2844675	2845838	0.24	0.31	1.27
BSU27850,nadA	2845955	2847061	0.14	0.15	1.04
BSU27860,nadC	2847048	2847917	0.07	0.08	1.19
BSU27870,nadB	2847871	2849466	0.10	0.09	0.95
BSU27880,nifS	2849569	2850756	1.21	1.53	1.27
BSU27890,nadR	2850716	2851258	11.30	12.80	1.13
BSU27900,pheA	2851283	2852140	5.61	4.88	0.87
BSU27910,pheB	2852157	2852600	6.71	6.41	0.96
BSU27920,obgE	2852661	2853947	49.25	32.25	0.65
BSU27930,spo0B	2853981	2854559	30.78	23.02	0.75
BSU27940,rpmA	2854880	2855164	2504.05	3856.60	1.54
BSU27950,ysxB	2855177	2855515	2672.97	2557.73	0.96
BSU27960,rplU	2855518	2855826	1116.34	657.15	0.59
BSU27970,spoIVFB	2855973	2856839	1.18	0.94	0.79
BSU27980,spoIVFA	2856832	2857626	1.05	0.88	0.84
BSU27990,minD	2857776	2858582	69.31	34.86	0.50
BSU28000,minC	2858584	2859264	65.21	29.05	0.45
BSU28010,mreD	2859317	2859835	59.57	24.93	0.42
BSU28020,mreC	2859832	2860704	81.78	36.69	0.45
BSU28030,mreB	2860735	2861748	47.60	23.50	0.49
BSU28040,radC	2861840	2862535	6.72	3.08	0.46
BSU28050,maf	2862572	2863141	7.58	3.63	0.48
BSU28060,spoIIB	2863294	2864292	0.11	0.20	1.75
BSU28070,comC	2864426	2865172	0.20	0.21	1.03
BSU28080,folC	2865312	2866604	10.46	12.94	1.24
BSU28090,vals	2866664	2869306	25.48	25.20	0.99

BSU28099,yszA	2869754	2869945	0.42	0.32	0.76
BSU28100,ysxE	2869964	2870989	0.36	1.30	3.66
BSU28110,spoVID	2871022	2872749	0.29	1.15	3.90
BSU28120,hemL	2872880	2874172	47.05	39.22	0.83
BSU28130,hemB	2874202	2875176	33.30	23.84	0.72
BSU28140,hemD	2875173	2875961	14.24	10.27	0.72
BSU28150,hemC	2875951	2876895	12.16	9.36	0.77
BSU28160,hemX	2876928	2877758	11.90	10.06	0.85
BSU28170,hemA	2877766	2879133	17.96	17.68	0.98
BSU28180,ysxD	2879363	2879860	2.46	2.83	1.15
BSU28190,engB	2879882	2880469	16.81	14.25	0.85
BSU28200,lonA	2880466	2882790	9.90	9.28	0.94
BSU28210,lonB	2882971	2884629	0.30	0.76	2.54
BSU28220,clpX	2884781	2886043	61.95	75.70	1.22
BSU28230,tig	2886315	2887589	109.50	67.40	0.62
BSU28240,ysoA	2887817	2888821	4.04	5.83	1.45
BSU28250,leuD	2888940	2889539	0.65	6.24	9.58
BSU28260,leuC	2889552	2890970	0.61	6.88	11.20
BSU28270,leuB	2891020	2892117	0.33	6.09	18.66
BSU28280,leuA	2892138	2893694	2.29	7.06	3.08
BSU28290,ilvC	2893681	2894709	0.67	8.10	12.08
BSU28300,ilvH	2894733	2895251	0.23	4.74	20.68
BSU28310,ilvB	2895248	2896972	0.28	6.15	22.12
BSU28320,ysnD	2897788	2898123	0.09	0.09	0.93
BSU28330,ysnE	2898292	2898747	0.59	0.55	0.92
BSU28340,ysnF	2898931	2899752	0.24	1.93	7.93
BSU28350,ysnB	2900020	2900529	5.75	10.00	1.74
BSU28360,ysnA	2900545	2901141	6.48	11.07	1.71
BSU28370,rph	2901154	2901891	3.16	5.66	1.79
BSU28380,gerM	2902002	2903102	0.37	1.66	4.51
BSU28390,racE	2903217	2904035	25.37	15.80	0.62
BSU28400,ysmB	2904043	2904483	18.44	12.93	0.70
BSU28410,gerE	2904727	2904951	4.00	8.97	2.24
BSU28420,ysmA	2905067	2905510	1.27	4.17	3.28
BSU28430,sdhB	2905571	2906332	91.54	138.55	1.51
BSU28440,sdhA	2906335	2908095	57.50	89.12	1.55
BSU28450,sdhC	2908129	2908737	18.56	21.92	1.18
BSU28460,yslB	2909030	2909476	5.45	10.41	1.91
BSU28470,lysC	2909520	2910746	20.40	17.50	0.86
BSU28490,uvrC	2911116	2912888	1.83	1.86	1.02
BSU28500,trxA	2913024	2913338	22.01	38.88	1.77
BSU28510,xsa	2913661	2915148	7.38	2.83	0.38
BSU28520,etfA	2915365	2916342	10.58	7.08	0.67
BSU28530,etfB	2916378	2917151	9.92	6.34	0.64
BSU28540,ysiB	2917166	2917942	8.23	5.36	0.65
BSU28550,fadR	2917957	2918541	7.88	9.01	1.14
BSU28560,lcfA	2918646	2920328	2.59	2.04	0.79

BSU28570,yshE	2920517	2920921	7.21	6.20	0.86
BSU28580,mutSB	2920936	2923293	11.61	10.04	0.86
BSU28590,yshC	2923314	2925026	8.77	6.57	0.75
BSU28600,yshB	2925100	2925633	6.92	7.40	1.07
BSU28610,yshA	2925640	2925897	6.22	7.63	1.23
BSU28620,rnhC	2926031	2926972	5.15	4.34	0.84
BSU28630,pheT	2927008	2929422	20.17	33.35	1.65
BSU28640,pheS	2929438	2930472	6.26	6.97	1.11
BSU28650,ysgA	2930827	2931573	14.58	12.19	0.84
BSU28660,sspl	2931692	2931907	1.42	2.36	1.66
BSU28670,yfbB	2931976	2933082	1.01	0.92	0.92
BSU28680,glcD	2933185	2934597	3.64	2.01	0.55
BSU28690,glcF	2934594	2935928	4.37	2.56	0.59
BSU28700,yseE	2935967	2936209	18.31	10.82	0.59
BSU28710,cstA	2936382	2938178	13.88	7.00	0.50
BSU28720,abfA	2938330	2939832	1.94	1.25	0.64
BSU28730,araQ	2939851	2940696	1.38	0.80	0.58
BSU28740,araP	2940697	2941638	0.97	0.65	0.67
BSU28750,araN	2941674	2942975	0.53	0.53	1.01
BSU28760,araM	2943006	2944190	0.66	0.61	0.91
BSU28770,araL	2944187	2945005	0.93	0.77	0.83
BSU28780,araD	2944983	2945672	1.22	1.10	0.90
BSU28790,araB	2945689	2947371	1.33	1.14	0.86
BSU28800,araA	2947385	2948875	1.93	1.60	0.83
BSU28810,abnA	2949053	2950024	2.13	0.68	0.32
BSU28820,yseC	2950221	2951306	2.61	3.03	1.16
BSU28830,yseB	2951490	2951882	2.20	2.47	1.13
BSU28840,yseA	2951898	2952167	3.55	4.14	1.17
BSU28850,rplT	2952224	2952583	213.28	155.05	0.73
BSU28860,rplM	2952615	2952815	209.26	149.15	0.71
BSU28870,infC	2952828	2953349	91.05	64.17	0.70
BSU28890,yseB	2953795	2954460	0.80	0.24	0.30
BSU28900,yseB	2954492	2955187	204.45	9.12	0.04
BSU28910,yseA	2955209	2955649	26.10	1.83	0.07
BSU28920,lytT	2955783	2956508	2.50	2.44	0.97
BSU28930,lytS	2956486	2958267	2.04	2.13	1.05
BSU28940,yseA	2958434	2959216	8.50	19.31	2.27
BSU28950,thrS	2959257	2961188	25.91	17.56	0.68
BSU28960,ytxC	2961586	2962431	18.64	11.94	0.64
BSU28970,ytxB	2962510	2963151	19.22	12.32	0.64
BSU28980,dnaI	2963185	2964120	14.17	8.98	0.63
BSU28990,dnaB	2964148	2965566	6.49	4.50	0.69
BSU29000,nrdR	2965681	2966139	6.83	12.35	1.81
BSU29010,speD	2966413	2966793	74.71	36.89	0.49
BSU29020,gapB	2967032	2968054	16.64	2.80	0.17
BSU29030,ytcD	2968260	2968640	1.22	0.99	0.81
BSU29040,ytbD	2968824	2970014	0.37	0.25	0.68

BSU29050,ytbE	2970038	2970880	0.52	0.49	0.93
BSU29060,coaE	2970922	2971515	21.34	17.50	0.82
BSU29070,ytaF	2971531	2972163	19.43	14.59	0.75
BSU29080,mutM	2972329	2973159	16.35	12.83	0.78
BSU29090,polA	2973182	2975824	9.65	6.89	0.71
BSU29100,phoR	2976068	2977807	21.60	30.55	1.41
BSU29110,phoP	2977800	2978522	3.48	4.24	1.22
BSU29120,mdh	2978734	2979672	9.62	40.42	4.20
BSU29130,icd	2979716	2980987	8.46	25.42	3.01
BSU29140,citZ	2981151	2982269	2.87	9.94	3.47
BSU29150,ytwI	2982603	2983067	7.08	8.60	1.21
BSU29160,ytvI	2983164	2984279	6.30	7.20	1.14
BSU29170,fxsA	2984312	2984695	50.34	45.12	0.90
BSU29180,pyk	2984788	2986545	167.85	107.59	0.64
BSU29190,pfkA	2986588	2987547	27.99	16.67	0.60
BSU29200,accA	2987731	2988708	25.55	20.33	0.80
BSU29210,accD	2988693	2989565	25.47	17.94	0.70
BSU29220,ytsJ	2989900	2991132	40.13	35.80	0.89
BSU29230,dnaE	2991269	2994616	10.99	7.71	0.70
BSU29239,ytrH	2994756	2995097	0.27	0.22	0.80
BSU29240,ytrI	2995067	2995597	0.28	0.53	1.89
BSU29249,ytzJ	2995699	2995890	3.58	5.84	1.63
BSU29250,nrnA	2995908	2996849	14.66	18.86	1.29
BSU29260,ytpI	2996980	2997282	3.80	5.11	1.35
BSU29270,ytoI	2997301	2998620	4.51	4.94	1.10
BSU29280,ytnM	2998796	2999698	0.11	0.13	1.20
BSU29290,ytnL	2999717	3000967	0.12	0.12	1.07
BSU29300,rbfK	3000985	3001677	0.06	0.07	1.13
BSU29310,ytnJ	3001724	3003052	0.06	0.08	1.34
BSU29320,ytnI	3003049	3003330	0.09	0.07	0.80
BSU29330,ytmO	3003345	3004349	0.08	0.07	0.90
BSU29340,tcyN	3004346	3005125	0.05	0.06	1.13
BSU29350,tcyM	3005122	3005829	0.06	0.06	1.08
BSU29360,tcyL	3005859	3006578	0.08	0.10	1.24
BSU29370,tcyK	3006600	3007412	0.08	0.10	1.37
BSU29380,tcyJ	3007426	3008235	0.07	0.07	1.12
BSU29390,ytml	3008249	3008785	0.07	0.10	1.50
BSU29400,ytII	3008938	3009864	0.57	0.38	0.66
BSU29410,ytkL	3009915	3010598	24.90	30.11	1.21
BSU29420,fabG	3010661	3011428	1.79	2.40	1.34
BSU29430,ytzD	3011555	3011689	5.00	1.84	0.37
BSU29440,argH	3011751	3013136	9.84	3.33	0.34
BSU29450,argG	3013133	3014344	7.83	2.49	0.32
BSU29460,moaB	3014514	3015026	3.69	19.36	5.25
BSU29470,ackA	3015111	3016298	44.51	34.78	0.78
BSU29480,ytxK	3016646	3017635	11.63	10.40	0.89
BSU29490,tpx	3017696	3018199	30.98	75.09	2.42

