

**Supplementary Information 2. Somatic mutations identified from Patients 1-10**

<b>Patient ID</b>	<b>Hugo Symbol</b>	<b>Transcript ID</b>	<b>Variant Classification</b>	<b>Variant Type</b>	<b>NCBI Build</b>
1	CASP5	uc010ruz.1	Frame_Shift_Del	DEL	37
1	MED12L	uc003eyp.3	In_Frame_Del	DEL	37
1	PTPN21	uc001xwv.4	In_Frame_Del	DEL	37
1	INSRR	uc010pht.2	In_Frame_Ins	INS	37
1	TRAPPC12	uc002qxm.1	Splice_Site	SNP	37
1	TMEM132B	uc001uhe.1	Silent	SNP	37
1	NDRG3	uc002xfw.3	Missense_Mutation	SNP	37
1	DNAH7	uc002utj.4	Nonsense_Mutation	SNP	37
1	ALB	uc003hgs.4	Missense_Mutation	SNP	37
1	UNC79	uc001ybv.1	Silent	SNP	37
1	BRD8	uc003lcf.1	Missense_Mutation	SNP	37
1	OR6V1	uc011ksv.2	Silent	SNP	37
1	MUC17	uc003uxp.1	Silent	SNP	37
1	FAM9C	uc004cvh.2	Splice_Site	SNP	37
1	PRTG	uc002adg.3	Missense_Mutation	SNP	37
1	PRICKLE1	uc010skv.2	Missense_Mutation	SNP	37
1	GSS	uc002xbg.3	Missense_Mutation	SNP	37
1	ZNF248	uc001izd.1	Silent	SNP	37
1	KCNK13	uc001xye.1	Silent	SNP	37
1	KIF21B	uc001gvs.2	Silent	SNP	37
1	TMEM26	uc001jlo.2	5'UTR	SNP	37
1	FMO1	uc009wvz.3	Nonsense_Mutation	SNP	37
1	ZMYM5	uc010tcn.1	Missense_Mutation	SNP	37
1	MUC17	uc003uxp.1	Missense_Mutation	SNP	37
1	SNCAIP	uc003ksx.1	Missense_Mutation	SNP	37
1	AK124970	uc001hog.1	Non-coding_Transcript	SNP	37
1	abParts	uc021ser.1	Non-coding_Transcript	SNP	37
1	ATP2A1	uc002dro.1	Missense_Mutation	SNP	37
1	JAG2	uc001yqg.3	Silent	SNP	37
1	ANKRD20A9P	uc010tcj.1	Non-coding_Transcript	SNP	37
1	EDEM2	uc010zuv.1	5'UTR	SNP	37
1	INSL6	uc003zix.3	Missense_Mutation	SNP	37
1	PDCD6IP	uc003cfy.3	Missense_Mutation	SNP	37
1	TMEM214	uc002ria.4	Missense_Mutation	SNP	37
1	TRBV29-1	uc011ksl.1	Silent	SNP	37
1	C15orf48	uc001zvg.3	Nonsense_Mutation	SNP	37
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1	PYGM	uc001oax.4	Missense_Mutation	SNP	37
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1	KIAA1033	uc010swr.2	Silent	SNP	37

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1	SLC26A3	uc003ver.2	Missense_Mutation	SNP	37
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1	CPNE6	uc010tnv.2	Missense_Mutation	SNP	37
1	IGF2BP1	uc002iom.3	Missense_Mutation	SNP	37
1	BCLAF1	uc003qgx.1	Missense_Mutation	SNP	37
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1	ALMS1	uc002sje.1	Missense_Mutation	SNP	37
1	OR911	uc001nml.1	Silent	SNP	37
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1	KAT6B	uc001jwn.1	Silent	SNP	37
1	CCT8L2	uc002zlp.1	Silent	SNP	37
1	CROCCP2	uc001azg.1	Intron	SNP	37
1	SYNE1	uc003qox.1	3'UTR	SNP	37
1	CSMD3	uc003ynu.3	Missense_Mutation	SNP	37
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1	KIAA1653	uc002zrw.1	Non-coding_Transcript	SNP	37
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1	TRIM10	uc003npo.3	Missense_Mutation	SNP	37
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1	NAT16	uc003uxy.2	Missense_Mutation	SNP	37
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1	OR5H6	uc003dsi.1	Silent	SNP	37
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1	PCDHGC5	uc003lju.2	Silent	SNP	37
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1	ABCC4	uc001vmd.4	Missense_Mutation	SNP	37
1	OR4C15	uc010rig.2	Missense_Mutation	SNP	37
1	FANCM	uc001wwd.4	Missense_Mutation	SNP	37
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2	MAP4K4	uc002tbc.3	Frame_Shift_Del	DEL	37
2	RIF1	uc002txm.3	Frame_Shift_Del	DEL	37
2	CCDC80	uc003dzf.3	Frame_Shift_Del	DEL	37
2	ATP13A4	uc003ftd.3	Frame_Shift_Del	DEL	37
