

**Supplementary Table 14: Comparison of TUs to the computationally predicted TUs.**

<b>TU-Comp ID</b>	<b>Promoter</b>	<b>TU</b>	<b>This study</b>
TU-Comp-0001		C0067	Detected
TU-Comp-0002		C0293	Detected
TU-Comp-0003		C0299	
TU-Comp-0004		C0343;dbpA	Detected
TU-Comp-0005		C0362	Detected
TU-Comp-0006		C0465	Detected
TU-Comp-0007		C0614	Detected
TU-Comp-0008		C0664	
TU-Comp-0009		C0719	Detected
TU-Comp-0010		IS128	Detected
TU-Comp-0011		aaeR	Detected
TU-Comp-0012		aaeB;aaeA;aaeX	Detected
TU-Comp-0013		lpIT;aas	
TU-Comp-0014		aat	Detected
TU-Comp-0015		ogt;abgT;abgB;abgA	
TU-Comp-0016		abgR	Detected
TU-Comp-0017		abrB	Detected
TU-Comp-0018	accAp	accA	Detected
TU-Comp-0019	aceBp	aceB;aceA;aceK	Detected
TU-Comp-0020	ackAp	ackA	
TU-Comp-0021	acnAp1	acnA	Detected
TU-Comp-0022	acnBp1	acnB	Detected
TU-Comp-0023	acnBp2	acnB	Detected
TU-Comp-0024		acpH	Detected
TU-Comp-0025		acpT	Detected
TU-Comp-0026	acrBp	acrB	
TU-Comp-0027	acrDp	acrD	Detected
TU-Comp-0028	acrRp	acrR	Detected
TU-Comp-0029		add	Detected
TU-Comp-0030		ade	Detected
TU-Comp-0031	adhEp1	adhE	Detected
TU-Comp-0032	adhEp2	adhE	Detected
TU-Comp-0033		adhP	Detected
TU-Comp-0034		adiC	
TU-Comp-0035	adiYp	adiY	
TU-Comp-0036	adkp	adk	Detected
TU-Comp-0037		aegA	Detected
TU-Comp-0038	aerp	aer	Detected
TU-Comp-0039	agaRp	agaR	Detected
TU-Comp-0040	agaSp	agaS;kbaY;agaB;agaC;agaD;agaI	
TU-Comp-0041	ahpC	ahpC;ahpF	Detected
TU-Comp-0042	aidBp	aidB	Detected
TU-Comp-0043		ais	Detected
TU-Comp-0044	alkAp	alkA	Detected
TU-Comp-0045	allDp	ylbA;allC;allD	
TU-Comp-0046		alpA	Detected
TU-Comp-0047	alrp2	alr	
TU-Comp-0048	alrp1	alr	
TU-Comp-0049		alsK	
TU-Comp-0050		amiC	Detected
TU-Comp-0051	amnp1	amn	Detected
TU-Comp-0052		ampD;ampE	Detected
TU-Comp-0053		ampG	
TU-Comp-0054	ampHp1	ampH	Detected
TU-Comp-0055	ampHp2	ampH	Detected
TU-Comp-0056		anmK	Detected
TU-Comp-0057	ansBp2	ansB	Detected
TU-Comp-0058	ansBp1	ansB	Detected
TU-Comp-0059	ansPp1	ansP	Detected
TU-Comp-0060	ansPp2	ansP	Detected
TU-Comp-0061		apbE	

TU-Comp-0062		aphA	Detected
TU-Comp-0063	appCp	appC;appB;appA;yccB	
TU-Comp-0064	appAp	appA	Detected
TU-Comp-0065	appYp	appY	Detected
TU-Comp-0066	aptp	apt	Detected
TU-Comp-0067	araBp	araD;araA;araB	Detected
TU-Comp-0068	araCp	araC	Detected
TU-Comp-0069	araEp	araE	
TU-Comp-0070	araFp	araG;araF;araH	
TU-Comp-0071	araJp	araJ	Detected
TU-Comp-0072	arcAp1	arcA	Detected
TU-Comp-0073	arcAp3	arcA	Detected
TU-Comp-0074	arcAp2	arcA	Detected
TU-Comp-0075	arcAp7	arcA	Detected
TU-Comp-0076	arcAp5	arcA	Detected
TU-Comp-0077	arcAp6	arcA	Detected
TU-Comp-0078	arcAp4	arcA	Detected
TU-Comp-0079	argAp	argA	Detected
TU-Comp-0080	argCp	argC;argB;argH	Detected
TU-Comp-0081	argDp	argD	Detected
TU-Comp-0082	argEp1	argE	Detected
TU-Comp-0083	argEp2	argE	Detected
TU-Comp-0084	argFp	argF	Detected
TU-Comp-0085	argGp	argG	Detected
TU-Comp-0086	argIp	argI	Detected
TU-Comp-0087	argOp	argO	Detected
TU-Comp-0088	argRp1	argR	Detected
TU-Comp-0089	argRp2	argR	Detected
TU-Comp-0090		argS	Detected
TU-Comp-0091	argTp	hisP;hisM;hisQ;hisJ;argT	
TU-Comp-0092	hisJp	hisP;hisM;hisQ;hisJ	Detected
TU-Comp-0093		arnB;arnC;arnA;arnD;arnT;arnF;arnE	
TU-Comp-0094	trpSp	trpS	Detected
TU-Comp-0095	damp1	trpS;gph;rpe;dam	Detected
TU-Comp-0096	yaiAp	yaiA;aroM	Detected
TU-Comp-0097		arpA	Detected
TU-Comp-0098		arpB_1;arpB_2	
TU-Comp-0099	ascFp	ascF;ascB	Detected
TU-Comp-0100	ascGp	ascG	Detected
TU-Comp-0101		asd	Detected
TU-Comp-0102		aslA	Detected
TU-Comp-0103	aslBp	aslB	Detected
TU-Comp-0104		asmA	
TU-Comp-0105	asnAp	asnA	Detected
TU-Comp-0106	asnBp	asnB	Detected
TU-Comp-0107	mioCp	mioC	Detected
TU-Comp-0108		gidB;mnmg	Detected
TU-Comp-0109	asnSp	asnS	Detected
TU-Comp-0110	aspAp	dcuA;aspA	
TU-Comp-0111	aspCp	aspC	Detected
TU-Comp-0112	aspSp1	aspS	
TU-Comp-0113		aspT	Detected
TU-Comp-0114	aspUp	aspU	
TU-Comp-0115		atl	
TU-Comp-0116	atoDp	atoD;atoA;atoE;atoB	Detected
TU-Comp-0117		atoS;atoC	Detected
TU-Comp-0118	atpIp	atpC;atpD;atpG;atpA;atpH;atpF;atpE;atpB;atpI	Detected
TU-Comp-0119	avtAp	avtA	Detected
TU-Comp-0120		azoR	Detected
TU-Comp-0121	bacAp	bacA	Detected
TU-Comp-0122	bamAp2	bamA;hlpA;lpxD;fabZ;lpxA;lpxB;rnhB;dnaE	
TU-Comp-0123	lpxDp	lpxD	
TU-Comp-0124	bamAp	bamA	Detected

TU-Comp-0125		fabZ	
TU-Comp-0126	bamBp	der;bamB	
TU-Comp-0127	bamDp2	bamD	Detected
TU-Comp-0128	bamDp	bamD	Detected
TU-Comp-0129		barA	Detected
TU-Comp-0130		basS;basR	Detected
TU-Comp-0131		bax	Detected
TU-Comp-0132		bcr	
TU-Comp-0133	bcsBp	bcsZ;bcsB	
TU-Comp-0134		bcsE;bcsF;bcsG	Detected
TU-Comp-0135	betIp	betA;betB;betI	Detected
TU-Comp-0136	betTp	betT	Detected
TU-Comp-0137		bfr;bfd	
TU-Comp-0138		bglA	Detected
TU-Comp-0139		yieK;yieL;bglH	Detected
TU-Comp-0140		bhsA	Detected
TU-Comp-0141	bioAp	bioA	
TU-Comp-0142	bioBp	bioB;bioF;bioC;bioD	Detected
TU-Comp-0143		bioH	Detected
TU-Comp-0144		bisC	Detected
TU-Comp-0145		blr	Detected
TU-Comp-0146	borDp	borD	Detected
TU-Comp-0147	brnQp	brnQ;proY	Detected
TU-Comp-0148		bssR	Detected
TU-Comp-0149	bssSp	bssS	Detected
TU-Comp-0150	bssSp2	bssS	Detected
TU-Comp-0151	bssSp1	bssS	Detected
TU-Comp-0152	btuBp	btuB;murI	Detected
TU-Comp-0153		btuD;btuE;btuC	
TU-Comp-0154	cadAp	cadA	
TU-Comp-0155	cadCp	cadC	Detected
TU-Comp-0156	caiTp	caiE;caiD;caiC;caiB;caiA;caiT	Detected
TU-Comp-0157	carBp	carB	
TU-Comp-0158	cbpAp	cbpM;cbpA	Detected
TU-Comp-0159		cbrA	Detected
TU-Comp-0160		cbrB	
TU-Comp-0161		cbrC	
TU-Comp-0162	cddp	cdd	Detected
TU-Comp-0163		cdsA	
TU-Comp-0164		chaA	Detected
TU-Comp-0165		chaB;chaC	
TU-Comp-0166	chbBp	chbG;chbF;chbR;chbA;chbC;chbB	Detected
TU-Comp-0167	chpSp1	chpS;chpB	Detected
TU-Comp-0168	chpSp2	chpS;chpB	Detected
TU-Comp-0169		citG;citX;citF;citE;citD;citC	
TU-Comp-0170		citT	
TU-Comp-0171		clcA	Detected
TU-Comp-0172		clcB	Detected
TU-Comp-0173		clid	Detected
TU-Comp-0174	clpPp3	clpP;clpX	Detected
TU-Comp-0175	clpXp	clpX;lon	
TU-Comp-0176		clpS	
TU-Comp-0177	clsp	yciU;cls	Detected
TU-Comp-0178		yggC;yggD;yggF;cmtA;cmtB;yggP	
TU-Comp-0179	yggDp	yggC;yggD	Detected
TU-Comp-0180		cnu	Detected
TU-Comp-0181		yacG;yacF;coaE	Detected
TU-Comp-0182		cof	Detected
TU-Comp-0183	copAp	copA	Detected
TU-Comp-0184	cpdBp	cpdB	Detected
TU-Comp-0185	cpxRp	cpxA;cpxR	Detected
TU-Comp-0186		crcB	Detected
TU-Comp-0187	creAp2	creA;creB;creC	Detected

TU-Comp-0188	crpp1	crp	
TU-Comp-0189	crpp3	crp	
TU-Comp-0190	crpp2	crp	
TU-Comp-0191		csdA;csdE	Detected
TU-Comp-0192	csgCp	csgC	
TU-Comp-0193	csiEp	csiE	Detected
TU-Comp-0194		csiR	Detected
TU-Comp-0195	cspAp2	cspA	Detected
TU-Comp-0196	cspAp1	cspA	Detected
TU-Comp-0197	cspBp	cspB	Detected
TU-Comp-0198		cspF	Detected
TU-Comp-0199	cspGp	cspG	Detected
TU-Comp-0200		cspH	Detected
TU-Comp-0201	cspIp	cspI	Detected
TU-Comp-0202	csrAp	csrA	Detected
TU-Comp-0203		csrD	Detected
TU-Comp-0204	cueOp	cueO	Detected
TU-Comp-0205		cueR	Detected
TU-Comp-0206		cvrA	
TU-Comp-0207	cyaAp	cyaA	Detected
TU-Comp-0208	cyaAp2	cyaA	Detected
TU-Comp-0209	cyaAp1	cyaA	Detected
TU-Comp-0210		cyaY	Detected
TU-Comp-0211		cybB	Detected
TU-Comp-0212		cybC	Detected
TU-Comp-0213	cycAp	cycA	Detected
TU-Comp-0214	cydAp3	cydA;cydB	Detected
TU-Comp-0215	cydAp5	cydA;cydB	Detected
TU-Comp-0216	cydAp4	cydA;cydB	Detected
TU-Comp-0217	cydAp1	cydA;cydB	Detected
TU-Comp-0218	cydAp2	cydA;cydB	Detected
TU-Comp-0219	cynRp	cynR	Detected
TU-Comp-0220	cyoAp	cyoE;cyoD;cyoC;cyoB;cyoA	Detected
TU-Comp-0221	cysBp	cysB	Detected
TU-Comp-0222	cysHp	cysH	
TU-Comp-0223	cysJp	cysH;cysI;cysJ	Detected
TU-Comp-0224	cysKp1	cysK	Detected
TU-Comp-0225	cysKp2	cysK	Detected
TU-Comp-0226	cysPp	cysM;cysA;cysW;cysU;cysP	Detected
TU-Comp-0227		cysQ	Detected
TU-Comp-0228	cysSp	cysS	Detected
TU-Comp-0229		cysZ	Detected
TU-Comp-0230	cytRp	cytR	Detected
TU-Comp-0231		dacA	Detected
TU-Comp-0232		dacB	Detected
TU-Comp-0233	dacCp	dacC	Detected
TU-Comp-0234		dacD	Detected
TU-Comp-0235	dadAp2	dadA;dadX	Detected
TU-Comp-0236	dadAp1	dadA;dadX	Detected
TU-Comp-0237	dadAp3	dadA;dadX	Detected
TU-Comp-0238		vsr;dcn	Detected
TU-Comp-0239		dcp	Detected
TU-Comp-0240		dcrB	Detected
TU-Comp-0241	dcuCp	dcuC	Detected
TU-Comp-0242	dcuDp	dcuD	Detected
TU-Comp-0243	dcuDp2	dcuD	Detected
TU-Comp-0244	dcuSp	dcuR;dcuS	Detected
TU-Comp-0245	dcuRp	dcuR	Detected
TU-Comp-0246	dcyDp	yecC;yecS;dcyD	Detected
TU-Comp-0247		ddlA	Detected
TU-Comp-0248	ddpXp	ddpF;ddpD;ddpC;ddpB;ddpA;ddpX	Detected
TU-Comp-0249		deaD	Detected
TU-Comp-0250	degPp	degP	

TU-Comp-0251	degQp1	degQ;degS	
TU-Comp-0252	degQp2	degQ;degS	
TU-Comp-0253	deoAp	deoA;deoB;deoD	
TU-Comp-0254	dfpp	dfp	
TU-Comp-0255	dgkAp	dgkA	Detected
TU-Comp-0256		dgoT;dgoK;dgoA;dgoD;dgoR	
TU-Comp-0257		ynfK	Detected
TU-Comp-0258	dgsAp1	dgsA	Detected
TU-Comp-0259	dgsAp2	ynfK;dgsA	
TU-Comp-0260	dgtp1	dgt	Detected
TU-Comp-0261	dgtp2	dgt	Detected
TU-Comp-0262	dhaMp	dhaM	
TU-Comp-0263	dhaKp	dhaM;dhaL;dhaK	Detected
TU-Comp-0264	dhaRp	dhaR	Detected
TU-Comp-0265		diaA	
TU-Comp-0266		dicA	Detected
TU-Comp-0267		ydfW;ydfX;dicC	Detected
TU-Comp-0268		dicF	Detected
TU-Comp-0269		dinB	Detected
TU-Comp-0270		dinD	Detected
TU-Comp-0271	dinGp	dinG	Detected
TU-Comp-0272		dinI	Detected
TU-Comp-0273		yafQ;dinJ	Detected
TU-Comp-0274	yjdCp	yjdC	Detected
TU-Comp-0275		yjdC;dipZ	
TU-Comp-0276		djlA	Detected
TU-Comp-0277	dkgAp	dkgA	Detected
TU-Comp-0278		dkgB	Detected
TU-Comp-0279		dld	Detected
TU-Comp-0280	dmsAp1	dmsA;dmsB;dmsC	Detected
TU-Comp-0281	dmsAp2	dmsA;dmsB;dmsC	Detected
TU-Comp-0282	dnaAp1	recF;dnaN;dnaA	
TU-Comp-0283	dnaAp2	recF;dnaN;dnaA	
TU-Comp-0284	recFp1	recF	Detected
TU-Comp-0285	recFp2	recF	Detected
TU-Comp-0286	dnaBp	dnaB	
TU-Comp-0287		tpke11	
TU-Comp-0288		dnaQ	Detected
TU-Comp-0289	dnaQp1	dnaQ	Detected
TU-Comp-0290	dnaQp2	dnaQ	Detected
TU-Comp-0291	dppA	dppF;dppD;dppC;dppB;dppA	Detected
TU-Comp-0292	dpsp	dps	Detected
TU-Comp-0293		dsbB	Detected
TU-Comp-0294		dsbG	Detected
TU-Comp-0295	dsdCp	dsdC	Detected
TU-Comp-0296	dsdXp	dsdX;dsdA	Detected
TU-Comp-0297	dsdAp	dsdA	Detected
TU-Comp-0298		dsrA	Detected
TU-Comp-0299		dsrB	Detected
TU-Comp-0300		dtpB	
TU-Comp-0301		dusA	
TU-Comp-0302		dusC	Detected
TU-Comp-0303		dxr	
TU-Comp-0304		eaeH;insEF-1;insE-1;insF-1	
TU-Comp-0305		eamB	Detected
TU-Comp-0306	ebgAp	ebgA;ebgC	Detected
TU-Comp-0307	ebgRp	ebgR	Detected
TU-Comp-0308		ecnA;ecnB	
TU-Comp-0309		eco	Detected
TU-Comp-0310		efeO;efeB	
TU-Comp-0311	efeU_1p	efeU_2;efeU_1	
TU-Comp-0312	efpp	efp	Detected
TU-Comp-0313		elaA	Detected

