

Supplementary Table 13: Comparison of TUs to the previously experimentally determined TUs.

TU-Exp ID	Promoter	TU	Detection	Note
TU-Exp-0001	ygbAp	ygbA	Detected	
TU-Exp-0002	micAp	micA	Detected	
TU-Exp-0003	psrOp	psrO	Detected	
TU-Exp-0004	ryeAp	ryeA	Detected	
TU-Exp-0005	rhyAp	ryhA	Detected	
TU-Exp-0006	syjAp	ryjA	Detected	
TU-Exp-0007	sraAp	sraA	Detected	
TU-Exp-0008	accBp	accB;accC	Detected	
TU-Exp-0009	aceKp	aceK	Detected	
TU-Exp-0010	alkBp	alkB		TSS
TU-Exp-0011	adiAp	adiA	Detected	
TU-Exp-0012	adrAp	adrA	Detected	
TU-Exp-0013	aeSp	aes	Detected	
TU-Exp-0014	agpp	agp	Detected	
TU-Exp-0015	alaWp	alaX;alaW	Detected	
TU-Exp-0016	allAp	allA	Detected	
TU-Exp-0017	allRp	allR	Detected	
TU-Exp-0018	allSp	allS	Detected	
TU-Exp-0019	ampCp	ampC	Detected	
TU-Exp-0020	amyAp	amyA	Detected	
TU-Exp-0021	argUp	argU	Detected	
TU-Exp-0022	argWp	argW	Detected	
TU-Exp-0023	aroGp	aroG	Detected	
TU-Exp-0024	aroHp1	aroH	Detected	
TU-Exp-0025	aroHp2	aroH	Detected	
TU-Exp-0026	artJp	artJ	Detected	
TU-Exp-0027	artPp2	artM;artQ;artI;artP	Detected	
TU-Exp-0028	artPp3	artM;artQ;artI;artP	Detected	
TU-Exp-0029	artPp1	artM;artQ;artI;artP	Detected	
TU-Exp-0030	artPp	artM;artQ;artI;artP	Detected	
TU-Exp-0031	aspSp	aspS		Boundary
TU-Exp-0032	aspVp	aspV	Detected	
TU-Exp-0033	asrp	asr	Detected	
TU-Exp-0034	atpBp1	atpC;atpD;atpG;atpA;atpH;atpF;atpE;atpB		TSS
TU-Exp-0035	hlpAp	hlpA;lpxD;fabZ;lpxA		TSS
TU-Exp-0036	srap	sra	Detected	
TU-Exp-0037	bgIXp	bgIX	Detected	
TU-Exp-0038	blcp	blc	Detected	
TU-Exp-0039	bolAp1	bolA	Detected	
TU-Exp-0040	bolAp2	bolA	Detected	
TU-Exp-0041	cdhp	cdh	Detected	
TU-Exp-0042	cedAp	cedA	Detected	
TU-Exp-0043	chiAp	chiA	Detected	
TU-Exp-0044	clpAp1	clpA		TSS
TU-Exp-0045	clpAp2	clpA		TSS
TU-Exp-0046	clpAp3	clpA		TSS
TU-Exp-0047	clpBp	clpB	Detected	
TU-Exp-0048	yacGp	yacG		Boundary
TU-Exp-0049	cobUp1	cobT;cobS;cobU	Detected	
TU-Exp-0050	corAp	corA	Detected	
TU-Exp-0051	cpXPp	cpXP	Detected	
TU-Exp-0052	creDp	creD	Detected	
TU-Exp-0053	creAp	creA;creB;creC;creD		Boundary
TU-Exp-0054	cspDp	cspD	Detected	
TU-Exp-0055	cstAp3	cstA		Boundary
TU-Exp-0056	cstAp2	cstA		Boundary
TU-Exp-0057	cstAp1	cstA		Boundary
TU-Exp-0058	cutCp	cutC		TSS
TU-Exp-0059	cvpAp1	ubiX;purF;cvpA	Detected	
TU-Exp-0060	ubiXp	ubiX		TSS

TU-Exp-0061	cysEp	cysE	Detected	
TU-Exp-0062	bamCp	bamC		TSS
TU-Exp-0063	defp	def;fmt		Boundary
TU-Exp-0064	dicBp	dicB;ydfD;ydfE;insD;intQ		Boundary
TU-Exp-0065	dusBp	dusB;fis	Detected	
TU-Exp-0066	endAp1	endA		TSS
TU-Exp-0067	endAp2	endA		TSS
TU-Exp-0068	exbDp	exbD		TSS
TU-Exp-0069	feaRp	feaR	Detected	
TU-Exp-0070	fhuEp	fhuE	Detected	
TU-Exp-0071	furpb	fur		TSS
TU-Exp-0072	furpa	fur		TSS
TU-Exp-0073	fliYp	fliY	Detected	
TU-Exp-0074	fliDp	fliD;fliS;fliT	Detected	
TU-Exp-0075	flKp	flk	Detected	
TU-Exp-0076	flup	flu	Detected	
TU-Exp-0077	flxAp	flxA	Detected	
TU-Exp-0078	folAp	folA	Detected	
TU-Exp-0079	fucRp	fucR		TSS
TU-Exp-0080	galUp	galU	Detected	
TU-Exp-0081	garDp	garD	Detected	
TU-Exp-0082	rnpBp	rnpB	Detected	
TU-Exp-0083	gatYp	gatD;gatC;gatB;gatA;gatZ;gatY	Detected	
TU-Exp-0084	gcdp1	gcd	Detected	
TU-Exp-0085	gcdp2	gcd	Detected	
TU-Exp-0086	glxKp	glxK	Detected	
TU-Exp-0087	gcvPp	gcvP	Detected	
TU-Exp-0088	glkp	glk	Detected	
TU-Exp-0089	glnKp	glnK;amtB	Detected	
TU-Exp-0090	glpEp	glpR;glpG;glpE	Detected	
TU-Exp-0091	glpGp	glpR;glpG	Detected	
TU-Exp-0092	glpRp1	glpR	Detected	
TU-Exp-0093	glpRp2	glpR	Detected	
TU-Exp-0094	gltXp3	gltX	Detected	
TU-Exp-0095	gltXp2	gltX	Detected	
TU-Exp-0096	gltXp1	gltX	Detected	
TU-Exp-0097	glyQp	glyS;glyQ	Detected	
TU-Exp-0098	glyVp	glyV;glyX;glyY	Detected	
TU-Exp-0099	gndp	gnd	Detected	
TU-Exp-0100	gntXp	gntX;nfuA		Boundary
TU-Exp-0101	gudPp	gudD;gudX;gudP	Detected	
TU-Exp-0102	gyrBp	gyrB	Detected	
TU-Exp-0103	hchAp2	hchA	Detected	
TU-Exp-0104	hemNp	hemN		TSS
TU-Exp-0105	hisBp	hisB;hisH;hisA;hisF;hisI		TSS
TU-Exp-0106	valSp2	valS	Detected	
TU-Exp-0107	valSp1	valS	Detected	
TU-Exp-0108	htpGp1	htpG	Detected	
TU-Exp-0109	htpGp2	htpG	Detected	
TU-Exp-0110	htpXp	htpX	Detected	
TU-Exp-0111	hyaAp	hyaA;hyaB;hyaC;hyaD;hyaE;hyaF	Detected	
TU-Exp-0112	hycAp	hycI;hycH;hycG;hycF;hycE;hycD;hycC;hycB;hycA	Detected	
TU-Exp-0113	hypFp1	hypF	Detected	
TU-Exp-0114	hypFp2	hypF	Detected	
TU-Exp-0115	hypFp3	hypF	Detected	
TU-Exp-0116	idnkp	idnK	Detected	
TU-Exp-0117	ileXp	ileX	Detected	
TU-Exp-0118	ilvEp3	ilvE;ilvD;ilvA		TSS
TU-Exp-0119	katEp	katE	Detected	
TU-Exp-0120	lepAp	lepB;lepA	Detected	
TU-Exp-0121	leuXp	leuX	Detected	
TU-Exp-0122	livJp	livJ	Detected	
TU-Exp-0123	lppp	lpp	Detected	