2	GRINA	uc003zan.1	Frame_Shift_Del	DEL	37
2	BTAF1	uc001khr.3	Frame_Shift_Del	DEL	37
2	NF1	uc002hgg.3	Frame_Shift_Del	DEL	37
2	CDK5R1	uc002hhn.3	Frame_Shift_Del	DEL	37
2	LUC7L3	uc002isq.3	Frame_Shift_Del	DEL	37
2	ILF3	uc002mpo.3	Frame_Shift_Del	DEL	37
2	ZNF473	uc002prn.3	Frame_Shift_Del	DEL	37
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2	SYT1	uc001sys.3	Missense_Mutation	SNP	37
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2	CDHR5	uc001lqj.3	Missense_Mutation	SNP	37
2	GPAM	uc009xyx.2	Missense_Mutation	SNP	37
2	TAS2R9	uc001qyx.3	Missense_Mutation	SNP	37
2	SLC35E1	uc010xph.2	3'UTR	SNP	37
2	EMR1	uc002mfw.3	3'UTR	SNP	37
2	KLHL14	uc002kxm.1	Missense_Mutation	SNP	37
2	KIAA0947	uc003jdm.4	Missense_Mutation	SNP	37
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2	OR5D18	uc010rin.2	Missense_Mutation	SNP	37
2	ZIM3	uc002qnz.1	Missense_Mutation	SNP	37
2	ZBTB7C	uc010dvn.3	Missense_Mutation	SNP	37
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2	PDZD2	uc003jhl.3	Missense_Mutation	SNP	37
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2	PSG7	uc002ovl.4	Missense_Mutation	SNP	37
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2	FAM13B	uc003lbz.2	Silent	SNP	37
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2	CASC5	uc010bbs.1	Missense_Mutation	SNP	37
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2	CYB5R2	uc001mfm.3	Missense_Mutation	SNP	37
2	MBD4	uc003emh.1	Missense_Mutation	SNP	37
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2	ANK3	uc001jky.3	Missense_Mutation	SNP	37
2	KRTAP5-4	uc009ycy.1	Silent	SNP	37
2	COQ5	uc001tyn.3	Silent	SNP	37
2	FBXO40	uc003eeg.2	Silent	SNP	37
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2	LRP1B	uc002tvj.1	Silent	SNP	37
2	SH3GL3	uc002bjv.3	Silent	SNP	37
2	PCDHB8	uc011dai.2	Silent	SNP	37
2	CWH43	uc003gyv.3	Missense_Mutation	SNP	37
2	FRG1B	uc010ztl.1	Missense_Mutation	SNP	37
2	ARID1A	uc001bmv.1	Nonsense_Mutation	SNP	37
2	NUP210	uc003bxv.1	Missense_Mutation	SNP	37
2	KIAA2022	uc004eby.3	Missense_Mutation	SNP	37
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2	TRAPPC8	uc002kxc.4	Missense_Mutation	SNP	37
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2	MNDA	uc001fsz.1	Missense_Mutation	SNP	37
2	TTN	uc021vsy.1	Missense_Mutation	SNP	37
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2	TENC1	uc001sbn.3	Silent	SNP	37
2	RASGRP3	uc002rox.3	Silent	SNP	37
2	LILRB3	uc002qfd.3	3'UTR	SNP	37
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2	CHD1	uc003knf.3	Missense_Mutation	SNP	37
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2	MLLT6	uc002hqi.4	Silent	SNP	37
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2	TP53	uc002gim.2	Missense_Mutation	SNP	37
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2	MPL	uc001ciw.3	5'UTR	SNP	37
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2	NSUN7	uc003gvj.4	Missense_Mutation	SNP	37
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2	FBXL7	uc003jfn.1	Silent	SNP	37
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2	KIF4A	uc004dyg.3	Missense_Mutation	SNP	37
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2	CACNB1	uc002hrm.2	Missense_Mutation	SNP	37
2	THSD7B	uc002tva.1	Missense_Mutation	SNP	37
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2	SF1	uc001oaz.2	Missense_Mutation	SNP	37
2	DNAJC8	uc001bpn.3	5'UTR	SNP	37
2	NLRP14	uc001mfb.1	Missense_Mutation	SNP	37
2	CPN2	uc003fts.3	Missense_Mutation	SNP	37