TU-Comp-0314	elaBp	elaB	Detected
TU-Comp-0315		elaD	Detected
TU-Comp-0316		mtgA;elbB	Detected
TU-Comp-0317		emrD	Detected
TU-Comp-0318	emrKp	emrY;emrK	Detected
TU-Comp-0319		emtA	Detected
TU-Comp-0320	ybdBp	entH	
TU-Comp-0321	entSp1	entS	Detected
TU-Comp-0322	entSp2	entS	Detected
TU-Comp-0323		envR	Detected
TU-Comp-0324		ompT;envY	
TU-Comp-0325	ompTp	ompT	Detected
TU-Comp-0326		eptA	Detected
TU-Comp-0327		eptB	Detected
TU-Comp-0328		erfK	Detected
TU-Comp-0329	erpAp	erpA	Detected
TU-Comp-0330	essDp	essD;ybcS;rzpD	
TU-Comp-0331		ydfP;ydfQ;ydfR;essQ	
TU-Comp-0332		eutR;eutK;eutL;eutC;eutB	Detected
TU-Comp-0333		eutA;eutH	Detected
TU-Comp-0334		eutG;eutJ;eutE;eutN	Detected
TU-Comp-0335		eutM;eutD;eutT;eutQ;eutP;eutS	Detected
TU-Comp-0336	evgAp1	evgA;evgS	Detected
TU-Comp-0337	evgAp2	evgA;evgS	Detected
TU-Comp-0338	fabAp	fabA	Detected
TU-Comp-0339	fabBp	fabB	Detected
TU-Comp-0340	fabIp2	fabI	Detected
TU-Comp-0341	fabIp1	fabI	Detected
TU-Comp-0342	fabRp	fabR;yijD	Detected
TU-Comp-0343	fadBp	fadA;fadB	Detected
TU-Comp-0344	fadDp	fadD	Detected
TU-Comp-0345	fadEp	fadE	Detected
TU-Comp-0346		fadH	Detected
TU-Comp-0347	fadIp	fadJ;fadI	Detected
TU-Comp-0348	fadLp	fadL	Detected
TU-Comp-0349	fadRp	fadR	Detected
TU-Comp-0350	fbaBp	fbaB	Detected
TU-Comp-0351		fbp	Detected
TU-Comp-0352		fdhD	Detected
TU-Comp-0353	fdhFp	fdhF	Detected
TU-Comp-0354	fdnGp	fdnG;fdnH;fdnI	
TU-Comp-0355		fdhE;fdoI;fdoH;fdoG	
TU-Comp-0356		yIbE_1;yIbE_2;fdrA;yIbF;ybcF	
TU-Comp-0357	feoAp	feoA;feoB	
TU-Comp-0358		feoC	
TU-Comp-0359	fepAp	entD;fepA	Detected
TU-Comp-0360	fepBp	fepB	Detected
TU-Comp-0361	fepDp1	fepC;fepG;fepD	Detected
TU-Comp-0362	fepDp2	fepC;fepG;fepD	Detected
TU-Comp-0363	fesp	fes;entF;fepE;ybdZ	
TU-Comp-0364	ffhp	ffh	Detected
TU-Comp-0365		ffs	Detected
TU-Comp-0366	fhuAp	fhuA;fhuC;fhuD;fhuB	Detected
TU-Comp-0367	fhuFp	fhuF	Detected
TU-Comp-0368		fieF	Detected
TU-Comp-0369	fimAp	fimA;fimI;fimC;fimD;fimF;fimG;fimH	Detected
TU-Comp-0370		fimZ	Detected
TU-Comp-0371	fiup	fiu	
TU-Comp-0372		fkIb	Detected
TU-Comp-0373	fkpAp1	fkpA	Detected
TU-Comp-0374	fkpAp2	fkpA	Detected
TU-Comp-0375	furp1	fur;uof	Detected
TU-Comp-0376	fIbBp	fIbB	Detected

TU-Comp-0377	flgMp	flgN;flgM	Detected
TU-Comp-0378	flgAp	flgN;flgM;flgA	Detected
TU-Comp-0379	flgBp	flgB;flgC;flgD;flgE;flgF;flgG;flgH;flgI;flgJ	
TU-Comp-0380	flgKp	flgK;flgL	Detected
TU-Comp-0381	flhBp	flhE;flhA;flhB	
TU-Comp-0382	flhDp	flhC;flhD	Detected
TU-Comp-0383	fliCp	fliC	Detected
TU-Comp-0384	fliDp1	fliD;fliS;fliT	Detected
TU-Comp-0385	fliEp1	fliE	Detected
TU-Comp-0386	fliFp1	fliF;fliG;fliH;fliI;fliJ;fliK	Detected
TU-Comp-0387	fliFp	fliF;fliG;fliH;fliI;fliJ;fliK	Detected
TU-Comp-0388	fliLp1	fliL;fliM;fliN;fliO;fliP;fliQ;fliR	Detected
TU-Comp-0389	fliLp2	fliL;fliM;fliN;fliO;fliP;fliQ;fliR	Detected
TU-Comp-0390	flup1	flu	Detected
TU-Comp-0391	flup2	flu	Detected
TU-Comp-0392	fnrp	fnr	Detected
TU-Comp-0393		folB	Detected
TU-Comp-0394		dedD;folC	
TU-Comp-0395	foldp	ybcJ;folD	Detected
TU-Comp-0396		yeiB;folE	
TU-Comp-0397	fprp	fpr	Detected
TU-Comp-0398	frcp	frc	
TU-Comp-0399	frdAp	frdD;frdC;frdB;frdA	Detected
TU-Comp-0400	frep3	fre	
TU-Comp-0401	frep2	fre	
TU-Comp-0402	frep1	fre	
TU-Comp-0403		friA;friB;friD;friR;friC	
TU-Comp-0404		frmB;frmA;frmR	Detected
TU-Comp-0405		frr	
TU-Comp-0406	fruBp	fruA;fruK;fruB	Detected
TU-Comp-0407		fruR	Detected
TU-Comp-0408		frvR;frvX;frvB;frvA	Detected
TU-Comp-0409		frwC;frwB	
TU-Comp-0410		frwD	
TU-Comp-0411		fryA;ypdE;ypdF;fryC;fryB	Detected
TU-Comp-0412		fsaA	Detected
TU-Comp-0413		fsr	Detected
TU-Comp-0414		ftnA	Detected
TU-Comp-0415	ftnBp	ftnB	Detected
TU-Comp-0416	ftnBp2	ftnB	Detected
TU-Comp-0417		ftsB	
TU-Comp-0418	ftsKp1	ftsK	Detected
TU-Comp-0419	ftsKp2	ftsK	Detected
TU-Comp-0420	ftsKp3	ftsK	Detected
TU-Comp-0421		ftsP	Detected
TU-Comp-0422		ftsX;ftsE;ftsY	Detected
TU-Comp-0423	fucPp	fucP;fucI;fucK;fucU;fucR	
TU-Comp-0424	fumCp	fumC	Detected
TU-Comp-0425		mdtE;mdtF	Detected
TU-Comp-0426	gadEp1	gadE	
TU-Comp-0427	gadEp2	gadE	
TU-Comp-0428	galEp3	galM;galK;galT;galE	
TU-Comp-0429	galEp1	galM;galK;galT;galE	
TU-Comp-0430	galEp2	galM;galK;galT;galE	
TU-Comp-0431	galFp	galF	Detected
TU-Comp-0432	galPp	galP	
TU-Comp-0433	galRp	galR	Detected
TU-Comp-0434	galSp	galS	
TU-Comp-0435	gapAp2	gapA;yeaD	
TU-Comp-0436	gapAp3	gapA	Detected
TU-Comp-0437	gapAp1	gapA	Detected
TU-Comp-0438	gapAp4	gapA	Detected
TU-Comp-0439		yeaD	Detected

TU-Comp-0440	gapC_1p	gapC_1;gapC_2	
TU-Comp-0441		gatR_1	
TU-Comp-0442	gatR_2p	gatR_2	
TU-Comp-0443	gatZp	gatD;gatC;gatB;gatA;gatZ	
TU-Comp-0444	ybbYp	ybbY;glxK	
TU-Comp-0445	gclp	gcl;hyi;glxR;ybbV;ybbW;allB;ybbY;glxK	Detected
TU-Comp-0446	gcvAp	gcvA	Detected
TU-Comp-0447	bcp	bcp	Detected
TU-Comp-0448	gcvRp	gcvR;bcp	Detected
TU-Comp-0449	gcvTp	gcvP;gcvH;gcvT	Detected
TU-Comp-0450		gfcA	
TU-Comp-0451		gfcD;gfcC;gfcB	
TU-Comp-0452		etk;etp;gfcE	
TU-Comp-0453		ggt	Detected
TU-Comp-0454		ghrA	
TU-Comp-0455		ghrB	Detected
TU-Comp-0456	glcBp	glcA;glcB	
TU-Comp-0457		rfc;glf	
TU-Comp-0458		glgX;glgB	
TU-Comp-0459	glgCp1	glgP;glgA;glgC	Detected
TU-Comp-0460	glgCp2	glgP;glgA;glgC	Detected
TU-Comp-0461	glgCp3	glgP;glgA;glgC	Detected
TU-Comp-0462	glkp1	glk	Detected
TU-Comp-0463	glkp2	glk	Detected
TU-Comp-0464	glnLp	glnG;glnL	Detected
TU-Comp-0465	glnHp2	glnQ;glnP;glnH	Detected
TU-Comp-0466	glnHp1	glnQ;glnP;glnH	Detected
TU-Comp-0467	glnQp	glnQ	
TU-Comp-0468	gloAp	gloA	Detected
TU-Comp-0469		gloB	Detected
TU-Comp-0470	glpDp	glpD	Detected
TU-Comp-0471	glpTQp	glpQ;glpT	Detected
TU-Comp-0472	gltIp1	sroC;gltL;gltK;gltJ;gltI	
TU-Comp-0473	gltIp	sroC;gltL;gltK;gltJ;gltI	
TU-Comp-0474		gltP	Detected
TU-Comp-0475		gltS	Detected
TU-Comp-0476		ysdC;glvG;glvB;glvC	
TU-Comp-0477	glyAp	glyA	Detected
TU-Comp-0478	glyUp	glyU	Detected
TU-Comp-0479		glyU	Detected
TU-Comp-0480	gmhBp	gmhB	Detected
TU-Comp-0481		gmk	
TU-Comp-0482	gmrp	gmr	Detected
TU-Comp-0483		gnd	Detected
TU-Comp-0484	gnsBp	gnsB	Detected
TU-Comp-0485	nfuAp2	nfuA	
TU-Comp-0486	nfuAp1	nfuA	
TU-Comp-0487		gor	Detected
TU-Comp-0488	gorp	gor	Detected
TU-Comp-0489	gpmAp	gpmA	Detected
TU-Comp-0490	gpmMp	gpmM;envC;yibQ	Detected
TU-Comp-0491		gpp	
TU-Comp-0492		gpt	Detected
TU-Comp-0493		greB	Detected
TU-Comp-0494	groLp3	groL	Detected
TU-Comp-0495	groLp2	groL	Detected
TU-Comp-0496	groSp	groS;groL	Detected
TU-Comp-0497	groLp1	groL	Detected
TU-Comp-0498	grxAp	grxA	Detected
TU-Comp-0499		grxB	
TU-Comp-0500		grxC	
TU-Comp-0501		grxD	Detected
TU-Comp-0502		gshA	Detected



TU-Comp-0503		gsk	Detected
TU-Comp-0504	gsp	gsp	Detected
TU-Comp-0505	gspAp4	gspB;gspA	Detected
TU-Comp-0506	gspAp3	gspB;gspA	Detected
TU-Comp-0507	gspAp6	gspB;gspA	Detected
TU-Comp-0508	gspAp5	gspB;gspA	Detected
TU-Comp-0509	gspAp1	gspB;gspA	Detected
TU-Comp-0510	gspAp2	gspB;gspA	Detected
TU-Comp-0511	gspCp3	gspC;gspD;gspE;gspF;gspG;gspH;gspI;gspJ;gspK;gspL;gspM;gspO	Detected
TU-Comp-0512	gspCp1	gspC;gspD;gspE;gspF;gspG;gspH;gspI;gspJ;gspK;gspL;gspM;gspO	Detected
TU-Comp-0513	gspCp2	gspC;gspD;gspE;gspF;gspG;gspH;gspI;gspJ;gspK;gspL;gspM;gspO	Detected
TU-Comp-0514	gst	gst	Detected
TU-Comp-0515		guaC	Detected
TU-Comp-0516	gyrAp	gyrA	Detected
TU-Comp-0517	hcaRp	hcaR	
TU-Comp-0518		hcaT	
TU-Comp-0519		yhiD	
TU-Comp-0520	hdeDp2	hdeD	Detected
TU-Comp-0521	hdeDp	hdeD	Detected
TU-Comp-0522		hdfR	Detected
TU-Comp-0523	hdhAp	hdhA	Detected
TU-Comp-0524		helD	Detected
TU-Comp-0525		hemB	Detected
TU-Comp-0526		hemY;hemX;hemD;hemC	Detected
TU-Comp-0527	hemHp	hemH	Detected
TU-Comp-0528	hemLp	hemL	Detected
TU-Comp-0529	hepAp	rluA;hepA	Detected
TU-Comp-0530		hinT;ycfL;ycfM;thiK;nagZ;ycfP	Detected
TU-Comp-0531	hipBp	hipA;hipB	
TU-Comp-0532	hisSp	hisS	
TU-Comp-0533	hnsp	hns	Detected
TU-Comp-0534		hofP;hofO;hofN;hofM	
TU-Comp-0535		hofQ	
TU-Comp-0536		hokA	
TU-Comp-0537		hokB	
TU-Comp-0538	holCp	valS;holC	
TU-Comp-0539		holC	Detected
TU-Comp-0540	holDp	holD;rimI;yjjG	
TU-Comp-0541		holE	Detected
TU-Comp-0542	hptp	hpt	Detected
TU-Comp-0543		hrpA	Detected
TU-Comp-0544		hrpB	Detected
TU-Comp-0545	hscAp	iscX;fdx;hscA	Detected
TU-Comp-0546	hscBp	iscX;fdx;hscA;hscB	
TU-Comp-0547		hscC	Detected
TU-Comp-0548		hsdS;hsdM	Detected
TU-Comp-0549		hsdS;hsdM;hsdR	
TU-Comp-0550	hslJp	hslJ	Detected
TU-Comp-0551	hspQp	hspQ	Detected
TU-Comp-0552	htrGp2	htrG;cca	Detected
TU-Comp-0553	htrGp	htrG	
TU-Comp-0554		htrL	Detected
TU-Comp-0555		hyuA	
TU-Comp-0556	iaaAp	iaaA;gsiA;gsiB;gsiC;gsiD	Detected
TU-Comp-0557		iap	Detected
TU-Comp-0558	icdAp1	icd	Detected
TU-Comp-0559	icdAp2	icd	Detected
TU-Comp-0560		icdC	Detected
TU-Comp-0561	iclRp	iclR	Detected
TU-Comp-0562		idi	Detected
TU-Comp-0563		ileY	Detected
TU-Comp-0564	ilvCp	ilvC	Detected
TU-Comp-0565	ilvYp	ilvY	Detected