TU-Exp-0124	impp3	pdxA;surA;lptD		TSS
TU-Exp-0125	pdxAp	apaH;apaG;ksgA;pdxA		TSS
TU-Exp-0126	apaGp	apaH;apaG	Detected	
TU-Exp-0127	ksgAp	apaH;apaG;ksgA	Detected	
TU-Exp-0128	lysTp	lysT;valT;lysW	Detected	
TU-Exp-0129	malTp	malT	Detected	
TU-Exp-0130	malZp	malZ	Detected	
TU-Exp-0131	maoCp	maoC		Boundary
TU-Exp-0132	melAp	melA;melB	Detected	
TU-Exp-0133	melRp	melR	Detected	
TU-Exp-0134	metJp1	metJ		Boundary
TU-Exp-0135	metJp2	metJ		Boundary
TU-Exp-0136	metJp3	metJ		Boundary
TU-Exp-0137	rpsOp	pnp;rpsO	Detected	
TU-Exp-0138	rpsOp	pnp;rpsO		Boundary
TU-Exp-0139	metZp	metZ;metW;metV	Detected	
TU-Exp-0140	mngAp	mngA;mngB	Detected	
TU-Exp-0141	mtrp1	mtr	Detected	
TU-Exp-0142	mutYp1	mutY;yggX;mltC		Boundary
TU-Exp-0143	mutYp2	mutY;yggX;mltC		Boundary
TU-Exp-0144	mutYp2	mutY;yggX;mltC		Boundary
TU-Exp-0145	yggXp	yggX;mltC	Detected	
TU-Exp-0146	yggXp	yggX;mltC		Boundary
TU-Exp-0147	mutYp1	mutY;yggX;mltC		Boundary
TU-Exp-0148	cysGp1	cysG	Detected	
TU-Exp-0149	nrdGp	nrdG		Boundary
TU-Exp-0150	yebCp	ruvC;yebC	Detected	
TU-Exp-0151	nudBp	ruvC;yebC;nudB		TSS
TU-Exp-0152	ruvCp	ruvC	Detected	
TU-Exp-0153	nuoAp2	nuoN;nuoM;nuoL;nuoK;nuoJ;nuoI;nuoH;nuoG;nuoF;nuoE;nuoC;nuoB;nuoA	Detected	
TU-Exp-0154	nuoAp1	nuoN;nuoM;nuoL;nuoK;nuoJ;nuoI;nuoH;nuoG;nuoF;nuoE;nuoC;nuoB;nuoA	Detected	
TU-Exp-0155	ompRp2	envZ;ompR	Detected	
TU-Exp-0156	ompRp4	envZ;ompR	Detected	
TU-Exp-0157	ompRp1	envZ;ompR	Detected	
TU-Exp-0158	ompRp3	envZ;ompR	Detected	
TU-Exp-0159	osmBp1	osmB	Detected	
TU-Exp-0160	osmBp2	osmB	Detected	
TU-Exp-0161	osmEp	osmE	Detected	
TU-Exp-0162	paaXp	paaX;paaY	Detected	
TU-Exp-0163	pcnBp3	folK;pcnB	Detected	
TU-Exp-0164	pdxYp	pdxY	Detected	
TU-Exp-0165	pfkBp2	pfkB	Detected	
TU-Exp-0166	phePp	pheP	Detected	
TU-Exp-0167	phoHp1	phoH	Detected	
TU-Exp-0168	phoHp2	phoH	Detected	
TU-Exp-0169	pntAp	pntB;pntA	Detected	
TU-Exp-0170	ppiAp1	ppiA	Detected	
TU-Exp-0171	ppiAp2	ppiA	Detected	
TU-Exp-0172	ppiAp4	ppiA	Detected	
TU-Exp-0173	ppiAp3	ppiA	Detected	
TU-Exp-0174	proKp	proK	Detected	
TU-Exp-0175	proLp	proL	Detected	
TU-Exp-0176	proSp	proS	Detected	
TU-Exp-0177	ptsGp1	ptsG	Detected	
TU-Exp-0178	ptsGp2	ptsG	Detected	
TU-Exp-0179	putPp1	putP	Detected	
TU-Exp-0180	putPp5	putP	Detected	
TU-Exp-0181	putPp4	putP	Detected	
TU-Exp-0182	putPp3	putP	Detected	
TU-Exp-0183	pykFp	pykF	Detected	
TU-Exp-0184	enop1	eno	Detected	
TU-Exp-0185	enop2	eno	Detected	
TU-Exp-0186	enop3	eno	Detected	

TU-Exp-0187	rbsDp	rbsD;rbsA;rbsC;rbsB;rbsK;rbsR		Boundary
TU-Exp-0188	dsbAp	dsbA	Detected	
TU-Exp-0189	relBp	hokD;relE;relB	Detected	
TU-Exp-0190	repp	rep	Detected	
TU-Exp-0191	rfaDp1	rfaD;rfaF;rfaC;rfaL	Detected	
TU-Exp-0192	rfaDp2	rfaD;rfaF;rfaC;rfaL	Detected	
TU-Exp-0193	rfaDp4	rfaD;rfaF;rfaC;rfaL	Detected	
TU-Exp-0194	rfaDp3	rfaD;rfaF;rfaC;rfaL	Detected	
TU-Exp-0195	rimLp	rimL	Detected	
TU-Exp-0196	rnhAp	rnhA	Detected	
TU-Exp-0197	rphp2	pyrE;rph	Detected	
TU-Exp-0198	rpiAp	rpiA	Detected	
TU-Exp-0199	rpiBp	rpiB	Detected	
TU-Exp-0200	rplLp	rplL		TSS
TU-Exp-0201	rpmHp1	rpmH;rnpA		Boundary
TU-Exp-0202	rpmHp2	rpmH;rnpA		Boundary
TU-Exp-0203	rpmHp3	rpmH;rnpA		Boundary
TU-Exp-0204	rpoEp1	rseC;rseB;rseA;rpoE		Boundary
TU-Exp-0205	rpoHp5	rpoH	Detected	
TU-Exp-0206	rpoHp1	rpoH	Detected	
TU-Exp-0207	rpoHp4	rpoH	Detected	
TU-Exp-0208	rpoHp3	rpoH	Detected	
TU-Exp-0209	rpoHp6	rpoH	Detected	
TU-Exp-0210	rrsAp1	rrsA;ileT;alaT;rrlA;rrfA	Detected	
TU-Exp-0211	rrsBp1	rrsB;gltT;rrlB;rrfB	Detected	
TU-Exp-0212	rrsCp1	rrsC;gltU;rrlC;rrfC	Detected	
TU-Exp-0213	rrsCp2	rrsC;gltU;rrlC;rrfC	Detected	
TU-Exp-0214	rrsDp1	rrfF;thrV;rrfD;rrlD;alaU;ileU;rrsD	Detected	
TU-Exp-0215	rrsDp2	rrfF;thrV;rrfD;rrlD;alaU;ileU;rrsD	Detected	
TU-Exp-0216	rrsEp	rrsE;gltV;rrlE;rrfE	Detected	
TU-Exp-0217	rrsGp1	rrfG;rrlG;gltW;rrsG	Detected	
TU-Exp-0218	rrsGp2	rrfG;rrlG;gltW;rrsG	Detected	
TU-Exp-0219	rrsHp2	rrsH;ileV;alaV;rrlH;rrfH		Boundary
TU-Exp-0220	rrsHp1	rrsH;ileV;alaV;rrlH;rrfH		Boundary
TU-Exp-0221	ruvAp1	ruvB;ruvA	Detected	
TU-Exp-0222	ruvAp2	ruvB;ruvA	Detected	
TU-Exp-0223	sbcBp	sbcB	Detected	
TU-Exp-0224	sdaAp	sdaA	Detected	
TU-Exp-0225	secEp	secE;nusG	Detected	
TU-Exp-0226	leuUp	leuU		TSS
TU-Exp-0227	serAp2	serA	Detected	
TU-Exp-0228	serAp1	serA	Detected	
TU-Exp-0229	serTp	serT	Detected	
TU-Exp-0230	serUp	serU	Detected	
TU-Exp-0231	serVp	argQ;argZ;argY;argV;serV		Boundary
TU-Exp-0232	serWp	serW	Detected	
TU-Exp-0233	serXp	serX	Detected	
TU-Exp-0234	soxRp	soxR	Detected	
TU-Exp-0235	speBp	speB	Detected	
TU-Exp-0236	speCp3	speC	Detected	
TU-Exp-0237	ssbp2	ssb	Detected	
TU-Exp-0238	ssbp1	ssb	Detected	
TU-Exp-0239	ssuEp	ssuB;ssuC;ssuD;ssuA;ssuE	Detected	
TU-Exp-0240	talBp	talB	Detected	
TU-Exp-0241	rplTp	rplT		Boundary
TU-Exp-0242	thrWp	thrW	Detected	
TU-Exp-0243	tkkBp	tkkB		TSS
TU-Exp-0244	treAp	treA	Detected	
TU-Exp-0245	trpRp	trpR	Detected	
TU-Exp-0246	tsxp1	tsx	Detected	
TU-Exp-0247	tsxp2	tsx	Detected	
TU-Exp-0248	ulaGp	ulaG	Detected	
TU-Exp-0249	ungp	ung	Detected	