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2	ALG6	uc021oof.1	Silent	SNP	37
2	CHRNA3	uc002bec.3	Silent	SNP	37
2	CD86	uc003eet.3	Silent	SNP	37

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2	GSK3B	uc003edn.3	5'UTR	SNP	37
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2	DPYSL5	uc002rhu.4	Missense_Mutation	SNP	37
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2	MPP4	uc002uyk.4	Splice_Site	SNP	37
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2	CDCA5	uc001ocp.2	Silent	SNP	37
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2	SLC22A17	uc001wjl.3	Silent	SNP	37
2	ZC3H12A	uc001cbb.4	Silent	SNP	37
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2	CD163	uc001qs.3	Missense_Mutation	SNP	37
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2	FAM108A1	uc002lue.3	3'UTR	SNP	37
2	FPR2	uc002pxr.3	Missense_Mutation	SNP	37
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2	GLDN	uc002aba.3	Missense_Mutation	SNP	37
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2	SPTBN5	uc001zos.3	Missense_Mutation	SNP	37
2	ZKSCAN2	uc002dod.4	Nonsense_Mutation	SNP	37
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2	OR9A2	uc003wcc.1	Missense_Mutation	SNP	37
2	COL24A1	uc001dlj.3	Missense_Mutation	SNP	37
2	RASSF1	uc003daa.1	Splice_Site	SNP	37
2	MAGEC3	uc011mwp.2	Missense_Mutation	SNP	37
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2	IFIT2	uc009xts.3	Missense_Mutation	SNP	37
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2	XPR1	uc001goi.3	Missense_Mutation	SNP	37
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2	NYAP2	uc002voe.2	Missense_Mutation	SNP	37
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2	C1S	uc001qsj.3	Missense_Mutation	SNP	37
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2	TAB2	uc003qmj.3	Missense_Mutation	SNP	37
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2	TRIM38	uc003nfm.3	Silent	SNP	37
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2	C12orf44	uc001rzu.4	3'UTR	SNP	37
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2	DEFB118	uc002wvr.3	Silent	SNP	37
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2	PDE3B	uc001mln.3	Missense_Mutation	SNP	37
2	C3	uc002mfm.3	Missense_Mutation	SNP	37
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2	PDE1B	uc001sgd.2	Silent	SNP	37
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2	HIVEP3	uc001cgz.4	Missense_Mutation	SNP	37
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2	SPAG17	uc001ehk.2	Nonsense_Mutation	SNP	37
2	COQ7	uc002dfr.3	Nonsense_Mutation	SNP	37
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2	VWC2L	uc002vet.2	Missense_Mutation	SNP	37
2	TGM3	uc002wfx.4	Missense_Mutation	SNP	37
2	OR51G1	uc010qyr.2	Missense_Mutation	SNP	37
2	SEC16A	uc004chx.3	Missense_Mutation	SNP	37
2	ZNF444	uc002qmm.3	5'UTR	SNP	37
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3	HSP90AB1	uc003oxa.1	3'UTR	SNP	37
3	CELSR2	uc001dxa.4	Missense_Mutation	SNP	37
3	SLC22A24	uc021qkp.1	Nonsense_Mutation	SNP	37
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3	GGT5	uc002zzp.4	Silent	SNP	37
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3	CDK14	uc003uky.2	Missense_Mutation	SNP	37
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3	CLCN4	uc004csy.4	Silent	SNP	37
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3	RNF220	uc001clv.1	Missense_Mutation	SNP	37
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3	RPH3A	uc010syl.2	Missense_Mutation	SNP	37