TU-Comp-0566	inaAp	inaA	Detected
TU-Comp-0567		insAB-1;insB-1;insA-1	
TU-Comp-0568		insAB-2;afuC;afuB;insB-2;insA-2	
TU-Comp-0569		insAB-3;insB-3;insA-3	
TU-Comp-0570		insAB-4;insB-4;insA-4	
TU-Comp-0571	insA-5p	insAB-5;insB-5;insA-5	
TU-Comp-0572		insA-7	
TU-Comp-0573		insB-7_1;insB-7_2	
TU-Comp-0574		insCD-1;insC-1;insD-1	
TU-Comp-0575		insCD-2;insD-2;insC-2	
TU-Comp-0576	insC-3p	insCD-3;insD-3;insC-3	
TU-Comp-0577		insCD-4;ygeN;ygeM;ygeO;insD-4;insC-4	
TU-Comp-0578		insCD-5;insC-5;insD-5;yqiG;yqiH;yqiI	
TU-Comp-0579		insCD-6;insC-6;insD-6	
TU-Comp-0580		insEF-2;insF-2;insE-2	
TU-Comp-0581		insEF-3;insE-3;insF-3	
TU-Comp-0582		insEF-4;insF-4;insE-4	
TU-Comp-0583		insEF-5;insE-5;insF-5	
TU-Comp-0584		insG	Detected
TU-Comp-0585		insH-1	Detected
TU-Comp-0586		insH-10	Detected
TU-Comp-0587		insH-11	Detected
TU-Comp-0588		insH-2	Detected
TU-Comp-0589		insH-3	Detected
TU-Comp-0590		insH-4	Detected
TU-Comp-0591		insH-5	Detected
TU-Comp-0592		insH-6	Detected
TU-Comp-0593		insH-7	Detected
TU-Comp-0594		insH-8	Detected
TU-Comp-0595		insH-9	Detected
TU-Comp-0596		insI-2	Detected
TU-Comp-0597		insJ	Detected
TU-Comp-0598		insL-1	Detected
TU-Comp-0599		insL-2	Detected
TU-Comp-0600		insL-3	Detected
TU-Comp-0601		insM;insI-3	
TU-Comp-0602		insN-1;insI-1;insO-1	
TU-Comp-0603		yjhW;insO-2;yjhV	
TU-Comp-0604		intA	Detected
TU-Comp-0605		intB	Detected
TU-Comp-0606		intD	Detected
TU-Comp-0607		intF	Detected
TU-Comp-0608		intG	Detected
TU-Comp-0609		intS	Detected
TU-Comp-0610		intZ	Detected
TU-Comp-0611	iraDp	iraD	
TU-Comp-0612	iraMp	iraM	
TU-Comp-0613	iraPp2	iraP	Detected
TU-Comp-0614		ispB	
TU-Comp-0615		ispF;ispD	
TU-Comp-0616		ispG	
TU-Comp-0617	ispUp1	ispU	
TU-Comp-0618	ispUp2	ispU	
TU-Comp-0619		isrA	Detected
TU-Comp-0620		isrB	Detected
TU-Comp-0621		isrC	Detected
TU-Comp-0622	istR-1p	istR-1	
TU-Comp-0623	istR-2p	istR-2	
TU-Comp-0624		ivy	Detected
TU-Comp-0625	katGp	katG	Detected
TU-Comp-0626	kbaZp	kbaZ;agaV;agaW;agaA	
TU-Comp-0627	kblp	tdh;kbl	Detected
TU-Comp-0628	kchp	kch	Detected

TU-Comp-0629		kdgK	Detected
TU-Comp-0630		kdgR	Detected
TU-Comp-0631		kdgT	
TU-Comp-0632		kdpE;kdpD	Detected
TU-Comp-0633		kduD	
TU-Comp-0634		kduI	
TU-Comp-0635	kefAp	kefA	Detected
TU-Comp-0636		kefF;kefC	Detected
TU-Comp-0637		kefB;kefG;yheV	
TU-Comp-0638		kgtP	Detected
TU-Comp-0639		kiIR;ydaE	
TU-Comp-0640		kptA	Detected
TU-Comp-0641	kupp3	kup	Detected
TU-Comp-0642	kupp2	kup	Detected
TU-Comp-0643	kupp1	kup	Detected
TU-Comp-0644		lafU	Detected
TU-Comp-0645		ldcA	
TU-Comp-0646	ldhAp	ldhA	Detected
TU-Comp-0647		ldrA	Detected
TU-Comp-0648		ldrB	Detected
TU-Comp-0649		ldrC	Detected
TU-Comp-0650		leuE	Detected
TU-Comp-0651	leuLp	leuD;leuC;leuB;leuA;leuL	Detected
TU-Comp-0652		cobC;nadD;holA;lptE;leuS	
TU-Comp-0653		lfhA	Detected
TU-Comp-0654		thyA;lgt	Detected
TU-Comp-0655	ligAp	ligA;ypeB	
TU-Comp-0656		ligB	Detected
TU-Comp-0657		ligT	
TU-Comp-0658	lipAp	lipA	Detected
TU-Comp-0659		lit	Detected
TU-Comp-0660	lldPp	lldP;lldR;lldD	Detected
TU-Comp-0661		lolA;rarA	Detected
TU-Comp-0662	prsp	prs	Detected
TU-Comp-0663		lolC;lolD;lolE	Detected
TU-Comp-0664		lomR_2;stfR;tfaR	
TU-Comp-0665		lpcA	
TU-Comp-0666	lptBp	lptB;rpoN;hpf;ptsN;yhbJ	
TU-Comp-0667	rpoNp	rpoN	
TU-Comp-0668	impp1	lptD	
TU-Comp-0669	impp2	lptD	
TU-Comp-0670		lptF;lptG	
TU-Comp-0671		lpxM	Detected
TU-Comp-0672	lpxPp	lpxP	Detected
TU-Comp-0673	lrhAp	lrhA	Detected
TU-Comp-0674	lrpp	lrp	Detected
TU-Comp-0675		luxS	Detected
TU-Comp-0676	lysAp	lysA	Detected
TU-Comp-0677	lysCp1	lysC	Detected
TU-Comp-0678	lysCp2	lysC	Detected
TU-Comp-0679	lysPp	lysP	Detected
TU-Comp-0680		lysQ	
TU-Comp-0681	lysRp	lysR	Detected
TU-Comp-0682	lysUp1	lysU	Detected
TU-Comp-0683	lysUp2	lysU	Detected
TU-Comp-0684		lysZ	
TU-Comp-0685		maa	Detected
TU-Comp-0686	macBp1	macB	
TU-Comp-0687	macBp2	macB	
TU-Comp-0688		macA;macB	Detected
TU-Comp-0689		maeA	Detected
TU-Comp-0690		maeB	Detected
TU-Comp-0691		mak	Detected

TU-Comp-0692	malIp	malI	Detected
TU-Comp-0693	malKp	malK;lambB;malM	Detected
TU-Comp-0694	malPp	malQ;malP	Detected
TU-Comp-0695	malSp	malS	Detected
TU-Comp-0696	manXp	manX;manY;manZ	Detected
TU-Comp-0697		dapD;glnD;map	
TU-Comp-0698		matA	Detected
TU-Comp-0699		matB	
TU-Comp-0700	matCp1	yagV;yagW;yagX;matC	
TU-Comp-0701	matCp2	yagV;yagW;yagX;matC	
TU-Comp-0702		mcbA	
TU-Comp-0703		mcbR	
TU-Comp-0704		mcrA	Detected
TU-Comp-0705		mdaB	Detected
TU-Comp-0706	mdhp	mdh	Detected
TU-Comp-0707		mdIA;mdIB	
TU-Comp-0708		mdoB	Detected
TU-Comp-0709		mdoC	Detected
TU-Comp-0710		mdoD	Detected
TU-Comp-0711		baeS;baeR	
TU-Comp-0712		mdtG	Detected
TU-Comp-0713		mdtH	Detected
TU-Comp-0714		mdtI;mdtJ	Detected
TU-Comp-0715		mdtK	Detected
TU-Comp-0716		mdtL	Detected
TU-Comp-0717		yjiN;mdtM	
TU-Comp-0718		mdtP;mdtO;mdtN	
TU-Comp-0719		mdtQ	Detected
TU-Comp-0720	menAp1	rraA;menA	
TU-Comp-0721	rraAp	rraA	Detected
TU-Comp-0722	menDp	menE;menC;menB;menH;menD	
TU-Comp-0723	menBp	menE;menC;menB	Detected
TU-Comp-0724		menE;menC;menB;menH;menD;menF	
TU-Comp-0725	metCp	metC	Detected
TU-Comp-0726	metEp	metE	Detected
TU-Comp-0727	metFp	metF	Detected
TU-Comp-0728	metGp	metG	Detected
TU-Comp-0729	metHp	metH	Detected
TU-Comp-0730	metKp	metK	Detected
TU-Comp-0731	metRp1	metR	Detected
TU-Comp-0732	metRp2	metR	Detected
TU-Comp-0733	glnWp	glnX;glnV;metU;glnW	Detected
TU-Comp-0734	mfdp2	mfd	Detected
TU-Comp-0735	mfdp1	mfd	Detected
TU-Comp-0736	mgIAp	mgIC;mgIA	
TU-Comp-0737	mgrBp	mgrB	
TU-Comp-0738	mgsAp	mgsA	Detected
TU-Comp-0739	mgtAp2	mgtA	
TU-Comp-0740	mgtAp1	mgtA	
TU-Comp-0741	mhpRp	lacI;mhpR	Detected
TU-Comp-0742	lacIp	lacI	
TU-Comp-0743		mhpT	Detected
TU-Comp-0744		miaB	Detected
TU-Comp-0745		minE;minD;minC	Detected
TU-Comp-0746	mipAp	mipA	Detected
TU-Comp-0747		mliC	
TU-Comp-0748		mIra	Detected
TU-Comp-0749		mIra	Detected
TU-Comp-0750		mIra	Detected
TU-Comp-0751		mIra	Detected
TU-Comp-0752	mIra	mIra	Detected
TU-Comp-0753		mmuP;mmuM	Detected
TU-Comp-0754	mngRp	mngR	Detected

TU-Comp-0755	mnmA	mnmA	
TU-Comp-0756		mnmC	Detected
TU-Comp-0757		mnmE	Detected
TU-Comp-0758	mntHp	mntH	Detected
TU-Comp-0759		mntR;ybiR	Detected
TU-Comp-0760	moaAp2	moaA;moaB;moaC;moaD;moaE	Detected
TU-Comp-0761	moaAp1	moaA;moaB;moaC;moaD;moaE	Detected
TU-Comp-0762	moaBp	moaB;moaC;moaD;moaE	Detected
TU-Comp-0763	mobAp	mobB;mobA	Detected
TU-Comp-0764	modAp	modA;modB;modC	Detected
TU-Comp-0765	modAp1	modA;modB;modC	Detected
TU-Comp-0766		modF;modE	Detected
TU-Comp-0767	moeAp	moeB;moeA	Detected
TU-Comp-0768		mog	Detected
TU-Comp-0769		mokB	
TU-Comp-0770		mokC;hokC	
TU-Comp-0771		molR_2	
TU-Comp-0772		molR_3;yehI	
TU-Comp-0773	motAp	cheW;cheA;motB;motA	Detected
TU-Comp-0774	mplp1	mpl	Detected
TU-Comp-0775	mplp2	mpl	Detected
TU-Comp-0776		mppA	Detected
TU-Comp-0777		mqsR	Detected
TU-Comp-0778		ygiT;mqsR	
TU-Comp-0779	lpxCp2	lpxC	Detected
TU-Comp-0780	ftsQp1	ftsQ;ftsA;ftsZ	
TU-Comp-0781	mraWp1	mraW;ftsL;ftsI;murE;murF;mraY;murD;ftsW;murG;murC;ddlB;ftsQ;ftsA;ftsZ;lpxC	Detected
TU-Comp-0782	ftsLp1	ftsL;ftsI;murE;murF;mraY;murD;ftsW;murG;murC;ddlB;ftsQ;ftsA;ftsZ;lpxC	Detected
TU-Comp-0783	ftsZp4	ftsZ	
TU-Comp-0784	ftsZp3	ftsZ	
TU-Comp-0785	ftsZp2	ftsZ	
TU-Comp-0786	ftsAp1	ftsA;ftsZ	
TU-Comp-0787	ftsLp2	ftsL;ftsI;murE;murF;mraY;murD;ftsW;murG;murC;ddlB;ftsQ;ftsA;ftsZ;lpxC	Detected
TU-Comp-0788	lpxCp	lpxC	Detected
TU-Comp-0789	ftsQp2	ftsQ	
TU-Comp-0790	mrcAp	mrcA	Detected
TU-Comp-0791	mrcBp	mrcB	Detected
TU-Comp-0792	mreCp	mreD;mreC	
TU-Comp-0793		mrr	Detected
TU-Comp-0794		mrr	Detected
TU-Comp-0795	mscLp	mscL	Detected
TU-Comp-0796	mscSp	mscS	Detected
TU-Comp-0797		msrB	
TU-Comp-0798	msyBp	msyB	Detected
TU-Comp-0799		mtfA	Detected
TU-Comp-0800	mtnp	yadS;btuF;mtn	Detected
TU-Comp-0801		mug	Detected
TU-Comp-0802		murA	Detected
TU-Comp-0803		murB;birA	Detected
TU-Comp-0804		murQ;murP;yfeW	
TU-Comp-0805		mutH	Detected
TU-Comp-0806	nupGp	nupG	Detected
TU-Comp-0807	nadAp	nadA;pnuC	
TU-Comp-0808	nadBp	nadB	Detected
TU-Comp-0809		nadC	Detected
TU-Comp-0810	nadEp	nadE	Detected
TU-Comp-0811		nadK	Detected
TU-Comp-0812	nagDp	nagD	Detected
TU-Comp-0813	nagAp	nagA	
TU-Comp-0814	nagCp1	nagC	
TU-Comp-0815	nagCp2	nagC	
TU-Comp-0816		nagK;cobB	Detected
TU-Comp-0817		nanC	Detected

TU-Comp-0818	nanCp	nanM;nanC	
TU-Comp-0819		nanR	Detected
TU-Comp-0820	ccmAp	ccmH;ccmG;ccmF;ccmE;ccmD;ccmC;ccmB;ccmA	Detected
TU-Comp-0821	napFp3	napC;napB;napH;napG;napA;napD;napF	
TU-Comp-0822	napFp1	ccmH;ccmG;ccmF;ccmE;ccmD;ccmC;ccmB;ccmA;napC;napB;napH;napG;napA;napD;napF	
TU-Comp-0823	napFp2	ccmH;ccmG;ccmF;ccmE;ccmD;ccmC;ccmB;ccmA;napC;napB;napH;napG;napA;napD;napF	
TU-Comp-0824	narGp	narG;narH;narJ;narI	Detected
TU-Comp-0825	narKp1	narK	Detected
TU-Comp-0826	narKp2	narK	Detected
TU-Comp-0827	narPp	narP	Detected
TU-Comp-0828		narQ	Detected
TU-Comp-0829	narUp1	narU	
TU-Comp-0830	narUp2	narU	
TU-Comp-0831	narXp	narL;narX	Detected
TU-Comp-0832	narZp	narV;narW;narY;narZ	
TU-Comp-0833	narWp	narV;narW	
TU-Comp-0834	ndhp	ndh	Detected
TU-Comp-0835		ndk	Detected
TU-Comp-0836		nemA	
TU-Comp-0837		nemR	
TU-Comp-0838	nfo	nfo	
TU-Comp-0839		nfrA;nfrB	
TU-Comp-0840	nfsBp	nfsB	Detected
TU-Comp-0841	nhaAp2	nhaA;nhaR	Detected
TU-Comp-0842		nhaR	
TU-Comp-0843	nhaAp1	nhaA;nhaR	Detected
TU-Comp-0844		nhaB	Detected
TU-Comp-0845		nhoA	Detected
TU-Comp-0846	nikRp	nikR	Detected
TU-Comp-0847	nirBp	nirB;nirD;nirC;cysG	
TU-Comp-0848	nlpAp	nlpA	Detected
TU-Comp-0849		nlpC	Detected
TU-Comp-0850	rpoSp1	rpoS	Detected
TU-Comp-0851	rpoSp3	rpoS	Detected
TU-Comp-0852	rpoSp4	rpoS	Detected
TU-Comp-0853	rpoSp2	rpoS	Detected
TU-Comp-0854		nlpI	Detected
TU-Comp-0855	nohAp	tfaQ;ydfN;nohA	Detected
TU-Comp-0856		nohB	
TU-Comp-0857		norR	Detected
TU-Comp-0858	norRp	norR	Detected
TU-Comp-0859	nrdAp	nrdA;nrdB	
TU-Comp-0860	nrdDp	nrdG;nrdD	Detected
TU-Comp-0861	ribEp	ribE;nusB;thiL;pgpA	Detected
TU-Comp-0862	nrfAp	nrfA;nrfB;nrfC;nrfD;nrfE;nrfF;nrfG	Detected
TU-Comp-0863		nudC;hemE;nfi	Detected
TU-Comp-0864		nudE	Detected
TU-Comp-0865		parE;yqiA;cpdA;yqiB;nudF	
TU-Comp-0866		nudG	Detected
TU-Comp-0867		nudI	Detected
TU-Comp-0868		nudK	Detected
TU-Comp-0869	nupCp	nupC	Detected
TU-Comp-0870		nupX	
TU-Comp-0871		ogrK	Detected
TU-Comp-0872	ompCp1	ompC	
TU-Comp-0873	ompFp	ompF	Detected
TU-Comp-0874		ompG	
TU-Comp-0875		ompL	Detected
TU-Comp-0876		ompN	Detected
TU-Comp-0877	ompWp	ompW	Detected
TU-Comp-0878	ompXp1	ompX	Detected