BSU29500,ytfJ	3018309	3018764	0.52	1.08	2.06
BSU29510,ytfl	3018778	3019458	0.18	0.23	1.31
BSU29520,yteJ	3019533	3020027	6.35	3.33	0.52
BSU29530,sppA	3020040	3021047	3.36	2.02	0.60
BSU29540,ppnK	3021233	3022036	4.30	6.25	1.45
BSU29550,ytcJ	3022068	3023657	17.24	16.69	0.97
BSU29560,ytcl	3023677	3025266	8.20	6.45	0.79
BSU29570,sspA	3025445	3025654	19.27	32.82	1.70
BSU29580,ytbJ	3025748	3026953	9.89	7.35	0.74
BSU29590,iscS	3026957	3028102	5.55	5.32	0.96
BSU29600,braB	3028297	3029634	5.66	5.39	0.95
BSU29610,eZR	3029729	3031417	34.24	26.89	0.79
BSU29620,hisJ	3031614	3032420	7.70	14.43	1.87
BSU29630,yttP	3032417	3033040	11.60	18.67	1.61
BSU29640,ytsP	3033167	3033658	24.02	27.92	1.16
BSU29650,ytrP	3033696	3035435	20.54	13.48	0.66
BSU29660,rpsD	3035730	3036332	388.15	141.41	0.36
BSU29670,tyrS	3036603	3037871	10.37	7.93	0.76
BSU29679,ytzK	3038060	3038203	53.04	35.25	0.66
BSU29680,acsA	3038213	3039931	0.36	0.32	0.88
BSU29690,acuA	3040092	3040724	5.21	2.71	0.52
BSU29700,acuB	3040751	3041395	7.89	3.85	0.49
BSU29710,acuC	3041392	3042555	6.44	3.26	0.51
BSU29720,ytxE	3042566	3043294	0.32	1.08	3.33
BSU29730,ytxD	3043284	3044102	0.66	1.58	2.40
BSU29740,ccpA	3044165	3045169	85.04	52.96	0.62
BSU29750,aroA	3045445	3046521	53.50	147.76	2.76
BSU29760,ytxJ	3046757	3047083	14.54	34.19	2.35
BSU29770,ytxH	3047107	3047562	17.97	43.61	2.43
BSU29780,ytxG	3047593	3048015	5.84	13.48	2.31
BSU29790,murC	3048177	3049475	62.39	35.16	0.56
BSU29805,ytpS	3049725	3052583	12.32	8.27	0.67
BSU29820,ytpR	3052743	3053348	29.88	26.85	0.90
BSU29830,ytpQ	3053364	3054173	21.71	23.42	1.08
BSU29840,ytpP	3054188	3054511	21.59	25.76	1.19
BSU29850,ytoQ	3054746	3055192	2.38	3.07	1.29
BSU29860,ytoP	3055247	3056320	5.78	7.36	1.27
BSU29870,ytzB	3056479	3056796	4.74	11.07	2.34
BSU29880,malS	3056849	3058549	4.50	10.64	2.37
BSU29890,ytnP	3058631	3059401	2.26	4.88	2.15
BSU29900,trmB	3059547	3060188	9.04	6.09	0.67
BSU29910,ytzH	3060395	3060673	14.68	8.05	0.55
BSU29920,ytmP	3060674	3061288	20.10	11.18	0.56
BSU29930,amyX	3061651	3063807	1.83	1.33	0.73
BSU29940,ytIR	3063833	3064762	2.01	1.77	0.88
BSU29950,ytIQ	3064811	3065725	2.18	2.45	1.12
BSU29960,ytIP	3065751	3066302	1.80	2.10	1.17

BSU29970,ytkP	3066451	3067386	7.12	5.40	0.76
BSU29980,ytjP	3067420	3068811	5.01	4.72	0.94
BSU29990,pbuO	3068908	3070206	2.35	1.66	0.70
BSU30000,ythQ	3070246	3071403	1.89	1.47	0.78
BSU30010,ythP	3071400	3072110	1.98	1.85	0.94
BSU30020,ytzE	3072401	3072622	5.69	18.49	3.25
BSU30035,ytzG	3072743	3073462	5.27	5.48	1.04
BSU30050,ytgP	3073531	3075165	11.15	4.08	0.37
BSU30060,ytfP	3075367	3076629	2.95	2.63	0.89
BSU30070,opuD	3076818	3078356	9.72	6.98	0.72
BSU30080,yteV	3078393	3078575	0.37	0.39	1.06
BSU30090,yteU	3078643	3079311	0.42	0.36	0.85
BSU30100,yteT	3079333	3080619	0.23	0.15	0.66
BSU30110,yteS	3080631	3081134	0.15	0.10	0.66
BSU30120,yteR	3081131	3082243	0.12	0.08	0.62
BSU30135,yteP	3082260	3083225	0.08	0.05	0.57
BSU30150,ytdP	3083441	3085759	0.91	0.24	0.26
BSU30160,ytcQ	3085800	3087296	0.88	0.40	0.45
BSU30170,ytcP	3087321	3088181	0.75	0.33	0.44
BSU30180,ytbQ	3088388	3089149	0.40	0.36	0.91
BSU30190,biol	3089226	3090413	0.15	0.14	0.93
BSU30200,bioB	3090482	3091489	0.10	0.11	1.03
BSU30210,bioD	3091492	3092187	0.13	0.13	1.02
BSU30220,bioF	3092184	3093353	0.37	0.32	0.88
BSU30230,bioA	3093343	3094689	0.21	0.20	0.94
BSU30240,bioW	3094679	3095455	0.13	0.12	0.92
BSU30250,ytaP	3095665	3096564	0.16	0.25	1.50
BSU30260,msmR	3096782	3097816	1.36	1.49	1.10
BSU30270,msmE	3097850	3099130	0.26	0.24	0.92
BSU30280,amyD	3099123	3100034	0.30	0.26	0.87
BSU30290,amyC	3100031	3100861	0.27	0.28	1.03
BSU30300,melA	3100881	3102179	1.24	1.32	1.07
BSU30310,ytwF	3102201	3102512	5.51	8.89	1.61
BSU30320,leuS	3102629	3105043	38.06	22.96	0.60
BSU30330,ytvB	3105470	3105799	0.57	0.65	1.15
BSU30340,ytvA	3106210	3106995	2.46	3.02	1.23
BSU30350,yttB	3107232	3108425	2.20	0.71	0.32
BSU30360,yttA	3108614	3109360	0.55	1.88	3.42
BSU30370,bceB	3109397	3111337	1.09	0.89	0.82
BSU30380,bceA	3111327	3112088	0.82	0.66	0.81
BSU30390,bceS	3112190	3113194	6.02	4.46	0.74
BSU30400,bceR	3113187	3113882	3.77	3.48	0.92
BSU30410,ytrF	3113979	3115289	1.89	2.54	1.34
BSU30420,ytrE	3115279	3115974	1.48	2.04	1.38
BSU30430,ytrD	3115989	3116966	1.14	1.00	0.88
BSU30440,ytrC	3116996	3117982	1.24	1.08	0.87
BSU30450,ytrB	3117976	3118854	1.33	1.17	0.88

BSU30460,ytrA	3118847	3119239	0.77	0.80	1.04
BSU30470,ytzC	3119565	3119837	1.46	1.75	1.20
BSU30480,ytqA	3119999	3120967	10.36	4.76	0.46
BSU30490,ytqB	3120964	3121548	14.29	7.42	0.52
BSU30500,ytpB	3121538	3122641	4.26	4.15	0.97
BSU30510,ytpA	3122662	3123441	4.66	4.19	0.90
BSU30520,ytoA	3123490	3124005	4.80	4.69	0.98
BSU30530,ytnA	3124250	3125641	9.70	7.64	0.79
BSU30540,asnB	3125777	3127675	92.99	51.29	0.55
BSU30550,metK	3127825	3129027	257.67	121.34	0.47
BSU30560,pckA	3129530	3131113	99.55	16.80	0.17
BSU30570,ytmB	3131152	3131394	8.61	13.24	1.54
BSU30580,ytmA	3131446	3132219	0.77	0.94	1.22
BSU30595,ytIA	3132370	3133374	0.20	0.16	0.79
BSU30610,ytIC	3133387	3134169	0.60	1.06	1.76
BSU30620,ytID	3134144	3134956	0.76	0.92	1.21
BSU30630,ytkD	3134983	3135459	6.71	9.25	1.38
BSU30640,ytkC	3135668	3136072	0.13	0.14	1.03
BSU30650,dps	3136238	3136675	6.10	14.59	2.39
BSU30659,ytzI	3136768	3136944	5.40	7.15	1.32
BSU30660,ytkA	3136938	3137375	2.25	3.05	1.36
BSU30670,luxS	3137495	3137968	28.60	28.99	1.01
BSU30680,ytjA	3138097	3138324	7.41	8.15	1.10
BSU30690,ytiB	3138321	3138884	5.57	6.65	1.19
BSU30700,rpmE2	3138978	3139226	1.15	1.85	1.61
BSU30710,ythA	3139431	3140762	0.47	0.29	0.61
BSU30720,ythB	3140806	3141846	0.81	0.63	0.78
BSU30739,ytzL	3141900	3142058	0.98	1.16	1.18
BSU30740,mntD	3142077	3142964	5.21	1.71	0.33
BSU30750,mntC	3142954	3144261	4.80	1.43	0.30
BSU30760,mntB	3144267	3145019	5.11	1.39	0.27
BSU30770,mntA	3145038	3145958	5.72	1.84	0.32
BSU30780,menC	3146238	3147353	3.14	5.63	1.79
BSU30790,menE	3147350	3148810	2.79	4.66	1.67
BSU30800,menB	3148901	3149716	22.88	21.31	0.93
BSU30810,ytxM	3149751	3150575	3.81	3.74	0.98
BSU30820,menD	3150563	3152305	5.49	4.69	0.85
BSU30830,menF	3152302	3153717	5.49	4.08	0.74
BSU30840,yteA	3154007	3154726	0.18	0.73	4.09
BSU30850,ytdA	3154735	3155553	0.18	0.17	0.96
BSU30860,ytcA	3155725	3157011	0.09	0.08	0.93
BSU30870,ytcB	3157008	3157958	0.06	0.06	0.94
BSU30880,ytcC	3157961	3159184	0.05	0.07	1.38
BSU30890,ytxO	3159258	3159689	0.12	0.14	1.13
BSU30900,cotS	3159691	3160746	0.17	0.21	1.24
BSU30910,cotSA	3160761	3161894	0.07	0.07	0.92
BSU30920,cotI	3162084	3163157	0.10	0.13	1.26

BSU30930,ytaB	3163237	3163704	0.30	0.38	1.29
BSU30940,glgP	3163735	3166131	0.33	0.37	1.09
BSU30950,glgA	3166118	3167572	0.18	0.21	1.17
BSU30960,glgD	3167569	3168600	0.17	0.27	1.58
BSU30970,glgC	3168624	3169766	0.15	0.17	1.16
BSU30980,glgB	3169763	3171646	0.13	0.15	1.09
BSU30990,thiT	3179306	3179884	3.78	0.60	0.16
BSU31000,yuaI	3179926	3180447	0.76	0.55	0.72
BSU31010,yuaG	3180465	3181994	0.38	0.32	0.83
BSU31020,yuaF	3182015	3182539	0.25	0.25	0.99
BSU31030,yuaE	3182707	3183195	1.92	2.95	1.53
BSU31040,yuaD	3183201	3183779	3.85	2.39	0.62
BSU31050,gsbB	3183867	3185075	0.63	0.57	0.91
BSU31060,gsbA	3185092	3186564	0.23	0.19	0.84
BSU31070,yuaC	3186763	3187305	5.02	4.15	0.83
BSU31080,yuaB	3187503	3188048	21.95	4.38	0.20
BSU31090,ktrA	3188414	3189082	1.35	0.53	0.39
BSU31100,ktrB	3189089	3190426	3.49	1.61	0.46
BSU31110,yubF	3190462	3190725	19.95	10.38	0.52
BSU31120,lytG	3190834	3191682	9.41	5.38	0.57
BSU31130,yubD	3191843	3193378	1.42	3.45	2.42
BSU31140,cdoA	3193863	3194348	0.91	0.71	0.78
BSU31150,yubB	3194635	3195465	13.50	7.51	0.56
BSU31160,yubA	3195558	3196724	6.57	5.67	0.86
BSU31170,yulF	3196906	3197892	5.95	6.17	1.04
BSU31180,yulE	3197933	3199207	1.68	1.30	0.77
BSU31190,yulD	3199233	3199547	1.32	0.67	0.50
BSU31200,yulC	3199565	3201022	0.79	0.69	0.88
BSU31210,yulB	3201027	3201803	1.18	1.20	1.02
BSU31220,yuxG	3201860	3203929	1.27	1.05	0.83
BSU31230,tlpB	3204067	3206055	0.58	0.85	1.46
BSU31240,mcpA	3206169	3208154	0.29	1.24	4.21
BSU31250,tlpA	3208280	3210268	0.07	0.21	2.84
BSU31260,mcpB	3210445	3212433	1.38	1.62	1.17
BSU31270,tgl	3212591	3213328	0.20	0.16	0.76
BSU31279,yuzH	3213342	3213596	0.55	1.33	2.42
BSU31280,yugU	3213854	3214252	0.38	1.04	2.70
BSU31290,yugT	3214372	3216036	0.30	0.28	0.91
BSU31300,yugS	3216163	3217452	0.28	0.40	1.41
BSU31310,yugP	3217496	3218173	7.93	9.06	1.14
BSU31319,yuzI	3218215	3218478	0.11	0.08	0.70
BSU31321,mstX	3218525	3218857	0.23	0.18	0.76
BSU31322,yugO	3218854	3219840	0.77	0.77	1.00
BSU31330,yugN	3219837	3220241	7.85	7.01	0.89
BSU31340,yugM	3220301	3220672	4.19	4.09	0.98
BSU31350,pgi	3220731	3222083	26.05	21.33	0.82
BSU31360,yugK	3222195	3223367	3.96	4.32	1.09