TU-Exp-0250	uvrBp3	uvrB	Detected	
TU-Exp-0251	uvrDp2	uvrD	Detected	
TU-Exp-0252	valUp	valU;valX;valY;lysV	Detected	
TU-Exp-0253	yajOp	yajO	Detected	
TU-Exp-0254	xylRp	xylR	Detected	
TU-Exp-0255	yacCp	speD;speE;yacC		Boundary
TU-Exp-0256	yahAp2	yahA	Detected	
TU-Exp-0257	ybhKp	ybhK	Detected	
TU-Exp-0258	kdsAp	kdsA	Detected	
TU-Exp-0259	tyrRp	tyrR	Detected	
TU-Exp-0260	yebBp1	yebB	Detected	
TU-Exp-0261	dapEp	dapE;ypfN	Detected	
TU-Exp-0262	yfiDp	yfiD	Detected	
TU-Exp-0263	ygbFp	ygbF	Detected	
TU-Exp-0264	ygjGp	ygjG	Detected	
TU-Exp-0265	yicRp	mutM;rpmG;rpmB;yicR	Detected	
TU-Exp-0266	yraPp	yraP	Detected	
TU-Exp-0267	ytfJp	ytfJ	Detected	
TU-Exp-0268	znuAp	znuA		Boundary
TU-Exp-0269	znuCp	znuC;znuB	Detected	
TU-Exp-0270	feaBp	feaB	Detected	
TU-Exp-0271	glgSp1	glgS	Detected	
TU-Exp-0272	glgSp2	glgS	Detected	
TU-Exp-0273	ompXp2	ompX	Detected	
TU-Exp-0274	rydCp	rydC	Detected	
TU-Exp-0275	tyrPp1	tyrP	Detected	
TU-Exp-0276	tyrPp2	tyrP	Detected	
TU-Exp-0277	mtrp2	mtr	Detected	
TU-Exp-0278	tyrBp	tyrB	Detected	
TU-Exp-0279	aroPp2	aroP	Detected	
TU-Exp-0280	hmpAp	hmp	Detected	
TU-Exp-0281	pspFp1	pspF	Detected	
TU-Exp-0282	pspFp2	pspF	Detected	
TU-Exp-0283	pspFp3	pspF	Detected	
TU-Exp-0284	aroPp1	aroP	Detected	
TU-Exp-0285	chaCp	chaC	Detected	
TU-Exp-0286	aroFp	tyrA;aroF	Detected	
TU-Exp-0287	ytfEp	ytfE	Detected	
TU-Exp-0288	argPp	argP	Detected	
TU-Exp-0289	crIp	crI	Detected	
TU-Exp-0290	deoRp	deoR		TSS
TU-Exp-0291	folXp	folX;yfch	Detected	
TU-Exp-0292	hchAp	hchA	Detected	
TU-Exp-0293	hdap	hda	Detected	
TU-Exp-0294	insNp	insN-2	Detected	
TU-Exp-0295	tamp	tam	Detected	
TU-Exp-0296	nepIp	nepI	Detected	
TU-Exp-0297	yahAp1	yahA	Detected	
TU-Exp-0298	yegWp	yegW	Detected	
TU-Exp-0299	yehSp	yehS	Detected	
TU-Exp-0300	yfcDp	yfcD		TSS
TU-Exp-0301	yffBp	yffB;dapE;ypfN	Detected	
TU-Exp-0302	yfhLp	yfhL	Detected	
TU-Exp-0303	yhjGp	yhjG	Detected	
TU-Exp-0304	cyaRp	cyaR	Detected	
TU-Exp-0305	uxaCp	uxaA;uxaC		Boundary
TU-Exp-0306	exuTp	exuT	Detected	
TU-Exp-0307	uxaBp	uxaB		TSS
TU-Exp-0308	glnAp1	glnA	Detected	
TU-Exp-0309	glnAp2	glnA	Detected	
TU-Exp-0310	hisLp	hisL;hisG;hisD;hisC;hisB;hisH;hisA;hisF;hisI	Detected	
TU-Exp-0311	ulaAp	ulaA;ulaB;ulaC;ulaD;ulaE;ulaF	Detected	
TU-Exp-0312	xylAp	xylB;xylA	Detected	