TU-Comp-0879	oppA	oppA;oppB;oppC;oppD;oppF	Detected
TU-Comp-0880		orn	Detected
TU-Comp-0881	osmCp1	osmC	Detected
TU-Comp-0882	osmCp2	osmC	Detected
TU-Comp-0883	osmFp2	yehW;yehX;yehY;osmF	Detected
TU-Comp-0884	osmFp	yehW;yehX;yehY;osmF	Detected
TU-Comp-0885	osmYp	osmY	
TU-Comp-0886		oxc	
TU-Comp-0887	oxyRp	oxyR	Detected
TU-Comp-0888		oxyS	Detected
TU-Comp-0889		pabB;nudL	Detected
TU-Comp-0890		pabC;yceG;tmk;holB;ycfH	Detected
TU-Comp-0891		pagB	Detected
TU-Comp-0892	pagPp	pagP	Detected
TU-Comp-0893		panD	Detected
TU-Comp-0894		yajL;panE	Detected
TU-Comp-0895		parC	Detected
TU-Comp-0896		pbl	Detected
TU-Comp-0897		pbpG	Detected
TU-Comp-0898	pckp	pck	Detected
TU-Comp-0899	tyrSp2	pdxY;tyrS	Detected
TU-Comp-0900	pdxKp1	pdxK	Detected
TU-Comp-0901		pepA	Detected
TU-Comp-0902		pepB	
TU-Comp-0903		pepE	Detected
TU-Comp-0904	pepNp	pepN	Detected
TU-Comp-0905	pepQp	pepQ;yigZ;trkH;hemG	Detected
TU-Comp-0906	pepTp	pepT	Detected
TU-Comp-0907		perR	Detected
TU-Comp-0908	pfkAp2	pfkA	Detected
TU-Comp-0909		pflA	Detected
TU-Comp-0910		pflD;pflC	
TU-Comp-0911	pgaAp	pgaD;pgaC;pgaB;pgaA	Detected
TU-Comp-0912	pgip	pgi	Detected
TU-Comp-0913		pgl	Detected
TU-Comp-0914		pgpB	Detected
TU-Comp-0915	pgsAp	pgsA phnE;phnP;phnO;phnN;phnM;phnL;phnK;phnJ;phnI;phnH;phnG;phnF;phnE;phnD;	Detected
TU-Comp-0916	phnCp	phnC	
TU-Comp-0917	phnLp	phnP;phnO;phnN;phnM;phnL	
TU-Comp-0918	phoAp	phoA;psiF	Detected
TU-Comp-0919	phoBp	phoB;phoR	Detected
TU-Comp-0920	phoEp	phoE	Detected
TU-Comp-0921	phoPp2	phoQ;phoP	Detected
TU-Comp-0922	phoPp3	phoQ;phoP	Detected
TU-Comp-0923		pinE	Detected
TU-Comp-0924		pinH	Detected
TU-Comp-0925		pinQ	Detected
TU-Comp-0926		pinR	Detected
TU-Comp-0927	pitAp	pitA	Detected
TU-Comp-0928	pitBp	pitB	Detected
TU-Comp-0929		pldA	Detected
TU-Comp-0930		pldB;yigL	Detected
TU-Comp-0931		plsC	Detected
TU-Comp-0932	pmbAp	pmbA	
TU-Comp-0933		pmrD	Detected
TU-Comp-0934	pncBp	pncB	Detected
TU-Comp-0935	polAp	polA	Detected
TU-Comp-0936	polBp	polB	Detected
TU-Comp-0937		potD;potC;potB;potA	Detected
TU-Comp-0938	poxAp	poxA	Detected
TU-Comp-0939	ltaEp	ybjT;ltaE	Detected
TU-Comp-0940		ybjT;ltaE;poxB	Detected

TU-Comp-0941	ppap	ppa	Detected
TU-Comp-0942	ppcp	ppc	Detected
TU-Comp-0943	ppdAp	recC;ppdC;ygdB;ppdB;ppdA	
TU-Comp-0944	recCp	recC	Detected
TU-Comp-0945		hofC;hofB;ppdD	
TU-Comp-0946	pphAp	pphA	Detected
TU-Comp-0947		pphB	Detected
TU-Comp-0948		lpxH;ppiB	Detected
TU-Comp-0949	ppiCp	ppiC	Detected
TU-Comp-0950	ppiDp1	ppiD	
TU-Comp-0951	ppiDp2	ppiD	
TU-Comp-0952		pppA	Detected
TU-Comp-0953	ppsp	pps	Detected
TU-Comp-0954		pptA	Detected
TU-Comp-0955	pqiAp1	pqiA;pqiB	
TU-Comp-0956	pqiAp2	pqiA;pqiB	
TU-Comp-0957		pqqL	Detected
TU-Comp-0958		prfC	
TU-Comp-0959		priA	Detected
TU-Comp-0960		ybaM;priC	Detected
TU-Comp-0961	prkBp	prkB	
TU-Comp-0962	prlCp	yhiQ;prlC	Detected
TU-Comp-0963		yfcL;yfcM;yfcA;mepA;aroC;prmB	Detected
TU-Comp-0964		proB;proA	Detected
TU-Comp-0965	proCp	proC	Detected
TU-Comp-0966	proPp1	proP	Detected
TU-Comp-0967	proPp2	proP	Detected
TU-Comp-0968		prc;proQ	Detected
TU-Comp-0969	proVp2	proV;proW;proX	Detected
TU-Comp-0970	prpBp	prpB;prpC;prpD;prpE	Detected
TU-Comp-0971	prpRp	prpR	Detected
TU-Comp-0972		pscG;pscK	
TU-Comp-0973	psdp	yjeP;psd	Detected
TU-Comp-0974	psiEp	psiE	Detected
TU-Comp-0975	pspEp	pspE	Detected
TU-Comp-0976	pspBp	pspB;pspC;pspD;pspE	
TU-Comp-0977	pspAp	pspA;pspB;pspC;pspD;pspE	Detected
TU-Comp-0978	pspGp	pspG	
TU-Comp-0979		alx;psrN	
TU-Comp-0980		pssA	Detected
TU-Comp-0981	ptrAp	ptrA	Detected
TU-Comp-0982		recD;recB;ptrA	
TU-Comp-0983	ptrBp	ptrB	Detected
TU-Comp-0984		gldA;fsaB;ptsA	Detected
TU-Comp-0985	purCp	purC	Detected
TU-Comp-0986	purEp	purK;purE	Detected
TU-Comp-0987	purHp	purD;purH	Detected
TU-Comp-0988	purLp	purL	Detected
TU-Comp-0989	purMp	purM;purN	Detected
TU-Comp-0990	purRp	purR	Detected
TU-Comp-0991		purT	Detected
TU-Comp-0992		purU	
TU-Comp-0993	putAp	putA	Detected
TU-Comp-0994	putPp2	putP	Detected
TU-Comp-0995		puuA	
TU-Comp-0996		puuC;puuB;puuE	
TU-Comp-0997	puuDp	puuD;puuR	
TU-Comp-0998	puuPp	puuP	
TU-Comp-0999	pykAp2	pykA	Detected
TU-Comp-1000	pykAp1	pykA	Detected
TU-Comp-1001	pykFp1	pykF	Detected
TU-Comp-1002	pykFp2	pykF	Detected
TU-Comp-1003	pyrCp	pyrC	Detected



TU-Comp-1004	pyrDp	pyrD	Detected
TU-Comp-1005	pyrGp2	eno;pyrG	Detected
TU-Comp-1006	pyrGp1	eno;pyrG	Detected
TU-Comp-1007	pyrGp	eno;pyrG	Detected
TU-Comp-1008	enop	eno	Detected
TU-Comp-1009	pyrHp	pyrH	Detected
TU-Comp-1010	pyrLp1	pyrI;pyrB;pyrL	Detected
TU-Comp-1011	pyrLp2	pyrI;pyrB;pyrL	Detected
TU-Comp-1012		ybbJ;qmcA	Detected
TU-Comp-1013	qorp	qor	Detected
TU-Comp-1014	qseBp2	qseB;qseC	Detected
TU-Comp-1015	qseBp1	qseB;qseC	Detected
TU-Comp-1016	queAp	queA	
TU-Comp-1017		queC	Detected
TU-Comp-1018	queFp	queF	Detected
TU-Comp-1019		racC	Detected
TU-Comp-1020		racR	Detected
TU-Comp-1021	raiAp	raiA	Detected
TU-Comp-1022		rarD	
TU-Comp-1023	ravAp	viaA;ravA	Detected
TU-Comp-1024		rbn	Detected
TU-Comp-1025	rcnAp	rcnA	Detected
TU-Comp-1026	rcnRp	rcnR	Detected
TU-Comp-1027		rscC	Detected
TU-Comp-1028		rscB	Detected
TU-Comp-1029		rscD;rscB	
TU-Comp-1030		yaeB;rscF	Detected
TU-Comp-1031		rdgC	Detected
TU-Comp-1032		rdIA	Detected
TU-Comp-1033		rdIB	Detected
TU-Comp-1034		rdIC	Detected
TU-Comp-1035		intR;ydaQ;ydaC;lar;recT;recE	Detected
TU-Comp-1036	recNp	recN	Detected
TU-Comp-1037		recQ	
TU-Comp-1038		relE;relB	
TU-Comp-1039		hokD	
TU-Comp-1040		rem	Detected
TU-Comp-1041		renD;emrE	
TU-Comp-1042		emrE	Detected
TU-Comp-1043		rfaE	Detected
TU-Comp-1044		rfaH	Detected
TU-Comp-1045	rfaZp	waaU;rfaZ	
TU-Comp-1046	rfaQp2	waaU;rfaZ;rfaY;rfaJ;rfaI;rfaB;rfaS;rfaP;rfaG;rfaQ	Detected
TU-Comp-1047	rfaQp1	waaU;rfaZ;rfaY;rfaJ;rfaI;rfaB;rfaS;rfaP;rfaG;rfaQ	Detected
TU-Comp-1048	rfbAp	rfbX;rfbC;rfaA	
TU-Comp-1049		rfbX;rfbC;rfaA;rfaD;rfaB	
TU-Comp-1050		rfe;wzzE;rffE;rffD;rffG;rffH;rffC;rffA;wzxE;wzyE;rffM;rffT	
TU-Comp-1051	rhaBp	rhaD;rhaA;rhaB	
TU-Comp-1052		rhaM	
TU-Comp-1053	rhaSp	rhaS;rhaR	Detected
TU-Comp-1054	rhaTp	rhaT	Detected
TU-Comp-1055		rhIB	
TU-Comp-1056		rhIE	Detected
TU-Comp-1057	yibAp	yibA	Detected
TU-Comp-1058		rhsA;yibA	
TU-Comp-1059		rhsB	
TU-Comp-1060		rhsC;ybfB	Detected
TU-Comp-1061		rhsD;ybbC;yibH;ybbD	
TU-Comp-1062		rhsE;ydcD	
TU-Comp-1063		rhtA	Detected
TU-Comp-1064		rhtB	Detected
TU-Comp-1065		rhtC	
TU-Comp-1066	ribAp1	ribA	Detected

TU-Comp-1067	ribAp2	ribA	Detected
TU-Comp-1068	ribBp	ribB	
TU-Comp-1069		ribC	Detected
TU-Comp-1070		rihA	Detected
TU-Comp-1071	rihBp	rihB	
TU-Comp-1072		rihC	
TU-Comp-1073	rimJp	rimJ	
TU-Comp-1074	yliGp	rimO	
TU-Comp-1075		rlmF	Detected
TU-Comp-1076		rlmG	Detected
TU-Comp-1077		rlmN	Detected
TU-Comp-1078		rluB	Detected
TU-Comp-1079		rluC	Detected
TU-Comp-1080		yfiH;rluD	Detected
TU-Comp-1081		nudJ;rluE	Detected
TU-Comp-1082		rluF	Detected
TU-Comp-1083		rmf	Detected
TU-Comp-1084		rmuC	
TU-Comp-1085	rnap	rna	Detected
TU-Comp-1086		rnd	Detected
TU-Comp-1087	rnep2	rne	Detected
TU-Comp-1088	rnep1	rne	Detected
TU-Comp-1089		rnk	Detected
TU-Comp-1090	yfjOp	yfjO	Detected
TU-Comp-1091		rnIA;yfjO	
TU-Comp-1092	lhrp	lhr	
TU-Comp-1093		rnt;lhr	Detected
TU-Comp-1094	robp	rob	Detected
TU-Comp-1095	alsBp	alsE;alsC;alsA;alsB	
TU-Comp-1096	rplMp	rpsI;rplM	Detected
TU-Comp-1097	rplNp	rpmJ;secY;rplO;rpmD;rpsE;rplR;rplF;rpsH;rpsN;rplE;rplX;rplN	Detected
TU-Comp-1098		rpmA;rplU	Detected
TU-Comp-1099		rplY	Detected
TU-Comp-1100	rpmEp	rpmE	Detected
TU-Comp-1101	rseAp3	rseC;rseB;rseA	Detected
TU-Comp-1102		rpoZ;spoT;trmH;recG	Detected
TU-Comp-1103		ptsP;rppH	
TU-Comp-1104	rpsFp	rpsF;priB;rpsR;rplI	Detected
TU-Comp-1105	rpsJp	rpsQ;rpmC;rplP;rpsC;rplV;rpsS;rplB;rplW;rplD;rplC;rpsJ	Detected
TU-Comp-1106	rpsLp	tufA;fusA;rpsG;rpsL	
TU-Comp-1107	tufAp	tufA	Detected
TU-Comp-1108	fusAp	tufA;fusA	
TU-Comp-1109	rpsMp1	rplQ;rpoA;rpsD;rpsK;rpsM	Detected
TU-Comp-1110	rraBp	rraB	Detected
TU-Comp-1111		rrmA	Detected
TU-Comp-1112	rrlAp	rrlA;rrfA	
TU-Comp-1113	rrsAp2	rrsA;ileT;alaT;rrlA;rrfA	Detected
TU-Comp-1114	rrlBp	rrlB;rrfB	
TU-Comp-1115	rrsBp2	rrsB;glT;rrlB;rrfB	Detected
TU-Comp-1116	rrlEp	rrlE;rrfE	
TU-Comp-1117	rrsEp2	rrsE;glT;rrlE;rrfE	Detected
TU-Comp-1118	rrfGp	rrfG	Detected
TU-Comp-1119	rrlHp	rrlH;rrfH	
TU-Comp-1120	rsdp1	rsd	Detected
TU-Comp-1121	rsdp2	rsd	Detected
TU-Comp-1122	rsePp	rseP	
TU-Comp-1123		rsgA	Detected
TU-Comp-1124		rsmB	
TU-Comp-1125		rsmC	Detected
TU-Comp-1126		rsmD;yhhL	Detected
TU-Comp-1127		rsmE;gshB	Detected
TU-Comp-1128		rsmF	Detected
TU-Comp-1129	rstAp	rstA;rstB	Detected

TU-Comp-1130		rsuA	
TU-Comp-1131		rtn	Detected
TU-Comp-1132		rttR	
TU-Comp-1133	rumAp	rumA	Detected
TU-Comp-1134	rutAp	rutG;rutF;rutE;rutD;rutC;rutB;rutA	Detected
TU-Comp-1135		rybA	Detected
TU-Comp-1136		rydB	Detected
TU-Comp-1137		ryeC	Detected
TU-Comp-1138		ryeD	Detected
TU-Comp-1139		ryfA	Detected
TU-Comp-1140		rygD	Detected
TU-Comp-1141		rzoD	
TU-Comp-1142		rzoR	
TU-Comp-1143		sad	Detected
TU-Comp-1144		sanA;yeiS	Detected
TU-Comp-1145		sapF;sapD;sapC;sapB;sapA	
TU-Comp-1146	sbcDp	sbcC;sbcD	Detected
TU-Comp-1147	sbmAp	sbmA;yaiW	
TU-Comp-1148	sbmCp2	sbmC	
TU-Comp-1149	sbmCp1	sbmC	
TU-Comp-1150		sbp	Detected
TU-Comp-1151	scpAp	scpA;argK;scpB;scpC	Detected
TU-Comp-1152	sdhDp2	sdhD;sdhA;sdhB	
TU-Comp-1153		sdiA	Detected
TU-Comp-1154		gpsA;secB	Detected
TU-Comp-1155		secG	
TU-Comp-1156		selB;selA	Detected
TU-Comp-1157		selC	Detected
TU-Comp-1158		serB	
TU-Comp-1159		radA;nadR	
TU-Comp-1160	serSp	serS	Detected
TU-Comp-1161	argQp	argQ	Detected
TU-Comp-1162		setB	Detected
TU-Comp-1163		setC	Detected
TU-Comp-1164		sfmA	Detected
TU-Comp-1165		sfmC;sfmD	Detected
TU-Comp-1166		sfmH;sfmF	Detected
TU-Comp-1167		sfsB	
TU-Comp-1168		sgcR;sgcE;sgcA;sgcQ;sgcC;sgcX;sgcB	
TU-Comp-1169	sgrRp	sroA;thiQ;thiP;tbpA;sgrR	
TU-Comp-1170	sgrSp	sgrT;setA;sgrS	
TU-Comp-1171		shiA	Detected
TU-Comp-1172		sieB	Detected
TU-Comp-1173		sirA	Detected
TU-Comp-1174	sixAp	sixA	Detected
TU-Comp-1175		slt	Detected
TU-Comp-1176		slyA	Detected
TU-Comp-1177	slyBp1	slyB	Detected
TU-Comp-1178	slyBp2	slyB	Detected
TU-Comp-1179		slyD	Detected
TU-Comp-1180		slyX	Detected
TU-Comp-1181		smg	Detected
TU-Comp-1182	smpAp	smpA	Detected
TU-Comp-1183		smpB	Detected
TU-Comp-1184	sodAp	sodA	
TU-Comp-1185	sodBp	sodB	Detected
TU-Comp-1186	sohBp1	sohB	Detected
TU-Comp-1187	sohBp2	sohB	Detected
TU-Comp-1188		sokB	Detected
TU-Comp-1189		sokC	Detected
TU-Comp-1190	solAp	yceO;sola	
TU-Comp-1191	soxSp	soxS	Detected
TU-Comp-1192	speAp	speB;speA	

