

Table S6. List of succinylated proteins and their interacting proteins.

PE_PGRS45	pp	amiA1
Rv1097c	pp	dapB
echA10	pp	corA
modB	pp	ahpD
vapB8	pp	icd1
ribG	pp	Rv3716c
Rv1372	pp	rpoA
ephC	pp	Rv2159c
Rv2141c	pp	citE
lipP	pp	folD
nuoD	pp	galE1
Rv0177	pp	fas
relF	pp	glpD2
Rv1889c	pp	dapB
mazE3	pp	ltp1
Rv0146	pp	hadB
Rv0612	pp	hupB
Rv0826	pp	Rv2781c
Rv1149	pp	Rv1558
Rv0455c	pp	acg
Rv0330c	pp	fadE7
Rv0309	pp	dapB
moeY	pp	Rv1978
lpqS	pp	trpC
Rv2401	pp	folD
Rv1725c	pp	Rv2477c
ribA1	pp	purE
Rv0004	pp	Rv0566c
lprJ	pp	hupB
fadD30	pp	Rv3814c
Rv1761c	pp	Rv2991
Rv0061	pp	nuoE
Rv1192	pp	efp
Rv0499	pp	rpsJ
Rv1717	pp	fas
mbtK	pp	Rv2765
Rv1524	pp	sigH
Rv2302	pp	mapB
Rv1109c	pp	Rv3814c
rocD1	pp	Rv3094c
mtrB	pp	mtrA
Rv0544c	pp	dapB
Rv0199	pp	Rv3131
Rv0274	pp	umaA
hisF	pp	ideR
Rv3190c	pp	Rv3583c
secG	pp	mpt64
secG	pp	viuB
Rv2342	pp	orn
Rv0203	pp	tig
Rv2670c	pp	aroA
Rv1729c	pp	Rv1869c
Rv1831	pp	prcA
Rv2228c	pp	rplU
aceAa	pp	devR
Rv2989	pp	icd1
Rv0349	pp	dapB
Rv0207c	pp	end
lprL	pp	dapB
Rv1425	pp	folD
Rv2971	pp	Rv3520c
Rv1456c	pp	Rv2993c
parD1	pp	entC
parD1	pp	Rv3755c
murI	pp	inhA
murI	pp	Rv3699
Rv1116	pp	fadE22
Rv0281	pp	gcvT
rpmB1	pp	Rv2477c
menD	pp	Rv2298
mez	pp	scoB
Rv0139	pp	Rv1324
Rv0615	pp	wag31
Rv2288	pp	gpgP
Rv1515c	pp	dapA
mesT	pp	hsaG
Rv2286c	pp	accD5
Rv0480c	pp	pheS
hsdS	pp	folD

Rv2751	pp	echA21
Rv0375c	pp	dapB
TB18.5	pp	Rv0466
Rv1035c	pp	qcrA
Rv1684	pp	folD
Rv1684	pp	dapB
Rv0613c	pp	trpS
mazE2	pp	mutA
papA4	pp	amiA1
Rv2507	pp	dapB
far	pp	pdxH
Rv0561c	pp	cmaA1
Rv2361c	pp	ispF
Rv0367c	pp	dapB
Rv0367c	pp	eis
rocA	pp	purE
lprQ	pp	sseA
Rv2087	pp	rplM
Rv2015c	pp	prcA
Rv1722	pp	topA
adh	pp	prcA
PPE41	pp	Rv2475c
idsA2	pp	Rv3583c
Rv0901	pp	ltp1
Rv0901	pp	dapB
Rv1290A	pp	cmaA1
PE31	pp	Rv3669
Rv3438	pp	Rv3600c
pknE	pp	Rv2474c
sigB	pp	gatA
Rv2035	pp	acpM
Rv2035	pp	icd1
trxA	pp	polA
ureC	pp	Rv3678c
Rv0197	pp	ceoC
esxO	pp	citE
Rv0075	pp	Rv1762c
pip	pp	Rv1144
TB22.2	pp	Rv3600c
Rv0316	pp	leuA
Rv0749A	pp	icd1
Rv0818	pp	echA6
Rv1147	pp	Rv2230c
Rv2434c	pp	Rv2991
fabD2	pp	Rv1155
Rv2227	pp	hupB
Rv0863	pp	Rv3777
Rv0863	pp	Rv2083
Rv0863	pp	echA7
Rv3207c	pp	Rv3210c
thiE	pp	ahpC
thiE	pp	tpx
thiE	pp	nuoF
aftC	pp	ppa
mpt53	pp	ppa
Rv0784	pp	Rv3094c
Rv0358	pp	Rv1738
Rv1233c	pp	viuB
Rv1139c	pp	dapB
pknJ	pp	dnaJ2
pknJ	pp	kasA
Rv1588c	pp	Rv2475c
Rv2090	pp	prcA
Rv0964c	pp	scoB
Rv0712	pp	dapB
Rv0205	pp	amiA1
Rv0205	pp	ahpD
Rv2700	pp	dapB
Rv0459	pp	Rv3510c
fhaA	pp	Rv1144
vapB41	pp	rplM
hycP	pp	hspX
Rv2719c	pp	dapA
vapC4	pp	acyP
Rv1904	pp	echA15
Rv1904	pp	tgs4
rbsK	pp	topA
Rv0669c	pp	Rv3131
Rv0669c	pp	echA5
Rv0523c	pp	dapB
Rv0523c	pp	ilvE

aroK	pp	dapB
yrbE1B	pp	Rv2475c
yrbE1B	pp	TB18.6
Rv0158	pp	bcp
Rv0158	pp	Rv0953c
Rv1586c	pp	accA3
Rv2023c	pp	cmaA1
Rv0204c	pp	Rv2765
PPE26	pp	Rv2581c
Rv0958	pp	cmaA1
betP	pp	dapB
malQ	pp	Rv3131
celA2a	pp	aroA
Rv2808	pp	rplM
Rv0397	pp	Rv1025
mce1R	pp	rplC
Rv1417	pp	Rv3311
Rv0421c	pp	bfrA
hsdM	pp	folD
iniA	pp	manA
Rv3304	pp	trxC
dnaE1	pp	Rv2005c
Rv0340	pp	rpsI
lrpA	pp	Rv3519
kdpE	pp	Rv2474c
sigF	pp	Rv3548c
mmuM	pp	aroA
Rv1882c	pp	acyP
Rv1882c	pp	dapB
Rv0495c	pp	rplO
Rv0495c	pp	aroB
xseA	pp	nadC
PE3	pp	nadC
Rv0877	pp	Rv1025
Rv0877	pp	Rv3819
lipX	pp	dapB
Rv2506	pp	dapB
cycA	pp	Rv2991
cobT	pp	dapB
lpqJ	pp	aroD
Rv2795c	pp	viuB
Rv2795c	pp	rpsI
fadD1	pp	rpsT
fadD1	pp	Rv2475c
Rv1371	pp	Rv3669
Rv3015c	pp	accD5
pknL	pp	dnaJ2
Rv1179c	pp	Rv3169
Rv3430c	pp	rpsI
Rv2170	pp	hupB
Rv0881	pp	gltD
Rv0881	pp	echA21
Rv0881	pp	hisB
Rv1200	pp	prcA
Rv1865c	pp	Rv2161c
Rv1865c	pp	tgs4
Rv2631	pp	cmaA1
Rv1478	pp	viuB
Rv0963c	pp	Rv2716
ackA	pp	echA19
fadD26	pp	Rv3814c
hspR	pp	Rv3224
Rv1331	pp	cmaA1
Rv1054	pp	cmaA1
Rv1054	pp	dapB
Rv0918	pp	manB
Rv0042c	pp	Rv2067c
Rv0263c	pp	pknG
pyrC	pp	Rv3583c
pyrC	pp	gpgP
Rv0313	pp	Rv1245c
Rv1508A	pp	dapB
Rv0692	pp	nusB
Rv0692	pp	gltS
Rv3226c	pp	Rv3699
Rv3226c	pp	purE
Rv2843	pp	rpsB
Rv0378	pp	Rv2475c
rpmE	pp	Rv3669
PE22	pp	fadA6
Rv0150c	pp	rpiB