TU-Exp-0313	xyIFp	xyIF;xyIG;xyIH;xyIR	Detected	
TU-Exp-0314	yciGp	yciE;yciF;yciG	Detected	
TU-Exp-0315	aspAp	dcuA;aspA	Detected	
TU-Exp-0316	dcuAp	dcuA	Detected	
TU-Exp-0317	clpPp2	clpP;clpX	Detected	
TU-Exp-0318	cmrp	cmr	Detected	
TU-Exp-0319	cynTp	cynT;cynS;cynX		Boundary
TU-Exp-0320	fumBp	fumB		TSS
TU-Exp-0321	garPp	rnpB;garK;garR;garL;garP		Boundary
TU-Exp-0322	gcvBp	gcvB	Detected	
TU-Exp-0323	gntRp1	gntK;gntR;gntU		Boundary
TU-Exp-0324	hslVp	hslU;hslV	Detected	
TU-Exp-0325	hupAp	hupA		Boundary
TU-Exp-0326	hupBp1	hupB	Detected	
TU-Exp-0327	hupBp2	hupB	Detected	
TU-Exp-0328	hupBp3	hupB	Detected	
TU-Exp-0329	hupBp4	hupB	Detected	
TU-Exp-0330	ibpAp	ibpB;ibpA	Detected	
TU-Exp-0331	pdxAp	apaH;apaG;ksgA;pdxA		TSS
TU-Exp-0332	metYp1	metY	Detected	
TU-Exp-0333	micFp	micF	Detected	
TU-Exp-0334	pepDp2	pepD	Detected	
TU-Exp-0335	rnbp1	rnb	Detected	
TU-Exp-0336	rnbp2	rnb	Detected	
TU-Exp-0337	rpoDp4	rpoD	Detected	
TU-Exp-0338	rpsUp1	rpsU;dnaG;rpoD		Boundary
TU-Exp-0339	rpoDp2	rpoD	Detected	
TU-Exp-0340	rpoDp1	rpoD	Detected	
TU-Exp-0341	rpsUp3	rpsU;dnaG;rpoD		Boundary
TU-Exp-0342	rpsUp1	rpsU;dnaG;rpoD		Boundary
TU-Exp-0343	rpoDp3	rpoD	Detected	
TU-Exp-0344	rpsUp2	rpsU;dnaG;rpoD		Boundary
TU-Exp-0345	serCp	serC		Boundary
TU-Exp-0346	yajCp	yajC;secD;secF	Detected	
TU-Exp-0347	tgtp	tgt;yajC		TSS
TU-Exp-0348	rpmIp	rplT;rpmI	Detected	
TU-Exp-0349	treRp2	treR		Boundary
TU-Exp-0350	treRp3	treR		Boundary
TU-Exp-0351	treRp4	treR		Boundary
TU-Exp-0352	trmAp	trmA	Detected	
TU-Exp-0353	uspAp1	uspA	Detected	
TU-Exp-0354	uspAp3	uspA	Detected	
TU-Exp-0355	uspAp2	uspA	Detected	
TU-Exp-0356	yehQp	yehQ;yehA;kdsA		TSS
TU-Exp-0357	clpPp1	clpP;clpX	Detected	
TU-Exp-0358	ilvLp2	ilvG_1;ilvG_2;ilvL;ilvM;ilvE;ilvD;ilvA	Detected	
TU-Exp-0359	ilvLp1	ilvG_1;ilvG_2;ilvL;ilvM;ilvE;ilvD;ilvA	Detected	
TU-Exp-0360	gadAp	gadX;gadA		Boundary
TU-Exp-0361	bglGp	bglB;bglF;bglG	Detected	
TU-Exp-0362	hflDp	purB;hflD		TSS
TU-Exp-0363	livKp2	livF;livG;livM;livH;livK	Detected	
TU-Exp-0364	livKp1	livF;livG;livM;livH;livK	Detected	
TU-Exp-0365	surAp	apaH;apaG;ksgA;pdxA;surA	Detected	
TU-Exp-0366	malXp	malX;malY	Detected	
TU-Exp-0367	metYp2	pnp;rpsO;truB;rbfA;infB;nusA;yhbC;metY		Boundary
TU-Exp-0368	nagEp	nagE	Detected	
TU-Exp-0369	usgp	dedA;truA;usg	Detected	
TU-Exp-0370	rdoAp	rdoA;dsbA		Boundary
TU-Exp-0371	seqAp	seqA;pgm	Detected	
TU-Exp-0372	tauAp	tauA;tauB;tauC;tauD	Detected	
TU-Exp-0373	trpCp	trpA;trpB;trpC	Detected	
TU-Exp-0374	uppp	uraA;upp		Boundary
TU-Exp-0375	xapAp	xapB;xapA	Detected	

TU-Exp-0376	epdp	fbaA;pgk;epd	Detected	
TU-Exp-0377	mutSp	mutS	Detected	
TU-Exp-0378	pdxJp	acpS;pdxJ		TSS
TU-Exp-0379	rncp	era;rnc	Detected	
TU-Exp-0380	serCp	serC	Detected	
TU-Exp-0381	tdcAp	tdcF;tdcE;tdcD;tdcC;tdcB;tdcA;tdcG	Detected	
TU-Exp-0382	guaBp	guaA;guaB	Detected	
TU-Exp-0383	caiCp	caiE;caiD;caiC	Detected	
TU-Exp-0384	csgDp2	csgG;csgF;csgE;csgD	Detected	
TU-Exp-0385	lacYp	lacA;lacY	Detected	
TU-Exp-0386	nuoMp	nuoN;nuoM		TSS
TU-Exp-0387	dapBp1	dapB	Detected	
TU-Exp-0388	dapBp2	dapB	Detected	
TU-Exp-0389	ybaSp	ybaS;ybaT	Detected	
TU-Exp-0390	dutp	dut;slmA	Detected	
TU-Exp-0391	ahpFp	ahpF		TSS
TU-Exp-0392		bcsC;bcsZ;bcsB;bcsA		TSS
TU-Exp-0393	cobUp2	cobT;cobS;cobU	Detected	
TU-Exp-0394	greAp	greA	Detected	
TU-Exp-0395	infAp2	infA	Detected	
TU-Exp-0396	infAp1	infA	Detected	
TU-Exp-0397	lppp2	lpp	Detected	
TU-Exp-0398	malQp	malQ		TSS
TU-Exp-0399	pcnBp1	folK;pcnB	Detected	
TU-Exp-0400	pcnBp2	folK;pcnB	Detected	
TU-Exp-0401	plsBp	plsB	Detected	
TU-Exp-0402	rssBp	rssB	Detected	
TU-Exp-0403	rtcRp	rtcR	Detected	
TU-Exp-0404	ybfHp	ybfG;ybfH		TSS
TU-Exp-0405	ydHIp	ydHI;ydHJ;ydHK	Detected	
TU-Exp-0406	yhjJp	yhjJ	Detected	
TU-Exp-0407		yhjQ		TSS
TU-Exp-0408	yicJp	yicI;yicJ	Detected	
TU-Exp-0409	yraPp2	yraP	Detected	
TU-Exp-0410	fliEp	fliE	Detected	
TU-Exp-0411	hypBp	hypB;hypC;hypD;hypE		TSS
TU-Exp-0412	rnep4	rne	Detected	
TU-Exp-0413	rutRp	rutR	Detected	
TU-Exp-0414	spyp	spy	Detected	
TU-Exp-0415	mutMp2	mutM	Detected	
TU-Exp-0416	hypAp	hypA;hypB;hypC;hypD;hypE	Detected	
TU-Exp-0417	rssAp	rssA;rssB	Detected	
TU-Exp-0418		mcrC;mcrB	Detected	
TU-Exp-0419	ssrSp1	ssrS;ygfA	Detected	
TU-Exp-0420	hepAp2	hepA		Boundary
TU-Exp-0421	lolBp	prs;ispE;lolB		Boundary
TU-Exp-0422	poxBp	poxB		Boundary
TU-Exp-0423	rnlAp	rnlA	Detected	
TU-Exp-0424	canp	can	Detected	
TU-Exp-0425	lonp	lon	Detected	
TU-Exp-0426		lsrK		Boundary
TU-Exp-0427	lspAp	lspA;fkpB;ispH		Boundary
TU-Exp-0428	ribFp	ribF;ileS;lspA;fkpB;ispH		Boundary
TU-Exp-0429	ileSp3	ileS;lspA;fkpB;ispH		TSS
TU-Exp-0430	ileSp1	ileS;lspA;fkpB;ispH		TSS
TU-Exp-0431	exuRp	exuR	Detected	
TU-Exp-0432	uxuRp	uxuR	Detected	
TU-Exp-0433	ileSp2	ileS;lspA;fkpB;ispH		TSS
TU-Exp-0434	pitBp	pitB	Detected	
TU-Exp-0435	uidRp	uidR	Detected	
TU-Exp-0436	exbBp	exbD;exbB	Detected	
TU-Exp-0437	hcaEp	hcaE;hcaF;hcaC;hcaB;hcaD		Boundary
TU-Exp-0438	hypBp	hypB;hypC;hypD;hypE		TSS