3	NOS2	uc002gzu.3	Missense_Mutation	SNP	37
3	NDUFV1	uc001omj.2	Missense_Mutation	SNP	37
3	NEIL3	uc003iut.2	Nonsense_Mutation	SNP	37
3	STON2	uc001xvk.1	Missense_Mutation	SNP	37

3	ALKBH6	uc010eep.1	3'UTR	SNP	37
3	KCNE1L	uc004eoh.3	Missense_Mutation	SNP	37
3	URB2	uc001hts.1	Missense_Mutation	SNP	37
3	DDI2	uc001awx.2	Missense_Mutation	SNP	37
3	SLCO1A2	uc001res.3	Missense_Mutation	SNP	37
3	NBPF7	uc010oxk.2	Silent	SNP	37
3	OR5D14	uc010rim.2	Missense_Mutation	SNP	37
3	SLC5A8	uc001thz.4	Missense_Mutation	SNP	37
3	PCDHB6	uc003lir.3	Missense_Mutation	SNP	37
3	POLR2G	uc001nva.3	Silent	SNP	37
3	KLK8	uc002puq.1	Missense_Mutation	SNP	37
3	MMP13	uc001phl.3	Missense_Mutation	SNP	37
3	CNR1	uc010kbz.3	Missense_Mutation	SNP	37
3	OR5H14	uc003dsg.1	Missense_Mutation	SNP	37
3	SCN10A	uc003ciq.3	Missense_Mutation	SNP	37
3	ZFP41	uc003yxw.3	Missense_Mutation	SNP	37
3	USP8	uc001zym.4	Silent	SNP	37
3	NRXN1	uc021vhg.1	Silent	SNP	37
3	IL29	uc002okv.3	Missense_Mutation	SNP	37
3	FBN3	uc002mjf.3	Silent	SNP	37
3	CDH18	uc003jgd.3	Missense_Mutation	SNP	37
3	ZNRF4	uc002mca.4	Silent	SNP	37
3	DNAH7	uc002utj.4	Silent	SNP	37
3	GSDMA	uc002htl.1	Missense_Mutation	SNP	37
3	FBXO38	uc003lpf.1	Missense_Mutation	SNP	37
3	DTX3L	uc003efk.3	Missense_Mutation	SNP	37
3	DIAPH1	uc003llb.4	Missense_Mutation	SNP	37
3	SEMA6D	uc010bek.3	Silent	SNP	37
3	SPTBN5	uc001zos.3	Missense_Mutation	SNP	37
3	SYT3	uc002pst.3	Missense_Mutation	SNP	37
3	BSN	uc003cxe.4	Missense_Mutation	SNP	37
3	PKHD1L1	uc003yne.3	Missense_Mutation	SNP	37
3	ASPSCR1	uc002kcy.3	Missense_Mutation	SNP	37
3	ANKFN1	uc002iun.1	Missense_Mutation	SNP	37
3	OR52H1	uc010qzh.2	Missense_Mutation	SNP	37
3	IDO1	uc003xnm.3	Missense_Mutation	SNP	37
3	ZSWIM4	uc002mxh.1	Missense_Mutation	SNP	37
3	GRIK3	uc001cba.1	3'UTR	SNP	37
3	C1orf173	uc001dgg.3	Missense_Mutation	SNP	37
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3	FOXJ2	uc001qtu.3	3'UTR	SNP	37
3	ZNF234	uc002oym.3	Missense_Mutation	SNP	37
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3	CD84	uc001fwh.4	Silent	SNP	37
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3	PCDH15	uc010qhy.1	Missense_Mutation	SNP	37
3	SCN9A	uc010fpl.3	Missense_Mutation	SNP	37
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3	ZNF773	uc002qox.3	Silent	SNP	37
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3	SNORD115-15	uc001yzq.1	Intron	SNP	37
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3	PPP4R2	uc003dph.1	Missense_Mutation	SNP	37
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3	LAMP3	uc003flh.4	Splice_Site	SNP	37
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3	MKL1	uc003ayw.1	Silent	SNP	37
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3	CALM2	uc002rvt.2	5'UTR	SNP	37
3	SLC17A4	uc003nfe.3	Silent	SNP	37
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3	DNAH11	uc003svc.3	Missense_Mutation	SNP	37
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3	IGSF10	uc011bod.2	Missense_Mutation	SNP	37

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3	OR13C4	uc011lvn.2	Missense_Mutation	SNP	37
3	COPA	uc001fvv.4	5'UTR	SNP	37
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3	IQGAP3	uc001fpf.3	Silent	SNP	37
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3	PSMD8	uc002oii.4	5'UTR	SNP	37
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3	CDH9	uc011cnv.1	5'UTR	SNP	37
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3	FOXP2	uc003vgz.3	Silent	SNP	37