PPE45	pp	sseA
Rv0082	pp	Rv0493c
PE26	pp	Rv2765
Rv2690c	pp	Rv3600c
Rv0476	pp	hisB
Rv1341	pp	galE1
vapC20	pp	icd1
nrp	pp	Rv3600c
Rv1075c	pp	trxC
Rv1117	pp	Rv2054
Rv1117	pp	aroG
Rv1117	pp	lldD2
PE_PGRS8	pp	Rv2230c
pks9	pp	hupB
Rv2426c	pp	Rv3519
pks12	pp	rpsK
dnaB	pp	ppa
dnaB	pp	dapB
vapC36	pp	fas
Rv1209	pp	dapB
mutT2	pp	aroF
Rv2375	pp	Rv3094c
idi	pp	Rv2581c
greC1	pp	Rv2475c
Rv2822c	pp	hupB
ureB	pp	kdtB
ureB	pp	ahpD
ureB	pp	orn
Rv0028	pp	espL
Rv0028	pp	Rv0333
tesB1	pp	dapB
tesB1	pp	rpsK
Rv2132	pp	gpgP
Rv1951c	pp	aroG
Rv1951c	pp	accD5
Rv1995	pp	fadE23
Rv1995	pp	fadA6
Rv3353c	pp	cmaA1
Rv1930c	pp	dapB
Rv1930c	pp	leuA
Rv1930c	pp	Rv3600c
Rv1373	pp	Rv3669
Rv0950c	pp	Rv2074
Rv3228	pp	Rv3814c
Rv1465	pp	lysS
Rv1465	pp	Rv2409c
Rv1225c	pp	dapB
Rv1225c	pp	ceoB
trpD	pp	dapB
argR	pp	sigH
lpqX	pp	cmaA1
glbN	pp	dprE2
Rv0036c	pp	pyrR
Rv1583c	pp	ald
Rv1583c	pp	pheS
mmpS4	pp	echA5
Rv2418c	pp	dapB
Rv3122	pp	Rv3542c
Rv3489	pp	Rv3583c
Rv0324	pp	rpID
Rv1021	pp	htdY
Rv1021	pp	accE5
Rv0666	pp	topA
Rv0741	pp	dprE1
lpdA	pp	hsaG
mce2C	pp	Rv1919c
Rv2683	pp	dapB
Rv1220c	pp	mapB
aac	pp	Rv2716
Rv2078	pp	bkdC
fadD11.1	pp	guaB3
Rv1287	pp	nat
Rv2119	pp	Rv2475c
PE_PGRS12	pp	Rv3814c
PE_PGRS12	pp	fabG3
PE_PGRS12	pp	pyrB
Rv0463	pp	rpIK
Rv0463	pp	ribF
cyp135B1	pp	Rv2765
kdpD	pp	Rv3716c
cyp124	pp	folD

Rv1742	pp	gevT
rplR	pp	fadE35
wbbL2	pp	ahpC
Rv0914c	pp	dapB
Rv0914c	pp	Rv2074
Rv0914c	pp	Rv1703c
Rv2295	pp	gltS
Rv1576c	pp	Rv3050c
kasB	pp	fas
kasB	pp	echA19
kdpC	pp	ahpD
espD	pp	espR
Rv0851c	pp	Rv2054
Rv0851c	pp	pyrR
Rv0851c	pp	gltD
Rv0851c	pp	fadE19
Rv0492c	pp	udgB
Rv2614A	pp	glmS
lpqT	pp	espB
Rv0698	pp	ppa
fmt	pp	ahpD
cdh	pp	serA1
lpqN	pp	topA
lpqN	pp	Rv2765
Rv2468c	pp	dapB
pknA	pp	aroA
pknA	pp	kasA
Rv0634c	pp	fadE25
aspC	pp	rpoA
vapB40	pp	accD5
Rv3778c	pp	Rv3814c
Rv2372c	pp	mhuD
rpmI	pp	topA
Rv2367c	pp	Rv2901c
Rv2366c	pp	ahpC
vapC6	pp	topA
mmpS5	pp	fadA6
Rv2186c	pp	topA
Rv0689c	pp	viuB
Rv0689c	pp	mrr
Rv0474	pp	Rv0925c
Rv0474	pp	pheS
pnp	pp	Rv2716
Rv1119c	pp	Rv2474c
ptrBa	pp	Rv0785
ptrBa	pp	dlaT
Rv0318c	pp	Rv2409c
murD	pp	acyP
cysH	pp	espR
moaB2	pp	sigH
echA11	pp	espB
Rv2473	pp	folD
Rv2473	pp	echA19
Rv0744c	pp	Rv1178
Rv0744c	pp	Rv0831c
Rv0744c	pp	glf
Rv0744c	pp	dlaT
Rv0744c	pp	aspS
Rv0836c	pp	echA19
Rv0836c	pp	topA
adhA	pp	gabT
Rv2293c	pp	dapB
sigG	pp	hemC
Rv0481c	pp	dapC
Rv0481c	pp	amiA1
tam	pp	Rv0953c
tam	pp	murB
tam	pp	cysS1
Rv1439c	pp	vapC17
Rv1439c	pp	Rv3169
Rv0837c	pp	sigH
Rv0837c	pp	dapB
Rv2622	pp	dapB
Rv1473A	pp	Rv2298
PPE27	pp	orn
Rv2712c	pp	echA19
Rv0057	pp	dapB
Rv1158c	pp	dapB
vapC29	pp	accA1
vapC29	pp	corA
vapC29	pp	pknD

PE17	pp	bfrA
Rv0942	pp	rpsT
cobH	pp	echA19
cobH	pp	Rv3678c
Rv1273c	pp	Rv3131
nei	pp	Rv3329
Rv0024	pp	espB
Rv0024	pp	fadA3
Rv0024	pp	rpsS
Rv3463	pp	lsr2
Rv0907	pp	snzP
Rv0634A	pp	mapB
Rv0224c	pp	Rv3272
Rv0224c	pp	glf
Rv2417c	pp	hupB
trpA	pp	Rv2474c
trpA	pp	Rv2230c
trpA	pp	Rv2182c
trpA	pp	serA1
Rv1312	pp	dapB
Rv0295c	pp	Rv1144
proA	pp	rplM
proA	pp	hsaG
Rv0880	pp	echA7
Rv0880	pp	TB15.3
Rv0880	pp	prfB
glpQ2	pp	cmaA2
glpQ2	pp	glf
glpQ2	pp	Rv3600c
Rv0071	pp	rplN
Rv0071	pp	nusB
PE8	pp	dapB
PE8	pp	thrC
vapB20	pp	ppa
PE18	pp	espR
PE18	pp	Rv3600c
Rv1086	pp	Rv2406c
ndkA	pp	fixA
PE19	pp	tesA
PE19	pp	Rv3716c
Rv2598	pp	purE
Rv2598	pp	dapB
dcd	pp	gpgP
dcd	pp	Rv0831c
dcd	pp	dapB
higA	pp	sigH
ndh	pp	Rv2239c
Rv1137c	pp	dapB
vapB19	pp	sodA
recO	pp	tesA
recO	pp	rpiB
Rv1337	pp	dapB
Rv0789c	pp	cmaA1
Rv0789c	pp	bcp
Rv0789c	pp	rpsO
Rv0068	pp	gabT
Rv0068	pp	Rv2409c
Rv1505c	pp	tgs4
Rv0759c	pp	folD
Rv1354c	pp	dnaJ2
Rv1354c	pp	Rv3819
Rv1354c	pp	Rv3716c
Rv0979c	pp	hisG
Rv0979c	pp	dapB
rskA	pp	sigK
Rv2635	pp	Rv3600c
Rv2635	pp	hsaA
Rv3000	pp	sodA
Rv0610c	pp	accE5
Rv0687	pp	rpoA
Rv1120c	pp	Rv2182c
Rv0822c	pp	echA6
Rv1105	pp	Rv1265
Rv1105	pp	glgP
Rv0025	pp	gpgP
Rv0025	pp	hisB
Rv2688c	pp	Rv3519
Rv0519c	pp	udgB
Rv0519c	pp	aroB
Rv0519c	pp	dapB
Rv0519c	pp	cspA

Rv1428c	pp	tal
dnaA	pp	bfrA
dnaA	pp	Rv2522c
vapC13	pp	Rv3669
vapC13	pp	rpsB
Rv0680c	pp	hisB
Rv0680c	pp	ceoB
whiB2	pp	folD
celA2b	pp	gltS
Rv0790c	pp	prcA
rplW	pp	nadC
rplW	pp	TB18.6
eccA3	pp	Rv0925c
eccA3	pp	TB27.3
Rv2816c	pp	folD
Rv3192	pp	ppa
yrbE2A	pp	prcA
mce2R	pp	fas
mce2R	pp	Rv3600c
PE24	pp	Rv3272
tsnR	pp	dapB
tsnR	pp	Rv3600c
echA20	pp	Rv3600c
gca	pp	nuoE
galE3	pp	echA6
galE3	pp	Rv1245c
galE3	pp	Rv3600c
Rv1474c	pp	pdxH
cysM	pp	Rv2765
cysM	pp	fabG1
PE_PGRS37	pp	Rv2716
PE_PGRS37	pp	kasA
cut3	pp	Rv3548c
hycE	pp	accE5
hycE	pp	Rv0315
hycE	pp	prcA
hycE	pp	hupB
che1	pp	echA19
che1	pp	dapB
vapC33	pp	cmaA1
Rv1885c	pp	rpsB
uvrD1	pp	Rv1532c
uvrD1	pp	Rv3583c
Rv1480	pp	ahpD
moaC2	pp	aroG
vapB21	pp	rpsO
vapB21	pp	dapB
hsdS.1	pp	ilvN
subI	pp	cadI
fdxA	pp	TB18.6
fdxA	pp	ceoB
Rv0461	pp	dapB
fucA	pp	pyrR
Rv2022c	pp	fixA
Rv2022c	pp	Rv3368c
Rv3395c	pp	topA
galTb	pp	rpsT
galTb	pp	amiA1
galTb	pp	pheA
cyp123	pp	Rv3726
Rv0616c	pp	Rv1422
Rv0616c	pp	dapB
Rv0209	pp	infC
gcvH	pp	cysS1
gcvH	pp	fadE35
Rv3386	pp	galE1
Rv0257	pp	hisB
Rv0257	pp	dapB
hsp	pp	thiD
hsp	pp	rplA
hsp	pp	mmaA4
hsp	pp	murA
Rv2585c	pp	fadD13
Rv0077c	pp	Rv0580c
Rv1100	pp	galE1
rseA	pp	scoA
rseA	pp	ilvB1
Rv0799c	pp	relE
Rv0799c	pp	dapB
Rv1413	pp	infC
Rv1413	pp	folD