TU-Exp-0439	phoPp1	phoQ;phoP	Detected	
TU-Exp-0440	thrUp	thrU;tyrU;glyT;thrT;tufB	Detected	
TU-Exp-0441	lsrAp	lsrA;lsrC;lsrD;lsrB;lsrF;lsrG;tam		TSS
TU-Exp-0442	aldBp	aldB	Detected	
TU-Exp-0443	metNp	metQ;metI;metN	Detected	
TU-Exp-0444	mhpAp	mhpA;mhpB;mhpC;mhpD;mhpF;mhpE	Detected	
TU-Exp-0445	mobAp1	mobB;mobA	Detected	
TU-Exp-0446	mobAp2	mobB;mobA	Detected	
TU-Exp-0447	relAp1	chpA;chpR;relA		Boundary
TU-Exp-0448	relAp2	chpA;chpR;relA		Boundary
TU-Exp-0449		torZ;torY	Detected	
TU-Exp-0450	uxuAp	uxuA;uxuB	Detected	
TU-Exp-0451	zraSp	zraS;zraR		Boundary
TU-Exp-0452	astCp1	astE;astB;astD;astA;astC	Detected	
TU-Exp-0453	astCp3	astE;astB;astD;astA;astC	Detected	
TU-Exp-0454	astCp2	astE;astB;astD;astA;astC	Detected	
TU-Exp-0455	hyfAp	hyfA;hyfB;hyfC;hyfD;hyfE;hyfF;hyfG;hyfH;hyfI;hyfJ;hyfR;focB	Detected	
TU-Exp-0456	rpoNp	rpoN	Detected	
TU-Exp-0457	rpoEp2	rseC;rseB;rseA;rpoE		Boundary
TU-Exp-0458	sdaCp	sdaC;sdaB		Boundary
TU-Exp-0459	cysDp	cysC;cysN;cysD	Detected	
TU-Exp-0460	paaAp	paaA;paaB;paaC;paaD;paaE;paaF;paaG;paaH;paaI;paaJ;paaK	Detected	
TU-Exp-0461	acrAp	acrB;acrA	Detected	
TU-Exp-0462	ybjCp	ybjC;nfsA;rimK;ybjN	Detected	
TU-Exp-0463	iscRp	iscA;iscU;iscS;iscR		Boundary
TU-Exp-0464	nikAp	nikA;nikB;nikC;nikD;nikE;nikR	Detected	
TU-Exp-0465	smtAp	smtA;mukF;mukE;mukB	Detected	
TU-Exp-0466	fecAp	fecE;fecD;fecC;fecB;fecA		TSS
TU-Exp-0467	treBp	treC;treB		TSS
TU-Exp-0468	pheMp	ihfA;pheT;pheS;pheM		Boundary
TU-Exp-0469	hypAp	hypA;hypB;hypC;hypD;hypE		Boundary
TU-Exp-0470	hdeAp	yhiD;hdeB;hdeA	Detected	
TU-Exp-0471	csiDp	csiD;lhgO;gabD;gabT;gabP		Boundary
TU-Exp-0472	gabDp2	gabD;gabT;gabP		Boundary
TU-Exp-0473	hcpp2	hcr;hcp	Detected	
TU-Exp-0474	mdoGp2	mdoG;mdoH	Detected	
TU-Exp-0475	hybOp1	hybG;hybF;hybE;hybD;hybC;hybB;hybA;hybO	Detected	
TU-Exp-0476	gabDp1	gabD;gabT;gabP		Boundary
TU-Exp-0477	kdpFp	kdpC;kdpB;kdpA;kdpF	Detected	
TU-Exp-0478		ttdA;ttdB;ttdT	Detected	
TU-Exp-0479	accDp	accD		Boundary
TU-Exp-0480		ackA;pta	Detected	
TU-Exp-0481		pta	Detected	
TU-Exp-0482	acnAp2	acnA	Detected	
TU-Exp-0483	acnAp3	acnA	Detected	
TU-Exp-0484	acnBp	acnB	Detected	
TU-Exp-0485	acsp1	actP;yjch;acs	Detected	
TU-Exp-0486	acsp2	actP;yjch;acs	Detected	
TU-Exp-0487	alaSp	alaS	Detected	
TU-Exp-0488	aldAp	aldA	Detected	
TU-Exp-0489	amiAp	amiA;hemF	Detected	
TU-Exp-0490	hemFp	hemF		TSS
TU-Exp-0491		aqpZ	Detected	
TU-Exp-0492	arcBp	arcB	Detected	
TU-Exp-0493	aroLp	aroL;yaiA;aroM	Detected	
TU-Exp-0494	asnCp	mnmG;mioC;asnC		Boundary
TU-Exp-0495	asnCp	mnmG;mioC;asnC		Boundary
TU-Exp-0496		asnW	Detected	
TU-Exp-0497	atpBp2	atpC;atpD;atpG;atpA;atpH;atpF;atpE;atpB		TSS
TU-Exp-0498	caiFp	caiF	Detected	
TU-Exp-0499	cblp	cbl	Detected	
TU-Exp-0500	cdaRp	cdaR		TSS
TU-Exp-0501	cfap2	cfa	Detected	

TU-Exp-0502	cfap1	cfa	Detected	
TU-Exp-0503		cho	Detected	
TU-Exp-0504	ihfBp	ihfB	Detected	
TU-Exp-0505	rpsAp1	rpsA;ihfB		Boundary
TU-Exp-0506	rpsAp3	rpsA;ihfB		Boundary
TU-Exp-0507	csgBp	csgB;csgA;csgC		Boundary
TU-Exp-0508	cspEp1	cspE	Detected	
TU-Exp-0509	cusCp	cusC;cusF;cusB;cusA		Boundary
TU-Exp-0510	cusRp	cusS;cusR	Detected	
TU-Exp-0511	dctAp	dctA	Detected	
TU-Exp-0512	dcuBp2	fumB;dcuB		Boundary
TU-Exp-0513	dcuBp	fumB;dcuB		Boundary
TU-Exp-0514	deoBp3	deoB;deoD	Detected	
TU-Exp-0515	deoCp1	deoC;deoA;deoB;deoD	Detected	
TU-Exp-0516	deoCp2	deoC;deoA;deoB;deoD	Detected	
TU-Exp-0517	dinQp	dinQ	Detected	
TU-Exp-0518	eddp1	eda;edd		Boundary
TU-Exp-0519	edap1	eda	Detected	
TU-Exp-0520	edap3	eda	Detected	
TU-Exp-0521	edap2	eda	Detected	
TU-Exp-0522	pgkp1	fbaA;pgk		Boundary
TU-Exp-0523	epdp	fbaA;pgk;epd		Boundary
TU-Exp-0524	pgkp1	fbaA;pgk	Detected	
TU-Exp-0525	fecIp	fecR;fecI		Boundary
TU-Exp-0526	fimBp3	fimB	Detected	
TU-Exp-0527	fimBp1	fimB	Detected	
TU-Exp-0528	fimBp2	fimB	Detected	
TU-Exp-0529	fimEp	fimE	Detected	
TU-Exp-0530	fixAp	fixA;fixB;fixC;fixX	Detected	
TU-Exp-0531	fldAp	fur;fldA;uof		Boundary
TU-Exp-0532	fliAp2	fliY;fliZ;fliA		Boundary
TU-Exp-0533	fliAp1	fliY;fliZ;fliA		Boundary
TU-Exp-0534	focAp1	pflB;focA		Boundary
TU-Exp-0535	pflBp1	pflB	Detected	
TU-Exp-0536	pflBp2	pflB	Detected	
TU-Exp-0537	pflBp3	pflB	Detected	
TU-Exp-0538	pflBp5	pflB	Detected	
TU-Exp-0539	pflBp4	pflB	Detected	
TU-Exp-0540	focAp3	pflB;focA		Boundary
TU-Exp-0541	focAp2	pflB;focA		Boundary
TU-Exp-0542	fxsAp	fxsA	Detected	
TU-Exp-0543	gadXp	gadX	Detected	
TU-Exp-0544	gadEp	gadE;mdtE;mdtF	Detected	
TU-Exp-0545	gdhAp1	gdhA	Detected	
TU-Exp-0546	glcCp	glcC	Detected	
TU-Exp-0547	glcDp	glcA;glcB;glcG;glcD;glcF;glcE	Detected	
TU-Exp-0548	glnAp2	glnA		Boundary
TU-Exp-0549	glnBp2	glnB	Detected	
TU-Exp-0550	glnBp3	glnB	Detected	
TU-Exp-0551	glnBp1	glnB	Detected	
TU-Exp-0552	gltAp1	gltA	Detected	
TU-Exp-0553	gltAp2	gltA	Detected	
TU-Exp-0554	gntPp	gntP	Detected	
TU-Exp-0555	gntTp1	gntT	Detected	
TU-Exp-0556	gntTp3	gntT	Detected	
TU-Exp-0557	gntTp2	gntT	Detected	
TU-Exp-0558	grpE	grpE	Detected	
TU-Exp-0559	hemAp1	hemA;prfA;prmC		Boundary
TU-Exp-0560	hemAp2	hemA		Boundary
TU-Exp-0561	hlyEp	hlyE	Detected	
TU-Exp-0562		hokE	Detected	
TU-Exp-0563	htgAp1	htgA		TSS
TU-Exp-0564	htgAp2	htgA		TSS