BSU31370,yugJ	3223471	3224634	3.44	5.94	1.72
BSU31380,yuzA	3224864	3225100	1.64	4.77	2.91
BSU31390,yugI	3225178	3225570	78.38	36.95	0.47
BSU31400,alaT	3225772	3226932	19.86	10.82	0.54
BSU31410,yugG	3226933	3227433	10.00	5.66	0.57
BSU31420,yugF	3227581	3228402	0.22	0.28	1.28
BSU31430,yugE	3228431	3228691	4.94	7.19	1.45
BSU31440,patB	3228778	3229941	2.35	1.94	0.83
BSU31450,kinB	3230067	3231353	0.65	1.78	2.73
BSU31460,kapB	3231399	3231785	0.96	2.35	2.45
BSU31470,kapD	3231812	3232429	0.14	0.34	2.44
BSU31480,yuxJ	3232640	3233818	0.48	0.94	1.94
BSU31490,pbpD	3233911	3235785	16.29	14.36	0.88
BSU31500,yuxK	3235806	3236219	47.27	42.68	0.90
BSU31510,yufK	3236422	3236979	19.31	11.76	0.61
BSU31520,yufL	3237157	3238758	5.74	4.35	0.76
BSU31530,yufM	3238751	3239458	9.64	7.42	0.77
BSU31540,yufN	3239930	3241009	0.08	0.07	0.80
BSU31550,yufO	3241085	3242617	0.06	0.07	1.12
BSU31560,yufP	3242610	3243656	0.11	0.11	1.00
BSU31570,yufQ	3243657	3244616	0.16	0.12	0.76
BSU31580,maeN	3244770	3246116	16.57	13.22	0.80
BSU31590,yufS	3246152	3246367	0.28	0.34	1.18
BSU31600,mrpA	3246598	3249003	5.04	3.64	0.72
BSU31610,mrpB	3248996	3249427	7.30	4.63	0.63
BSU31620,mrpC	3249427	3249768	7.55	4.55	0.60
BSU31630,mrpD	3249761	3251242	7.21	4.17	0.58
BSU31640,mrpE	3251248	3251724	9.91	5.80	0.59
BSU31650,mrpF	3251724	3252008	11.34	6.98	0.62
BSU31660,mrpG	3251992	3252366	9.37	6.30	0.67
BSU31670,yuxO	3252405	3252785	6.69	4.94	0.74
BSU31680,comA	3252804	3253448	4.13	4.51	1.09
BSU31690,comP	3253529	3255838	8.04	12.04	1.50
BSU31700,comX	3255853	3256020	4.98	17.38	3.49
BSU31710,comQ	3256008	3256907	1.19	4.45	3.74
BSU31720,degQ	3257092	3257232	0.97	0.99	1.02
BSU31730,yuzC	3257693	3258061	11.47	12.63	1.10
BSU31740,yuxH	3258037	3259266	3.85	5.79	1.50
BSU31750,yueK	3259403	3260875	8.71	9.92	1.14
BSU31760,pncA	3260891	3261442	3.57	5.86	1.64
BSU31770,yueI	3261539	3261937	3.61	4.04	1.12
BSU31780,yueH	3262009	3262257	3.72	4.29	1.15
BSU31790,yueG	3262330	3262551	32.01	24.41	0.76
BSU31800,yueF	3262611	3263720	20.55	17.81	0.87
BSU31810,yuzE	3263835	3264224	2.13	3.93	1.85
BSU31820,yuzF	3264265	3264501	12.65	22.95	1.81
BSU31830,yueE	3264678	3265208	2.32	7.47	3.22

BSU31840,yueD	3265406	3266137	11.26	8.98	0.80
BSU31850,yueC	3266200	3266655	9.19	5.26	0.57
BSU31860,yueB	3266687	3269917	10.14	4.11	0.41
BSU31875,yukB	3269914	3274401	6.70	2.72	0.41
BSU31890,yukC	3274462	3275817	2.07	1.33	0.65
BSU31900,yukD	3275832	3276071	2.52	2.11	0.84
BSU31910,yukE	3276141	3276434	50.60	47.04	0.93
BSU31920,yukF	3276955	3278223	2.49	3.00	1.20
BSU31930,ald	3278325	3279461	31.43	110.45	3.51
BSU31945,yukJ	3279573	3280250	1.25	32.18	25.84
BSU31959,ybdZ	3280294	3280503	0.86	1.35	1.57
BSU31960,dhbF	3280519	3287655	0.66	0.57	0.87
BSU31970,dhbB	3287675	3288613	0.87	0.43	0.49
BSU31980,dhbE	3288641	3290260	0.81	0.37	0.46
BSU31990,dhbC	3290289	3291485	0.85	0.48	0.57
BSU32000,dhbA	3291511	3292296	1.01	0.43	0.43
BSU32010,besA	3292490	3293359	2.65	1.03	0.39
BSU32020,yuiH	3293573	3294169	1.00	1.11	1.11
BSU32030,bioYB	3294270	3294872	1.86	1.36	0.73
BSU32040,yuiF	3294942	3296270	4.36	4.64	1.06
BSU32050,yuiE	3296417	3297919	5.15	6.18	1.20
BSU32060,yuiD	3298077	3298553	6.48	9.05	1.40
BSU32070,yuiC	3298584	3299240	1.31	1.52	1.15
BSU32080,yuiB	3299344	3299664	2.21	3.83	1.73
BSU32090,yuiA	3299718	3299861	0.43	2.44	5.72
BSU32100,yumB	3300034	3301254	1.98	4.74	2.39
BSU32110,yumC	3301586	3302584	24.35	28.59	1.17
BSU32120,yuzG	3302623	3302763	5.16	4.40	0.85
BSU32130,guaC	3303042	3304022	0.33	0.55	1.68
BSU32140,paiB	3304096	3304719	0.51	0.64	1.25
BSU32150,paiA	3304743	3305261	0.24	0.32	1.30
BSU32160,yutM	3305599	3305961	50.51	45.10	0.89
BSU32170,dapF	3306040	3306894	18.43	17.66	0.96
BSU32180,yutK	3307017	3308231	15.09	7.37	0.49
BSU32190,yuzB	3308368	3308604	5.87	7.00	1.19
BSU32200,yutJ	3308867	3309934	44.65	16.88	0.38
BSU32210,yuzD	3309960	3310286	3.01	4.77	1.59
BSU32220,yutI	3310386	3310721	212.16	242.05	1.14
BSU32230,yuxL	3310763	3312736	0.36	1.99	5.54
BSU32240,thrB	3312844	3313773	8.06	78.43	9.73
BSU32250,thrC	3313770	3314828	9.09	82.85	9.12
BSU32260,hom	3314828	3316129	6.06	39.63	6.53
BSU32270,yutH	3316330	3317349	0.14	0.69	4.79
BSU32280,yutG	3317502	3318002	0.23	1.17	5.07
BSU32290,yutF	3318029	3318799	9.66	12.72	1.32
BSU32300,yutE	3318828	3319262	7.28	13.24	1.82
BSU32310,yutD	3319286	3319561	4.56	9.54	2.09

BSU32320,yutC	3319676	3320308	3.04	7.84	2.58
BSU32330,lipA	3320324	3321220	21.07	25.13	1.19
BSU32340,lytH	3321455	3322435	0.33	0.86	2.57
BSU32350,yunB	3322463	3323227	2.67	2.24	0.84
BSU32360,yunC	3323300	3323605	16.16	13.40	0.83
BSU32370,yunD	3323670	3325058	16.61	13.14	0.79
BSU32380,yunE	3325078	3325899	9.33	6.80	0.73
BSU32390,yunF	3325917	3326765	3.35	3.78	1.13
BSU32400,yunG	3326803	3327150	0.64	1.02	1.59
BSU32410,pucH	3327247	3328587	0.97	0.68	0.70
BSU32420,pucR	3328762	3330357	0.85	0.66	0.78
BSU32430,pucJ	3330502	3331851	0.59	0.45	0.76
BSU32440,pucK	3331857	3333149	0.46	0.42	0.91
BSU32450,pucL	3333162	3334646	0.85	0.66	0.78
BSU32460,pucM	3334646	3334990	3.30	1.77	0.54
BSU32469,yuzJ	3335414	3335545	0.29	0.41	1.41
BSU32470,pucE	3335751	3336272	0.36	0.24	0.66
BSU32480,pucD	3336263	3338500	0.28	0.19	0.70
BSU32490,pucC	3338501	3339334	0.25	0.20	0.81
BSU32500,pucB	3339331	3339948	0.28	0.26	0.92
BSU32510,pucA	3339945	3340937	0.16	0.10	0.66
BSU32520,pucG	3341166	3342416	1.11	1.24	1.12
BSU32530,yurH	3342433	3343671	0.58	0.60	1.03
BSU32540,bsn	3344113	3344979	1.73	1.79	1.04
BSU32550,yurJ	3345013	3346116	1.95	2.89	1.48
BSU32560,frlR	3346238	3347026	2.71	3.04	1.12
BSU32570,frlD	3347051	3347905	0.56	0.66	1.18
BSU32580,frlM	3347919	3348821	0.06	0.07	1.23
BSU32590,frlN	3348825	3349703	0.06	0.07	1.19
BSU32600,frlO	3349761	3351029	0.09	0.11	1.15
BSU32610,frlB	3351110	3352096	0.21	0.40	1.91
BSU32620,yurQ	3352312	3352686	14.94	15.38	1.03
BSU32630,yurR	3352789	3353907	6.90	6.20	0.90
BSU32640,sspG	3354066	3354212	5.43	4.70	0.87
BSU32650,yurS	3354212	3354487	3.57	3.11	0.87
BSU32660,yurT	3354551	3354934	16.69	22.04	1.32
BSU32669,yuzN	3355045	3355323	9.39	7.50	0.80
BSU32670,sufB	3355593	3356990	86.21	75.85	0.88
BSU32680,iscU	3357011	3357454	66.36	49.49	0.75
BSU32690,sufS	3357444	3358664	60.73	42.17	0.69
BSU32700,sufD	3358664	3359977	60.25	46.64	0.77
BSU32710,sufC	3359995	3360780	41.98	33.07	0.79
BSU32719,yuzK	3360974	3361111	2.19	12.76	5.84
BSU32720,yurZ	3361305	3361682	0.52	0.97	1.85
BSU32730,metN	3361767	3362591	9.73	21.47	2.21
BSU32740,metP	3362605	3363273	7.07	8.95	1.27
BSU32750,metQ	3363266	3364291	6.36	7.76	1.22