TU-Comp-1193	speCp2	speC	Detected
TU-Comp-1194	speCp1	speC	Detected
TU-Comp-1195		potE;speF	
TU-Comp-1196	spf	spf	Detected
TU-Comp-1197		sppA	Detected
TU-Comp-1198	sprp	spr	Detected
TU-Comp-1199	srIRp	srIR	
TU-Comp-1200		srmB	Detected
TU-Comp-1201	ssbp3	ssb	Detected
TU-Comp-1202		sscR	
TU-Comp-1203	sseAp	sseA	Detected
TU-Comp-1204		sseB	
TU-Comp-1205		ssrA	Detected
TU-Comp-1206		ygfA;rygC	
TU-Comp-1207	sstTp	sstT	Detected
TU-Comp-1208		tfaE;stfE	Detected
TU-Comp-1209	sthAp	sthA	Detected
TU-Comp-1210	sufAp	sufE;sufS;sufD;sufC;sufB;sufA	Detected
TU-Comp-1211	sugEp	sugE	Detected
TU-Comp-1212	sulAp	sulA	Detected
TU-Comp-1213		sxy	Detected
TU-Comp-1214		syd	Detected
TU-Comp-1215		tag;yiaC	Detected
TU-Comp-1216	talAp	talA	
TU-Comp-1217	talAp1	talA	
TU-Comp-1218	talAp2	talA	
TU-Comp-1219		tas	Detected
TU-Comp-1220		tatD	
TU-Comp-1221		tatE	Detected
TU-Comp-1222	tdcBp	tdcF;tdcE;tdcD;tdcC;tdcB;tdcG	
TU-Comp-1223		tdcR	Detected
TU-Comp-1224		tdk	Detected
TU-Comp-1225	tehAp	tehA;tehB	Detected
TU-Comp-1226	tesAp	ybbO;tesA	Detected
TU-Comp-1227	tesBp	tesB	Detected
TU-Comp-1228		tfaD	Detected
TU-Comp-1229		tfaS	Detected
TU-Comp-1230		tfaX	Detected
TU-Comp-1231	rpsBp	rpsB;tsf;tff	
TU-Comp-1232		thiH;thiG;thiF;thiE;thiC;thiS	
TU-Comp-1233		thiI	Detected
TU-Comp-1234	thiMp	thiD;thiM	
TU-Comp-1235	ihfAp4	ihfA	Detected
TU-Comp-1236	thrSp2	ihfA;pheT;pheS;pheM;rplT;rpmI;infC;thrS	
TU-Comp-1237	tigp1	tig	Detected
TU-Comp-1238	tigp	tig	Detected
TU-Comp-1239	tigp3	tig	Detected
TU-Comp-1240		tiIS	
TU-Comp-1241	tktAp2	tktA	Detected
TU-Comp-1242	tktAp1	tktA	Detected
TU-Comp-1243		tldD	Detected
TU-Comp-1244	tnaCp	tnaC;tnaA;tnaB	
TU-Comp-1245		tolB;pal;ybgF	Detected
TU-Comp-1246	tolCp	tolC;ygiA;ygiB;ygiC	
TU-Comp-1247	tomBp1	hha;tomB	
TU-Comp-1248	topAp1	topA	Detected
TU-Comp-1249	topAp5	topA	Detected
TU-Comp-1250	topAp2	topA	Detected
TU-Comp-1251	topAp4	topA	Detected
TU-Comp-1252	topAp3	topA	Detected
TU-Comp-1253	torCp	torC;torA;torD	Detected
TU-Comp-1254		torI	Detected
TU-Comp-1255	torRp	torR	Detected

TU-Comp-1256		torS	Detected
TU-Comp-1257		torT	Detected
TU-Comp-1258		tp2	Detected
TU-Comp-1259	tpiAp2	tpiA	Detected
TU-Comp-1260	tpiAp	tpiA	Detected
TU-Comp-1261		tpke70	Detected
TU-Comp-1262	tppBp	tppB	Detected
TU-Comp-1263	tpxp	tpx	Detected
TU-Comp-1264	tqsAp	tqsA	Detected
TU-Comp-1265		treF	Detected
TU-Comp-1266	trgp1	trg	Detected
TU-Comp-1267	trgp	trg	Detected
TU-Comp-1268	trkAp	trkA	
TU-Comp-1269		trkG	Detected
TU-Comp-1270		yggL;trmI	Detected
TU-Comp-1271	trmJp	trmJ	Detected
TU-Comp-1272	trpHp	trpH;yciO;yciQ	
TU-Comp-1273		trpT	Detected
TU-Comp-1274		truD	
TU-Comp-1275	trxAp1	trxA	Detected
TU-Comp-1276	trxAp2	trxA	Detected
TU-Comp-1277	trxBp	trxB	Detected
TU-Comp-1278	trxCp	trxC	Detected
TU-Comp-1279	tsgAp	tsgA	Detected
TU-Comp-1280	tsrp	tsr	Detected
TU-Comp-1281	tsrp1	tsr	Detected
TU-Comp-1282		ttcA	Detected
TU-Comp-1283		ttdR	Detected
TU-Comp-1284		tus	Detected
TU-Comp-1285		tynA	
TU-Comp-1286		typA	Detected
TU-Comp-1287	tyrVp	tpr;tyrV	
TU-Comp-1288	ubiCp	ubiC;ubiA	Detected
TU-Comp-1289		ubiD	
TU-Comp-1290		ubiF	Detected
TU-Comp-1291	ubiGp	ubiG	Detected
TU-Comp-1292	ucpAp1	ucpA	Detected
TU-Comp-1293	ucpAp2	ucpA	Detected
TU-Comp-1294	dcdp	dcd	
TU-Comp-1295		dcd;udk	
TU-Comp-1296	udpP	udp	
TU-Comp-1297		ugd	Detected
TU-Comp-1298	ugpBp1	ugpQ;ugpC;ugpE;ugpA;ugpB	Detected
TU-Comp-1299	ugpBp2	ugpQ;ugpC;ugpE;ugpA;ugpB	Detected
TU-Comp-1300		uhpC;uhpB;uhpA	
TU-Comp-1301	uhpTp	uhpT	Detected
TU-Comp-1302	uidAp	uidC;uidB;uidA	Detected
TU-Comp-1303		ulaR	Detected
TU-Comp-1304		ushA	Detected
TU-Comp-1305	uspBp	uspB	Detected
TU-Comp-1306		uspC	Detected
TU-Comp-1307	uspEp	uspE	Detected
TU-Comp-1308	uspFp	uspF	Detected
TU-Comp-1309	uspGp	uspG	Detected
TU-Comp-1310	uvrAp	uvrA	Detected
TU-Comp-1311	uvrBp2	uvrB	Detected
TU-Comp-1312	uvrDp1	uvrD	Detected
TU-Comp-1313	uvrYp2	uvrC;uvrY	Detected
TU-Comp-1314	uvrCp3	uvrC	
TU-Comp-1315	vacJp	vacJ	Detected
TU-Comp-1316		valZ;lysY	Detected
TU-Comp-1317	vesp	ves	Detected
TU-Comp-1318	waaAp1	waaA	

TU-Comp-1319	waaAp2	waaA	
TU-Comp-1320	waaAp1	waaA;coaD	Detected
TU-Comp-1321		wbbK;wbbJ;wbbI	
TU-Comp-1322		wbbL_2	
TU-Comp-1323		wzxC;wcaJ;cpsG;cpsB;wcaI;gmm;fcl;gmd;wcaF;wcaE;wcaD;wcaC	
TU-Comp-1324		wcaM;wcaL;wcaK	Detected
TU-Comp-1325		wecH	Detected
TU-Comp-1326	wrbAp	yccJ;wrbA	Detected
TU-Comp-1327	wzap	wcaB;wcaA;wzc;wzb;wza	
TU-Comp-1328	wzap2	wzc;wzb;wza	
TU-Comp-1329	xapRp1	xapR	Detected
TU-Comp-1330	xapRp2	xapR	Detected
TU-Comp-1331	xdhAp	xdhA;xdhB;xdhC	Detected
TU-Comp-1332	xerDp	recJ;dsbC;xerD	Detected
TU-Comp-1333	dsbCp	dsbC	
TU-Comp-1334		xerD	
TU-Comp-1335		lysS;prfB	Detected
TU-Comp-1336	dsbCp2	prfB;recJ;dsbC	
TU-Comp-1337	xseAp	xseA	Detected
TU-Comp-1338	xthAp	xthA	Detected
TU-Comp-1339		xyIE	Detected
TU-Comp-1340		yaaA	Detected
TU-Comp-1341		yaaH	Detected
TU-Comp-1342		yaaI	
TU-Comp-1343		yaaJ	Detected
TU-Comp-1344		yaaU	Detected
TU-Comp-1345		yaaW	
TU-Comp-1346		yaaX	Detected
TU-Comp-1347	yabIp	yabI	Detected
TU-Comp-1348		yabP;yabQ	
TU-Comp-1349		yacH	Detected
TU-Comp-1350	yaclp	yaclL	Detected
TU-Comp-1351		yadD	Detected
TU-Comp-1352		yadE	Detected
TU-Comp-1353		yadG;yadH	
TU-Comp-1354		yadI	
TU-Comp-1355	yadCp	yadC	Detected
TU-Comp-1356		yadC;yadK;yadL;yadM	
TU-Comp-1357		yadN	Detected
TU-Comp-1358		yaeF	Detected
TU-Comp-1359		yaeH	Detected
TU-Comp-1360		yaeI	Detected
TU-Comp-1361		rof;yaeP	Detected
TU-Comp-1362		yaeQ;yaeJ;nlpE	Detected
TU-Comp-1363		yaeR	
TU-Comp-1364		yafC	Detected
TU-Comp-1365	yafDp	yafD;yafE	Detected
TU-Comp-1366		yafF	Detected
TU-Comp-1367		yafJ	
TU-Comp-1368		yafK	Detected
TU-Comp-1369		yafL	
TU-Comp-1370		yafM	
TU-Comp-1371	yafNp	yafN;yafO;yafP	Detected
TU-Comp-1372		yafS	Detected
TU-Comp-1373		yafT	Detected
TU-Comp-1374	yafUp	yafU	
TU-Comp-1375	yafVp	yafV	Detected
TU-Comp-1376	ykfGp	ykfI;yafW;ykfG;ykfH	
TU-Comp-1377		ykfI;yafW;ykfG;yafX;ykfF;ykfB;yafY;ykfH	
TU-Comp-1378		yagB;yagA;ykgN	
TU-Comp-1379		yagE;yagF	
TU-Comp-1380		yagG;yagH	
TU-Comp-1381		yagI	Detected

TU-Comp-1382		yagJ	Detected
TU-Comp-1383		yagK	Detected
TU-Comp-1384		yagL;yagM	Detected
TU-Comp-1385		yagN	Detected
TU-Comp-1386		yagP	
TU-Comp-1387		yagQ;yagR;yagS;yagT	
TU-Comp-1388		yagU	Detected
TU-Comp-1389		yahB	Detected
TU-Comp-1390		yahC	Detected
TU-Comp-1391		yahD;yahE;yahF;yahG	Detected
TU-Comp-1392		yahH	
TU-Comp-1393		yahI;yahJ	Detected
TU-Comp-1394		yahK	Detected
TU-Comp-1395		yahL	Detected
TU-Comp-1396		yahM	Detected
TU-Comp-1397		yahN	Detected
TU-Comp-1398	yahOp	yahO	Detected
TU-Comp-1399	yaiEp	yaiE	Detected
TU-Comp-1400		yaiF	
TU-Comp-1401		yaiI	Detected
TU-Comp-1402		yaiL	Detected
TU-Comp-1403		yaiP	
TU-Comp-1404	yaiSp	yaiS	Detected
TU-Comp-1405		yaiT	Detected
TU-Comp-1406		yaiU	
TU-Comp-1407		yaiV	
TU-Comp-1408		yaiO;yaiX	Detected
TU-Comp-1409		yaiY	Detected
TU-Comp-1410		yaiZ	Detected
TU-Comp-1411		yajD	Detected
TU-Comp-1412		yajG	
TU-Comp-1413		yajI	Detected
TU-Comp-1414	yajQp	yajQ	Detected
TU-Comp-1415	yajRp	yajR	Detected
TU-Comp-1416		ybaA	Detected
TU-Comp-1417	ybaBp	ybaB;recR	Detected
TU-Comp-1418		ybaE	Detected
TU-Comp-1419		ybaK	Detected
TU-Comp-1420	ybaLp	ybaL	Detected
TU-Comp-1421		ybaN	Detected
TU-Comp-1422	ybaOp	ybaO	
TU-Comp-1423		ybaP	Detected
TU-Comp-1424		ybaQ	Detected
TU-Comp-1425		ybaV	
TU-Comp-1426		ybaW	
TU-Comp-1427		ybaY	Detected
TU-Comp-1428		ybbA;ybbP	Detected
TU-Comp-1429		ybbB	
TU-Comp-1430		ybbL;ybbM	Detected
TU-Comp-1431	ybbNp1	ybbN	Detected
TU-Comp-1432	ybbNp2	ybbN	Detected
TU-Comp-1433		ybcC	
TU-Comp-1434		ybcD	
TU-Comp-1435		ybcH	
TU-Comp-1436		ybcI	Detected
TU-Comp-1437		ybcK	Detected
TU-Comp-1438		ybcL;ybcM	Detected
TU-Comp-1439		ybcN;ninE;ybcO;rusA;ylcG	
TU-Comp-1440		ybcQ	
TU-Comp-1441		ybcV	Detected
TU-Comp-1442		ybcW	Detected
TU-Comp-1443		ybcY	Detected
TU-Comp-1444		ybdD	

TU-Comp-1445		ybdF	
TU-Comp-1446		ybdG	Detected
TU-Comp-1447		ybdH	Detected
TU-Comp-1448		ybdJ	
TU-Comp-1449		ybdK	Detected
TU-Comp-1450		ybdL	Detected
TU-Comp-1451		ybdM	
TU-Comp-1452		ybdN	
TU-Comp-1453		ybdO	Detected
TU-Comp-1454		ybdR	Detected
TU-Comp-1455	ybeBp	rlpA;mrdB;mrdA;ybeA;ybeB	Detected
TU-Comp-1456		lipB	Detected
TU-Comp-1457		ybeD	Detected
TU-Comp-1458	ybeDp	lipB;ybeD	
TU-Comp-1459		ybeF	Detected
TU-Comp-1460		ybeH;ybeM	
TU-Comp-1461	ybeLp	ybeL	Detected
TU-Comp-1462		ybeQ	Detected
TU-Comp-1463		ybeR;djlB	Detected
TU-Comp-1464		ybeT	Detected
TU-Comp-1465		ybeU;djlC	Detected
TU-Comp-1466		ybeY;ybeZ	
TU-Comp-1467		Int;ybeX	Detected
TU-Comp-1468	ybeZp	Int;ybeX;ybeY;ybeZ	Detected
TU-Comp-1469		ybfA	Detected
TU-Comp-1470		ybfD	Detected
TU-Comp-1471		ybfF	
TU-Comp-1472		ybfL	Detected
TU-Comp-1473		ybfM	
TU-Comp-1474		ybfN	
TU-Comp-1475		ybfO;ybfC	
TU-Comp-1476		ybfP	Detected
TU-Comp-1477		ybfQ	Detected
TU-Comp-1478	phrBp	phr	
TU-Comp-1479		ybgC;tolQ;tolR;tolA	Detected
TU-Comp-1480		ybgD	
TU-Comp-1481		ybgE	Detected
TU-Comp-1482		ybgH	Detected
TU-Comp-1483		ybgO;ybgP;ybgQ	
TU-Comp-1484		ybgS	Detected
TU-Comp-1485		ybgT	Detected
TU-Comp-1486		ybhA	Detected
TU-Comp-1487		ybhB	Detected
TU-Comp-1488	ybhCp	ybhC	Detected
TU-Comp-1489		ybhD	Detected
TU-Comp-1490		ybhH	
TU-Comp-1491		ybhI	
TU-Comp-1492		ybhJ	
TU-Comp-1493		ybhL	Detected
TU-Comp-1494		ybhM	Detected
TU-Comp-1495		ybhN;ybhO;ybhP	Detected
TU-Comp-1496	ybhQp	ybhQ	Detected
TU-Comp-1497		ybhT	Detected
TU-Comp-1498		ybiA	Detected
TU-Comp-1499		ybiB	Detected
TU-Comp-1500		ybiC	Detected
TU-Comp-1501		ybhR;ybhS;ybhF;ybhG;ybiH	Detected
TU-Comp-1502		ybiI	Detected
TU-Comp-1503		ybiJ	Detected
TU-Comp-1504		ybiO	Detected
TU-Comp-1505		ybiP	Detected
TU-Comp-1506	ybisp	ybiS	Detected
TU-Comp-1507		ybiT	Detected