TU-Exp-0565	hydNp	hypF;hydN		Boundary
TU-Exp-0566	ibpBp	ibpB	Detected	
TU-Exp-0567	idnDp	idnR;idnT;idnO;idnD		Boundary
TU-Exp-0568	idnRp	idnR	Detected	
TU-Exp-0569	ilvIHp1	ilvI;ilvH	Detected	
TU-Exp-0570	ilvAp	ilvA		TSS
TU-Exp-0571	insKp	insK		TSS
TU-Exp-0572	leuOp	leuO	Detected	
TU-Exp-0573	lpxLp	lpxL	Detected	
TU-Exp-0574	lsrRp	lsrK;lsrR	Detected	
TU-Exp-0575	dapD	dapD	Detected	
TU-Exp-0576	menAp	rraA;menA		Boundary
TU-Exp-0577	metAp1	metA	Detected	
TU-Exp-0578	metAp2	metA	Detected	
TU-Exp-0579	yhbCp	infB;nusA;yhbC		Boundary
TU-Exp-0580	pnpp	pnp	Detected	
TU-Exp-0581	molR_1p	molR_1		TSS
TU-Exp-0582	mreBp2	mreD;mreC;mreB		Boundary
TU-Exp-0583	mreBp3	mreD;mreC;mreB		Boundary
TU-Exp-0584	mreBp1	mreD;mreC;mreB		Boundary
TU-Exp-0585	msrAp	msrA	Detected	
TU-Exp-0586	mtlAp	mtlA;mtlD;mtlR		Boundary
TU-Exp-0587	nacp	nac		Boundary
TU-Exp-0588	cysGp2	cysG	Detected	
TU-Exp-0589	nmpC	nmpC	Detected	
TU-Exp-0590	nrdHp	nrdH;nrdI;nrdE;nrdF	Detected	
TU-Exp-0591	nsrRp	nsrR;rnr;rlmB	Detected	
TU-Exp-0592	ompCp1	ompC		Boundary
TU-Exp-0593	ompCp2	ompC		Boundary
TU-Exp-0594	ompCp3	ompC		Boundary
TU-Exp-0595	panBp	panC;panB	Detected	
TU-Exp-0596	aceEp	aceE;aceF		Boundary
TU-Exp-0597	pdhRp	pdhR;aceE;aceF;lpd	Detected	
TU-Exp-0598	lpdAp	lpd	Detected	
TU-Exp-0599	tyrSp	pdxY;tyrS	Detected	
TU-Exp-0600	pfkBp1	pfkB	Detected	
TU-Exp-0601	pheLp	pheL;pheA	Detected	
TU-Exp-0602	potFp1	potF;potG;potH;potI	Detected	
TU-Exp-0603	potFp2	potF;potG;potH;potI	Detected	
TU-Exp-0604	psrNp	psrN	Detected	
TU-Exp-0605	pthp	yehF;pth		Boundary
TU-Exp-0606	yehFp	yehF	Detected	
TU-Exp-0607	purAp	purA	Detected	
TU-Exp-0608	rcaAp	rcaA	Detected	
TU-Exp-0609	recAp	recA	Detected	
TU-Exp-0610	rpoBp	rpoB;rpoC	Detected	
TU-Exp-0611	rpoHp2	rpoH	Detected	
TU-Exp-0612	rpsPp	rplS;trmD;rimM;rpsP	Detected	
TU-Exp-0613	rrmJp1	hflB;rrmJ	Detected	
TU-Exp-0614	rrmJp2	hflB;rrmJ	Detected	
TU-Exp-0615	rutRp2	rutR	Detected	
TU-Exp-0616	ryfBp	ryfB	Detected	
TU-Exp-0617	ryfCp	ryfC	Detected	
TU-Exp-0618	ryfDp	ryfD	Detected	
TU-Exp-0619	ryjBp	ryjB	Detected	
TU-Exp-0620	sucAp	sucA;sucB;sucC;sucD	Detected	
TU-Exp-0621	sdhCp	Phantom Gene;sdhC;sdhD;sdhA;sdhB;sucA;sucB;sucC;sucD	Detected	
TU-Exp-0622	secGp2	leuU;secG	Detected	
TU-Exp-0623	secGp1	leuU;secG	Detected	
TU-Exp-0624	sfsAp	dksA;sfsA		TSS
TU-Exp-0625	sroAp	sroA		Boundary
TU-Exp-0626	srlAp	srlA;srlE;srlB;srlD;gutM;srlR;gutQ		Boundary
TU-Exp-0627	sspAp	sspB;sspA	Detected	

TU-Exp-0628	stpAp1	stpA	Detected	
TU-Exp-0629	stpAp3	stpA	Detected	
TU-Exp-0630	stpAp2	stpA	Detected	
TU-Exp-0631	symEp	symE	Detected	
TU-Exp-0632	thrSp	infC;thrS	Detected	
TU-Exp-0633	infCp	infC		Boundary
TU-Exp-0634	pheMp	ihfA;pheT;pheS;pheM		Boundary
TU-Exp-0635	tisAp	tisA;tisB	Detected	
TU-Exp-0636	umuDp	umuD;umuC		TSS
TU-Exp-0637	xseBp	yajO;dxs;ispA;xseB	Detected	
TU-Exp-0638		ybfE		TSS
TU-Exp-0639	ybgAp1	ybgA;phr	Detected	
TU-Exp-0640	ybgAp2	ybgA;phr	Detected	
TU-Exp-0641	ybgIp1	ybgI;ybgJ;ybgK;ybgL;nei	Detected	
TU-Exp-0642	ybgIp2	ybgI;ybgJ;ybgK;ybgL;nei	Detected	
TU-Exp-0643	rimKp	rimK;ybjN	Detected	
TU-Exp-0644	yceAp2	yceA	Detected	
TU-Exp-0645	acpP	acpP;fabF	Detected	
TU-Exp-0646		acpP;fabF		TSS
TU-Exp-0647	yceDp2	yceD;rpmF	Detected	
TU-Exp-0648		fabD;fabG;acpP		TSS
TU-Exp-0649	yceDp1	yceD;rpmF	Detected	
TU-Exp-0650		dos;yddV	Detected	
TU-Exp-0651	ydgKp	ydgK;rsxA;rsxB;rsxC;rsxD;rsxG;rsxE;nth	Detected	
TU-Exp-0652	ydjMp	ydjM	Detected	
TU-Exp-0653	yhfAp	yhfA	Detected	
TU-Exp-0654	yaJp	yaJ	Detected	
TU-Exp-0655	yjaBp	yjaB	Detected	
TU-Exp-0656	yjaZp	yjaZ	Detected	
TU-Exp-0657	yjeFp1	yjeF;yjeE;amiB;mutL;miaA;hfq;hflX;hflK;hflC	Detected	
TU-Exp-0658	yjeFp3	yjeF;yjeE;amiB;mutL;miaA;hfq;hflX;hflK;hflC	Detected	
TU-Exp-0659	yjeFp2	yjeF;yjeE;amiB;mutL;miaA;hfq;hflX;hflK;hflC	Detected	
TU-Exp-0660	yjjQp	yjjQ;bgIJ	Detected	
TU-Exp-0661	zinTp	zinT		TSS
TU-Exp-0662	coaAp	coaA	Detected	
TU-Exp-0663		eamA	Detected	
TU-Exp-0664	glmZp	glmZ	Detected	
TU-Exp-0665	psrDp	psrD	Detected	
TU-Exp-0666	rnep5	rne	Detected	
TU-Exp-0667	rnep3	rne	Detected	
TU-Exp-0668	sroBp	sroB	Detected	
TU-Exp-0669	acrEp	acrE;acrF	Detected	
TU-Exp-0670	argXp	argX;hisR;leuT;proM	Detected	
TU-Exp-0671	asnCp	mnmG;mioC;asnC	Detected	
TU-Exp-0672	asnTp	asnT	Detected	
TU-Exp-0673	asnUp	asnU	Detected	
TU-Exp-0674	asnVp	asnV	Detected	
TU-Exp-0675	csrBp	csrB	Detected	
TU-Exp-0676	cynTp	cynT;cynS;cynX	Detected	
TU-Exp-0677	ecnBp	ecnB	Detected	
TU-Exp-0678	fucAp	fucO;fucA	Detected	
TU-Exp-0679	glnAp1	glnA		Boundary
TU-Exp-0680	glnSp1	glnS	Detected	
TU-Exp-0681	glyWp	leuZ;cysT;glyW	Detected	
TU-Exp-0682	gntRp2	gntR	Detected	
TU-Exp-0683	gntRp4	gntR	Detected	
TU-Exp-0684	gntRp3	gntR	Detected	
TU-Exp-0685	gntKp	gntK;gntU	Detected	
TU-Exp-0686	gtp	gpt	Detected	
TU-Exp-0687	lacZp1	lacA;lacY;lacZ	Detected	
TU-Exp-0688	ldcCp	ldcC	Detected	
TU-Exp-0689	leuQp	leuV;leuP;leuQ	Detected	
TU-Exp-0690	rraAp	rraA	Detected	