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3	DNAH5	uc003jfd.2	Silent	SNP	37
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3	ADAM7	uc003xeb.3	Missense_Mutation	SNP	37
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3	TMEM110-MUSTN1	uc003dgd.3	3'UTR	SNP	37
3	GZMA	uc003jpm.3	Splice_Site	SNP	37
3	PCDHAC2	uc003lic.2	Missense_Mutation	SNP	37
3	PRSS37	uc003vws.2	Silent	SNP	37
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3	GLRA2	uc010neq.3	3'UTR	SNP	37
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3	ZNF676	uc002nqs.1	Missense_Mutation	SNP	37
3	FSHR	uc002rww.3	Missense_Mutation	SNP	37
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3	STEAP1	uc003ujx.3	Missense_Mutation	SNP	37
3	NONO	uc004dzo.3	Nonsense_Mutation	SNP	37
3	DNAH8	uc021yzh.1	Missense_Mutation	SNP	37
3	DOCK9	uc021rlw.1	Silent	SNP	37
3	TOP3A	uc002gsw.1	5'UTR	SNP	37
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3	ARHGAP44	uc002gnr.4	Silent	SNP	37
3	TTN	uc021vsy.1	Missense_Mutation	SNP	37
3	TPSG1	uc002ckw.2	Missense_Mutation	SNP	37
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3	PMFBP1	uc002fcc.4	3'UTR	SNP	37
3	PAPSS1	uc003hyk.3	Missense_Mutation	SNP	37
3	RIBC1	uc004dsk.3	Missense_Mutation	SNP	37
3	SIGLEC17P	uc010ycv.2	Missense_Mutation	SNP	37

3	SPATA8	uc002bue.3	3'UTR	SNP	37
3	ATP8B4	uc001zxu.3	Missense_Mutation	SNP	37
3	GABRG2	uc010jic.3	Missense_Mutation	SNP	37
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3	HYDIN	uc010yii.1	Silent	SNP	37
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3	LPHN2	uc001dit.4	Missense_Mutation	SNP	37
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3	HAS1	uc002pxn.1	Missense_Mutation	SNP	37
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3	C15orf2	uc001ywo.3	3'UTR	SNP	37
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3	FPGT-TNNI3K	uc001dge.2	Missense_Mutation	SNP	37
3	DSCAM	uc002yyq.1	Silent	SNP	37
3	TRPC3	uc003ieg.2	Missense_Mutation	SNP	37
3	MYO16	uc010agk.2	Nonsense_Mutation	SNP	37
3	AMIGO2	uc001rpm.3	Missense_Mutation	SNP	37
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3	AP4E1	uc001zyx.2	3'UTR	SNP	37
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3	SPTA1	uc001fst.1	Silent	SNP	37
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3	PTPRC	uc001gur.1	Missense_Mutation	SNP	37
3	CAPN13	uc021vfn.1	Missense_Mutation	SNP	37
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3	KRT76	uc001sax.3	Silent	SNP	37
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3	ATP13A5	uc011bsq.2	Missense_Mutation	SNP	37
3	ANK3	uc001jky.3	Missense_Mutation	SNP	37
3	OR9Q2	uc010rka.2	Missense_Mutation	SNP	37
3	PRRC2C	uc010pmg.2	Missense_Mutation	SNP	37
3	XKR6	uc003wtk.1	Missense_Mutation	SNP	37
3	EGR3	uc003xcm.1	Missense_Mutation	SNP	37
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3	APLP2	uc010sby.2	Missense_Mutation	SNP	37
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3	SGSM1	uc003abg.2	Silent	SNP	37
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3	DLG3	uc004dyi.2	Missense_Mutation	SNP	37
3	GRIP2	uc021wtn.1	Missense_Mutation	SNP	37
3	PIP5K1A	uc001exj.3	Missense_Mutation	SNP	37
3	ZSCAN18	uc010yht.1	Intron	SNP	37
3	FBN1	uc001zwx.2	Missense_Mutation	SNP	37
3	ANKLE1	uc002nga.2	Missense_Mutation	SNP	37
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3	NOS1	uc001twn.2	Missense_Mutation	SNP	37
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3	AKAP9	uc003ulg.3	Missense_Mutation	SNP	37