TU-Comp-1508		ybiU	
TU-Comp-1509		ybiV	
TU-Comp-1510		ybiX	Detected
TU-Comp-1511		ybiW;ybiY	Detected
TU-Comp-1512	ybjNp	ybjN	Detected
TU-Comp-1513		ybjD	Detected
TU-Comp-1514		ybjE	Detected
TU-Comp-1515	ybjGp	ybjG	
TU-Comp-1516		ybjH	
TU-Comp-1517		ybjI;ybjJ	
TU-Comp-1518		ybjK	Detected
TU-Comp-1519		ybjL	Detected
TU-Comp-1520		ybjM	Detected
TU-Comp-1521		ybjO;rumB	
TU-Comp-1522	ybjPp	ybjP	Detected
TU-Comp-1523	ybjQp	ybjQ;amiD	Detected
TU-Comp-1524		ybjS	Detected
TU-Comp-1525	ybjXp	ybjX	Detected
TU-Comp-1526	ycaCp	ycaC	Detected
TU-Comp-1527		ycaD	Detected
TU-Comp-1528		ycaI;msbA;lpXK;ycaQ	
TU-Comp-1529		ycaK	Detected
TU-Comp-1530		ycaL	Detected
TU-Comp-1531		ycaM	Detected
TU-Comp-1532		ycaN	Detected
TU-Comp-1533	ycaOp	ycaO	Detected
TU-Comp-1534		ycaP	Detected
TU-Comp-1535	ycaRp	ycaR;kdsB	Detected
TU-Comp-1536	ycbBp	ycbB	Detected
TU-Comp-1537		ycbC	Detected
TU-Comp-1538	ycbGp	ycbG	Detected
TU-Comp-1539	ycbJp	ycbJ	Detected
TU-Comp-1540	ycbKp	ycbK;ycbL	Detected
TU-Comp-1541		ycbQ	
TU-Comp-1542		ycbR;ycbS;ycbT;ycbU;ycbV;ycbF	
TU-Comp-1543		ycbW	Detected
TU-Comp-1544		ycbX	Detected
TU-Comp-1545		ycbZ	Detected
TU-Comp-1546	yccAp	yccA	Detected
TU-Comp-1547	yccEp	yccE	Detected
TU-Comp-1548		yccS;yccF	Detected
TU-Comp-1549		yccK	Detected
TU-Comp-1550		yccM	Detected
TU-Comp-1551		yccT	Detected
TU-Comp-1552		yccU	Detected
TU-Comp-1553		yccW	Detected
TU-Comp-1554		yccX	Detected
TU-Comp-1555		ycdT	Detected
TU-Comp-1556		ycdX;ycdY	Detected
TU-Comp-1557		ycdZ	Detected
TU-Comp-1558	yceAp	yceA	Detected
TU-Comp-1559		yceB	
TU-Comp-1560		fabH;fabD;fabG	Detected
TU-Comp-1561		yceF	Detected
TU-Comp-1562		yceH	
TU-Comp-1563	yceJp	yceI;yceJ	Detected
TU-Comp-1564		yceK	Detected
TU-Comp-1565		yceM	
TU-Comp-1566		yceN	Detected
TU-Comp-1567		yceQ	Detected
TU-Comp-1568		yceD	Detected
TU-Comp-1569		yceJ	Detected
TU-Comp-1570		yceQ	Detected

TU-Comp-1571	ycfSp	ycfS	Detected
TU-Comp-1572		ycfT	Detected
TU-Comp-1573	ycgBp	ycgB	Detected
TU-Comp-1574	ycgEp	ycgE	Detected
TU-Comp-1575		ycgF	Detected
TU-Comp-1576		ycgG	Detected
TU-Comp-1577		ycgH_1	
TU-Comp-1578		ycgH_2	
TU-Comp-1579		ycgJ	Detected
TU-Comp-1580		ycgK	Detected
TU-Comp-1581	ycgLp	ycgL	
TU-Comp-1582		ycgM	
TU-Comp-1583		ycgN	Detected
TU-Comp-1584	ycgRp	ycgR	Detected
TU-Comp-1585		ycgV	Detected
TU-Comp-1586		ycgX	Detected
TU-Comp-1587		ycgY	Detected
TU-Comp-1588		ycgZ	
TU-Comp-1589		ychE	Detected
TU-Comp-1590		ychE_2;yhcF	
TU-Comp-1591		ychG_1;ychG_2	
TU-Comp-1592	ychHp	ychH	Detected
TU-Comp-1593	ychHp	ychH	Detected
TU-Comp-1594	ychJp	ychJ	
TU-Comp-1595		ychM	Detected
TU-Comp-1596		ychN	Detected
TU-Comp-1597	ychOp	ychO	Detected
TU-Comp-1598		ychS	Detected
TU-Comp-1599		yciA	Detected
TU-Comp-1600		yciB;yciC	Detected
TU-Comp-1601	yciIp	yciI	Detected
TU-Comp-1602		btuR;yciK	Detected
TU-Comp-1603		yciN	Detected
TU-Comp-1604	yciSp	yciS;yciM;pyrF;yciH	
TU-Comp-1605	pyrFp	pyrF;yciH	Detected
TU-Comp-1606		yciS;yciM	Detected
TU-Comp-1607		yciW	Detected
TU-Comp-1608		yciY	Detected
TU-Comp-1609	yciZp	yciT;yciZ	Detected
TU-Comp-1610		ycjD	
TU-Comp-1611	ycjGp	ycjG	Detected
TU-Comp-1612		ycjM;ycjN;ycjO;ycjP;ycjQ;ycjR;ycjS;ycjT;ycjU;ycjV;ymjB	
TU-Comp-1613		ycjW	Detected
TU-Comp-1614	ycjXp	ycjX;ycjF;tyrR	
TU-Comp-1615		ycjX;ycjF	Detected
TU-Comp-1616		ycjY	
TU-Comp-1617		ycjZ	Detected
TU-Comp-1618		ydaG;ydaF	
TU-Comp-1619		ydaL	Detected
TU-Comp-1620		ydaM	Detected
TU-Comp-1621	ydaNp	ydaN	Detected
TU-Comp-1622		ydaS;ydaT;ydaU;ydaV;ydaW;rzpR	
TU-Comp-1623		ydbA_1	
TU-Comp-1624		ydbA_2	
TU-Comp-1625		ydbC	Detected
TU-Comp-1626	ydbD	ydbD	Detected
TU-Comp-1627		ydbH;ynbE;ydbL	Detected
TU-Comp-1628		ydbJ	Detected
TU-Comp-1629		ydbK	Detected
TU-Comp-1630		ydcA	Detected
TU-Comp-1631		ydcC	
TU-Comp-1632		ydcF	Detected
TU-Comp-1633		ydcH	Detected

TU-Comp-1634		ydcI	Detected
TU-Comp-1635		ydcJ	Detected
TU-Comp-1636		ydcK	Detected
TU-Comp-1637		ydcL	Detected
TU-Comp-1638		ydcM	Detected
TU-Comp-1639		ydcN	
TU-Comp-1640		ydcO	Detected
TU-Comp-1641		ydcP	
TU-Comp-1642	ydcRp	ydcR	Detected
TU-Comp-1643		ydcS;ydcT;ydcU;ydcV	
TU-Comp-1644		ydcW	
TU-Comp-1645		ydcX	Detected
TU-Comp-1646		ydcY	Detected
TU-Comp-1647		yddB;yddA	Detected
TU-Comp-1648		yddE	Detected
TU-Comp-1649		yddG	Detected
TU-Comp-1650		yddH	Detected
TU-Comp-1651		yddJ;yddK;yddL	Detected
TU-Comp-1652		yddM	Detected
TU-Comp-1653		yddW	Detected
TU-Comp-1654	ydeAp	ydeA	Detected
TU-Comp-1655		ydeE	Detected
TU-Comp-1656	ydeHp	ydeH	Detected
TU-Comp-1657	ydeHp	ydeH	Detected
TU-Comp-1658		ydeI	Detected
TU-Comp-1659		ydeJ	Detected
TU-Comp-1660		ydeK	
TU-Comp-1661		ydeM	
TU-Comp-1662		ydeN	
TU-Comp-1663	ydePp	ydeP	Detected
TU-Comp-1664	ydeQp	ydeQ	Detected
TU-Comp-1665		ydeR;ydeS;ydeT	Detected
TU-Comp-1666		ydeU	
TU-Comp-1667		ydfA;ydfB;rzpQ	Detected
TU-Comp-1668	ydfGp	ydfG	Detected
TU-Comp-1669	ydfHp	ydfH	Detected
TU-Comp-1670		ydfI	
TU-Comp-1671		ydfJ	Detected
TU-Comp-1672		ydfK	Detected
TU-Comp-1673		ydfT;ydfU	
TU-Comp-1674		ydfV	Detected
TU-Comp-1675		ydfZ	Detected
TU-Comp-1676	ydgAp	ydgA	Detected
TU-Comp-1677		ydgC	Detected
TU-Comp-1678		ydgD	Detected
TU-Comp-1679		ydgH	
TU-Comp-1680		ydgI;folM	
TU-Comp-1681		ydgJ	Detected
TU-Comp-1682	rsxAp	rsxA;rsxB;rsxC;rsxD;rsxG;rsxE;nth	Detected
TU-Comp-1683		ydhB	Detected
TU-Comp-1684		ydhC	Detected
TU-Comp-1685		ydhF	Detected
TU-Comp-1686		ydhL	Detected
TU-Comp-1687		ydhO	Detected
TU-Comp-1688		ydhP	Detected
TU-Comp-1689	ydhQp	ydhQ	Detected
TU-Comp-1690		ydhR	Detected
TU-Comp-1691		ydhS	Detected
TU-Comp-1692		ydhT;ydhU;ydhX	
TU-Comp-1693		ydhW;ydhV;ydhY	
TU-Comp-1694		ydhZ	Detected
TU-Comp-1695		ydiA	Detected
TU-Comp-1696		ydiE	Detected

TU-Comp-1697		ydiF;ydiO	Detected
TU-Comp-1698		ydiH;ydiI;ydiJ	
TU-Comp-1699		ydiK	Detected
TU-Comp-1700		ydiL	Detected
TU-Comp-1701		ydiM	Detected
TU-Comp-1702		ydiN;ydiB;aroD	
TU-Comp-1703	ydiPp	ydiP	Detected
TU-Comp-1704	ydiQp	ydiQ;ydiR;ydiS;ydiT;fadK	
TU-Comp-1705	ydiUp	ydiU	Detected
TU-Comp-1706		ydiV	Detected
TU-Comp-1707		ydiY	Detected
TU-Comp-1708		ydiZ	
TU-Comp-1709		topB;selD;ydjA	Detected
TU-Comp-1710	selDp	topB;selD	Detected
TU-Comp-1711		ydjE	Detected
TU-Comp-1712		ydjF	Detected
TU-Comp-1713		ydjG;ydjH;ydjI;ydjJ;ydjK;ydjL	Detected
TU-Comp-1714		ydjN	Detected
TU-Comp-1715		ydjO	Detected
TU-Comp-1716		ydjX;ydjY;ydjZ;ynjA;ynjB;ynjC;ynjD	
TU-Comp-1717		yeaC	
TU-Comp-1718		yeaE	Detected
TU-Comp-1719	yeaGp2	yeaG;yeaH	Detected
TU-Comp-1720	yeaGp	yeaG;yeaH	Detected
TU-Comp-1721		yeaI	Detected
TU-Comp-1722		yeaJ	Detected
TU-Comp-1723		yeaK	Detected
TU-Comp-1724	yeaLp	yeaL	Detected
TU-Comp-1725		yeaM	Detected
TU-Comp-1726		yeaN	Detected
TU-Comp-1727		yeaO	Detected
TU-Comp-1728		yeaP	Detected
TU-Comp-1729		yeaQ	Detected
TU-Comp-1730	yeaRp	yeaG;yeaR	Detected
TU-Comp-1731		yeaT	Detected
TU-Comp-1732		yeaU	Detected
TU-Comp-1733		yeaV;yeaW	
TU-Comp-1734		yeaX	
TU-Comp-1735	yeaZp	yeaY;yeaZ	Detected
TU-Comp-1736	yeaYp	yeaY	Detected
TU-Comp-1737		yebA	
TU-Comp-1738	yebBp2	yebB	Detected
TU-Comp-1739	yebEp	yebE	Detected
TU-Comp-1740		yebF	Detected
TU-Comp-1741		yebG	
TU-Comp-1742		yebK	Detected
TU-Comp-1743		yebN	Detected
TU-Comp-1744		yebO	
TU-Comp-1745		yebQ	Detected
TU-Comp-1746		yebR	
TU-Comp-1747		yebS;yebT	Detected
TU-Comp-1748		yebV	Detected
TU-Comp-1749		yebW	Detected
TU-Comp-1750		yecA	Detected
TU-Comp-1751		yecD;yecE	Detected
TU-Comp-1752	yecFp	yecF	Detected
TU-Comp-1753		yecH	Detected
TU-Comp-1754		yecJ	Detected
TU-Comp-1755		yecM	
TU-Comp-1756		yecN;cmoA;cmoB	Detected
TU-Comp-1757	yecRp	yecR	Detected
TU-Comp-1758		yecT	Detected
TU-Comp-1759		yedA	Detected

TU-Comp-1760		yedD	Detected
TU-Comp-1761		yedE;yedF	Detected
TU-Comp-1762		yedI	
TU-Comp-1763		yedK	Detected
TU-Comp-1764		yedL	Detected
TU-Comp-1765		yedM	
TU-Comp-1766		yedN_1;yedN_2	
TU-Comp-1767		yedP	Detected
TU-Comp-1768		yedQ	Detected
TU-Comp-1769		yedJ;yedR	Detected
TU-Comp-1770		yedS_1;yedS_2	
TU-Comp-1771		yedS_3	
TU-Comp-1772		yedV;yedW	Detected
TU-Comp-1773		yedX	Detected
TU-Comp-1774		yedY;yedZ	Detected
TU-Comp-1775		yeeA	
TU-Comp-1776	yeeEp	yeeD;yeeE	Detected
TU-Comp-1777		yeeF	Detected
TU-Comp-1778		yeeJ	Detected
TU-Comp-1779		yeeL_1;yeeL_2	
TU-Comp-1780		yeeN	Detected
TU-Comp-1781		yeeO	Detected
TU-Comp-1782		yeeP	Detected
TU-Comp-1783		yeeR;yeeS;yeeT;yeeU;yeeV;yeeW	Detected
TU-Comp-1784		yeeX	Detected
TU-Comp-1785		yeeY	
TU-Comp-1786		yeeZ	
TU-Comp-1787		yefM;yoeB	
TU-Comp-1788		yegD	Detected
TU-Comp-1789		yegE	Detected
TU-Comp-1790	yegHp	yegH	Detected
TU-Comp-1791		yegI	Detected
TU-Comp-1792		yegJ	Detected
TU-Comp-1793		yegK;yegL	Detected
TU-Comp-1794		yegP	Detected
TU-Comp-1795		yegQ	Detected
TU-Comp-1796		yegZ;yegR	Detected
TU-Comp-1797		yegS	Detected
TU-Comp-1798	yegTp	yegT;yegU;yegV	Detected
TU-Comp-1799		yegX	
TU-Comp-1800		yehA;yehB;yehC;yehD	Detected
TU-Comp-1801		yehE	Detected
TU-Comp-1802		yehK	
TU-Comp-1803		yehL;yehM;yehP;yehQ	Detected
TU-Comp-1804	yehRp	yehR	Detected
TU-Comp-1805		yehT;yehU	Detected
TU-Comp-1806		yeiE	Detected
TU-Comp-1807		yeiG	Detected
TU-Comp-1808		yeiH	Detected
TU-Comp-1809		yeiI	
TU-Comp-1810		yeiL	Detected
TU-Comp-1811	yeiLp	yeiL	Detected
TU-Comp-1812		yeiM	Detected
TU-Comp-1813		yeiP	Detected
TU-Comp-1814		yeiQ	Detected
TU-Comp-1815		yeiR;lpxT	Detected
TU-Comp-1816	yeiTp	yeiT;yeiA	Detected
TU-Comp-1817		yeiW	Detected
TU-Comp-1818		yejG	Detected
TU-Comp-1819		yejH	Detected
TU-Comp-1820		yejK	Detected
TU-Comp-1821		yejL;yejM	Detected
TU-Comp-1822	yejOp	yejO	Detected