BSU32760,yusD	3364618	3364962	0.34	1.04	3.02
BSU32770,yusE	3365069	3365389	0.63	1.66	2.65
BSU32780,yusF	3365391	3365831	0.80	2.27	2.85
BSU32790,yusG	3365831	3366067	6.77	16.54	2.44
BSU32800,yusH	3366123	3366506	14.06	24.47	1.74
BSU32810,yusI	3366573	3366929	3.29	3.82	1.16
BSU32820,fadE	3367040	3368824	3.86	3.41	0.88
BSU32830,yusK	3368839	3370014	3.10	2.51	0.81
BSU32840,fadN	3370025	3372472	2.37	1.82	0.77
BSU32849,yuzL	3372569	3372715	0.10	0.12	1.24
BSU32850,fadM	3372740	3373648	0.06	0.07	1.14
BSU32859,yuzM	3373743	3373988	0.30	0.57	1.87
BSU32860,yusN	3374001	3374333	0.41	0.69	1.69
BSU32870,yusO	3374492	3374959	1.71	1.66	0.97
BSU32880,yusP	3374956	3376581	4.55	3.01	0.66
BSU32890,yusQ	3376617	3377000	0.45	0.37	0.82
BSU32900,yusR	3377019	3377408	0.59	0.48	0.81
BSU32910,yusS	3377430	3377759	0.48	0.29	0.62
BSU32920,yusT	3377893	3378780	2.01	1.82	0.90
BSU32930,yusU	3378800	3379087	13.55	24.40	1.80
BSU32940,yusV	3379112	3379939	108.41	65.16	0.60
BSU32950,yusW	3380157	3380594	0.11	0.23	2.15
BSU32980,yusZ	3382633	3383475	0.36	0.87	2.41
BSU32990,mrgA	3383565	3384026	15.06	31.93	2.12
BSU33000,htrB	3384070	3385446	12.42	7.84	0.63
BSU33010,cssR	3385724	3386401	2.78	2.41	0.87
BSU33020,cssS	3386398	3387753	4.87	3.63	0.74
BSU33029,yuzO	3387781	3387945	2.57	4.38	1.70
BSU33030,yuxN	3388113	3388988	3.14	3.70	1.18
BSU33040,fumC	3389024	3390412	32.19	28.78	0.89
BSU33049,yvzF	3390479	3390664	6.45	5.27	0.82
BSU33050,gerAA	3390782	3392230	1.13	0.94	0.83
BSU33060,gerAB	3392199	3393296	1.26	1.01	0.81
BSU33070,gerAC	3393293	3394414	0.83	0.98	1.19
BSU33080,liaR	3394422	3395057	1.84	2.27	1.23
BSU33090,liaS	3395035	3396117	3.84	4.84	1.26
BSU33100,liaF	3396114	3396839	5.69	6.23	1.10
BSU33110,liaG	3396873	3397745	6.66	6.72	1.01
BSU33120,liaH	3397846	3398523	0.42	1.04	2.45
BSU33130,lial	3398550	3398930	0.29	0.75	2.59
BSU33140,yvqJ	3399092	3400360	0.33	0.53	1.61
BSU33150,yvqK	3400537	3401118	12.07	14.32	1.19
BSU33160,yvrA	3401141	3402469	10.75	12.36	1.15
BSU33170,yvrB	3402469	3403530	13.68	13.03	0.95
BSU33180,yvrC	3403493	3404437	11.28	7.80	0.69
BSU33190,yvrD	3404835	3405626	2.36	2.86	1.21
BSU33200,yvrE	3405664	3406542	23.45	23.72	1.01

BSU33210,yvrG	3406614	3408356	12.10	8.87	0.73
BSU33221,yvrH	3408353	3409066	4.37	4.32	0.99
BSU33222,rsoA	3409219	3409458	0.09	0.24	2.65
BSU33230,sigO	3409462	3409992	0.09	0.15	1.68
BSU33239,yvrJ	3410007	3410345	0.11	0.18	1.66
BSU33240,oxdC	3410466	3411623	0.23	0.66	2.89
BSU33250,yvrL	3411684	3412094	0.27	1.45	5.38
BSU33260,yvrN	3412128	3413357	9.01	10.86	1.21
BSU33270,yvrO	3413350	3414039	6.99	6.64	0.95
BSU33280,yvrP	3414023	3415216	4.78	4.40	0.92
BSU33290,fhuC	3415387	3416196	9.38	5.24	0.56
BSU33300,fhuG	3416212	3417222	9.64	5.20	0.54
BSU33310,fhuB	3417222	3418376	5.57	3.45	0.62
BSU33320,fhuD	3418474	3419421	10.68	8.08	0.76
BSU33330,lysP	3419656	3421065	7.97	3.17	0.40
BSU33340,sspJ	3421465	3421605	0.54	0.89	1.67
BSU33350,yvsG	3421772	3422254	3.31	1.89	0.57
BSU33360,yvgJ	3422354	3424207	5.14	4.63	0.90
BSU33370,yvgK	3424235	3425161	9.22	6.84	0.74
BSU33380,yvgL	3425272	3426054	8.27	6.35	0.77
BSU33390,yvgM	3426035	3426718	15.93	11.67	0.73
BSU33400,yvgN	3426749	3427579	5.83	6.72	1.15
BSU33410,yvgO	3427802	3428287	0.18	0.25	1.40
BSU33420,nhaK	3428331	3430343	2.96	6.89	2.33
BSU33430,yvgQ	3430598	3432313	3.63	10.26	2.82
BSU33440,cysJ	3432339	3434156	2.76	5.04	1.83
BSU33450,helD	3434327	3436651	9.27	3.75	0.41
BSU33460,yvgT	3436849	3437457	12.45	8.05	0.65
BSU33470,bdbC	3437644	3438060	12.64	10.64	0.84
BSU33480,bdbD	3438065	3438733	8.90	8.18	0.92
BSU33490,copB	3438853	3440952	10.92	13.74	1.26
BSU33500,copA	3441121	3443529	3.97	3.19	0.80
BSU33510,copZ	3443613	3443822	10.30	13.72	1.33
BSU33520,csoR	3443896	3444201	2.42	2.62	1.08
BSU33530,yvaA	3444329	3445405	2.85	3.20	1.12
BSU33540,yvaB	3445442	3446077	4.00	7.21	1.80
BSU33550,yvaC	3446237	3448132	0.23	0.18	0.77
BSU33560,yvaD	3448295	3448696	4.26	2.50	0.59
BSU33570,yvaE	3448693	3449052	5.33	3.15	0.59
BSU33580,yvaF	3449049	3449621	1.89	1.40	0.74
BSU33590,yvaG	3449732	3450526	2.43	2.04	0.84
BSU33600,smpB	3451248	3451718	9.74	11.80	1.21
BSU33610,rnr	3451863	3454202	14.16	22.03	1.56
BSU33620,yvaK	3454221	3454967	2.73	4.96	1.82
BSU33630,secG	3455093	3455323	114.06	116.38	1.02
BSU33640,yvaM	3455472	3456242	0.21	0.29	1.37
BSU33650,yvzC	3456282	3456515	0.11	0.11	1.06

BSU33660,rg hRA	3456667	3457074	2.20	1.67	0.76
BSU33670,rg hRB	3457104	3457523	2.05	1.56	0.76
BSU33680,yvaP	3457615	3457941	5.78	5.93	1.03
BSU33690,yvaQ	3458066	3459766	2.75	4.37	1.59
BSU33700,opuBD	3459806	3460486	0.58	2.59	4.48
BSU33710,opuBC	3460503	3461423	0.40	0.99	2.51
BSU33720,opuBB	3461435	3462088	0.14	0.41	3.04
BSU33730,opuBA	3462105	3463250	0.10	0.31	3.07
BSU33740,yvaV	3463534	3464067	7.66	3.46	0.45
BSU33750,sdpA	3464289	3464765	0.85	2.72	3.21
BSU33760,sdpB	3464762	3465733	0.43	1.84	4.32
BSU33770,spbC	3465776	3466387	1.05	7.12	6.80
BSU33780,sdpl	3466434	3467057	1.81	3.78	2.09
BSU33790,sdpR	3467054	3467326	1.02	3.37	3.31
BSU33800,opuCD	3467546	3468235	0.39	2.92	7.49
BSU33810,opuCC	3468253	3469164	0.40	1.87	4.64
BSU33820,opuCB	3469184	3469837	0.44	1.97	4.53
BSU33830,opuCA	3469860	3471002	0.36	1.67	4.61
BSU33840,yvbF	3471266	3471823	1.51	2.48	1.64
BSU33850,yvbG	3471841	3472476	1.25	2.34	1.87
BSU33860,yvbH	3472626	3473240	1.77	3.85	2.17
BSU33870,yvbl	3473372	3474070	1.51	5.58	3.70
BSU33880,yvbJ	3474106	3475923	3.11	4.36	1.40
BSU33890,yvbK	3476043	3476510	4.18	4.41	1.05
BSU33900,eno	3476555	3477847	80.73	56.75	0.70
BSU33910,pgm	3477877	3479412	61.65	35.00	0.57
BSU33920,tpiA	3479405	3480166	49.26	26.36	0.53
BSU33930,pgk	3480197	3481381	41.15	21.08	0.51
BSU33940,gapA	3481698	3482705	136.59	49.95	0.37
BSU33950,cggR	3482752	3483774	15.76	3.88	0.25
BSU33960,araE	3484072	3485466	1.06	0.53	0.50
BSU33970,araR	3485604	3486758	3.44	2.42	0.70
BSU33980,yvbT	3486807	3487817	4.58	4.23	0.92
BSU33990,yvbU	3487974	3488852	1.28	1.30	1.02
BSU34000,cyeB	3488952	3489869	4.63	2.38	0.51
BSU34010,yvbW	3489910	3491253	1.96	16.74	8.54
BSU34020,yvbX	3491655	3492689	0.35	4.04	11.38
BSU34030,yvbY	3492797	3493519	34.25	257.23	7.51
BSU34040,yvfW	3493519	3494958	23.30	143.36	6.15
BSU34050,yvfV	3494985	3495701	6.39	15.94	2.49
BSU34060,yvfU	3495876	3496478	1.54	2.43	1.58
BSU34070,yvfT	3496495	3497481	1.52	2.71	1.79
BSU34080,yvfS	3497614	3498351	0.10	0.13	1.30
BSU34090,yvfR	3498352	3499257	0.12	0.16	1.41
BSU34100,rsbQ	3499541	3500350	4.72	4.16	0.88
BSU34110,rsbP	3500386	3501597	6.09	4.32	0.71
BSU34120,ganB	3501651	3502940	0.41	0.23	0.57

BSU34130, ganA	3503020	3505083	0.58	0.44	0.76
BSU34140, ganQ	3505102	3505953	0.83	0.59	0.71
BSU34150, ganP	3505957	3507213	1.13	0.57	0.50
BSU34160, cycB	3507253	3508518	1.58	0.78	0.49
BSU34170, ganR	3508659	3509651	1.08	0.72	0.67
BSU34180, yvfI	3509831	3510490	2.63	3.05	1.16
BSU34190, yvfH	3510780	3512471	3.88	9.77	2.52
BSU34200, sigL	3512498	3513808	2.64	2.50	0.94
BSU34210, yvfG	3513887	3514105	2.17	1.03	0.48
BSU34220, epsO	3514115	3515083	4.99	1.76	0.35
BSU34230, epsN	3515062	3516228	4.94	1.91	0.39
BSU34240, epsM	3516233	3516883	7.28	2.74	0.38
BSU34250, epsL	3516880	3517488	8.50	3.17	0.37
BSU34265, epsK	3517485	3519002	7.80	3.01	0.39
BSU34280, epsJ	3518999	3520033	9.81	4.17	0.42
BSU34290, epsI	3520030	3521106	9.23	3.95	0.43
BSU34300, epsH	3521111	3522145	10.31	4.59	0.45
BSU34310, epsG	3522170	3523273	10.74	4.90	0.46
BSU34320, epsF	3523270	3524424	14.29	6.52	0.46
BSU34330, epsE	3524417	3525253	8.57	5.15	0.60
BSU34340, epsD	3525250	3526395	11.34	6.60	0.58
BSU34350, epsC	3526407	3528203	8.96	5.90	0.66
BSU34360, epsB	3528462	3529145	24.62	11.02	0.45
BSU34370, epsA	3529151	3529855	15.90	6.95	0.44
BSU34380, slrR	3530101	3530559	2.38	1.08	0.46
BSU34390, pnbA	3530635	3532104	7.69	3.87	0.50
BSU34400, padC	3532325	3532810	0.17	0.33	1.98
BSU34410, yveG	3532833	3533120	0.08	0.16	1.99
BSU34420, yveF	3533196	3533288	0.12	0.25	1.99
BSU34430, racX	3533419	3534102	0.57	0.39	0.69
BSU34440, pbpE	3534118	3535473	0.33	0.21	0.65
BSU34450, sacB	3536012	3537433	0.19	0.20	1.05
BSU34460, levB	3537507	3539057	0.11	0.10	0.90
BSU34470, yveA	3539165	3540727	0.27	0.39	1.47
BSU34480, yvdT	3540822	3541406	4.50	4.19	0.93
BSU34490, yvdS	3541488	3541823	1.88	1.56	0.83
BSU34500, yvdR	3541823	3542143	2.46	1.86	0.76
BSU34510, yvdQ	3542179	3542691	0.52	0.45	0.87
BSU34520, yvdP	3542943	3544286	0.62	0.40	0.65
BSU34530, cotR	3544642	3545604	0.23	0.20	0.89
BSU34540, clpP	3546234	3546827	30.89	36.36	1.18
BSU34550, pgcM	3546873	3547553	1.01	0.74	0.73
BSU34560, malL	3547550	3549235	0.67	0.42	0.63
BSU34570, yvdK	3549228	3551501	0.47	0.29	0.63
BSU34580, yvdJ	3551479	3552363	0.45	0.24	0.53
BSU34590, mdxG	3552369	3553205	0.60	0.36	0.60
BSU34600, mdxF	3553206	3554513	0.47	0.25	0.54