Rv0940c	pp	rpoA
ephG	pp	Rv3600c
ephG	pp	adhD
Rv0323c	pp	hspX
Rv0323c	pp	TB18.6
Rv0323c	pp	kdtB
Rv0323c	pp	gpgP
tlyA	pp	Rv3699
Rv0074	pp	Rv0221
rpmC	pp	Rv0953c
rpmC	pp	rpsB
rpmC	pp	Rv3131
trcS	pp	Rv3814c
Rv2437	pp	topA
mazF4	pp	accE5
mazF4	pp	glmS
mazF4	pp	topA
fgd2	pp	scoB
Rv0787A	pp	gpgP
Rv2472	pp	dapB
Rv3517	pp	topA
Rv2432c	pp	dapB
Rv1498c	pp	hupB
Rv2307B	pp	fadE25
Rv1748	pp	dapB
Rv1735c	pp	folD
Rv0606	pp	Rv3600c
Rv0606	pp	fadD9
Rv2541	pp	dapB
Rv0695	pp	bkdC
Rv0695	pp	Rv2067c
fadE18	pp	ppa
Rv0763c	pp	Rv1443c
Rv2387	pp	viuB
Rv2387	pp	Rv2624c
lppH	pp	Rv3600c
argA	pp	Rv3099c
mbtI	pp	Rv2409c
folP2	pp	Rv2624c
Rv2081c	pp	Rv3600c
Rv2081c	pp	fadD13
obg	pp	fas
esxL	pp	folD
Rv3073c	pp	accD5
Rv1342c	pp	pdxH
Rv2407	pp	Rv2569c
Rv2910c	pp	tgs2
sigE	pp	hisB
Rv0731c	pp	sseA
Rv0731c	pp	Rv0925c
Rv1060	pp	glpD2
Rv2665	pp	ilvB1
Rv2599	pp	dapB
Rv0912	pp	bfrA
Rv0912	pp	nuoE
Rv0912	pp	rpiB
Rv0912	pp	Rv3075c
Rv0912	pp	Rv3131
pepQ	pp	echA21
pks10	pp	echA19
mmpL1	pp	rplJ
mmpL1	pp	Rv3131
Rv0192	pp	echA21
Rv0986	pp	rplU
Rv3481c	pp	echA19
Rv0921	pp	Rv3519
eccD5	pp	snzP
Rv0396	pp	Rv1265
Rv0329c	pp	mmaA2
Rv0516c	pp	fadD13
Rv0516c	pp	mmaA2
Rv0516c	pp	rpmG2
Rv1680	pp	rpsB
mazF6	pp	topA
Rv0374c	pp	rpmG2
dppB	pp	Rv3678c
mbtE	pp	sseA
Rv2269c	pp	Rv2581c
Rv2269c	pp	fadE25
Rv2554c	pp	mapB
hadA	pp	tgs4

hadA	pp	Rv3269
hadA	pp	rphA
rpsN2	pp	kdtB
rpsN2	pp	Rv3094c
Rv2018	pp	accE5
Rv2018	pp	sthA
PPE9	pp	thrS
Rv1056	pp	dapA
Rv1056	pp	Rv3520c
Rv2324	pp	Rv2581c
PE_PGRS32	pp	fadD31
PE_PGRS32	pp	dapB
esxK	pp	dapB
Rv2864c	pp	hupB
mmaA1	pp	mutA
ccdA	pp	rpsH
cobB	pp	folD
bioD	pp	topA
Rv0650	pp	echA19
Rv1087A	pp	mutA
Rv1087A	pp	Rv3600c
cyp135A1	pp	dapB
Rv2469c	pp	Rv2475c
Rv2469c	pp	mhuD
iniC	pp	hupB
iniC	pp	Rv3716c
iniC	pp	gpm1
Rv3813c	pp	trxC
Rv3007c	pp	Rv3131
pcp	pp	Rv3583c
Rv0138	pp	aroF
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oppC	pp	Rv2454c
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Rv2478c	pp	ilvB1
cobL	pp	gltD
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Rv0007	pp	echA19
PE27	pp	Rv3669
PE5	pp	Rv3600c
PE5	pp	Rv1533
PE5	pp	fabG2
Rv0049	pp	mutA
Rv0049	pp	kasA
Rv0049	pp	Rv3520c
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Rv2880c	pp	hupB
vapB13	pp	pheA
serB1	pp	echA7
Rv1510	pp	leuA
Rv1510	pp	Rv3600c
Rv0039c	pp	bfrA
Rv0998	pp	nuoF
mshA	pp	Rv1928c
mshA	pp	Rv1532c
PPE38	pp	tig
PPE38	pp	Rv2475c
PPE38	pp	ceoB
Rv1823	pp	fixA
otsB1	pp	accE5
otsB1	pp	Rv3716c
vapC2	pp	rplC
vapC2	pp	acg
dedA	pp	dapB
dedA	pp	amiA1
Rv1496	pp	accE5
Rv2203	pp	pfkA
Rv2203	pp	Rv3850
alkA	pp	Rv3050c
Rv0547c	pp	35kd_ag
Rv0547c	pp	rpsO
Rv1924c	pp	dapB
Rv1504c	pp	TB18.6
Rv1833c	pp	dapB

Rv2806	pp	folD
Rv2806	pp	Rv3224
lppI	pp	Rv2409c
lppI	pp	dapB
lppI	pp	dprE2
Rv1888c	pp	pdxH
Rv1888c	pp	Rv3583c
moxR1	pp	Rv2005c
moxR1	pp	Rv1770
moxR1	pp	leuA
Rv2617c	pp	dapB
Rv2617c	pp	Rv3600c
vapB6	pp	Rv2474c
lppO	pp	dapB
lppO	pp	metC
lppO	pp	Rv2953
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Rv1444c	pp	glf
Rv1444c	pp	pykA
Rv0229c	pp	topA
Rv2696c	pp	Rv3548c
Rv3230c	pp	fadA6
Rv1132	pp	Rv2159c
Rv0213c	pp	dapB
Rv1773c	pp	sigH
Rv1773c	pp	hsaA
Rv1190	pp	rpsT
Rv1190	pp	ppa
rpfC	pp	Rv3678c
rpfC	pp	ceoC
Rv1135A	pp	amiA1
Rv1135A	pp	Rv1265
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Rv1003	pp	rpsO
Rv1003	pp	nusB
Rv1003	pp	cmaA1
Rv1003	pp	Rv2159c
Rv1003	pp	Rv1544
Rv1003	pp	Rv1422
mutY	pp	gltD
Rv1891	pp	Rv1898
msrB	pp	rpsO
msrB	pp	dapB
msrB	pp	Rv3814c
ufaA1	pp	nuoE
ufaA1	pp	hisB
ufaA1	pp	Rv1144
thiG	pp	inhA
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Rv1012	pp	Rv2405
Rv0609A	pp	Rv2716
Rv0609A	pp	echA5
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vapC24	pp	Rv1627c
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Rv2310	pp	folD
espC	pp	espR
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deoC	pp	cfp29
deoC	pp	aroF
dfrA	pp	Rv3368c
pepD	pp	purE
prfB	pp	rpsO
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vapB12	pp	aroG
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Rv2219A	pp	prfB
xthA	pp	hupB
xthA	pp	tgs4
xthA	pp	Rv1532c
Rv1577c	pp	Rv1770
Rv1577c	pp	folD
Rv1577c	pp	dapB
Rv1577c	pp	hsaD
mce3R	pp	accA3
dgt	pp	ppsE
sigL	pp	Rv3600c
Rv2825c	pp	rpsK