TU-Comp-1823		yfaS_1;yfaS_2;yfaP;yfaQ;yfaT;yfaA	
TU-Comp-1824		yfaA;yfaD	
TU-Comp-1825		yfaE	
TU-Comp-1826		yfaH	Detected
TU-Comp-1827		yfaL	Detected
TU-Comp-1828		yfaU;yfaV	
TU-Comp-1829		yfaW;yfaX	
TU-Comp-1830	yfaYp	yfaY	Detected
TU-Comp-1831		yfaZ	Detected
TU-Comp-1832		yfbK	Detected
TU-Comp-1833		yfbL	
TU-Comp-1834		yfbM	
TU-Comp-1835		yfbN	Detected
TU-Comp-1836		yfbO	
TU-Comp-1837		yfbP	
TU-Comp-1838		yfbQ	
TU-Comp-1839		yfbR	Detected
TU-Comp-1840		yfbS	Detected
TU-Comp-1841		yfbT;yfbU	Detected
TU-Comp-1842		yfbV	Detected
TU-Comp-1843		yfcC	Detected
TU-Comp-1844	yfcEp	yfcE	
TU-Comp-1845		yfcF	Detected
TU-Comp-1846		yfcG	Detected
TU-Comp-1847		yfcI	Detected
TU-Comp-1848		yfcJ	Detected
TU-Comp-1849		yfcN	Detected
TU-Comp-1850		yfcO;yfcP;yfcQ;yfcR;yfcS;yfcT;yfcU	
TU-Comp-1851		yfcV	
TU-Comp-1852	yfcZp	yfcZ	Detected
TU-Comp-1853		yfdC	Detected
TU-Comp-1854		yfdE	
TU-Comp-1855		yfdF	Detected
TU-Comp-1856		yfdG;yfdH;yfdI	Detected
TU-Comp-1857		yfdK;yfdL;yfdM;yfdN;yfdO	Detected
TU-Comp-1858		yfdP;yfdQ	
TU-Comp-1859		yfdR;yfdS;yfdT	
TU-Comp-1860		yfdV	
TU-Comp-1861	yfdXp	yfdX	Detected
TU-Comp-1862		yfdY	Detected
TU-Comp-1863	yfdZp	yfdZ	Detected
TU-Comp-1864		yfeA	Detected
TU-Comp-1865		yfeC;yfeD	Detected
TU-Comp-1866		yfeH	Detected
TU-Comp-1867	yfeKp	yfeK;yfeS	
TU-Comp-1868		yfeN	Detected
TU-Comp-1869		yfeO	Detected
TU-Comp-1870		yfeR	Detected
TU-Comp-1871		yfeT	Detected
TU-Comp-1872	yfeYp	yfeX;yfeY	
TU-Comp-1873		yffL	Detected
TU-Comp-1874		yffM;yffN	Detected
TU-Comp-1875		yffO;yffP	Detected
TU-Comp-1876		yffQ;yffR	
TU-Comp-1877		yffS	Detected
TU-Comp-1878		yfgA	
TU-Comp-1879	yfgCp2	yfgC;yfgD	Detected
TU-Comp-1880	yfgCp	yfgC;yfgD	Detected
TU-Comp-1881		yfgF	Detected
TU-Comp-1882		yfgG	Detected
TU-Comp-1883		yfgH;yfgI	Detected
TU-Comp-1884		yfgJ	Detected
TU-Comp-1885	yfgMp1	yfgM	

TU-Comp-1886	yfgMp2	yfgM	
TU-Comp-1887	yfgMp3	yfgM	
TU-Comp-1888		yfgO	Detected
TU-Comp-1889		yfhA	
TU-Comp-1890		tadA;yfhB	Detected
TU-Comp-1891		yfhG	
TU-Comp-1892		yfhH	
TU-Comp-1893	yfhKp	yfhK	
TU-Comp-1894	yfhMp	pbpC;yfhM	Detected
TU-Comp-1895		yfhR	Detected
TU-Comp-1896		yfiC	Detected
TU-Comp-1897		yfiE	Detected
TU-Comp-1898		yfiF	Detected
TU-Comp-1899		yfiL	Detected
TU-Comp-1900		yfiM	Detected
TU-Comp-1901		yfiP;yfiQ	Detected
TU-Comp-1902		yfiR;yfiN;yfiB	Detected
TU-Comp-1903		yfjD	
TU-Comp-1904		yfjF;yfjG	Detected
TU-Comp-1905		yfjH	Detected
TU-Comp-1906		yfjI	
TU-Comp-1907		yfjJ	
TU-Comp-1908		yfjK;yfjL	Detected
TU-Comp-1909		yfjM	Detected
TU-Comp-1910		yfjP;yfjQ	Detected
TU-Comp-1911		yfjR;ypjK;yfjS;yfjT	Detected
TU-Comp-1912		yfjW	Detected
TU-Comp-1913		yfjX;yfjY;yfjZ;ypjF;ypjJ	
TU-Comp-1914	ygaCp	ygaC	Detected
TU-Comp-1915	ygaDp	ygaD	Detected
TU-Comp-1916	ygaMp	ygaM	Detected
TU-Comp-1917		ygaQ;ygaR	
TU-Comp-1918		ygaU	Detected
TU-Comp-1919		ygaV;ygaP	Detected
TU-Comp-1920		ygaW	Detected
TU-Comp-1921		ygaX;ygaY	
TU-Comp-1922	ygaZp	ygaZ;ygaH	Detected
TU-Comp-1923		ygbE	Detected
TU-Comp-1924	ygbIp	ygbI	Detected
TU-Comp-1925	ygbKp	ygbK	
TU-Comp-1926		ygbJ;ygbK	
TU-Comp-1927		ygbL;ygbM	
TU-Comp-1928		ygbN	
TU-Comp-1929		ygcB	Detected
TU-Comp-1930		ygcF	Detected
TU-Comp-1931		ygcG	Detected
TU-Comp-1932	ygcIp	ygbF;ygbT;ygcH;ygcI	Detected
TU-Comp-1933		ygbF;ygbT;ygcH;ygcI;ygcJ;ygcK;ygcL	Detected
TU-Comp-1934		ygcN;ygcO;ygcP	
TU-Comp-1935		ygcQ;ygcR	
TU-Comp-1936		ygcS	
TU-Comp-1937		ygcU	
TU-Comp-1938		ygcW	
TU-Comp-1939		ygdD	
TU-Comp-1940		ygdE	
TU-Comp-1941		ygdG	
TU-Comp-1942		ygdH	Detected
TU-Comp-1943		ygdI	Detected
TU-Comp-1944		ygdL	Detected
TU-Comp-1945		ygdQ	Detected
TU-Comp-1946		ygdR	Detected
TU-Comp-1947		ygeA	
TU-Comp-1948		ygeF	Detected

TU-Comp-1949	ygeG	Detected
TU-Comp-1950	ygeH	Detected
TU-Comp-1951	ygeI	Detected
TU-Comp-1952	ygeK;ygeL	
TU-Comp-1953	ygeP	
TU-Comp-1954	ygeQ	Detected
TU-Comp-1955	ygeR	Detected
TU-Comp-1956	ygeVp ygeV	Detected
TU-Comp-1957	ygeW	
TU-Comp-1958	ygeX	
TU-Comp-1959	ygeY	
TU-Comp-1960	visC;ubiH;pepP;ygfB	Detected
TU-Comp-1961	ygfF	Detected
TU-Comp-1962	ygfI	Detected
TU-Comp-1963	ygfJ	Detected
TU-Comp-1964	ygfK;ssnA	
TU-Comp-1965	ygfM;xdhD	
TU-Comp-1966	ygfO;guaD;ygfQ	
TU-Comp-1967	ygfS;ygfT	Detected
TU-Comp-1968	ygfU	Detected
TU-Comp-1969	ygfYp ygfX;ygfY	Detected
TU-Comp-1970	ygfZp ygfZ	Detected
TU-Comp-1971	yggEp1 yggE	Detected
TU-Comp-1972	yggEp2 yggE	Detected
TU-Comp-1973	yggGp yggG	Detected
TU-Comp-1974	yggI	
TU-Comp-1975	yggM	Detected
TU-Comp-1976	yggNp2b yggN	Detected
TU-Comp-1977	yggNp1 yggN	Detected
TU-Comp-1978	yggNp2 yggN	Detected
TU-Comp-1979	yggR	Detected
TU-Comp-1980	rdgBp rdgB;yggW	Detected
TU-Comp-1981	yggS;yggT;yggU;rdgB;yggW	Detected
TU-Comp-1982	yghA	Detected
TU-Comp-1983	yghBp yghB	Detected
TU-Comp-1984	yghE;yghD	
TU-Comp-1985	yghFp yghF	
TU-Comp-1986	yghG	Detected
TU-Comp-1987	yghJ	Detected
TU-Comp-1988	yghO	Detected
TU-Comp-1989	yghQ	
TU-Comp-1990	yghR;yghS	
TU-Comp-1991	yghT	Detected
TU-Comp-1992	yghUp yghU	Detected
TU-Comp-1993	yghW	Detected
TU-Comp-1994	yghX;yghY	
TU-Comp-1995	yghZ	Detected
TU-Comp-1996	ygiD	Detected
TU-Comp-1997	glnE;ygiF	Detected
TU-Comp-1998	ygiH	Detected
TU-Comp-1999	ygiL	Detected
TU-Comp-2000	ygiN	Detected
TU-Comp-2001	ygiQ	Detected
TU-Comp-2002	ygiS	
TU-Comp-2003	ygiV	
TU-Comp-2004	ygiW	
TU-Comp-2005	ygiZ	Detected
TU-Comp-2006	ygjD	Detected
TU-Comp-2007	ygjH	Detected
TU-Comp-2008	ygjI	
TU-Comp-2009	ygjJ;ygjK	
TU-Comp-2010	ygjM;ygjN	Detected
TU-Comp-2011	ygjP	



TU-Comp-2012		ygjQ	
TU-Comp-2013	ygjRp	ygjR	Detected
TU-Comp-2014		ygjV	
TU-Comp-2015		yhaB;yhaC	Detected
TU-Comp-2016		yhaH	Detected
TU-Comp-2017		yhaI	Detected
TU-Comp-2018		yhaJ	Detected
TU-Comp-2019		yhaK;yhaL	
TU-Comp-2020		yhaO;yhaM	
TU-Comp-2021		obgE;yhbE	Detected
TU-Comp-2022		yhbO	Detected
TU-Comp-2023		yhbP	Detected
TU-Comp-2024		yhbQ	Detected
TU-Comp-2025	yhbTp2	yhbS;yhbT	Detected
TU-Comp-2026	yhbTp1	yhbS;yhbT	Detected
TU-Comp-2027		yhbU;yhbV	Detected
TU-Comp-2028		yhbW	Detected
TU-Comp-2029		yhbX	Detected
TU-Comp-2030	yhbYp	yhbY	Detected
TU-Comp-2031		yhcA;yhcD;yhcE_1	
TU-Comp-2032	yhcBp	yhcB	Detected
TU-Comp-2033		yhcC	Detected
TU-Comp-2034		yhcG	Detected
TU-Comp-2035		yhcM	Detected
TU-Comp-2036		yhcN	Detected
TU-Comp-2037		yhcO	Detected
TU-Comp-2038		yhdH	Detected
TU-Comp-2039		yhdJ	
TU-Comp-2040		yhdL	
TU-Comp-2041	yhdNp	zntR;yhdN	
TU-Comp-2042		yhdP	
TU-Comp-2043		yhdU	Detected
TU-Comp-2044		yhdV	Detected
TU-Comp-2045	yhdWp	yhdW;yhdX;yhdY;yhdZ	Detected
TU-Comp-2046	yheOp2	yheL;yheM;yheN;yheO	Detected
TU-Comp-2047	yheOp1	yheL;yheM;yheN;yheO	Detected
TU-Comp-2048		yheS;yheT;yheU	
TU-Comp-2049		pabA;fic;yhfG	Detected
TU-Comp-2050	ficp	fic	
TU-Comp-2051	pabAp1	pabA	
TU-Comp-2052	yhfKp	yhfK	
TU-Comp-2053		yhfL	Detected
TU-Comp-2054		yhfS;yhfT;yhfU;php;yhfW;yhfX	
TU-Comp-2055		yhfY;yhfZ	
TU-Comp-2056		yhgA	Detected
TU-Comp-2057		yhgE	Detected
TU-Comp-2058		yhgF	Detected
TU-Comp-2059		yhgN	Detected
TU-Comp-2060		yhhA	Detected
TU-Comp-2061		yhhH	
TU-Comp-2062		yhhI	
TU-Comp-2063		yhhK	Detected
TU-Comp-2064		yhhM	Detected
TU-Comp-2065		yhhN	
TU-Comp-2066		yhhQ	Detected
TU-Comp-2067		yhhS	Detected
TU-Comp-2068		yhhT	Detected
TU-Comp-2069		yhhW	
TU-Comp-2070		yhhX	
TU-Comp-2071	yhhYp	yhhY	Detected
TU-Comp-2072		insAB-6;yrhA;yhhZ;insA-6;insB-6	
TU-Comp-2073		yhhJ;rbbA;yhiI	Detected
TU-Comp-2074		yhiJ	Detected

TU-Comp-2075		yhiK	
TU-Comp-2076		yhiL	Detected
TU-Comp-2077		yhiM	Detected
TU-Comp-2078		yhiN	Detected
TU-Comp-2079	yhiRp	yhiR	
TU-Comp-2080		yhiS	Detected
TU-Comp-2081	yhjAp	yhjA	Detected
TU-Comp-2082		yhjB	Detected
TU-Comp-2083		yhjC	Detected
TU-Comp-2084		yhjD	Detected
TU-Comp-2085		yhjE	Detected
TU-Comp-2086	yhjHp	yhjH	Detected
TU-Comp-2087		yhjK	Detected
TU-Comp-2088		yhjR	
TU-Comp-2089		yhjV	Detected
TU-Comp-2090		yhjX	Detected
TU-Comp-2091		yhjY	Detected
TU-Comp-2092	yaAp	yaA	
TU-Comp-2093		yaB	
TU-Comp-2094		yaD	Detected
TU-Comp-2095	yaFp	yaF	Detected
TU-Comp-2096	yaGp	yaG	Detected
TU-Comp-2097		yaT	Detected
TU-Comp-2098		yaU	Detected
TU-Comp-2099		yaV;yaW	Detected
TU-Comp-2100		yaY	Detected
TU-Comp-2101	yibDp1	yibD	Detected
TU-Comp-2102	yibFp	yibF	Detected
TU-Comp-2103		yibG	
TU-Comp-2104		yibH;yibI	Detected
TU-Comp-2105		yibJ	Detected
TU-Comp-2106		yibK	Detected
TU-Comp-2107		yibL	Detected
TU-Comp-2108		yibN	Detected
TU-Comp-2109		yibT	Detected
TU-Comp-2110		yicC	Detected
TU-Comp-2111		yicE	Detected
TU-Comp-2112		yicG	Detected
TU-Comp-2113	yicHp	yicH	Detected
TU-Comp-2114		yicL	Detected
TU-Comp-2115		yicN	
TU-Comp-2116		yicO	
TU-Comp-2117	rpmBp	rpmG;rpmB	Detected
TU-Comp-2118		yicS	Detected
TU-Comp-2119		yidA	Detected
TU-Comp-2120		yidB	
TU-Comp-2121		yidE	Detected
TU-Comp-2122		yidF;yidG;yidH	Detected
TU-Comp-2123		yidI	Detected
TU-Comp-2124		yidJ;yidK	Detected
TU-Comp-2125	yidLp	yidL	Detected
TU-Comp-2126		yidP	Detected
TU-Comp-2127	yidQp	yidQ	Detected
TU-Comp-2128		yidR	Detected
TU-Comp-2129		yidX	Detected
TU-Comp-2130		yidZ	Detected
TU-Comp-2131	yieEp	yieE;yieF	Detected
TU-Comp-2132		yieG	Detected
TU-Comp-2133		yieH	Detected
TU-Comp-2134		hsrA;yieP	Detected
TU-Comp-2135		yifB	Detected
TU-Comp-2136		yifE	Detected
TU-Comp-2137		yifK	Detected