BSU34610,mdxE	3554553	3555806	0.38	0.23	0.60
BSU34620,mdxD	3555902	3557671	0.20	0.15	0.76
BSU34630,mdxR	3557784	3558734	0.05	0.08	1.61
BSU34640,yvdD	3558940	3559515	3.65	4.14	1.13
BSU34650,yvdC	3559632	3559952	5.86	8.90	1.52
BSU34660,yvdB	3559979	3561571	1.46	1.88	1.29
BSU34670,yvdA	3561590	3562183	0.29	0.25	0.86
BSU34680,yvcT	3562566	3563543	5.62	6.56	1.17
BSU34690,yvcS	3563581	3565521	14.59	9.68	0.66
BSU34700,yvcR	3565496	3566275	11.31	6.04	0.53
BSU34710,yvcQ	3566358	3567428	7.58	4.44	0.59
BSU34720,yvcP	3567422	3568135	3.94	3.25	0.82
BSU34729,yvzJ	3568282	3568491	0.97	0.80	0.82
BSU34730,yvcN	3568527	3569291	24.72	34.30	1.39
BSU34740,crh	3569292	3569549	25.52	39.36	1.54
BSU34750,whiA	3569573	3570523	16.10	19.94	1.24
BSU34760,yvcK	3570546	3571499	16.33	19.27	1.18
BSU34770,yvcJ	3571501	3572388	14.78	17.95	1.21
BSU34780,yvcI	3572413	3572889	10.39	10.05	0.97
BSU34790,trxB	3573207	3574157	14.38	41.02	2.85
BSU34800,cwlO	3574363	3575784	103.12	103.54	1.00
BSU34810,yvcD	3576165	3577619	9.83	6.58	0.67
BSU34820,bmrA	3577745	3579514	12.32	6.30	0.51
BSU34830,yvzA	3579679	3580038	6.16	3.07	0.50
BSU34840,yvcB	3580053	3581963	3.45	1.75	0.51
BSU34850,yvcA	3581965	3582690	1.95	1.56	0.80
BSU34860,hisl	3582936	3583565	0.30	0.45	1.47
BSU34870,hisF	3583562	3584320	0.31	0.40	1.31
BSU34880,hisA	3584317	3585054	0.23	0.32	1.38
BSU34890,hisH	3585051	3585689	0.18	0.20	1.12
BSU34900,hisB	3585690	3586274	0.12	0.16	1.32
BSU34910,hisD	3586271	3587554	0.11	0.14	1.22
BSU34920,hisG	3587551	3588192	0.10	0.13	1.36
BSU34930,hisZ	3588185	3589360	0.07	0.10	1.34
BSU34940,yvpB	3589611	3590363	2.72	3.09	1.13
BSU34950,peiC	3590603	3591268	3.98	2.28	0.57
BSU34960,yvoF	3591288	3591806	48.84	39.68	0.81
BSU34970,hprP	3591810	3592460	48.53	34.98	0.72
BSU34980,yvoD	3592457	3593395	39.61	25.69	0.65
BSU34990,igt	3593419	3594228	18.53	13.35	0.72
BSU35000,hprK	3594242	3595174	11.89	11.49	0.97
BSU35010,nagA	3595356	3596546	6.21	4.97	0.80
BSU35020,nagBA	3596543	3597271	7.43	5.21	0.70
BSU35030,yvoA	3597289	3598020	4.09	2.92	0.71
BSU35040,yvnB	3598040	3601909	1.67	2.59	1.55
BSU35050,yvnA	3602074	3602547	1.13	1.66	1.48
BSU35060,cypX	3602588	3603805	3.79	2.46	0.65

BSU35070,yvmC	3603821	3604567	2.84	0.84	0.30
BSU35080,yvmB	3604993	3605502	0.87	0.79	0.92
BSU35090,yvmA	3605523	3606734	3.40	2.43	0.71
BSU35100,yvID	3606762	3607121	20.57	16.95	0.82
BSU35110,yvIC	3607123	3607320	28.84	24.19	0.84
BSU35120,yvIB	3607325	3608422	16.95	13.42	0.79
BSU35130,yvIA	3608447	3608773	11.86	8.37	0.71
BSU35140,yvkN	3608991	3609221	1.91	3.45	1.81
BSU35150,yvzB	3609420	3609902	1.17	2.40	2.05
BSU35160,uvrA	3610064	3612937	12.14	11.74	0.97
BSU35170,uvrB	3612945	3614930	3.63	4.86	1.34
BSU35180,csbA	3615116	3615346	6.23	4.20	0.67
BSU35190,yvkC	3615793	3618288	0.39	0.29	0.75
BSU35200,yvkB	3618364	3618933	1.21	1.19	0.99
BSU35210,yvkA	3618964	3620298	2.29	1.92	0.84
BSU35220,minJ	3620346	3621539	21.54	16.27	0.76
BSU35240,ctpB	3622356	3623798	0.62	1.76	2.82
BSU35250,ftsX	3623938	3624828	62.25	55.22	0.89
BSU35260,ftsE	3624821	3625507	11.96	12.41	1.04
BSU35270,cccB	3625741	3626079	8.98	6.72	0.75
BSU35280,yvjA	3626128	3626973	5.42	1.70	0.31
BSU35290,prfB	3627139	3628240	89.37	55.06	0.62
BSU35300,secA	3628310	3630835	99.72	65.92	0.66
BSU35310,yvyD	3631003	3631572	1.17	9.85	8.42
BSU35319,yvzG	3631763	3632140	1.54	3.97	2.58
BSU35320,fliT	3632150	3632491	1.87	6.50	3.48
BSU35330,fliS	3632488	3632889	1.33	5.64	4.25
BSU35340,fliD	3632911	3634407	0.96	5.97	6.22
BSU35350,yvyC	3634425	3634754	0.39	3.15	7.99
BSU35360,hag	3634987	3635901	0.36	12.40	34.05
BSU35370,csrA	3636046	3636270	3.66	3.70	1.01
BSU35380,yviF	3636264	3636695	3.29	3.43	1.04
BSU35390,yviE	3636716	3637291	0.34	1.27	3.71
BSU35400,flgL	3637338	3638234	3.43	6.86	2.00
BSU35410,flgK	3638245	3639768	2.67	5.63	2.11
BSU35420,yvyG	3639787	3640269	2.94	5.40	1.83
BSU35430,flgM	3640285	3640551	2.06	4.05	1.97
BSU35440,yvyF	3640632	3641051	2.43	3.92	1.61
BSU35450,comFC	3641125	3641814	2.36	3.10	1.31
BSU35460,comFB	3641811	3642107	2.19	4.29	1.96
BSU35470,comFA	3642167	3643558	0.19	1.40	7.42
BSU35480,yviA	3643664	3644509	8.17	7.57	0.93
BSU35490,degU	3644607	3645296	7.54	16.41	2.18
BSU35500,degS	3645379	3646536	4.21	5.73	1.36
BSU35510,yvyE	3646753	3647406	8.20	7.92	0.97
BSU35520,yvhJ	3647406	3648581	26.15	14.89	0.57
BSU35530>tagO	3648654	3649730	20.62	17.79	0.86

BSU35540,tuaH	3649875	3651068	0.45	0.48	1.06
BSU35550,tuaG	3651097	3651855	0.68	0.59	0.87
BSU35560,tuaF	3651879	3652559	0.64	0.62	0.97
BSU35570,tuaE	3652588	3654054	0.55	0.53	0.96
BSU35580,tuaD	3654139	3655524	0.68	0.65	0.95
BSU35590,tuaC	3655586	3656755	0.81	0.86	1.06
BSU35600,tuaB	3656752	3658203	0.57	0.59	1.03
BSU35620,lytC	3659119	3660609	0.96	5.29	5.50
BSU35630,lytB	3660648	3662765	0.39	3.54	9.14
BSU35640,lytA	3662789	3663097	0.23	3.18	13.95
BSU35650,lytR	3663281	3664201	15.44	8.00	0.52
BSU35660,mnaA	3664241	3665383	14.21	8.17	0.57
BSU35670,gtaB	3665629	3666507	48.11	42.46	0.88
BSU35680,ggaB	3667209	3669911	0.01	3.51	640.96
BSU35690,ggaA	3670035	3671375	0.00	0.00	0.00
BSU35700>tagH	3673564	3675147	7.64	5.28	0.69
BSU35710>tagG	3675167	3675994	5.97	3.77	0.63
BSU35720>tagF	3676159	3678399	8.69	6.30	0.72
BSU35730>tagE	3678399	3680420	5.98	5.51	0.92
BSU35740>tagD	3680581	3680970	120.09	105.88	0.88
BSU35750>tagA	3681370	3682140	15.22	21.21	1.39
BSU35760>tagB	3682173	3683318	2.54	2.39	0.94
BSU35770>tagC	3683438	3684766	0.53	0.61	1.14
BSU35780,lytD	3684826	3687468	0.42	1.13	2.67
BSU35790,yvyl	3687597	3688547	3.17	1.77	0.56
BSU35800,gerBA	3688812	3690263	0.31	0.19	0.62
BSU35810,gerBB	3690269	3691375	0.48	0.35	0.74
BSU35820,gerBC	3691372	3692496	0.67	0.59	0.89
BSU35830,ywtG	3692533	3693906	0.35	0.97	2.80
BSU35840,ywtF	3694239	3695207	17.62	9.72	0.55
BSU35850,ywtE	3695363	3696223	10.38	9.36	0.90
BSU35860,pgdS	3696257	3697498	0.41	3.98	9.70
BSU35870,pgsE	3697639	3697806	0.74	0.86	1.16
BSU35880,pgsA	3697821	3698963	0.38	0.32	0.84
BSU35890,pgsC	3698982	3699431	0.40	0.47	1.18
BSU35900,pgsB	3699446	3700627	0.40	0.45	1.14
BSU35910,rbS	3701411	3702391	42.88	14.21	0.33
BSU35920,rbK	3702393	3703274	87.03	32.36	0.37
BSU35930,rbD	3703271	3703666	70.13	26.51	0.38
BSU35940,rbA	3703682	3705163	81.97	32.64	0.40
BSU35950,rbC	3705165	3706133	128.15	43.19	0.34
BSU35960,rbB	3706145	3707062	197.24	66.03	0.33
BSU35970,ywsB	3707144	3707680	215.39	75.72	0.35
BSU35980,ywsA	3707836	3708132	2.27	1.79	0.79
BSU35990,ywrO	3708172	3708699	12.16	11.38	0.94
BSU36000,alsD	3708799	3709566	3.46	2.89	0.84
BSU36010,alsS	3709628	3711340	2.05	1.32	0.65