whiB3	pp	Rv3548c
whiB3	pp	Rv3600c
whiB3	pp	rpoA
cysW	pp	rpiB
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Rv2033c	pp	fadD13
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Rv1638A	pp	Rv2083
Rv1638A	pp	folD
Rv1638A	pp	rpsB
Rv1638A	pp	gcvT
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Rv3120	pp	Rv3814c
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Rv1571	pp	Rv2230c
Rv2787	pp	Rv3224
Rv2699c	pp	tgs4
Rv1939	pp	Rv3600c
Rv1939	pp	Rv3094c
Rv1939	pp	vapC17
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hrp1	pp	topA
Rv2047c	pp	viuB
Rv2560	pp	gabT
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Rv0484c	pp	Rv2676c
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Rv2250A	pp	lsr2
Rv2256c	pp	Rv2405
Rv1455	pp	ppa
Rv1455	pp	infC
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Rv1574	pp	Rv3600c
argC	pp	ilvE
cyp143	pp	purE
devB	pp	Rv3699
devB	pp	nadC
devB	pp	Rv2569c
Rv0048c	pp	echA6
Rv0161	pp	rpsT
Rv0997	pp	nadC
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Rv2636	pp	pheA
Rv2636	pp	amiA1
vapB14	pp	mapB
vapB14	pp	Rv3600c
Rv0406c	pp	dapB
Rv0802c	pp	Rv2474c
Rv0802c	pp	tpx
Rv2091c	pp	Rv3600c
Rv2253	pp	rpsI
Rv2253	pp	dapB
Rv2821c	pp	sseA
Rv2821c	pp	Rv3600c
Rv1767	pp	accE5
cysQ	pp	hsaD
Rv3475	pp	topA
Rv1830	pp	fadE23
Rv1830	pp	folD
Rv2669	pp	Rv3777
Rv2669	pp	hsaD
Rv2669	pp	gatA
Rv2680	pp	Rv3131
lipB	pp	Rv2474c
lipB	pp	accD5
Rv3126c	pp	topA
xylB	pp	Rv2409c
xylB	pp	gpgP
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Rv0600c	pp	mmsA
Rv1518	pp	Rv3678c
vapC18	pp	dapB
Rv1804c	pp	rplS
Rv0259c	pp	fadE25
Rv0259c	pp	fadD31
vapC21	pp	dapB
fabH	pp	pknD
fabH	pp	ahpD
fabH	pp	cmaA1
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Rv2805	pp	fadE25
rubA	pp	folE
nuoC	pp	Rv3329
nuoC	pp	sigH
treX	pp	kdtB
Rv3134c	pp	glpD2
Rv0345	pp	ceoC
Rv1184c	pp	Rv3583c
Rv1184c	pp	folD
pstP	pp	pdxH
mazE4	pp	glyS
mazE4	pp	aspS
mazE4	pp	topA
mazF2	pp	accE5
Rv1104	pp	dut
Rv1104	pp	amiA1
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Rv0308	pp	hisB
mmsB	pp	rpsO
menA	pp	ahpD
Rv1863c	pp	pheA
Rv0142	pp	trxC
Rv0145	pp	Rv1155
rpfA	pp	sseA
rpfA	pp	nuoE
rpfA	pp	gpgP
Rv0966c	pp	cmaA1
Rv0614	pp	Rv0831c
Rv0614	pp	rpoA
Rv0614	pp	rpsD
Rv0614	pp	htdY
Rv0219	pp	inhA
Rv0219	pp	rplM
Rv0219	pp	glf
PE10	pp	Rv3777
PE10	pp	trxC
PE10	pp	atpD
PE10	pp	metK
plcD	pp	echA21
plcD	pp	dapB
relB	pp	mtrA
relB	pp	Rv3075c
Rv0027	pp	glf
Rv0027	pp	dapB
Rv0027	pp	aroF
Rv0027	pp	udgB
Rv0027	pp	fadD24
Rv0027	pp	rpsS
Rv0027	pp	Rv0439c
Rv0027	pp	Rv1627c
gmk	pp	nadC
Rv0187	pp	rplD
Rv0187	pp	gltD
Rv0187	pp	Rv0801
rpe	pp	ceoB
lprO	pp	atpG
pbpB	pp	glpD2
rpsN1	pp	Rv1544
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Rv3233c	pp	cmaA1
Rv2687c	pp	sodA
PE4	pp	Rv0927c
ruvA	pp	purE
Rv1975	pp	ctpC
Rv1975	pp	fadE22
Rv1975	pp	trpS
Rv1975	pp	fas
Rv1975	pp	efp
Rv1975	pp	Rv3272
Rv3047c	pp	ppa

mazE7	pp	hns
Rv1019	pp	folD
Rv1019	pp	Rv1025
Rv2323c	pp	dut
narK2	pp	Rv3131
narK2	pp	Rv2410c
Rv0307c	pp	rpsA
Rv0307c	pp	trpC
Rv0307c	pp	serC
Rv0307c	pp	murA
PPE22	pp	ahpC
PPE22	pp	gabT
PPE22	pp	Rv2005c
PPE22	pp	pafA
PPE22	pp	gltD
PPE22	pp	topA
PPE22	pp	Rv3169
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Rv1414	pp	fas
Rv1414	pp	hisB
hadC	pp	hisB
Rv2464c	pp	echA21
Rv2464c	pp	espB
pstS3	pp	serA1
Rv1257c	pp	Rv3819
lipG	pp	mmsA
lipG	pp	icd1
wbbL1	pp	Rv3329
wbbL1	pp	glf
Rv0122	pp	dapB
Rv0122	pp	Rv3600c
Rv0067c	pp	fadE2
vapB43	pp	amiA1
Rv1867	pp	rpsB
Rv1867	pp	mapB
Rv1867	pp	dapB
Rv0909	pp	hsaA
ogt	pp	glpD2
ogt	pp	dapB
ogt	pp	amiA1
ogt	pp	fabG2
ogt	pp	glyS
ogt	pp	prcA
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Rv2717c	pp	accE5
Rv2717c	pp	Rv3224
tesB2	pp	dapB
Rv0893c	pp	dapB
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Rv1044	pp	Rv2581c
Rv1716	pp	Rv3368c
Rv1050	pp	Rv3600c
fabD	pp	mapB
fabD	pp	purE
Rv3034c	pp	ispF
bpoC	pp	Rv3600c
bpoC	pp	dapB
bpoC	pp	nadC
clpP1	pp	Rv3720
esxV	pp	Rv3850
esxV	pp	espR
esxV	pp	topA
Rv0302	pp	trpC
PE6	pp	TB18.6
PE6	pp	scoA
Rv1668c	pp	sigH
Rv1668c	pp	purE
Rv0031	pp	topA
Rv0031	pp	dapB
Rv0031	pp	Rv2067c
Rv0031	pp	Rv1544
whiB7	pp	Rv3814c
whiB7	pp	ispF
whiB7	pp	rpsK
whiB7	pp	leuA
pup	pp	Rv3200c
Rv2695	pp	Rv3329
Rv2695	pp	dapB
echA14	pp	cmaA1
Rv3209	pp	cmaA1
mpg	pp	topA

accD5	pp	mesJ
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rpsT	pp	accE5
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rpsT	pp	Rv3412
prrA	pp	Rv3412
vapB27	pp	Rv1752
TB16.3	pp	TB22.2
Rv1178	pp	Rv2825c
Rv1178	pp	Rv3438
Rv1178	pp	Rv3057c
Rv1178	pp	nei
murB	pp	Rv0579
murB	pp	Rv0776c
murB	pp	Rv3134c
murB	pp	Rv3475
echA5	pp	Rv3693
echA5	pp	Rv3468c
echA5	pp	pyrF
echA5	pp	Rv0997
echA5	pp	rpfE
echA5	pp	vapB37
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Rv0801	pp	Rv1874
Rv0801	pp	Rv2022c
Rv0801	pp	espD
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Rv1532c	pp	PPE39
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Rv1532c	pp	Rv3131
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Rv3169	pp	Rv3566A
mak	pp	Rv3672c
mak	pp	Rv1501
mak	pp	esxV
fbiC	pp	wbbL1
fbiC	pp	Rv3422c
fbiC	pp	Rv1571
trpS	pp	Rv3672c
trpS	pp	Rv3475
trpS	pp	PE_PGRS60
fum	pp	Rv3716c
fum	pp	Rv3789
fum	pp	Rv1287
fum	pp	ndkA
Rv1898	pp	PE_PGRS61
Rv1898	pp	Rv1937
dapF	pp	esxB
dapF	pp	Rv2862c
Rv2716	pp	kdtB
Rv2716	pp	rnhB
Rv2716	pp	recX
Rv2716	pp	nuoI
fadE26	pp	Rv3819
Rv1732c	pp	Rv3134c
Rv1732c	pp	Rv3230c
Rv1732c	pp	Rv3073c
sodC	pp	sdhB
sodC	pp	dapB
sodC	pp	Rv2708c
sodC	pp	mbtB
sodC	pp	Rv2336
sodC	pp	Rv1533
sodC	pp	Rv1157c
kdtB	pp	esxC
Rv3094c	pp	PPE58
Rv3094c	pp	fadA6
Rv3094c	pp	Rv3224
rplY	pp	Rv3579c
rplY	pp	Rv3071
rplY	pp	Rv2717c
qcrA	pp	Rv3492c
viuB	pp	amiD
viuB	pp	Rv3236c
viuB	pp	Rv2994
viuB	pp	ubiA
viuB	pp	Rv3844
viuB	pp	rplM

viuB	pp	fadE28
Rv2676c	pp	Rv2762c
Rv2676c	pp	dfrA
Rv2676c	pp	trcX
echA3	pp	Rv0986
echA3	pp	TB8.4
icd1	pp	ispF
Rv2298	pp	Rv3204
Rv2298	pp	echA19
Rv2298	pp	Rv3412
cfp29	pp	Rv2954c
cfp29	pp	espG2
mihF	pp	Rv2033c
Rv1265	pp	Rv2818c
Rv1265	pp	Rv1502
Rv1265	pp	Rv2307B
Rv1265	pp	Rv2568c
Rv1265	pp	Rv2647
Rv1265	pp	Rv1928c
Rv1265	pp	fdxA
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Rv1265	pp	pknF
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Rv1265	pp	rpe
Rv1265	pp	lpqA
Rv1265	pp	papA5
Rv1265	pp	viuB
Rv1265	pp	mapB
Rv1265	pp	acg
Rv0293c	pp	tam
Rv0293c	pp	Rv2310
Rv0293c	pp	Rv3359
Rv0293c	pp	Rv0756c
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Rv1261c	pp	Rv1752
prfB	pp	Rv3517
prfB	pp	Rv3122
Rv1404	pp	devB
hisA	pp	Rv3327
Rv3726	pp	Rv3786c
Rv3726	pp	Rv3766
pykA	pp	Rv2250c
pykA	pp	Rv3600c
rpsO	pp	eccE2
rpsO	pp	echA18
rpsO	pp	trmD
Rv0148	pp	PE_PGRS28
Rv0148	pp	Rv2541
Rv0148	pp	Rv2310
Rv0148	pp	Rv1957
Rv0148	pp	Rv3840
rplL	pp	lppQ
rplL	pp	fum
efp	pp	PPE67
Rv0333	pp	echA6
Rv0333	pp	vapC7
citA	pp	lppW
gcvT	pp	PE_PGRS60
menB	pp	Rv2621c
accE5	pp	Rv3472
accE5	pp	Rv3471c
accE5	pp	deoD
nusG	pp	Rv0743c
cysK1	pp	Rv3837c
citE	pp	mpt70
citE	pp	Rv2696c
citE	pp	eccCa1
Rv1533	pp	dapB
Rv0831c	pp	glyA1
Rv0831c	pp	PE_PGRS18
Rv0831c	pp	PPE69
Rv0831c	pp	TB8.4
Rv0831c	pp	recX
Rv0831c	pp	Rv1044
Rv0831c	pp	Rv1700
Rv0831c	pp	Rv2372c
Rv0831c	pp	Rv3471c
rplS	pp	Rv3678c
rplS	pp	Rv3600c
rplS	pp	whiB3
rplS	pp	nuoI