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3	ARHGEF19	uc001ayc.1	Silent	SNP	37
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3	PRDM5	uc003idn.3	Missense_Mutation	SNP	37
3	ADAMTS7	uc002bej.4	Missense_Mutation	SNP	37
3	KLK2	uc010ycl.2	Missense_Mutation	SNP	37
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3	DCLK1	uc001uvf.3	Silent	SNP	37
3	RNF150	uc003iio.1	Missense_Mutation	SNP	37
3	IL6ST	uc003jqj.3	Silent	SNP	37
3	FAIM2	uc001rvj.2	Splice_Site	SNP	37
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3	CCDC88A	uc002ryv.2	Silent	SNP	37
3	MYT1L	uc002qxe.3	Missense_Mutation	SNP	37
3	HOXA7	uc003sys.3	3'UTR	SNP	37
3	PPP4C	uc002dwe.3	3'UTR	SNP	37
3	OR8G1	uc001pzx.3	3'UTR	SNP	37
3	LYZ	uc001suw.2	3'UTR	SNP	37
3	ZNF780B	uc002omu.3	Missense_Mutation	SNP	37
3	NWD1	uc002neu.4	3'UTR	SNP	37
3	ZBTB41	uc001gtx.1	Silent	SNP	37
3	CTAGE11P	uc010ths.2	3'UTR	SNP	37
3	DZANK1	uc010zsa.2	Silent	SNP	37
3	COL6A1	uc002zhu.1	3'UTR	SNP	37
3	ZNF516	uc021ulp.1	Silent	SNP	37
3	TBC1D14	uc011bwg.2	Missense_Mutation	SNP	37
3	VAT1L	uc002ffg.1	Missense_Mutation	SNP	37
3	SPZ1	uc003kgn.3	Missense_Mutation	SNP	37
3	IL3RA	uc004cps.3	Missense_Mutation	SNP	37
3	OR2L2	uc001idw.3	Missense_Mutation	SNP	37
3	AQPEP	uc003kro.3	Splice_Site	SNP	37
3	PCDH15	uc010qhy.1	Missense_Mutation	SNP	37
3	KRTAP5-5	uc001lty.3	Missense_Mutation	SNP	37
3	SYNE1	uc021zhb.1	Silent	SNP	37
3	FUT5	uc010duo.3	Silent	SNP	37
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3	OR4C6	uc010rik.2	Missense_Mutation	SNP	37
3	AKAP3	uc001qnb.4	Silent	SNP	37
3	ANKRD30A	uc021ppc.1	Missense_Mutation	SNP	37
3	MUC16	uc002mkp.3	Missense_Mutation	SNP	37
3	LECT2	uc003lbe.1	Intron	SNP	37
3	SCN5A	uc021wvo.1	Missense_Mutation	SNP	37
3	FANCD2	uc003buw.3	Missense_Mutation	SNP	37
3	KRT27	uc002hvg.3	5'UTR	SNP	37
3	PADI4	uc001baj.2	Silent	SNP	37
3	OR2G6	uc001ien.1	Missense_Mutation	SNP	37
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3	RNF183	uc004bgz.3	3'UTR	SNP	37
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3	FAM190A	uc003hsv.4	Intron	SNP	37
3	YEATS4	uc001sux.3	Missense_Mutation	SNP	37
3	XKR5	uc022aqv.1	Missense_Mutation	SNP	37
3	PRSS16	uc003nja.3	Missense_Mutation	SNP	37
3	ZNF713	uc003tra.2	Missense_Mutation	SNP	37
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3	KCNJ3	uc002tyv.1	5'UTR	SNP	37
3	MTMR8	uc004dvs.3	Intron	SNP	37
3	MAGEC2	uc004fbu.2	Silent	SNP	37
3	CASC1	uc001rgk.3	5'Flank	SNP	37
3	SH3BP4	uc002vvp.3	Silent	SNP	37
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3	TPM4	uc002ndi.2	Missense_Mutation	SNP	37
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3	CYP2C19	uc010qnz.2	Silent	SNP	37
3	ELOVL5	uc011dwx.2	Missense_Mutation	SNP	37
3	FCF1	uc001xqh.3	5'UTR	SNP	37
3	CYP4F2	uc002nbs.1	Silent	SNP	37
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3	DQ582462	uc021syy.1	5'Flank	SNP	37
3	ZNF681	uc002nrk.4	Silent	SNP	37
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3	BC068290	uc010vgb.2	Silent	SNP	37
3	TRPM8	uc002vvh.3	Silent	SNP	37
3	USP30	uc010sxi.2	Missense_Mutation	SNP	37
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3	TTN	uc021vsy.1	Silent	SNP	37
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3	DHX15	uc003gqx.3	Missense_Mutation	SNP	37
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3	PCDHGC5	uc003ljw.2	Missense_Mutation	SNP	37
3	ADAM21P1	uc010ttg.2	Missense_Mutation	SNP	37
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3	C9orf153	uc004aoo.3	Missense_Mutation	SNP	37