TU-Comp-2138	dapFp	dapF;yigA;xerC;yigB	
TU-Comp-2139		dapF;yigA;xerC;yigB;yifL	
TU-Comp-2140		yifN;yifO	
TU-Comp-2141		yigE	Detected
TU-Comp-2142		yigF;yigG	Detected
TU-Comp-2143	yigIp	yigI	
TU-Comp-2144		yigM	Detected
TU-Comp-2145		yihA	Detected
TU-Comp-2146	yihDp	yihD	Detected
TU-Comp-2147		yihF	Detected
TU-Comp-2148	yihGp	yihG	Detected
TU-Comp-2149		yihI	
TU-Comp-2150		yihL;yihM	Detected
TU-Comp-2151		yihN	Detected
TU-Comp-2152		yihO;yihP	
TU-Comp-2153		yihQ	
TU-Comp-2154		yihR	Detected
TU-Comp-2155		yihS;yihT;yihU	Detected
TU-Comp-2156		yihV;yihW	
TU-Comp-2157	yihXp	yihX;yihY;dtd;yiiD	Detected
TU-Comp-2158		yiiE	Detected
TU-Comp-2159		yiiF	Detected
TU-Comp-2160		yiiG	Detected
TU-Comp-2161		yiiM	Detected
TU-Comp-2162		yiiQ	Detected
TU-Comp-2163		yiiR	Detected
TU-Comp-2164	yiiSp	yiiS;uspD	Detected
TU-Comp-2165		yiiX	
TU-Comp-2166		yijE	Detected
TU-Comp-2167		yijF	Detected
TU-Comp-2168		yijO	Detected
TU-Comp-2169		yijP	
TU-Comp-2170		yjaA	Detected
TU-Comp-2171		yjaG	Detected
TU-Comp-2172		yjaH	
TU-Comp-2173	yjbBp	yjbB	Detected
TU-Comp-2174		yjbF;yjbG;yjbH	
TU-Comp-2175		yjbI	Detected
TU-Comp-2176		yjbJ	Detected
TU-Comp-2177		yjbL;yjbM	Detected
TU-Comp-2178	yjbQp	yjbQ;yjbR	Detected
TU-Comp-2179		yjcB	Detected
TU-Comp-2180		yjcC	Detected
TU-Comp-2181		yjcD	Detected
TU-Comp-2182		yjcE	Detected
TU-Comp-2183		yjcF	Detected
TU-Comp-2184		yjcO	Detected
TU-Comp-2185	yjcSp	yjcS	Detected
TU-Comp-2186		yjdA;yjcZ	Detected
TU-Comp-2187		yjdF	
TU-Comp-2188		yjdI;yjdJ	Detected
TU-Comp-2189		yjdK;yjdO	Detected
TU-Comp-2190		yjdL	Detected
TU-Comp-2191		yjdM	Detected
TU-Comp-2192		yjdN	Detected
TU-Comp-2193		yjdP	Detected
TU-Comp-2194	mutLp1	mutL;miaA;hfq;hflX;hflK;hflC	Detected
TU-Comp-2195	hfqp2	hfq;hflX;hflK;hflC	Detected
TU-Comp-2196	mutLp2	mutL;miaA;hfq;hflX;hflK;hflC	Detected
TU-Comp-2197	miaAp1	miaA;hfq;hflX;hflK;hflC	Detected
TU-Comp-2198	hfqp3	hfq;hflX;hflK;hflC	Detected
TU-Comp-2199	hfqp1	hfq;hflX;hflK;hflC	Detected
TU-Comp-2200	miaAp2	miaA;hfq;hflX;hflK;hflC	Detected

TU-Comp-2201		yjeH	Detected
TU-Comp-2202	yjeIp	yjeI	Detected
TU-Comp-2203		yjeJ	Detected
TU-Comp-2204		yjeK	Detected
TU-Comp-2205		yjeM	
TU-Comp-2206		yjeN;yjeO	
TU-Comp-2207		yjeS	Detected
TU-Comp-2208		yjeT	Detected
TU-Comp-2209		yjfI;yjfJ	Detected
TU-Comp-2210	yjfKp	yjfK;yjfL;yjfM;yjfC	Detected
TU-Comp-2211		yjfN	
TU-Comp-2212	yjfOp	yjfO	
TU-Comp-2213		yjfP	Detected
TU-Comp-2214		yjfY	Detected
TU-Comp-2215		yjfZ	Detected
TU-Comp-2216		yjgA	Detected
TU-Comp-2217		yjgB	Detected
TU-Comp-2218	yjgFp	yjgF	Detected
TU-Comp-2219		yjgH	Detected
TU-Comp-2220		yjgI	Detected
TU-Comp-2221		yjgJ	Detected
TU-Comp-2222		yjgK	Detected
TU-Comp-2223		yjgL	Detected
TU-Comp-2224		yjgM	Detected
TU-Comp-2225		yjgN	Detected
TU-Comp-2226		yjgR	Detected
TU-Comp-2227		yjgW	
TU-Comp-2228		yjgX_1;yjgX_2	
TU-Comp-2229		yjgX_3	
TU-Comp-2230		yjgZ	Detected
TU-Comp-2231		yjhB;yjhC	
TU-Comp-2232		yjhD	Detected
TU-Comp-2233		yjhE	
TU-Comp-2234		yjhF	Detected
TU-Comp-2235	yjhIp	yjhG;yjhH;yjhI	
TU-Comp-2236		yjhP	
TU-Comp-2237		yjhR	Detected
TU-Comp-2238		yjhS	Detected
TU-Comp-2239		yjhU	Detected
TU-Comp-2240		yjhQ;yjhX	
TU-Comp-2241		yjiC	Detected
TU-Comp-2242		yjiE	Detected
TU-Comp-2243		iadA;yjiG;yjiH	
TU-Comp-2244		yjiJ	
TU-Comp-2245		yjiK	
TU-Comp-2246		yjiL;yjiM	
TU-Comp-2247		yjiP;yjiQ	
TU-Comp-2248		yjiR	Detected
TU-Comp-2249		yjiS	Detected
TU-Comp-2250	yjiTp	yjiT	
TU-Comp-2251		yjiV	
TU-Comp-2252	yjiXp	yjiA;yjiX	Detected
TU-Comp-2253		yjiY	Detected
TU-Comp-2254		yjjI	
TU-Comp-2255		yjjJ	Detected
TU-Comp-2256		yjjK	Detected
TU-Comp-2257		yjjL	Detected
TU-Comp-2258		yjjM	Detected
TU-Comp-2259		yjjN	Detected
TU-Comp-2260		yjjQ;bglJ	Detected
TU-Comp-2261		yjjU;yjjV	Detected
TU-Comp-2262		yjjX	Detected
TU-Comp-2263		yjjY	Detected

TU-Comp-2264		yjjZ	Detected
TU-Comp-2265		yjtD	Detected
TU-Comp-2266		yafZ;ykfA	
TU-Comp-2267	yafZp	yafZ	Detected
TU-Comp-2268		ykfC	
TU-Comp-2269		prfH;ykfJ	
TU-Comp-2270		ykgA	Detected
TU-Comp-2271		ykgC	Detected
TU-Comp-2272		ykgD	Detected
TU-Comp-2273		ykgE;ykgF;ykgG	Detected
TU-Comp-2274		ykgH	Detected
TU-Comp-2275		ykgB;ykgI	Detected
TU-Comp-2276		ykgJ	Detected
TU-Comp-2277		ykgL	Detected
TU-Comp-2278	ykgMp	ykgM;ykgO	
TU-Comp-2279		ykiA	Detected
TU-Comp-2280		ykiB	
TU-Comp-2281		ylaB	Detected
TU-Comp-2282	ylaCp	ylaC	Detected
TU-Comp-2283		ylbG	
TU-Comp-2284		yliE;yliF	Detected
TU-Comp-2285		yliI	Detected
TU-Comp-2286	yliJp	yliJ	Detected
TU-Comp-2287		yliL	Detected
TU-Comp-2288		ymbA	
TU-Comp-2289		ymcE;gnsA	
TU-Comp-2290		ymdA	
TU-Comp-2291		ymdB;ymdC	Detected
TU-Comp-2292	ymdCp	ymdC	
TU-Comp-2293		ymdE;ycdU	
TU-Comp-2294		ymdF	Detected
TU-Comp-2295		ycfZ;ymfA	
TU-Comp-2296		ymfD;ymfE	
TU-Comp-2297		intE;xisE;ymfH	
TU-Comp-2298		ymfI	Detected
TU-Comp-2299		ymfJ	
TU-Comp-2300		ymfK	
TU-Comp-2301		ymfT;ymfL;ymfM;ymfN;ymfR;ymfO;ymfP;ymfQ;ycfK;yfS	
TU-Comp-2302		ymgA;ariR	
TU-Comp-2303		ymgC	
TU-Comp-2304		ymgE	Detected
TU-Comp-2305		ymgF	Detected
TU-Comp-2306		ymgD;ymgG	
TU-Comp-2307		ycgI;ymgH	
TU-Comp-2308		yciX;ymiA	
TU-Comp-2309		ymjA	Detected
TU-Comp-2310		mpaA;y mjC	
TU-Comp-2311		y naA;lomR_1	
TU-Comp-2312		y naE	Detected
TU-Comp-2313	y naIp	y naI	Detected
TU-Comp-2314		y naJ	Detected
TU-Comp-2315		y naK;y daY	Detected
TU-Comp-2316		y nbA;y nbB;y nbC;y nbD	Detected
TU-Comp-2317		y dcZ;y ncA	Detected
TU-Comp-2318		y ncB	
TU-Comp-2319		y ncD	Detected
TU-Comp-2320	y ncEp	y ncE	Detected
TU-Comp-2321	y ncGp	y ncG	Detected
TU-Comp-2322		y ncH	Detected
TU-Comp-2323		y ncI	
TU-Comp-2324		y ncJ	Detected
TU-Comp-2325		y ncK_1	
TU-Comp-2326		y ncK_2	

TU-Comp-2327		yncL	Detected
TU-Comp-2328		yncM	
TU-Comp-2329		ydcQ;yncN	
TU-Comp-2330		yneE	Detected
TU-Comp-2331		yneF	
TU-Comp-2332		yneG;yneH	Detected
TU-Comp-2333		yneJ	Detected
TU-Comp-2334		yneK	Detected
TU-Comp-2335		yneL	
TU-Comp-2336		yneM	Detected
TU-Comp-2337	yneNp	ydeO;yneN	Detected
TU-Comp-2338	ydeOp	ydeO	
TU-Comp-2339		ynfA	Detected
TU-Comp-2340	ynfBp	ynfB;speG	Detected
TU-Comp-2341		ynfC	Detected
TU-Comp-2342		ynfD	Detected
TU-Comp-2343	ynfEp	ynfE;ynfF;ynfG;ynfH;dmsD	Detected
TU-Comp-2344		ynfL	Detected
TU-Comp-2345		ynfM	Detected
TU-Comp-2346		ynfN	Detected
TU-Comp-2347		ydfO;ynfO	
TU-Comp-2348		ynfP	
TU-Comp-2349		ynhG	Detected
TU-Comp-2350		yniA	Detected
TU-Comp-2351	yniBp	yniB	Detected
TU-Comp-2352	yniCp	yniC	Detected
TU-Comp-2353		yniD	Detected
TU-Comp-2354	ynjEp	ynjE	
TU-Comp-2355		ynjF	Detected
TU-Comp-2356	ynjHp	ynjH	Detected
TU-Comp-2357		ynjI	Detected
TU-Comp-2358		yoaA	
TU-Comp-2359		yoaB	Detected
TU-Comp-2360		yoaC	Detected
TU-Comp-2361		yoaD	Detected
TU-Comp-2362	yoaEp	yoaE	Detected
TU-Comp-2363		yoaF	Detected
TU-Comp-2364		yoaH	Detected
TU-Comp-2365		yoaI	Detected
TU-Comp-2366		yebY;yebZ;yobA	Detected
TU-Comp-2367		yobB;exoX	
TU-Comp-2368		yobD	Detected
TU-Comp-2369	yobFp	cspC;yobF	Detected
TU-Comp-2370		yobH	Detected
TU-Comp-2371		yodB	Detected
TU-Comp-2372		yodC	
TU-Comp-2373		yodD	Detected
TU-Comp-2374		yoeA	Detected
TU-Comp-2375		yoeE	
TU-Comp-2376		yoeF	Detected
TU-Comp-2377		yohC	Detected
TU-Comp-2378		yohD	Detected
TU-Comp-2379		yohF	Detected
TU-Comp-2380		yohH	
TU-Comp-2381		yohJ;yohK	Detected
TU-Comp-2382		yohN	Detected
TU-Comp-2383		yohO	Detected
TU-Comp-2384		yojI	Detected
TU-Comp-2385		ypdA;ypdB;ypdC	
TU-Comp-2386		ypdI	Detected
TU-Comp-2387		ypdJ	
TU-Comp-2388		yfeZ;ypeA	
TU-Comp-2389		ypeC	Detected

TU-Comp-2390		ypfG	Detected
TU-Comp-2391		ypfH	Detected
TU-Comp-2392		tmcA;ypfJ	
TU-Comp-2393		ypfM	Detected
TU-Comp-2394		yphA	Detected
TU-Comp-2395		yphB;yphC	
TU-Comp-2396		yphD;yphE;yphF	
TU-Comp-2397		yphG	
TU-Comp-2398		yphH	Detected
TU-Comp-2399		ypjA	Detected
TU-Comp-2400		ypjB	
TU-Comp-2401		ypjC	Detected
TU-Comp-2402		ypjD	
TU-Comp-2403		yfjU;ypjL	
TU-Comp-2404	ypjMp	yfjV;ypjM	
TU-Comp-2405		yqaA;yqaB	Detected
TU-Comp-2406		yqaC	
TU-Comp-2407		yqaD	
TU-Comp-2408		yqaE	Detected
TU-Comp-2409		yqcA;truC;yqcC	Detected
TU-Comp-2410		yqcE;ygcE	Detected
TU-Comp-2411		yqeA	
TU-Comp-2412		yqeB	
TU-Comp-2413		yqeC	
TU-Comp-2414		yqeF	Detected
TU-Comp-2415		yqeG	Detected
TU-Comp-2416		yqeH	Detected
TU-Comp-2417		yqeI;yqeJ	Detected
TU-Comp-2418		yqeK	Detected
TU-Comp-2419		yqfA	Detected
TU-Comp-2420		yqfB	Detected
TU-Comp-2421		yqfE	Detected
TU-Comp-2422		yqgA	Detected
TU-Comp-2423		yqgB	Detected
TU-Comp-2424		yqgC	Detected
TU-Comp-2425		yqgD	Detected
TU-Comp-2426		yqgE;yqgF	Detected
TU-Comp-2427		yqhA	Detected
TU-Comp-2428		yqhC	Detected
TU-Comp-2429		yqhD	
TU-Comp-2430		yqhG	
TU-Comp-2431		yqhH	
TU-Comp-2432		yqiC	Detected
TU-Comp-2433		yqiJ;yqiK	Detected
TU-Comp-2434	yqjAp2	yqjA;yqjB	Detected
TU-Comp-2435	yqjAp1	yqjA;yqjB	Detected
TU-Comp-2436		yqjC;yqjD;yqjE;yqjK	Detected
TU-Comp-2437		yqjF	Detected
TU-Comp-2438		yqjG	Detected
TU-Comp-2439		yqjH	Detected
TU-Comp-2440	yqjIp	yqjI	
TU-Comp-2441		yraH	
TU-Comp-2442		yraI;yraJ;yraK	
TU-Comp-2443		yraL	Detected
TU-Comp-2444		yraM	
TU-Comp-2445		yraN	
TU-Comp-2446		yraQ	
TU-Comp-2447		yraR	
TU-Comp-2448		yrbA	Detected
TU-Comp-2449		yrbB;yrbC;yrbD;yrbE;yrbF	Detected
TU-Comp-2450	yrbLp	yrbL	Detected
TU-Comp-2451	yrdAp	yrdA	Detected
TU-Comp-2452		yrrF	Detected

TU-Comp-2453	hslRp	hslR;hslO	Detected
TU-Comp-2454	yrfGp	yrfG;hslR	
TU-Comp-2455		hslO	
TU-Comp-2456		yrhB	Detected
TU-Comp-2457		yrhC	
TU-Comp-2458		ysaA	
TU-Comp-2459		ysaB	Detected
TU-Comp-2460	ysgAp	ysgA	Detected
TU-Comp-2461		ytfA	Detected
TU-Comp-2462	ytfBp	ytfB	Detected
TU-Comp-2463		ytfF	Detected
TU-Comp-2464		ytfG	Detected
TU-Comp-2465		ytfH	Detected
TU-Comp-2466		ytfI	Detected
TU-Comp-2467	ytfKp	ytfK	Detected
TU-Comp-2468		ytfL	Detected
TU-Comp-2469		ytfM;ytfN;ytfP	Detected
TU-Comp-2470		ytfQ;ytfT;yjfF;ytfR	
TU-Comp-2471		ytjA	
TU-Comp-2472	ytjBp	lplA;ytjB	Detected
TU-Comp-2473		ytjC	Detected
TU-Comp-2474		yzcX	
TU-Comp-2475	yzfAp2	yzfA	
TU-Comp-2476		yzgL	Detected
TU-Comp-2477		zapA	Detected
TU-Comp-2478		zapB	
TU-Comp-2479		zipA	Detected
TU-Comp-2480		zitB	Detected
TU-Comp-2481	zntAp	zntA	Detected
TU-Comp-2482	zraPp	zraP	Detected
TU-Comp-2483		zupT	Detected
TU-Comp-2484		zur	Detected
TU-Comp-2485	zwfp	zwf	Detected