rplS	pp	Rv3098c
mapB	pp	Rv3813c
mapB	pp	metA
mapB	pp	Rv3660c
fixA	pp	vapB46
Rv0433	pp	whiB3
Rv0433	pp	Rv2765
Rv0433	pp	Rv2653c
pyrR	pp	pyrR
pyrR	pp	Rv1670
pyrR	pp	Rv2728c
rplA	pp	Rv2570
gabT	pp	Rv2622
gabT	pp	Rv3773c
gabT	pp	Rv2817c
fadE10	pp	Rv3327
mog	pp	Rv0968
mog	pp	Rv2035
mog	pp	Rv3472
mog	pp	dapB
mog	pp	rpiB
mog	pp	Rv3295
mog	pp	wbbL1
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ideR	pp	Rv3067
mkl	pp	Rv1975
mkl	pp	obg
mkl	pp	Rv1117
mkl	pp	Rv1638A
mkl	pp	Rv2474c
mkl	pp	Rv1104
Rv0760c	pp	Rv3131
ilvN	pp	idsA1
ilvN	pp	Rv3015c
lpqO	pp	PE20
eis	pp	Rv2468c
eis	pp	Rv2636
eis	pp	whiB3
sucC	pp	Rv1930c
sucC	pp	prcA
sucC	pp	pks12
sucC	pp	vapB20
atpG	pp	Rv3741c
atpG	pp	Rv3008
atpG	pp	Rv1444c
atpG	pp	topA
atpG	pp	Rv3642c
adk	pp	Rv1455
rplD	pp	vapB40
rplD	pp	Rv2825c
rplD	pp	Rv1135A
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rplD	pp	PPE58
glnB	pp	Rv3327
hbhA	pp	vapC38
hbhA	pp	Rv1987
hbhA	pp	Rv3230c
hbhA	pp	nuoI
hbhA	pp	Rv1513
hbhA	pp	echA11
hbhA	pp	PPE22
hbhA	pp	bioD
hbhA	pp	wbbL1
dnaN	pp	Rv2621c
dnaN	pp	Rv3142c
dnaN	pp	Rv0484c
ssb	pp	Rv3474
ssb	pp	hsdS.1
ssb	pp	ung
ssb	pp	ssb
dapC	pp	Rv3752c
dapC	pp	Rv1507A
dapC	pp	Rv3204
dapC	pp	accD2
folD	pp	Rv3690
folD	pp	fadE28
folD	pp	Rv3434c
folD	pp	idsB
folD	pp	Rv3850
folD	pp	Rv3766

folD	pp	Rv3694c
espR	pp	Rv3850
thrS	pp	glpQ1
ahpD	pp	Rv2715
ahpD	pp	dfrA
ahpD	pp	ahpD
ahpD	pp	Rv2622
ahpD	pp	Rv2828c
ahpD	pp	nagA
ahpD	pp	Rv2817c
ahpD	pp	Rv2821c
ahpD	pp	ppa
ahpD	pp	fadE35
Rv2005c	pp	Rv2665
Rv2005c	pp	Rv2616
prsA	pp	vapB41
prsA	pp	hspX
hspX	pp	ltp2
hspX	pp	lrpA
hspX	pp	whiB3
hspX	pp	Rv2267c
hspX	pp	PPE38
hspX	pp	trpD
hspX	pp	Rv2250c
Rv1829	pp	Rv2253
Rv1829	pp	Rv2990c
Rv1829	pp	hupB
Rv1829	pp	lppF
rplX	pp	ftsZ
rplX	pp	Rv2271
fadE1	pp	rpfA
desA2	pp	Rv3718c
desA2	pp	Rv2825c
canA	pp	Rv1883c
canA	pp	Rv1668c
canA	pp	hisB
canA	pp	clpS
canA	pp	Rv3600c
canA	pp	nuoC
canA	pp	PPE38
infC	pp	PE20
infC	pp	Rv2695
infC	pp	recO
infC	pp	Rv2775
infC	pp	Rv2717c
tsf	pp	usfY
tsf	pp	rraA
pth	pp	mazF9
thiD	pp	vapB19
thiD	pp	Rv2409c
thiD	pp	Rv1265
hemC	pp	PE29
hemC	pp	Rv3033
hemC	pp	devS
hemC	pp	Rv3137
hemC	pp	Rv1444c
hemC	pp	Rv1474c
hemC	pp	Rv2204c
mutA	pp	whiB3
pepB	pp	Rv3466
pepB	pp	PPE69
fadD8	pp	Rv3412
fadD8	pp	pknH
fadD8	pp	PE7
fadD8	pp	Rv1891
fadD8	pp	polA
mmsA	pp	Rv0776c
mmsA	pp	fadE15
mmsA	pp	Rv1137c
mmsA	pp	Rv1577c
mmsA	pp	trxB1
mmsA	pp	fadD14
mmsA	pp	PE7
mmsA	pp	Rv1132
mmsA	pp	Rv1105
mmsA	pp	Rv1722
mmsA	pp	lprM
mmsA	pp	Rv1975
mmsA	pp	Rv1998c
mmsA	pp	hisA
mmsA	pp	Rv1638A

mmsA	pp	ppnK
mmsA	pp	PPE22
mmsA	pp	Rv2658c
mmsA	pp	Rv2700
mmsA	pp	Rv2898c
mmsA	pp	Rv2915c
mmsA	pp	pfkB
mmsA	pp	Rv2146c
mmsA	pp	stp
mmsA	pp	esxP
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mmsA	pp	Rv3067
mmsA	pp	fixA
mmsA	pp	PPE48
mmsA	pp	tcrY
mmsA	pp	panD
mmsA	pp	whiB3
mmsA	pp	accA3
mmsA	pp	esxB
lldD2	pp	glnD
lldD2	pp	Rv3637
lldD2	pp	Rv3091
Rv0365c	pp	echA14
Rv0365c	pp	Rv1501
Rv0365c	pp	Rv1975
fadE7	pp	purE
fadE7	pp	Rv1003
fadE7	pp	Rv0805
Rv0149	pp	Rv2737A
ppa	pp	Rv3702c
mbtN	pp	Rv3672c
relE	pp	mhpE
relE	pp	relF
relE	pp	relB
pheS	pp	gcvH
fabG3	pp	Rv2240c
fabG3	pp	gpgP
fabG3	pp	ruvC
fabG3	pp	mpt53
fabG3	pp	Rv3599c
scoA	pp	Rv3778c
scoA	pp	Rv2857c
scoA	pp	whiB3
scoA	pp	Rv3216
galE1	pp	Rv3766
Rv0332	pp	lppO
Rv0332	pp	Rv2003c
Rv0332	pp	Rv1116A
Rv0332	pp	Rv3471c
TB18.6	pp	Rv2510c
TB18.6	pp	vapB43
TB18.6	pp	Rv3041c
TB18.6	pp	Rv3486
rpsJ	pp	esxK
rpsJ	pp	rsbW
rpsJ	pp	ogt
Rv1191	pp	Rv3780
Rv1191	pp	Rv3471c
Rv1191	pp	esxV
Rv0576	pp	Rv2033c
Rv0576	pp	Rv2119
Rv0576	pp	Rv2551c
Rv0576	pp	Rv2766c
hsaA	pp	Rv3760
dut	pp	Rv2765
pgk	pp	Rv2372c
pgk	pp	Rv1941
pgk	pp	Rv2722
pgk	pp	Rv2506
pgk	pp	Rv3047c
pgk	pp	Rv2961
pgk	pp	whiB3
echA6	pp	Rv1638A
echA6	pp	inhA
echA6	pp	Rv2102
echA6	pp	Rv1748
echA6	pp	mprA
echA6	pp	fadA4
echA6	pp	Rv1137c
echA6	pp	tesB2
echA6	pp	cysH