TU-Exp-0691	metTp	glnX;glnV;metU;glnW;glnU;leuW;metT	Detected	
TU-Exp-0692	metYp1	metY	Detected	Boundary
TU-Exp-0693	metYp2	pnp;rpsO;truB;rbfA;infB;nusA;yhbC;metY	Detected	
TU-Exp-0694	yggXp	yggX;mltC	Detected	Boundary
TU-Exp-0695	mutYp2	mutY;yggX;mltC	Detected	Boundary
TU-Exp-0696	mutYp1	mutY;yggX;mltC	Detected	Boundary
TU-Exp-0697	ompAp1	ompA	Detected	
TU-Exp-0698	ompAp2	ompA	Detected	
TU-Exp-0699	pdxBp	dedA;truA;usg;pdxB	Detected	
TU-Exp-0700	pepDp3	pepD	Detected	
TU-Exp-0701	pepDp1	pepD	Detected	
TU-Exp-0702	pheUp	pheU	Detected	
TU-Exp-0703	pheVp	pheV	Detected	
TU-Exp-0704	ptsHp4	ptsH;ptsI;crr	Detected	
TU-Exp-0705	ptsHp5	ptsH;ptsI;crr	Detected	
TU-Exp-0706	ptsHp3	ptsH;ptsI;crr	Detected	
TU-Exp-0707	ptsHp1	ptsH;ptsI;crr	Detected	
TU-Exp-0708	ptsHp2	ptsH;ptsI;crr	Detected	
TU-Exp-0709	crrpI	crr	Detected	
TU-Exp-0710	crrp2	crr	Detected	
TU-Exp-0711	infCp2	rplT;rpmI;infC	Detected	
TU-Exp-0712	rplTp	rplT	Detected	
TU-Exp-0713	tonBp	tonB	Detected	
TU-Exp-0714	treRp1	treR	Detected	Boundary
TU-Exp-0715	tyrTp	tpr;tyrV;tyrT	Detected	Boundary
TU-Exp-0716	valVp	valV;valW	Detected	
TU-Exp-0717	yicRp	mutM;rpmG;rpmB;yicR	Detected	Boundary
TU-Exp-0718	mutMp	mutM	Detected	
TU-Exp-0719	rpmBp	mutM;rpmG;rpmB	Detected	Boundary
TU-Exp-0720	gadYp	gadY	Detected	
TU-Exp-0721	ldrDp	ldrD	Detected	
TU-Exp-0722	micCp	micC	Detected	
TU-Exp-0723	glnSp2	glnS	Detected	
TU-Exp-0724	rybBp	rybB	Detected	
TU-Exp-0725	yjbEp	yjbE;yjbF;yjbG;yjbH	Detected	Boundary
TU-Exp-0726	rpsTp1	rpsT	Detected	
TU-Exp-0727	arsRp	arsR;arsB;arsC	Detected	Boundary
TU-Exp-0728	sroCp	sroC	Detected	Boundary
TU-Exp-0729	manAp	manA	Detected	
TU-Exp-0730	rseXp	rseX	Detected	
TU-Exp-0731	smfp	smf	Detected	
TU-Exp-0732	sroDp	sroD	Detected	
TU-Exp-0733	sroEp	sroE	Detected	Boundary
TU-Exp-0734	cspEp2	cspE	Detected	
TU-Exp-0735	dnaXp	dnaX	Detected	
TU-Exp-0736	frsAp	frsA	Detected	
TU-Exp-0737	fumAp	fumA	Detected	Boundary
TU-Exp-0738	glmYp	glmY	Detected	Boundary
TU-Exp-0739	iraPp	iraP	Detected	
TU-Exp-0740	omrAp	omrA	Detected	
TU-Exp-0741	omrBp	omrB	Detected	
TU-Exp-0742	rdlDp	rdlD	Detected	
TU-Exp-0743	rprAp	rprA	Detected	
TU-Exp-0744	ryeBp	ryeB	Detected	
TU-Exp-0745	ryhBp	ryhB	Detected	
TU-Exp-0746	sodCp	sodC	Detected	
TU-Exp-0747	sroGp	sroG	Detected	Boundary
TU-Exp-0748	sroHp	sroH	Detected	
TU-Exp-0749		suhB	Detected	
TU-Exp-0750	yejAp	yejA;yejB;yejE;yejF	Detected	
TU-Exp-0751	yjjPp	yjjP	Detected	Boundary
TU-Exp-0752	yjjWp	yjjW	Detected	TSS
TU-Exp-0753	ssrSp2	ssrS;ygfA	Detected	