BSU36020,alsR	3711498	3712406	0.55	0.98	1.79
BSU36030,ywrK	3712617	3713945	0.13	0.24	1.83
BSU36040,ywrJ	3714002	3714679	0.08	0.20	2.70
BSU36050,cotB	3714739	3715881	0.05	0.13	2.57
BSU36060,cotH	3716009	3717097	0.03	0.05	1.71
BSU36070,cotG	3717238	3717825	0.00	0.00	0.00
BSU36080,ywrF	3717999	3718616	1.21	2.35	1.94
BSU36090,ywrE	3718794	3719129	0.86	0.60	0.70
BSU36100,ywrD	3719134	3720711	0.38	0.18	0.48
BSU36110,ywrC	3720925	3721401	1.40	1.03	0.74
BSU36120,ywrB	3721415	3722008	2.34	1.35	0.58
BSU36130,ywrA	3722005	3722541	3.25	1.80	0.55
BSU36140,ywqO	3722568	3722789	4.50	2.55	0.57
BSU36150,ywqN	3722786	3723331	4.02	2.16	0.54
BSU36160,ywqM	3723454	3724335	3.21	2.01	0.63
BSU36170,ywqL	3724420	3725136	9.21	5.42	0.59
BSU36180,ywqK	3725146	3725610	7.59	5.08	0.67
BSU36190,ywqJ	3725600	3727408	5.95	2.83	0.47
BSU36200,ywqI	3727427	3727687	8.22	3.83	0.47
BSU36210,ywqH	3727697	3728119	4.59	1.98	0.43
BSU36220,ywqG	3728511	3729296	4.02	2.99	0.74
BSU36230,ywqF	3729488	3730810	5.83	3.89	0.67
BSU36240,ywqE	3731005	3731769	3.99	2.59	0.65
BSU36250,ptkA	3731822	3732535	6.70	5.65	0.84
BSU36260,ywqC	3732525	3733271	4.62	4.93	1.07
BSU36269,ywzD	3733505	3733648	2.41	1.38	0.57
BSU36270,ywqB	3733852	3735462	6.96	3.17	0.46
BSU36280,ywqA	3735449	3738217	25.08	18.80	0.75
BSU36290,ywpJ	3738343	3739200	8.06	7.84	0.97
BSU36300,glcR	3739206	3739982	5.32	4.60	0.86
BSU36310,ssbB	3740206	3740547	2.83	3.48	1.23
BSU36320,ywpG	3740624	3741007	0.44	0.57	1.28
BSU36330,ywpF	3741182	3741592	6.89	10.90	1.58
BSU36340,ywpE	3741732	3742040	1.65	1.95	1.18
BSU36350,ywpD	3742384	3743220	1.53	1.84	1.20
BSU36360,mscL	3743267	3743659	11.01	14.51	1.32
BSU36370,fabZ	3743732	3744157	18.76	13.48	0.72
BSU36380,rapD	3744349	3745413	1.28	2.06	1.61
BSU36390,flhP	3745436	3746245	3.72	7.85	2.11
BSU36400,flhO	3746279	3747091	2.56	5.21	2.04
BSU36410,mbI	3747254	3748255	45.07	26.15	0.58
BSU36420,spolIID	3748421	3748702	0.10	0.15	1.43
BSU36430,usd	3748717	3748827	0.13	0.17	1.33
BSU36440,ywoH	3749052	3749465	1.62	1.00	0.62
BSU36450,ywoG	3749487	3750677	7.69	3.58	0.47
BSU36460,ywoF	3750768	3752174	6.09	3.33	0.55
BSU36470,pucl	3752280	3753752	0.09	0.12	1.31

BSU36480,ywoD	3753933	3755291	0.68	0.47	0.70
BSU36490,ywoC	3755291	3755860	0.65	0.45	0.70
BSU36500,ywoB	3756044	3756508	0.07	0.10	1.45
BSU36510,amtB	3756790	3758004	19.76	4.92	0.25
BSU36520,glnK	3758016	3758366	24.15	7.79	0.32
BSU36530,bcrC	3758547	3759128	18.76	8.73	0.47
BSU36540,ywnJ	3759169	3759591	1.04	0.81	0.79
BSU36550,spolIQ	3759702	3760553	2.82	3.08	1.09
BSU36560,ywnH	3760694	3761185	17.33	11.95	0.69
BSU36570,ywnG	3761182	3761700	26.83	17.28	0.64
BSU36580,ywnF	3761987	3762421	4.64	8.89	1.91
BSU36590,clsA	3762664	3764112	7.88	4.16	0.53
BSU36600,mta	3764133	3764906	0.28	0.49	1.72
BSU36610,ywnC	3765051	3765434	25.52	8.60	0.34
BSU36620,ywnB	3765469	3766110	1.69	1.48	0.87
BSU36630,ywnA	3766178	3766579	6.18	5.41	0.88
BSU36640,ureC	3766714	3768423	0.63	0.51	0.80
BSU36650,ureB	3768420	3768794	0.17	0.80	4.72
BSU36660,ureA	3768791	3769108	0.00	0.00	0.00
BSU36670,csbD	3770104	3770292	0.22	4.02	17.96
BSU36680,ywmF	3770365	3770865	0.11	0.16	1.46
BSU36690,rapB	3771000	3772133	5.35	6.36	1.19
BSU36700,moaA	3772325	3773350	8.00	10.73	1.34
BSU36710,fdhD	3773366	3774154	4.09	3.90	0.95
BSU36720,ywmE	3774400	3774561	0.92	3.17	3.44
BSU36730,ywmD	3774655	3775329	0.38	0.39	1.03
BSU36740,ywmC	3775653	3776336	0.21	0.48	2.32
BSU36750,spolID	3776722	3777753	2.47	8.73	3.53
BSU36760,murAA	3777949	3779259	233.24	59.60	0.26
BSU36770,ywmB	3779293	3780033	19.45	6.66	0.34
BSU36780,ywzB	3780162	3780392	1.89	2.23	1.18
BSU36790,ywmA	3780562	3781035	1.43	1.01	0.71
BSU36800,atpC	3781069	3781467	228.51	110.65	0.48
BSU36810,atpD	3781491	3782912	195.58	90.45	0.46
BSU36820,atpG	3782938	3783801	105.69	48.93	0.46
BSU36830,atpA	3783878	3785386	132.29	65.91	0.50
BSU36840,atpH	3785403	3785948	81.06	48.15	0.59
BSU36850,atpF	3785945	3786457	75.46	49.44	0.66
BSU36860,atpE	3786620	3786832	186.26	93.88	0.50
BSU36870,atpB	3786878	3787612	53.26	34.35	0.64
BSU36880,atpI	3787620	3788003	27.26	15.62	0.57
BSU36890,upp	3788426	3789055	30.26	27.50	0.91
BSU36900,glyA	3789190	3790437	23.67	51.78	2.19
BSU36910,ywlG	3790644	3791186	40.49	50.53	1.25
BSU36920,ywlF	3791199	3791648	37.18	42.74	1.15
BSU36930,ywlE	3791805	3792257	5.86	5.33	0.91
BSU36940,ywlD	3792333	3792890	1.95	2.10	1.08

BSU36950,ywIC	3792969	3794009	10.43	7.39	0.71
BSU36960,ywIB	3794166	3794609	1.07	0.89	0.83
BSU36970,spolIR	3794676	3795350	0.60	0.52	0.88
BSU36980,ywIA	3795491	3795853	8.27	6.04	0.73
BSU36990,ywkF	3795870	3796157	8.71	7.77	0.89
BSU37000,prmC	3796217	3797083	9.65	7.10	0.74
BSU37010,prfA	3797085	3798155	36.91	20.14	0.55
BSU37020,ywkD	3798281	3798667	1.21	1.51	1.25
BSU37030,racA	3798789	3799343	1.91	2.29	1.19
BSU37040,ywkB	3799377	3800336	2.25	2.29	1.02
BSU37050,ywkA	3800418	3802166	1.02	1.17	1.15
BSU37060,tdk	3802405	3802992	1.78	1.78	1.00
BSU37070,rpmE	3803081	3803281	246.48	133.65	0.54
BSU37080,rho	3803400	3804683	19.51	11.74	0.60
BSU37090,glpX	3805090	3806055	58.03	56.79	0.98
BSU37100,murAB	3806086	3807375	33.97	29.37	0.86
BSU37110,ywjH	3807754	3808392	71.54	98.67	1.38
BSU37120,fbaA	3808512	3809369	127.75	104.73	0.82
BSU37130,spoOF	3809550	3809924	2.54	3.71	1.46
BSU37140,ywjG	3810090	3810611	2.35	2.34	1.00
BSU37150,pyrG	3810693	3812300	55.65	14.23	0.26
BSU37160,rpoE	3812542	3813063	62.67	43.76	0.70
BSU37170,acdA	3813246	3814385	2.60	2.15	0.82
BSU37180,fadF	3814382	3816499	1.95	1.49	0.76
BSU37190,clsB	3816654	3817850	0.08	0.10	1.22
BSU37200,uvrE	3817863	3818825	0.10	0.19	2.03
BSU37210,ywjC	3818906	3819178	0.19	1.33	7.03
BSU37220,ywjB	3819220	3819744	31.21	31.49	1.01
BSU37230,ywjA	3819754	3821481	19.76	17.78	0.90
BSU37240,ywiE	3821570	3823072	0.54	1.63	3.04
BSU37250,narI	3823558	3824229	0.23	0.39	1.69
BSU37260,narJ	3824226	3824780	0.18	0.19	1.05
BSU37270,narH	3824806	3826269	0.14	0.13	0.96
BSU37280,narG	3826259	3829945	0.08	0.08	1.00
BSU37290,arfM	3830141	3830617	0.05	0.06	1.33
BSU37300,ywiC	3830761	3831480	0.93	0.89	0.96
BSU37310,fnr	3831512	3832228	0.80	1.91	2.39
BSU37320,narK	3832327	3833514	0.30	1.34	4.47
BSU37330,argS	3833650	3835320	60.87	68.10	1.12
BSU37340,ywiB	3835317	3835745	12.05	16.05	1.33
BSU37350,sboA	3836058	3836189	0.31	0.49	1.60
BSU37360,sboX	3836146	3836298	0.00	0.00	0.00
BSU37370,albA	3836323	3837669	1.24	1.14	0.92
BSU37380,albB	3837682	3837843	2.48	2.53	1.02
BSU37390,albC	3837840	3838559	1.32	1.52	1.15
BSU37400,albD	3838552	3839862	1.11	1.09	0.98
BSU37410,albE	3839852	3841012	0.37	0.49	1.33

BSU37420,albF	3841017	3842297	0.21	0.31	1.45
BSU37430,albG	3842294	3842995	0.24	0.40	1.65
BSU37440,ywhL	3843001	3844377	0.15	0.17	1.10
BSU37450,ywhK	3844416	3845771	0.11	0.13	1.15
BSU37460,rapF	3846001	3847146	1.60	3.88	2.43
BSU37470,phrF	3847130	3847249	6.83	13.27	1.94
BSU37480,ywhH	3847348	3847821	0.67	0.88	1.32
BSU37490,speB	3847853	3848725	22.35	12.68	0.57
BSU37500,speE	3848786	3849616	21.47	13.16	0.61
BSU37510,pbpG	3849818	3851893	0.44	0.41	0.95
BSU37520,ywhD	3852186	3852704	22.08	21.70	0.98
BSU37530,ywhC	3852718	3853377	17.75	14.53	0.82
BSU37540,ywhB	3853486	3853674	12.25	12.92	1.06
BSU37550,ywhA	3853717	3854136	9.90	7.01	0.71
BSU37560,thrZ	3854256	3856172	0.16	0.26	1.61
BSU37570,mmr	3857017	3858417	8.58	4.84	0.56
BSU37580,ywgB	3858417	3858887	2.77	1.46	0.53
BSU37590,ywgA	3858999	3859499	8.69	17.55	2.02
BSU37600,ywfO	3859535	3860836	8.58	9.59	1.12
BSU37610,ywzC	3860998	3861222	11.80	5.42	0.46
BSU37620,rsfA	3861437	3862213	1.15	1.03	0.90
BSU37630,ywfM	3862357	3863247	0.66	0.99	1.50
BSU37640,ywfL	3863415	3864260	9.27	8.08	0.87
BSU37650,cysL	3864309	3865208	2.30	2.50	1.09
BSU37660,eutD	3865355	3866326	25.44	37.76	1.48
BSU37670,ywfI	3866611	3867360	11.72	13.36	1.14
BSU37680,ywfH	3867493	3868272	0.35	1.19	3.38
BSU37690,ywfG	3868287	3869486	1.13	2.52	2.23
BSU37700,bacE	3869487	3870671	0.89	1.47	1.64
BSU37710,bacD	3870668	3872086	0.73	1.45	1.98
BSU37720,bacC	3872105	3872872	0.29	1.07	3.64
BSU37730,bacB	3872869	3873576	0.28	1.03	3.76
BSU37740,bacA	3873566	3874180	0.10	0.47	4.86
BSU37750,ywfA	3874332	3875570	0.15	0.11	0.72
BSU37760,rocC	3875780	3877192	0.41	0.25	0.61
BSU37770,rocB	3877192	3878892	0.19	0.10	0.51
BSU37780,rocA	3878966	3880513	14.21	1.72	0.12
BSU37790,rocG	3880740	3882014	4.65	0.65	0.14
BSU37800,yweA	3882191	3882655	37.32	38.12	1.02
BSU37810,spsL	3882979	3883434	0.26	0.24	0.93
BSU37820,spsK	3883427	3884278	0.52	0.46	0.90
BSU37830,spsJ	3884292	3885239	0.55	0.51	0.94
BSU37840,spsI	3885239	3885979	0.39	0.36	0.91
BSU37850,spsG	3886004	3887023	0.11	0.12	1.03
BSU37860,spsF	3887026	3887748	0.14	0.14	1.04
BSU37870,spsE	3887741	3888862	0.16	0.16	1.01
BSU37880,spsD	3888862	3889731	0.17	0.18	1.04