echA6	pp	Rv3352c
echA6	pp	fadD22
echA6	pp	Rv3502c
echA6	pp	Rv3400
echA6	pp	rfbD
echA6	pp	nth
echA6	pp	PE35
Rv0081	pp	umaA
Rv0081	pp	vapB13
Rv0081	pp	vapC18
Rv0081	pp	dapB
Rv0081	pp	Rv0477
Rv0081	pp	Rv3337
Rv0081	pp	Rv2857c
Rv0081	pp	Rv0825c
purH	pp	rpoZ
gltS	pp	wbbL1
rplC	pp	acpS
rplC	pp	Rv2522c
rplC	pp	Rv1941
rplC	pp	whiB3
rplC	pp	Rv3604c
ppsE	pp	whiB3
Rv3368c	pp	Rv3538
Rv3368c	pp	Rv3817
hisB	pp	Rv3768
hisB	pp	Rv3716c
hisB	pp	Rv3766
hisB	pp	fadD3
hisB	pp	Rv3662c
hisB	pp	accA3
hisB	pp	kshA
hisB	pp	Rv1927
hisB	pp	PPE22
hisB	pp	Rv2203
hisB	pp	Rv1961
hisB	pp	Rv2700
hisB	pp	Rv2661c
hisB	pp	Rv3182
hisB	pp	Rv2819c
hisB	pp	hemN
hisB	pp	Rv2292c
hisB	pp	Rv2658c
hisB	pp	Rv2536
fgd1	pp	hsaA
fgd1	pp	esxV
fgd1	pp	Rv0634c
accA1	pp	Rv3702c
accA1	pp	nuoC
accA1	pp	Rv2867c
rplU	pp	Rv3113
rplU	pp	Rv3530c
sodA	pp	gid
rpsF	pp	Rv1708
scoB	pp	Rv3845
nat	pp	Rv3600c
Rv0566c	pp	lppA
Rv0566c	pp	Rv1120c
Rv0566c	pp	Rv1939
Rv0566c	pp	Rv2475c
Rv0566c	pp	Rv2653c
Rv0566c	pp	Rv3108
Rv0566c	pp	Rv3351c
Rv0439c	pp	Rv2256c
purD	pp	Rv1257c
purD	pp	espC
purD	pp	purD
Rv2474c	pp	leuA
htdX	pp	esxK
Rv2166c	pp	ahpD
Rv2166c	pp	Rv2166c
sseA	pp	Rv3861
sseA	pp	Rv3642c
sseA	pp	Rv3519
fadD32	pp	ethR
cadI	pp	cadI
cadI	pp	ilvB1
fadA2	pp	Rv2844
fadA2	pp	Rv3778c
fadA2	pp	vapC18
fadA2	pp	vapC28

pfkB	pp	Rv2765
pdxH	pp	Rv3243c
metB	pp	Rv2474c
metB	pp	Rv2669
metB	pp	folD
metB	pp	Rv3471c
rplB	pp	lpqH
rplB	pp	Rv2585c
rplB	pp	Rv3471c
rplB	pp	Rv2306A
rplB	pp	Rv2326c
Rv0216	pp	Rv2464c
Rv0216	pp	Rv2256c
Rv0216	pp	Rv1053c
Rv0216	pp	spoU
Rv0216	pp	vapB2
Rv0216	pp	rpe
purE	pp	Rv3362c
purE	pp	purE
Rv2054	pp	trmD
Rv2054	pp	proW
mhuD	pp	Rv3778c
gpm1	pp	whiB3
gpm1	pp	PE20
gpm1	pp	dapB
gpm1	pp	wbbL1
secE2	pp	Rv2857c
secE2	pp	vapB41
secE2	pp	ppiB
secE2	pp	vapB18
secE2	pp	Rv1290A
Rv0141c	pp	Rv3572
Rv0141c	pp	Rv3169
Rv0141c	pp	Rv3387
Rv0141c	pp	Rv0759c
Rv0141c	pp	Rv1043c
Rv0141c	pp	Rv1973
Rv0141c	pp	Rv2695
Rv0141c	pp	Rv0724A
Rv0141c	pp	lppW
Rv0141c	pp	PE_PGRS8
Rv0141c	pp	deoA
rpsB	pp	Rv3304
rpsB	pp	lppH
rpsB	pp	Rv3108
Rv3583c	pp	esxV
Rv3583c	pp	Rv3629c
Rv0925c	pp	Rv3632
Rv0925c	pp	Rv1676
Rv0925c	pp	vapB37
Rv0925c	pp	hsdM
Rv0925c	pp	esxL
Rv0925c	pp	relB
Rv0925c	pp	mtr
snzP	pp	aldC
snzP	pp	proS
snzP	pp	Rv2686c
Rv1025	pp	cysA1
Rv1025	pp	sirR
Rv1025	pp	narX
Rv1025	pp	glf
Rv1025	pp	PE27A
Rv1025	pp	htdY
Rv1025	pp	Rv3549c
Rv1025	pp	Rv3094c
Rv1025	pp	Rv2636
Rv1025	pp	Rv1810
Rv1025	pp	Rv1191
Rv1144	pp	lpdA
Rv1144	pp	ald
Rv1144	pp	mtr
Rv1144	pp	Rv1948c
Rv1144	pp	Rv3662c
Rv1144	pp	Rv3848
Rv1144	pp	Rv3912
Rv1144	pp	Rv1377c
grpE	pp	Rv0358
grpE	pp	accD5
grpE	pp	Rv3467
grpE	pp	dgt
grpE	pp	vapC18

grpE	pp	Rv1669
grpE	pp	Rv2292c
grpE	pp	Rv0992c
grpE	pp	cyp139
echA9	pp	gevT
Rv1919c	pp	Rv2076c
orn	pp	rnpA
orn	pp	lipY
orn	pp	Rv3861
Rv3099c	pp	Rv3327
rpsH	pp	Rv2665
rpsH	pp	dapB
rpsH	pp	nuoC
rpsH	pp	Rv1044
mrr	pp	aroE
leuB	pp	Rv3552
leuB	pp	Rv3661
leuB	pp	nuoJ
leuB	pp	rimI
coaE	pp	trcX
glgP	pp	bkdA
glgP	pp	Rv2085
glgP	pp	Rv1510
glgP	pp	Rv3837c
glgP	pp	manB
dnaJ2	pp	ligC
dnaJ2	pp	pknK
dnaJ2	pp	Rv2752c
corA	pp	Rv1276c
corA	pp	Rv2867c
corA	pp	Rv3745c
TB15.3	pp	Rv3818
TB15.3	pp	Rv2695
proC	pp	PE_PGRS60
fabG4	pp	lppJ
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Rv1544	pp	Rv3069
Rv1544	pp	Rv2256c
Rv1544	pp	Rv2323c
Rv2280	pp	Rv3327
fadA3	pp	echA14
fadA3	pp	Rv2369c
fadA3	pp	lppO
fadA3	pp	Rv1455
fadA3	pp	Rv3085
fadA3	pp	pptT
fadA3	pp	Rv2665
Rv0854	pp	mpt53
Rv0854	pp	dapB
Rv0854	pp	trpC
Rv0854	pp	Rv3778c
Rv0854	pp	Rv2787
Rv0854	pp	Rv3312A
pknD	pp	Rv1354c
pknD	pp	kasA
pknD	pp	apa
pknD	pp	whiB7
pknD	pp	Rv2361c
gpgP	pp	aspS
gpgP	pp	Rv2808
gpgP	pp	ephG
gpgP	pp	Rv3073c
gpgP	pp	Rv3072c
gpgP	pp	Rv3475
gpgP	pp	echA18.1
gpgP	pp	Rv3807c
Rv2454c	pp	Rv2622
Rv2454c	pp	fadE35
Rv1996	pp	Rv2665
Rv1996	pp	Rv3440c
rplJ	pp	nuoI
rplJ	pp	fadD11.1
rplJ	pp	Rv2619c
rplJ	pp	mazF9
rplJ	pp	pknI
rplJ	pp	end
rplJ	pp	cysN
rplJ	pp	Rv1443c
fadD31	pp	esxO
fadD31	pp	aroK
fadD31	pp	PE_PGRS41

fadD31	pp	esxR
fadD31	pp	glnD
fadD31	pp	PPE50
rpmF	pp	bcpB
rpmF	pp	Rv1060
Rv1928c	pp	vapC35
bfrA	pp	bfrA
bfrA	pp	Rv3836
bfrA	pp	proA
Rv2406c	pp	vapC47
Rv2406c	pp	Rv3741c
qor	pp	Rv2639c
qor	pp	Rv2669
qor	pp	Rv2688c
qor	pp	lytB1
qor	pp	cut4
sigK	pp	Rv3474
sigK	pp	rpsE
sigK	pp	PPE22
sigK	pp	Rv1051c
sigK	pp	aroF
sigK	pp	Rv2170
sigK	pp	Rv2653c
sigK	pp	Rv2585c
Rv1148c	pp	Rv3422c
Rv1148c	pp	PE34
Rv1894c	pp	Rv2618
Rv1894c	pp	Rv2052c
Rv1738	pp	rnc
Rv1738	pp	Rv2683
Rv1738	pp	Rv2851c
acyP	pp	esxD
acyP	pp	Rv3243c
Rv0247c	pp	rip
Rv0247c	pp	Rv2640c
fadE25	pp	asd
Rv2296	pp	lppQ
Rv2296	pp	Rv2554c
Rv2410c	pp	fadE30
ahpC	pp	Rv3753c
Rv0044c	pp	dapB
Rv0044c	pp	whiB7
Rv0044c	pp	purE
Rv0044c	pp	Rv3529c
Rv0044c	pp	Rv0894
Rv0044c	pp	Rv1104
Rv0044c	pp	Rv2323c
Rv2172c	pp	dapB
Rv2172c	pp	Rv3085
acg	pp	Rv2767c
cmaA2	pp	Rv2437
cmaA2	pp	clpP1
cmaA2	pp	Rv2468c
cmaA2	pp	Rv3216
cmaA2	pp	Rv3243c
msrA	pp	esxQ
fadE23	pp	Rv3180c
rpmG2	pp	Rv0679c
rpmG2	pp	Rv1919c
rpmG2	pp	PE29
rpmG2	pp	Rv1321
rpmG2	pp	Rv1444c
hsaC	pp	Rv3770B
end	pp	whiB3
end	pp	Rv2525c
end	pp	Rv2475c
end	pp	PE_PGRS39
Rv2182c	pp	Rv3134c
Rv2083	pp	Rv2979c
Rv2083	pp	Rv2825c
Rv2083	pp	Rv3583c
Rv2409c	pp	ppa
Rv2409c	pp	spoU
Rv2409c	pp	dapB
mec	pp	hisB
mec	pp	argC
mec	pp	Rv3322c
mec	pp	whiB1
Rv1944c	pp	Rv2581c
Rv0791c	pp	fadE23
Rv2581c	pp	Rv3600c