TU-Exp-0754	gadXp	gadX		
TU-Exp-0755	ivbLp	ilvN;ilvB;ivbL		Boundary
TU-Exp-0756	lacZp2	lacA;lacY;lacZ	Detected	Boundary
TU-Exp-0757	lacZp3	lacA;lacY;lacZ	Detected	
TU-Exp-0758	lacZp4	lacA;lacY;lacZ	Detected	
TU-Exp-0759	malEp	malG;malF;malE	Detected	
TU-Exp-0760	mdtAp	mdtA;mdtB;mdtC;mdtD;baeS;baeR	Detected	
TU-Exp-0761	mreBp3	mreD;mreC;mreB	Detected	
TU-Exp-0762	nemRp	nemR;nemA	Detected	
TU-Exp-0763	recAp	recA		Boundary
TU-Exp-0764	rhoLp	rhoL;rho		TSS
TU-Exp-0765	slpp	slp;dctR		Boundary
TU-Exp-0766	yjjBp	yjjA;dnaC;dnaT;yjjB		TSS
TU-Exp-0767	yjjBp	yjjA;dnaC;dnaT;yjjB		TSS
TU-Exp-0768	dnaTp	dnaC;dnaT	Detected	
TU-Exp-0769	dnaTp	dnaC;dnaT	Detected	
TU-Exp-0770	norVp	norV;norW	Detected	
TU-Exp-0771	marRp	marR;marA;marB	Detected	
TU-Exp-0772	csrCp	csrC	Detected	
TU-Exp-0773	ilvIp3	ilvI;ilvH	Detected	
TU-Exp-0774	ilvIp2	ilvI;ilvH	Detected	
TU-Exp-0775	ilvIp4	ilvI;ilvH	Detected	
TU-Exp-0776	dksAp2	yadB;dksA	Detected	
TU-Exp-0777	dksAp1	yadB;dksA	Detected	
TU-Exp-0778	marCp	marC	Detected	
TU-Exp-0779	symRp	symR	Detected	
TU-Exp-0780	gadBp	gadC;gadB	Detected	
TU-Exp-0781	rpsTp2	rpsT	Detected	
TU-Exp-0782		tatA;tatB;tatC;tatD	Detected	
TU-Exp-0783	carAp2	carA;carB	Detected	
TU-Exp-0784	carAp1	carA;carB	Detected	
TU-Exp-0785	mreBp1	mreD;mreC;mreB	Detected	
TU-Exp-0786	mreBp2	mreD;mreC;mreB	Detected	
TU-Exp-0787	pdxHp	pdxY;tyrS;pdxH	Detected	
TU-Exp-0788		yrdB;aroE;rimN;yrdD	Detected	
TU-Exp-0789	nagBp	nagD;nagC;nagA;nagB	Detected	
TU-Exp-0790	yjbEp	yjbE;yjbF;yjbG;yjbH	Detected	
TU-Exp-0791	glmUp1	glmS;glmU	Detected	
TU-Exp-0792	glmUp2	glmS;glmU	Detected	
TU-Exp-0793	chpRp1	mazG;chpA;chpR	Detected	
TU-Exp-0794	adap	alkB;ada	Detected	
TU-Exp-0795		ansA;pncA	Detected	
TU-Exp-0796	aroKp1	trpS;gph;rpe;dam;damX;aroB;aroK	Detected	
TU-Exp-0797	damXp	trpS;gph;rpe;dam;damX	Detected	
TU-Exp-0798	rpep	trpS;gph;rpe	Detected	
TU-Exp-0799	damp2	trpS;gph;rpe;dam	Detected	
TU-Exp-0800	aroKp2	trpS;gph;rpe;dam;damX;aroB;aroK	Detected	
TU-Exp-0801	bdmp	sra;bdm		Boundary
TU-Exp-0802	cadBp	cadA;cadB	Detected	
TU-Exp-0803	cmkp	cmk;rpsA		Boundary
TU-Exp-0804	cutAp	cutA		Boundary
TU-Exp-0805	cvpAp2	ubiX;purF;cvpA	Detected	
TU-Exp-0806	dapAp	bamC;dapA	Detected	
TU-Exp-0807	dnaNp1	recF;dnaN		TSS
TU-Exp-0808	dnaNp3	recF;dnaN		TSS
TU-Exp-0809	dnaNp4	recF;dnaN		TSS
TU-Exp-0810	dnaNp2	recF;dnaN		TSS
TU-Exp-0811	dnaKp1	tpke11;dnaK;dnaJ	Detected	
TU-Exp-0812	dnaKp3	tpke11;dnaK;dnaJ	Detected	
TU-Exp-0813	dnaKp2	tpke11;dnaK;dnaJ	Detected	
TU-Exp-0814	ecpDp1	htrE;ecpD		Boundary
TU-Exp-0815	ecpDp3	htrE;ecpD		Boundary
TU-Exp-0816	ecpDp2	htrE;ecpD		Boundary

TU-Exp-0817	entCp	entC;entE;entB;entA;entH	Detected	
TU-Exp-0818	hcpp	hcr;hcp	Detected	
TU-Exp-0819	kdsCp	kdsC;lptC	Detected	
TU-Exp-0820	lexAp	lexA;dinF		Boundary
TU-Exp-0821	lptAp	lptA;lptB	Detected	
TU-Exp-0822	mdoGp1	mdoG;mdoH	Detected	
TU-Exp-0823	metBp	metB;metL	Detected	
TU-Exp-0824	metYp1	metY		Boundary
TU-Exp-0825	mprAp	mprA;emrA;emrB		Boundary
TU-Exp-0826	nlpDp1	rpoS;nlpD	Detected	
TU-Exp-0827	nlpDp2	rpoS;nlpD	Detected	
TU-Exp-0828	rpoSp	rpoS	Detected	
TU-Exp-0829	otsBp2	otsA;otsB	Detected	
TU-Exp-0830	otsBp	otsA;otsB	Detected	
TU-Exp-0831	otsAp	otsA	Detected	
TU-Exp-0832		ppk;ppx	Detected	
TU-Exp-0833	proVp1	proV;proW;proX	Detected	
TU-Exp-0834	proVp3	proV;proW;proX	Detected	
TU-Exp-0835	rlmLp	rlmL;uup	Detected	
TU-Exp-0836	alsRp1	alsE;alsC;alsA;alsB;rpiR		TSS
TU-Exp-0837	alsRp2	alsE;alsC;alsA;alsB;rpiR		TSS
TU-Exp-0838	rplKp	rplK;rplA;rplJ;rplL;rpoB;rpoC	Detected	
TU-Exp-0839	rplJp	rplJ;rplL;rpoB;rpoC	Detected	
TU-Exp-0840	rtcBp	rtcB;rtcA	Detected	
TU-Exp-0841		secM;secA;mutT	Detected	
TU-Exp-0842	tarp	cheZ;cheY;cheB;cheR;tap;tar		Boundary
TU-Exp-0843	thrLp	thrL;thrA;thrB;thrC	Detected	
TU-Exp-0844		ubiE;yigP;ubiB	Detected	
TU-Exp-0845	rpmFp	rpmF;plsX;fabH;fabD;fabG	Detected	
TU-Exp-0846		plsX;fabH;fabD;fabG		TSS
TU-Exp-0847	yhfGp	pabA;fic;yhfG	Detected	
TU-Exp-0848	yrbGp	yrbG;kdsD	Detected	
TU-Exp-0849	cirAp1	cirA	Detected	
TU-Exp-0850	cirAp2	cirA	Detected	
TU-Exp-0851	glpABCp	glpA;glpB;glpC	Detected	
TU-Exp-0852	glpFp	glpX;glpK;glpF		Boundary
TU-Exp-0853	trpLp	trpA;trpB;trpC;trpD;trpE;trpL	Detected	
TU-Exp-0854	yhdTp	yhdT;panF;prmA	Detected	
TU-Exp-0855		glmM;folP		Boundary
TU-Exp-0856		rspB;rspA	Detected	
TU-Exp-0857	codBp	codB;codA	Detected	
TU-Exp-0858	mglBp	mglC;mglA;mglB	Detected	
TU-Exp-0859	nanAp	yhch;nanK;nanE;nanT;nanA	Detected	
TU-Exp-0860	rpsMp2	rplQ;rpoA;rpsD;rpsK;rpsM	Detected	
TU-Exp-0861	serBp	serB;radA		Boundary
TU-Exp-0862	cydDp	cydC;cydD	Detected	
TU-Exp-0863	gltBp	gltB;gltD;gltF		Boundary
TU-Exp-0864	rncp	era;rnc		Boundary
TU-Exp-0865	yiaKp	yiaK;yiaL;yiaM;yiaN;yiaO;lyxK;sgbH;sgbU;sgbE	Detected	
TU-Exp-0866	yiaKp2	yiaK;yiaL;yiaM;yiaN;yiaO;lyxK;sgbH;sgbU;sgbE	Detected	
TU-Exp-0867	surEp2	pcm;surE	Detected	
TU-Exp-0868	nrdRp	nrdR;ribD;ribE;nusB;thiL;pgpA	Detected	
TU-Exp-0869	csgDp1	csgG;csgF;csgE;csgD	Detected	
TU-Exp-0870	sohAp	sohA;yhaV	Detected	
TU-Exp-0871	ydhYp	ydhT;ydhU;ydhX;ydhW;ydhV;ydhY	Detected	
TU-Exp-0872		dpiB;dpiA	Detected	
TU-Exp-0873	chpRp2	mazG;chpA;chpR	Detected	
TU-Exp-0874	mraZp	mraZ;mraW;ftsL;ftsI;murE;murF;mraY;murD;ftsW;murG;murC;ddlB;ftsQ;ftsA;ftsZ;lpxC	Detected	
TU-Exp-0875	pstSp	phoU;pstB;pstA;pstC;pstS	Detected	