BSU37890,spsC	3889732	3890901	0.18	0.20	1.12
BSU37900,spsB	3890922	3892346	0.14	0.22	1.59
BSU37910,spsA	3892351	3893121	0.11	0.13	1.18
BSU37920,ywdL	3893441	3893986	0.20	0.27	1.36
BSU37930,ywdK	3894030	3894401	15.96	11.55	0.72
BSU37940,ywdJ	3894463	3895785	7.93	5.55	0.70
BSU37950,ywdI	3895805	3896161	4.54	3.45	0.76
BSU37960,ywdH	3896290	3897660	1.72	2.23	1.30
BSU37970,ung	3897685	3898362	7.40	5.33	0.72
BSU37980,ywdF	3898376	3899182	5.91	4.62	0.78
BSU37990,ywdE	3899272	3899805	2.68	2.78	1.04
BSU38000,ywdD	3899853	3900488	1.86	2.17	1.17
BSU38018,ywzG	3900481	3900819	2.18	2.35	1.08
BSU38020,thiD	3900963	3901778	21.65	22.46	1.04
BSU38030,ywdA	3901868	3902116	13.52	44.35	3.28
BSU38040,sacA	3902210	3903649	11.74	37.00	3.15
BSU38050,sacP	3903646	3905031	8.08	22.85	2.83
BSU38060,ywcJ	3905333	3906103	0.43	1.99	4.58
BSU38070,sacT	3906142	3906972	1.48	3.59	2.43
BSU38080,ywcl	3907012	3907314	0.11	0.28	2.60
BSU38090,vpr	3907844	3910264	0.70	0.65	0.93
BSU38100,ywcH	3910302	3911303	0.85	1.00	1.17
BSU38110,nfrA	3911477	3912226	3.23	3.68	1.14
BSU38120,rodA	3912332	3913513	14.04	7.33	0.52
BSU38130,ywcE	3914009	3914272	2.09	2.81	1.34
BSU38140,qoxD	3914315	3914689	179.28	138.63	0.77
BSU38150,qoxC	3914691	3915305	78.44	64.22	0.82
BSU38160,qoxB	3915319	3917268	43.92	43.68	0.99
BSU38170,qoxA	3917296	3918261	39.29	43.34	1.10
BSU38180,ywzA	3918777	3919022	0.90	3.96	4.38
BSU38190,gatT	3919093	3920634	17.97	15.13	0.84
BSU38200,gatK	3920638	3921810	8.07	4.49	0.56
BSU38210,ywcD	3921891	3922274	1.61	1.29	0.80
BSU38220,ywcC	3922292	3922963	0.97	1.50	1.55
BSU38229,slrA	3923319	3923477	8.23	5.13	0.62
BSU38230,ywcB	3923920	3924228	2.48	0.94	0.38
BSU38240,ywcA	3924225	3925766	3.30	1.18	0.36
BSU38250,ywbO	3925797	3926399	3.52	4.74	1.35
BSU38260,efeN	3926682	3927932	32.02	27.41	0.86
BSU38270,efeM	3927951	3929108	29.21	22.14	0.76
BSU38280,efeU	3929105	3930550	14.81	12.83	0.87
BSU38290,thiE	3930707	3931375	5.72	6.36	1.11
BSU38300,thiM	3931372	3932190	6.26	5.70	0.91
BSU38310,ywbl	3932198	3933103	2.82	1.89	0.67
BSU38320,ywbH	3933209	3933595	2.46	2.67	1.08
BSU38330,lrgB	3933577	3934254	8.50	7.51	0.88
BSU38340,ywbF	3934358	3935557	1.67	2.14	1.28

BSU38350,ywbE	3935591	3935788	2.77	7.96	2.88
BSU38360,ywbD	3935824	3937014	9.88	7.05	0.71
BSU38370,ywbC	3937135	3937515	18.14	25.40	1.40
BSU38380,ywbB	3937553	3938230	0.40	0.48	1.20
BSU38390,ywbA	3938307	3939641	0.38	0.31	0.82
BSU38400,epr	3939869	3941806	0.37	1.63	4.39
BSU38410,sacX	3942234	3943613	0.77	0.66	0.85
BSU38420,sacY	3943667	3944509	1.22	1.10	0.90
BSU38430,gspA	3944560	3945420	0.40	6.20	15.38
BSU38440,ywaF	3945530	3946243	0.45	0.31	0.69
BSU38450,ywaE	3946394	3946909	5.00	4.60	0.92
BSU38460,tyrZ	3947158	3948399	0.53	0.45	0.84
BSU38470,ywaD	3948555	3949922	0.30	0.55	1.83
BSU38480,ywaC	3949952	3950584	3.74	6.85	1.83
BSU38490,menA	3950726	3951661	35.95	19.36	0.54
BSU38499,ywzH	3952108	3952257	10.37	5.63	0.54
BSU38500,dltA	3952275	3953786	28.09	13.16	0.47
BSU38510,dltB	3953783	3954970	29.54	13.48	0.46
BSU38520,dltC	3954987	3955223	45.75	22.01	0.48
BSU38530,dltD	3955223	3956401	37.02	16.19	0.44
BSU38540,dltE	3956492	3957250	50.19	23.10	0.46
BSU38550,ywaA	3957391	3958482	4.86	18.97	3.91
BSU38560,licH	3958516	3959844	6.39	10.88	1.70
BSU38570,licA	3959841	3960173	7.07	11.07	1.57
BSU38580,licC	3960192	3961550	4.61	7.48	1.62
BSU38590,licB	3961566	3961874	3.70	5.63	1.52
BSU38600,licR	3962003	3963928	1.74	2.61	1.50
BSU38610,yxzF	3964091	3964249	1.05	1.41	1.34
BSU38620,yxIJ	3964278	3964868	0.69	1.01	1.46
BSU38630,katX	3964997	3966640	0.20	0.39	1.98
BSU38640,yxIH	3966745	3967947	1.30	0.79	0.61
BSU38650,yxIG	3967944	3968720	1.38	0.96	0.70
BSU38660,yxIF	3968717	3969604	1.00	0.82	0.82
BSU38670,yxIE	3969611	3969799	1.06	0.94	0.89
BSU38680,yxID	3969796	3970002	1.12	0.95	0.85
BSU38690,yxIC	3969999	3970319	0.93	0.86	0.92
BSU38700,sigY	3970312	3970848	0.93	3.78	4.06
BSU38710,yxIA	3971060	3972433	2.93	2.25	0.77
BSU38720,yxkO	3972448	3973278	0.61	1.34	2.19
BSU38730,cydD	3973364	3975091	0.97	1.79	1.85
BSU38740,cydC	3975088	3976791	0.67	1.47	2.20
BSU38750,cydB	3976791	3977807	0.41	1.07	2.63
BSU38760,cydA	3977791	3979197	0.32	0.76	2.34
BSU38770,cimH	3979753	3981105	0.09	0.17	1.90
BSU38780,yxkI	3981227	3982915	2.51	1.69	0.68
BSU38790,yxzE	3982973	3983173	4.74	4.21	0.89
BSU38800,yxkH	3983187	3984026	0.81	0.71	0.87

BSU38810,msmX	3984133	3985230	6.06	3.88	0.64
BSU38820,yxkF	3985351	3986244	1.90	1.47	0.77
BSU38830,aldY	3986428	3987885	0.34	0.56	1.67
BSU38840,yxkD	3987927	3988763	10.45	5.58	0.53
BSU38850,yxkC	3989232	3989873	0.63	6.94	10.93
BSU38860,galE	3989948	3990967	30.13	28.94	0.96
BSU38870,yxkA	3991082	3991588	0.25	0.30	1.19
BSU38880,yxjO	3991718	3992593	1.37	1.73	1.26
BSU38890,yxjN	3992671	3993144	2.00	2.34	1.17
BSU38900,yxjM	3993162	3994382	1.07	1.39	1.30
BSU38910,yxjL	3994369	3995025	0.52	1.27	2.41
BSU38920,pepT	3995075	3996307	6.68	9.38	1.40
BSU38930,yxjJ	3996829	3997092	0.04	0.62	13.88
BSU38940,yxjI	3997221	3997709	1.20	0.57	0.48
BSU38950,yxjH	3997964	3999097	0.53	3.20	6.05
BSU38960,yxjG	3999350	4000486	0.30	4.38	14.52
BSU38970,yxjF	4000539	4001312	0.71	0.66	0.93
BSU38980,scoB	4001329	4001979	0.42	0.33	0.79
BSU38990,scoA	4001976	4002692	0.26	0.19	0.71
BSU39000,yxjC	4002716	4004134	0.16	0.09	0.58
BSU39010,yxjB	4004288	4005136	4.70	2.77	0.59
BSU39020,yxjA	4005752	4006945	158.33	49.23	0.31
BSU39040,yxiS	4007803	4008093	9.12	11.91	1.31
BSU39050,katE	4008143	4010203	0.25	1.05	4.18
BSU39060,citH	4010404	4011684	0.14	0.18	1.24
BSU39070,bglS	4011842	4012570	2.06	2.51	1.22
BSU39080,licT	4012866	4013699	4.93	5.22	1.06
BSU39090,yxiP	4013795	4014475	2.84	2.52	0.89
BSU39100,yxiO	4014682	4015968	1.48	2.44	1.66
BSU39110,deaD	4015987	4017426	5.82	4.61	0.79
BSU39120,yxiM	4017508	4018656	0.85	0.79	0.93
BSU39139,yxzJ	4019005	4019136	1.49	1.32	0.89
BSU39140,yxiK	4019148	4019609	1.08	0.94	0.87
BSU39150,yxiJ	4019625	4019921	0.90	0.77	0.86
BSU39160,yxiI	4019949	4020437	0.87	0.65	0.74
BSU39170,yxzG	4020455	4020907	0.94	0.73	0.77
BSU39180,yxiH	4020977	4021306	0.89	0.75	0.84
BSU39190,yxiG	4021429	4021845	0.61	0.51	0.84
BSU39200,yxzC	4021896	4022264	0.57	0.44	0.78
BSU39210,yxiF	4022258	4022728	0.55	0.46	0.84
BSU39220,yxxG	4023054	4023482	4.38	5.24	1.20
BSU39230,wapA	4023544	4030548	3.33	3.01	0.90
BSU39240,yxxF	4030710	4031645	0.80	0.82	1.03
BSU39250,yxiE	4031797	4032243	19.72	55.90	2.83
BSU39260,bglH	4032346	4033755	14.09	47.36	3.36
BSU39270,bglP	4033778	4035607	12.24	54.28	4.44
BSU39280,yxxE	4035990	4036298	10.60	7.93	0.75