Rv2581c	pp	Rv3172c
Rv2581c	pp	Rv2650c
Rv2581c	pp	hupB
Rv2581c	pp	cysG
Rv2581c	pp	hsdM
hadB	pp	ubiA
hadB	pp	Rv3541c
hadB	pp	kdpD
hadB	pp	hisI
hadB	pp	lgt
hadB	pp	Rv1728c
hadB	pp	ureB
hadB	pp	mbtI
hadB	pp	eis
hadB	pp	leuB
hadB	pp	lpqU
rplF	pp	plcD
rpsR1	pp	Rv3092c
rpsR1	pp	vapC42
rpsR1	pp	PPE64
rpsR1	pp	Rv3231c
rpsR1	pp	PE_PGRS62
rpsR1	pp	Rv1044
rpsR1	pp	fum
rpsR1	pp	nadD
rplE	pp	Rv2136c
rplE	pp	Rv2993c
rplE	pp	PE7
rplE	pp	Rv1455
udgB	pp	ligC
udgB	pp	Rv3474
udgB	pp	PPE37
udgB	pp	Rv1958c
udgB	pp	Rv1577c
dapB	pp	pknI
dapB	pp	mapB
dapB	pp	glnD
dapB	pp	ffh
dapB	pp	Rv2810c
dapB	pp	Rv3073c
dapB	pp	pknK
dapB	pp	agpS
dapB	pp	nuoJ
dapB	pp	Rv2944
dapB	pp	esxR
dapB	pp	PPE48
dapB	pp	Rv3046c
dapB	pp	Rv3224
dapB	pp	Rv3277
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dapB	pp	Rv3346c
dapB	pp	Rv3180c
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dapB	pp	Rv3209
dapB	pp	TB7.3
dapB	pp	PE_PGRS57
dapB	pp	Rv3559c
dapB	pp	PE31
dapB	pp	PPE60
dapB	pp	ppa
dapB	pp	Rv3660c
dapB	pp	Rv3572
dapB	pp	ispF
dapB	pp	Rv3387
dapB	pp	Rv3400
dapB	pp	Rv3352c
dapB	pp	amiD
dapB	pp	Rv3434c
dapB	pp	Rv3475
dapB	pp	Rv3421c
dapB	pp	Rv3422c
dapB	pp	esxE
dapB	pp	embC
dapB	pp	Rv3788
dapB	pp	PE34
dapB	pp	Rv3669
dapB	pp	eccCa1
dapB	pp	espR
dapB	pp	papA1
dapB	pp	Rv3818
serA1	pp	wbbL1

Rv1245c	pp	Rv2309A
Rv1245c	pp	Rv2449c
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Rv1245c	pp	Rv3143
Rv1245c	pp	Rv3209
Rv1245c	pp	Rv3243c
Rv1245c	pp	Rv3736
Rv1245c	pp	tpx
Rv1245c	pp	aspS
topA	pp	Rv3741c
topA	pp	PPE67
aspS	pp	Rv2857c
aspS	pp	Rv3836
Rv0953c	pp	Rv3599c
Rv0953c	pp	Rv2998A
Rv0953c	pp	Rv2910c
Rv0953c	pp	Rv1081c
Rv0953c	pp	tlyA
Rv0953c	pp	gabT
Rv0953c	pp	cmaA1
Rv0088	pp	Rv1882c
Rv0088	pp	Rv3717
nadC	pp	Rv3552
nadC	pp	Rv3718c
nadC	pp	Rv3047c
nadC	pp	Rv3134c
nadC	pp	Rv2260
nadC	pp	ahpD
nadC	pp	fabG3
nadC	pp	Rv1870c
aroF	pp	Rv2554c
aroF	pp	vapB19
aroF	pp	vapB21
aroF	pp	Rv2621c
aroF	pp	hsaE
aroF	pp	ispD
aroF	pp	serB2
aroF	pp	whiB3
aroF	pp	Rv3672c
aroF	pp	Rv3844
tesA	pp	eccCb1
wag31	pp	Rv2560
wag31	pp	Rv2665
wag31	pp	Rv3485c
wag31	pp	Rv3741c
wag31	pp	Rv3134c
wag31	pp	whiB3
nusB	pp	Rv3815c
nusB	pp	Rv3840
accD2	pp	Rv1868
Rv2285	pp	Rv2407
Rv2285	pp	Rv2633c
Rv2285	pp	Rv2644c
Rv2285	pp	Rv2798c
Rv2285	pp	truA
pstS2	pp	espC
pstS2	pp	Rv3528c
pstS2	pp	Rv3353c
pstS2	pp	Rv3067
pstS2	pp	cfp6
pstS2	pp	Rv2991
pstS2	pp	Rv2817c
pstS2	pp	recO
pstS2	pp	Rv2307D
pstS2	pp	Rv2295
pstS2	pp	Rv2280
pstS2	pp	Rv1517
pstS2	pp	mbtK
pstS2	pp	Rv1273c
pstS2	pp	vapB33
pstS2	pp	Rv1209
pstS2	pp	Rv1155
pstS2	pp	celA2b
tuf	pp	Rv3840
argF	pp	PPE38
argF	pp	Rv2189c
gltA2	pp	Rv3850
Rv1864c	pp	Rv2022c
Rv0493c	pp	mapB
Rv0493c	pp	sigB
Rv0493c	pp	mazF8

Rv0493c	pp	Rv3422c
Rv0493c	pp	Rv2669
Rv0493c	pp	Rv3510c
Rv0493c	pp	Rv3813c
Rv3600c	pp	Rv3745c
Rv3600c	pp	Rv3680
Rv3600c	pp	esxD
Rv3600c	pp	esxB
Rv3600c	pp	gltD
Rv1324	pp	Rv2308
groEL2	pp	Rv2960c
groEL2	pp	Rv1188
groEL2	pp	PE9
groEL2	pp	mapA
groEL2	pp	Rv3272
ald	pp	acyP
ald	pp	Rv2867c
ald	pp	Rv3686c
ald	pp	esxR
rpsA	pp	Rv2307B
rplO	pp	Rv3422c
rplO	pp	cmr
rplO	pp	oppD
rplO	pp	ligA
rplO	pp	mscR
rplO	pp	Rv3137
rplO	pp	serB2
umaA	pp	uvrD1
umaA	pp	Rv1638A
umaA	pp	Rv0893c
umaA	pp	Rv2510c
umaA	pp	Rv2851c
umaA	pp	lppG
umaA	pp	kasB
umaA	pp	vapC48
Rv3311	pp	fdxB
sigH	pp	Rv3282
trpC	pp	parB
trpC	pp	Rv3740c
trpC	pp	Rv2269c
trpC	pp	whiB7
trpC	pp	rbfA
trpC	pp	Rv2481c
trpC	pp	mbtH
rpsS	pp	PPE22
rpsS	pp	Rv2250A
rpsS	pp	uspC
rpsS	pp	Rv2658c
rpsS	pp	Rv1155
rpsS	pp	trxC
rpsS	pp	nuoI
rpsS	pp	Rv2730
rpsS	pp	Rv3226c
rpsS	pp	gpm2
pknG	pp	Rv2809
pknG	pp	whiB7
Rv1770	pp	Rv2085
Rv2405	pp	dapB
Rv2405	pp	vapB19
Rv2405	pp	ribD
Rv2405	pp	Rv3785
Rv1443c	pp	Rv2774c
Rv1443c	pp	Rv2561
Rv1443c	pp	Rv3213c
Rv1443c	pp	Rv2775
Rv1443c	pp	Rv2219A
Rv1443c	pp	lppO
Rv1443c	pp	vapB18
Rv0250c	pp	fabD2
Rv0250c	pp	ptkA
echA8	pp	proW
echA8	pp	Rv3847
moeA1	pp	pepB
eno	pp	Rv1532c
fadE2	pp	Rv0488
fadE2	pp	hadC
fadE2	pp	Rv0216
fadE2	pp	deoC
fadE2	pp	gcvT
fadE2	pp	Rv3662c
fadE2	pp	fucA