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3	ARGLU1	uc010age.1	3'UTR	SNP	37
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3	SLC15A1	uc001vno.3	Nonsense_Mutation	SNP	37
3	C1QTNF5	uc001pwj.2	5'UTR	SNP	37
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3	ZNF266	uc002mll.3	5'UTR	SNP	37
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3	HSP90AB1	uc003oxa.1	3'UTR	SNP	37
3	SORCS3	uc001kyi.1	Silent	SNP	37
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3	SLC22A17	uc001wjl.3	3'UTR	SNP	37
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3	FNIP2	uc003iqe.4	Missense_Mutation	SNP	37
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3	HOMEZ	uc001wjb.2	Nonsense_Mutation	SNP	37
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3	ZMIZ2	uc003tlr.3	Silent	SNP	37
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3	NCAPG2	uc011kwe.1	Nonsense_Mutation	SNP	37
3	PCDHAC2	uc003lic.2	Missense_Mutation	SNP	37
3	OR9G4	uc010rjo.2	Missense_Mutation	SNP	37
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3	LOC100131347	uc002hrf.1	3'UTR	SNP	37
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3	ADAP1	uc003sjo.4	Silent	SNP	37
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3	SLC6A12	uc001qhz.3	Missense_Mutation	SNP	37
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3	ZNF682	uc002noq.3	Silent	SNP	37
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3	THBS4	uc021yaw.1	Missense_Mutation	SNP	37
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3	GPATCH8	uc002igw.2	Missense_Mutation	SNP	37
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3	CAPN5	uc009yup.3	Silent	SNP	37
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3	FCRL3	uc001fqz.4	Missense_Mutation	SNP	37
3	TUBGCP2	uc010qvc.1	Splice_Site	SNP	37
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3	EFEMP1	uc002rzi.3	Missense_Mutation	SNP	37
3	BOD1L2	uc002lgm.3	Silent	SNP	37
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3	SLC2A4RG	uc002yfq.3	Silent	SNP	37
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3	MYH1	uc002gmo.3	Silent	SNP	37
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3	FAM155B	uc004dxk.3	Silent	SNP	37
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3	MUC16	uc002mkp.3	Missense_Mutation	SNP	37
3	ARFGEF1	uc003xxo.2	Missense_Mutation	SNP	37
3	SLC38A5	uc010nid.3	Splice_Site	SNP	37
3	OR4D1	uc010wno.2	Missense_Mutation	SNP	37
3	PCDHGC5	uc003lkt.2	Silent	SNP	37
3	PANK1	uc001kgp.2	Missense_Mutation	SNP	37
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3	KIAA1210	uc004era.4	Silent	SNP	37
3	QRICH2	uc002jrd.1	Missense_Mutation	SNP	37
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3	SPAG17	uc001ehk.2	Missense_Mutation	SNP	37
3	GRXCR1	uc003gwt.3	Missense_Mutation	SNP	37
3	RDH16	uc001smi.4	Missense_Mutation	SNP	37
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3	KLK3	uc021uyi.1	3'UTR	SNP	37
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3	PAXIP1	uc022aqg.1	Intron	SNP	37
3	N6AMT1	uc002ymo.1	Missense_Mutation	SNP	37
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3	ROBO1	uc003dqe.2	Splice_Site	SNP	37
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3	DQ582265	uc004cor.1	Splice_Site	SNP	37
3	MUC16	uc002mkp.3	Missense_Mutation	SNP	37
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3	ZMIZ2	uc003tlr.3	Missense_Mutation	SNP	37
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4	DHX40	uc002ixn.2	Frame_Shift_Del	DEL	37