BSU39290,yxxD	4036344	4036787	9.30	7.70	0.83
BSU39300,yxiD	4036784	4038493	3.15	2.44	0.78
BSU39310,yxiC	4038513	4038782	3.99	2.82	0.71
BSU39320,yxiB	4038794	4039159	2.77	1.57	0.57
BSU39330,abnB	4039466	4040875	0.07	0.17	2.34
BSU39339,yxzL	4041009	4041173	0.04	0.09	2.12
BSU39340,hutP	4041483	4041938	0.60	0.44	0.73
BSU39350,hutH	4042051	4043577	0.04	0.07	1.61
BSU39360,hutU	4043574	4045232	0.08	0.10	1.19
BSU39370,hutI	4045245	4046510	0.14	0.18	1.29
BSU39380,hutG	4046503	4047462	0.22	0.21	0.94
BSU39390,hutM	4047538	4048965	0.14	0.28	2.01
BSU39400,pdp	4049009	4050310	63.68	34.94	0.55
BSU39410,nupC	4050340	4051521	49.50	25.12	0.51
BSU39420,deoC	4051602	4052273	23.81	14.21	0.60
BSU39430,deoR	4052379	4053320	2.71	4.62	1.71
BSU39440,yxxB	4053454	4054281	0.94	0.91	0.96
BSU39450,yxeR	4054354	4055466	2.02	1.49	0.74
BSU39460,yxeQ	4055536	4056873	0.72	0.44	0.61
BSU39470,yxeP	4056870	4058012	1.09	0.64	0.58
BSU39480,yxeO	4058029	4058778	1.23	0.65	0.53
BSU39490,yxeN	4058791	4059465	1.49	0.81	0.54
BSU39500,yxeM	4059488	4060282	1.81	0.85	0.47
BSU39510,yxeL	4060307	4060804	1.82	0.64	0.35
BSU39520,yxeK	4060818	4062143	1.90	0.66	0.35
BSU39530,yxeJ	4062329	4062556	0.15	0.20	1.35
BSU39540,yxeI	4062543	4063529	0.50	0.62	1.25
BSU39550,yxeH	4063684	4064496	6.16	6.19	1.00
BSU39560,yxeG	4064536	4065093	1.41	1.08	0.77
BSU39570,yxeF	4065074	4065508	1.29	0.94	0.72
BSU39580,yxeE	4065597	4065962	2.14	1.30	0.61
BSU39590,yxeD	4066210	4066563	0.14	0.51	3.62
BSU39600,yxeC	4066607	4067005	1.41	3.51	2.50
BSU39610,yxeB	4067183	4068148	11.82	6.54	0.55
BSU39620,yxeA	4068189	4068536	1.27	1.01	0.80
BSU39630,yxdM	4068550	4070418	0.90	0.78	0.86
BSU39640,yxdL	4070393	4071166	0.39	0.30	0.76
BSU39650,yxdK	4071310	4072287	6.84	4.44	0.65
BSU39660,yxdJ	4072284	4072973	3.91	3.16	0.81
BSU39670,iolJ	4073081	4073953	1.42	1.57	1.11
BSU39680,iolI	4073974	4074810	1.33	1.33	1.00
BSU39690,iolH	4074896	4075765	3.50	3.02	0.86
BSU39700,iolG	4075785	4076819	3.67	2.95	0.80
BSU39710,iolF	4076842	4078158	2.82	2.17	0.77
BSU39720,iolE	4078173	4079066	2.43	2.25	0.93
BSU39730,iolD	4079083	4080996	1.15	2.03	1.77
BSU39740,iolC	4081029	4082006	1.09	1.20	1.11

BSU39750,iolB	4082030	4082845	0.94	0.88	0.93
BSU39760,mmsA	4082920	4084383	1.33	1.06	0.80
BSU39770,iolR	4084799	4085554	9.88	7.27	0.74
BSU39780,iolS	4085608	4086540	20.48	19.60	0.96
BSU39790,yxcE	4086802	4087452	4.64	4.15	0.89
BSU39800,yxcD	4087456	4087764	5.93	4.88	0.82
BSU39810,csbC	4088002	4089387	0.82	3.31	4.04
BSU39820,htpG	4089429	4091309	22.77	11.15	0.49
BSU39830,yxcA	4091477	4091728	4.51	3.70	0.82
BSU39840,yxbG	4091845	4092666	0.52	1.64	3.17
BSU39850,yxbF	4092695	4093837	4.16	2.82	0.68
BSU39860,aldX	4093980	4095317	0.83	0.56	0.67
BSU39870,yxbD	4095356	4095835	0.26	0.19	0.72
BSU39880,yxbC	4095915	4096907	0.25	0.25	1.00
BSU39890,yxbB	4097416	4098150	0.00	0.00	0.00
BSU39900,aslA	4098150	4098419	0.10	0.12	1.27
BSU39910,yxnB	4098423	4098905	0.09	0.11	1.19
BSU39920,asnH	4098926	4101169	0.28	0.20	0.72
BSU39930,yxaM	4101166	4102365	0.58	0.38	0.66
BSU39940,yxaL	4102429	4103661	1.67	0.91	0.55
BSU39950,yxaJ	4103762	4104187	0.31	0.37	1.17
BSU39960,yxaI	4104444	4104899	1.97	5.21	2.64
BSU39970,yxaH	4104929	4106137	5.51	4.63	0.84
BSU39980,qodI	4106245	4107258	4.05	3.40	0.84
BSU39990,yxaF	4107352	4107927	3.18	1.41	0.44
BSU40000,yxnA	4108058	4109128	1.33	1.44	1.08
BSU40010,yxaD	4109185	4109616	4.65	3.37	0.73
BSU40021,yxzK	4109843	4110247	1.09	0.97	0.90
BSU40022,yxaC	4110217	4110909	3.18	3.42	1.08
BSU40030,yxaB	4110949	4111980	4.64	2.91	0.63
BSU40040,glxK	4112073	4113221	2.23	1.36	0.61
BSU40050,gntR	4113417	4114148	1.60	1.07	0.67
BSU40060,gntK	4114141	4115682	4.39	2.85	0.65
BSU40070,gntP	4115711	4117057	12.71	8.17	0.64
BSU40080,gntZ	4117080	4118486	26.29	16.40	0.62
BSU40090,ahpC	4118950	4119513	48.72	53.65	1.10
BSU40100,ahpF	4119527	4121056	53.60	54.43	1.02
BSU40110,bglA	4121166	4122605	2.90	2.07	0.71
BSU40120,yyzE	4122619	4122849	0.87	0.49	0.56
BSU40130,yydK	4123193	4123903	2.86	1.95	0.68
BSU40139,yyzN	4123931	4124089	4.38	2.79	0.64
BSU40140,yydJ	4124220	4124942	1.56	3.72	2.39
BSU40150,yydI	4124963	4125592	1.27	4.72	3.73
BSU40160,yydH	4125742	4126500	0.77	2.49	3.23
BSU40170,yydG	4126481	4127440	0.17	0.44	2.53
BSU40180,yydF	4127498	4127647	0.99	2.38	2.39
BSU40190,fbp	4128029	4130044	2.58	2.08	0.81

BSU40200,yydD	4130578	4132338	0.90	2.82	3.13
BSU40210,yydC	4132338	4132736	0.74	2.63	3.57
BSU40220,yydB	4132729	4134174	0.78	3.05	3.91
BSU40230,yydA	4134436	4134915	1.06	1.87	1.76
BSU40239,yyzF	4134996	4135166	1.05	1.79	1.71
BSU40240,yycS	4135351	4135764	0.68	0.51	0.75
BSU40250,yycR	4135798	4137024	0.38	0.96	2.50
BSU40259,yyzG	4137087	4137257	0.08	0.16	2.02
BSU40260,yycQ	4137362	4137610	0.06	0.15	2.30
BSU40270,yycP	4137626	4138789	0.11	0.10	0.96
BSU40280,yycO	4138800	4139537	0.11	0.09	0.82
BSU40290,yycN	4139679	4140149	0.75	0.98	1.30
BSU40300,rapG	4140260	4141357	7.80	6.04	0.77
BSU40310,phrG	4141358	4141474	10.80	17.96	1.66
BSU40320,argI	4141711	4142601	10.14	8.10	0.80
BSU40330,rocE	4142675	4144078	3.67	2.99	0.81
BSU40340,rocD	4144301	4145506	1.21	2.16	1.78
BSU40350,rocR	4145747	4147132	2.33	3.62	1.55
BSU40360,htrC	4147567	4148769	45.36	22.88	0.50
BSU40370,yycJ	4148851	4149645	35.67	17.67	0.50
BSU40380,yycI	4149667	4150509	27.99	15.37	0.55
BSU40390,walH	4150496	4151863	19.40	9.92	0.51
BSU40400,walK	4151853	4153688	9.73	5.31	0.55
BSU40410,walR	4153696	4154403	7.81	5.33	0.68
BSU40420,purA	4155433	4156725	5.59	2.74	0.49
BSU40430,yycE	4156931	4157350	0.43	0.33	0.77
BSU40440,dnaC	4157471	4158835	5.35	2.39	0.45
BSU40450,yycD	4159005	4159205	0.28	0.67	2.34
BSU40460,yyzB	4159253	4159456	0.21	0.13	0.60
BSU40470,yycC	4159577	4159717	6.92	9.01	1.30
BSU40480,yycB	4159790	4160998	12.47	10.00	0.80
BSU40490,yycA	4161103	4163160	3.01	2.48	0.82
BSU40500,rpII	4163197	4163646	10.87	9.84	0.91
BSU40510,yybT	4163643	4165622	4.43	2.89	0.65
BSU40520,yybS	4165659	4166588	2.65	1.84	0.69
BSU40529,yyzH	4166815	4166964	0.49	1.15	2.34
BSU40530,cotF	4167110	4167592	0.61	0.55	0.90
BSU40540,yybR	4167622	4167999	5.61	3.24	0.58
BSU40550,ppaC	4168204	4169133	76.35	44.51	0.58
BSU40560,yybP	4169166	4169612	0.18	0.64	3.65
BSU40570,yybO	4170045	4171352	0.22	0.29	1.31
BSU40580,yybN	4173114	4173551	30.72	36.10	1.18
BSU40590,yybM	4173665	4174420	1.18	5.59	4.73
BSU40600,yybL	4174410	4175120	0.72	3.47	4.83
BSU40610,yybK	4175117	4175872	0.82	3.25	3.95
BSU40620,yybJ	4175869	4176525	1.81	4.65	2.58
BSU40630,yybI	4176900	4177688	0.38	0.52	1.40

BSU40640,yybH	4177756	4178145	0.29	0.43	1.47
BSU40650,yybG	4178291	4179130	4.36	3.37	0.77
BSU40660,yybF	4179163	4180377	5.45	4.03	0.74
BSU40670,yybE	4180564	4181442	1.53	1.08	0.70
BSU40680,yybD	4181456	4181899	3.30	1.87	0.57
BSU40690,yybC	4181982	4182461	2.98	1.52	0.51
BSU40700,yybB	4182636	4183298	3.66	3.31	0.90
BSU40710,yybA	4183445	4183897	1.82	1.61	0.88
BSU40720,yyaT	4184017	4184463	0.94	0.68	0.72
BSU40730,yyaS	4184460	4185065	1.20	0.74	0.62
BSU40740,yyaR	4185160	4185681	0.22	0.41	1.83
BSU40750,yyaQ	4186092	4186448	2.11	3.22	1.52
BSU40760,yyaP	4186608	4187174	2.11	2.69	1.27
BSU40770,tetB	4187681	4189057	4.19	3.60	0.86
BSU40780,tetL	4189091	4189153	3.83	5.04	1.32
BSU40790,yyaO	4189406	4189645	0.45	0.87	1.93
BSU40800,yyaN	4189796	4190212	0.10	0.20	2.06
BSU40810,yyaM	4190209	4191126	0.22	0.37	1.64
BSU40820,yyaL	4191198	4193267	5.99	5.62	0.94
BSU40830,yyaK	4193264	4194163	13.72	12.87	0.94
BSU40840,yyaJ	4194389	4195744	1.11	1.25	1.13
BSU40850,maa	4195778	4196332	1.28	1.93	1.51
BSU40860,yyaH	4196350	4196730	0.93	1.12	1.21
BSU40870,ccpB	4196786	4197721	0.87	1.33	1.53
BSU40880,exoAA	4197780	4198538	0.43	0.32	0.76
BSU40890,rpsR	4198603	4198842	1493.65	1676.22	1.12
BSU40900,ssbA	4198886	4199404	1459.29	1382.31	0.95
BSU40910,rpsF	4199445	4199732	205.46	103.94	0.51
BSU40920,yyaF	4199843	4200943	34.72	23.97	0.69
BSU40930,yyaE	4201070	4203073	2.98	3.02	1.01
BSU40939,yyzM	4203124	4203330	1.36	2.12	1.55
BSU40940,yyaD	4203424	4204440	0.08	0.07	0.94
BSU40950,yyaC	4204900	4205517	0.63	1.33	2.11
BSU40960,parB	4205556	4206404	6.91	8.96	1.30
BSU40970,parA	4206397	4207158	6.02	8.35	1.39
BSU40980,yyaB	4207406	4207846	0.29	0.71	2.48
BSU40990,noc	4207897	4208748	18.29	10.96	0.60
BSU41000,gidB	4208870	4209589	17.58	9.33	0.53
BSU41010,gidA	4209603	4211489	19.21	11.41	0.59
BSU41020,trmE	4211510	4212889	16.08	10.05	0.63
BSU41030,jag	4213200	4213826	76.43	35.23	0.46
BSU41040,spolIJ	4213823	4214608	48.21	27.47	0.57
BSU41050,rnpA	4214753	4215103	12.18	6.41	0.53
BSU41060,rpmH	4215255	4215389	195.71	101.80	0.52

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