fadE2	pp	Rv1574
fadE2	pp	Rv3719
Rv2765	pp	Rv2821c
Rv2765	pp	Rv3520c
Rv2765	pp	Rv3718c
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Rv2765	pp	amiA1
Rv2765	pp	esxA
mmaA2	pp	Rv0909
mmaA2	pp	Rv3271c
glyS	pp	Rv3387
glyS	pp	apt
glyS	pp	Rv2390c
Rv2159c	pp	Rv2250A
metK	pp	vapC48
metK	pp	Rv2825c
metK	pp	lppI
metK	pp	Rv1567c
Rv0315	pp	Rv3600c
Rv0315	pp	Rv3231c
Rv0315	pp	Rv1374c
Rv0315	pp	Rv0345
Rv2927c	pp	Rv3412
echA1	pp	hisB
echA1	pp	Rv1257c
echA1	pp	Rv0979c
inhA	pp	Rv1941
inhA	pp	Rv2292c
inhA	pp	Rv3129
inhA	pp	Rv3278c
inhA	pp	PPE55
inhA	pp	Rv3583c
inhA	pp	esxV
inhA	pp	Rv3745c
inhA	pp	espG2
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Rv2074	pp	whiB3
Rv2074	pp	rnpA
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Rv2074	pp	Rv3548c
Rv2074	pp	Rv3912
trpG	pp	Rv1321
trpG	pp	dapB
trpG	pp	whiB7
trpG	pp	echA19
trpG	pp	espG2
trpG	pp	parB
hemD	pp	Rv2203
prcA	pp	Rv2136c
prcA	pp	Rv2191
prcA	pp	murX
prcA	pp	ligC
prcA	pp	Rv3780
prcA	pp	dctA
prcA	pp	secF
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fadE12	pp	Rv2669
eccC5	pp	Rv1975
Rv0466	pp	PE15
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Rv0466	pp	Rv2475c
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echA7	pp	Rv1358
echA7	pp	adhA
echA7	pp	Rv2401A
echA7	pp	Rv3224B
echA7	pp	arsB2
echA7	pp	Rv3821
echA7	pp	Rv1290A
ribH	pp	ureB
ribH	pp	Rv2717c
aceE	pp	Rv3143
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Rv2993c	pp	mrsA
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accD1	pp	Rv2636
dapA	pp	Rv3387
dapA	pp	wbbL1
atpD	pp	Rv3583c
accA3	pp	Rv3583c
tpx	pp	Rv3915
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Rv1276c	pp	argC
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Rv1276c	pp	Rv2680
Rv1276c	pp	Rv3253c
Rv1276c	pp	Rv3699
Rv1276c	pp	Rv2464c
aroB	pp	PPE69
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Rv3131	pp	Rv3521
Rv3131	pp	esxE
Rv1627c	pp	vapC38
dlaT	pp	snoP
dlaT	pp	viuB
dlaT	pp	Rv3235
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Rv1155	pp	hemY
Rv1155	pp	pfkB
Rv1155	pp	dapB
Rv1155	pp	hflX
Rv1155	pp	Rv1597
Rv1155	pp	Rv2966c
Rv1155	pp	Rv3182
rplN	pp	Rv1870c
rplN	pp	Rv2717c
rplN	pp	usfY
murA	pp	Rv2475c
murA	pp	Rv2844
murA	pp	dapB
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Rv2569c	pp	Rv2695
Rv2569c	pp	glpQ1
aroG	pp	cobO
aroG	pp	echA19
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aroG	pp	Rv3707c
aroG	pp	Rv2189c
aroG	pp	Rv2258c
rpmD	pp	fecB
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glnA1	pp	Rv2880c
glnA1	pp	Rv2598
ceoB	pp	esxB
ceoB	pp	Rv3916c
ceoB	pp	ceoC
ceoB	pp	pmmB
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Rv0272c	pp	Rv2033c
Rv0272c	pp	hsdS.1
Rv0272c	pp	PE22
Rv0272c	pp	mce2R
fadE15	pp	dapB
fadE15	pp	Rv2669
serC	pp	sdhB
serC	pp	Rv3210c
serC	pp	dapB
serC	pp	Rv1413
serC	pp	Rv1060
rmlA	pp	Rv0804
rmlA	pp	rplM
rmlA	pp	hsdS

kasA	pp	kasB
kasA	pp	dapB
kasA	pp	pknK
kasA	pp	Rv3126c
gabD1	pp	espG2
gabD1	pp	wbbL1
gabD1	pp	Rv1638A
gabD1	pp	trpA
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gabD1	pp	glpQ2
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gabD1	pp	moeX
gabD1	pp	Rv0295c
rplK	pp	Rv2003c
rplK	pp	lppQ
rplK	pp	Rv2993c
rplK	pp	whiB3
rplK	pp	rplJ
rplK	pp	ptrBa
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Rv3224	pp	Rv3520c
Rv3224	pp	echA20
Rv2477c	pp	fadE23
Rv2206	pp	esxO
Rv2206	pp	PE_PGRS41
gyrB	pp	Rv1455
gyrB	pp	Rv2323c
gyrB	pp	Rv2645
gyrB	pp	Rv1580c
gyrB	pp	Rv1975
gyrB	pp	Rv2654c
acpM	pp	Rv2560
metC	pp	cut3
metC	pp	glpQ1
phoY2	pp	Rv1105
phoY2	pp	Rv3422c
phoY2	pp	PPE38
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Rv3075c	pp	Rv3241c
metZ	pp	dapB
metZ	pp	Rv2636
metZ	pp	PE10
metZ	pp	Rv3528c
rpiB	pp	Rv3686c
rpiB	pp	Rv3745c
rpiB	pp	Rv2806
rpiB	pp	Rv3672c
rpiB	pp	dapB
Rv1978	pp	Rv3654c
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Rv1978	pp	Rv2970A
Rv1978	pp	ppk1
fadB2	pp	ceoB
glpX	pp	drrC
glpX	pp	Rv1321
glpX	pp	Rv3528c
garA	pp	Rv2269c
garA	pp	Rv2478c
garA	pp	Rv2016
pgi	pp	uvrD1
glyA1	pp	pks12
ilvD	pp	ndkA
ilvD	pp	prcA
rplI	pp	Rv2705c
rplI	pp	rpsT
rplI	pp	mhuD
rplI	pp	rpsB
rplI	pp	Rv0919
rplI	pp	Rv0837c
rplI	pp	mgtC
rplI	pp	priA
rplI	pp	cfp29
rplI	pp	PPE12
fas	pp	Rv2577
fas	pp	PPE48
Rv3520c	pp	PE33
Rv3520c	pp	echA21

vapC17	pp	Rv2969c
tal	pp	lipB
tal	pp	sigB
tal	pp	Rv2665
tal	pp	Rv3422c
fadD24	pp	Rv2240c
fadD24	pp	Rv3180c
Rv2061c	pp	Rv3422c
aroA	pp	Rv3669
aroA	pp	accD5
aroA	pp	wbbL1
rpsG	pp	Rv2125
rpsG	pp	Rv0744c
rpsG	pp	rpsB
rpsG	pp	lppQ
cmaA1	pp	Rv3780
cmaA1	pp	esxU
nuoF	pp	parA
entC	pp	rsbW
pyrB	pp	ceoB
pyrB	pp	Rv2669
pyrB	pp	Rv3131
glmS	pp	Rv3827c
Rv1855c	pp	whiB7
Rv1855c	pp	Rv2091c
lytB2	pp	mazE4
lytB2	pp	gltS
Rv1232c	pp	Rv2728c
Rv1232c	pp	Rv2019
Rv1232c	pp	Rv3488
Rv1232c	pp	Rv3000
fadE19	pp	gatA
fadE19	pp	Rv3126c
fadB	pp	Rv0997
fadB	pp	Rv1951c
fadB	pp	Rv2078
ilvE	pp	TB7.3
ilvE	pp	mpt83
ilvE	pp	Rv2696c
ilvE	pp	ahpD
ilvE	pp	ilvE
Rv2953	pp	lat
echA19	pp	Rv3771c
echA19	pp	hsaC
echA19	pp	Rv3732
Rv0738	pp	Rv2033c
Rv0738	pp	Rv2696c
Rv0738	pp	Rv3467
Rv0738	pp	mazF4
Rv0738	pp	recO
Rv0738	pp	cysH
Rv0738	pp	ahpD
Rv0738	pp	mesJ
TB27.3	pp	ligC
TB27.3	pp	PPE65
TB27.3	pp	Rv1924c
TB27.3	pp	Rv2446c
TB27.3	pp	folC
TB27.3	pp	rpfE
TB27.3	pp	Rv2459
TB27.3	pp	Rv2507
TB27.3	pp	Rv2509
TB27.3	pp	espD
TB27.3	pp	Rv0625c
TB27.3	pp	Rv0921
TB27.3	pp	Rv1050
TB27.3	pp	celA2a
TB27.3	pp	nadC
TB27.3	pp	cmk
fadE6	pp	secE2
hupB	pp	Rv3920c
hupB	pp	Rv3732
hupB	pp	Rv3213c
hupB	pp	entC
hupB	pp	Rv3353c
hupB	pp	PE_PGRS60
gap	pp	fadE17
gap	pp	Rv1829
gap	pp	devB
gap	pp	rpsO
gap	pp	Rv2475c

gap	pp	lppI
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Rv0221	pp	sseA
Rv0221	pp	vapC40
Rv0221	pp	ogt
Rv0221	pp	Rv0263c
Rv0221	pp	Rv2307B
Rv0221	pp	Rv3085
Rv0221	pp	Rv3583c
desA1	pp	Rv3134c
desA1	pp	argC
desA1	pp	Rv1532c
Rv0785	pp	Rv1044
Rv0785	pp	Rv1634
Rv0785	pp	esxV
Rv0785	pp	cut3