4	SMARCA1	uc011muk.1	Frame_Shift_Del	DEL	37
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4	IMPG1	uc003pik.1	Splice_Site	SNP	37
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4	CDH5	uc002eom.4	Silent	SNP	37
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4	SCN2A	uc002udc.3	Missense_Mutation	SNP	37
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4	EXOC8	uc001huq.3	Nonsense_Mutation	SNP	37
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4	NTF3	uc001qnk.4	Missense_Mutation	SNP	37
4	FAM83H	uc003yzk.3	Missense_Mutation	SNP	37
4	SALL1	uc021tif.1	Missense_Mutation	SNP	37
4	SLC13A1	uc003vkm.3	3'UTR	SNP	37
4	MYH15	uc003dxa.1	Missense_Mutation	SNP	37
4	ZNF311	uc003nlu.2	Missense_Mutation	SNP	37
4	NXPH2	uc002tvi.3	Silent	SNP	37
4	CSDAP1	uc010vfr.1	Missense_Mutation	SNP	37
4	ANKRD5	uc002wno.3	Missense_Mutation	SNP	37
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4	DOCK3	uc011bds.2	Silent	SNP	37
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4	ZNF566	uc010xtf.2	Missense_Mutation	SNP	37
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4	PPFIA2	uc001szo.2	Silent	SNP	37
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4	SOGA3	uc003qbd.3	3'UTR	SNP	37
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4	RCC2	uc001bal.3	Missense_Mutation	SNP	37
4	PPARG	uc003bwx.3	Missense_Mutation	SNP	37

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4	LRFN2	uc003oph.1	Silent	SNP	37
4	TRIM58	uc001ido.3	Missense_Mutation	SNP	37
4	SFMBT1	uc003dgf.3	Missense_Mutation	SNP	37
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4	GALK2	uc001zsj.1	Missense_Mutation	SNP	37
4	WDR33	uc002tpg.2	Missense_Mutation	SNP	37
4	VN1R4	uc010ydu.2	Missense_Mutation	SNP	37
4	WNT7A	uc003bye.1	Missense_Mutation	SNP	37
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4	MDH1B	uc002vbs.3	Silent	SNP	37
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4	GHRHR	uc003tbx.3	Nonsense_Mutation	SNP	37
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4	SPATA22	uc002fvm.3	Missense_Mutation	SNP	37
4	HFM1	uc001doa.4	Missense_Mutation	SNP	37
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4	ZNF696	uc003yxy.4	Silent	SNP	37
4	CACNA1C	uc009zdu.1	Silent	SNP	37
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4	CISD2	uc003hwt.4	3'UTR	SNP	37
4	GABBR2	uc004ays.3	Missense_Mutation	SNP	37
4	RCC1	uc001bqf.2	Missense_Mutation	SNP	37
4	SYTL3	uc003qrp.3	Missense_Mutation	SNP	37
4	RGNEF	uc010izf.3	Missense_Mutation	SNP	37
4	C9orf135	uc004ahl.3	3'UTR	SNP	37
4	NLRP12	uc002qcj.4	Missense_Mutation	SNP	37
4	SLC30A8	uc003yoh.3	Missense_Mutation	SNP	37
4	MYOCD	uc002gno.2	Missense_Mutation	SNP	37
4	DPYD	uc001drv.3	Missense_Mutation	SNP	37
4	RILPL2	uc001uey.1	3'UTR	SNP	37

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4	HERC4	uc001jng.4	Missense_Mutation	SNP	37
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4	MRPL10	uc002ily.3	Missense_Mutation	SNP	37
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4	USP46	uc003gzn.3	Missense_Mutation	SNP	37
4	SORL1	uc001pxx.3	Silent	SNP	37
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4	SEPT14	uc003tqz.2	Splice_Site	SNP	37
4	ZNF185	uc011myg.2	Silent	SNP	37
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4	C2orf53	uc002rjb.2	Missense_Mutation	SNP	37
4	RNF157	uc002jqz.3	Missense_Mutation	SNP	37
4	RASAL1	uc001tun.2	Missense_Mutation	SNP	37
4	UNC13A	uc021uqk.1	Silent	SNP	37
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4	MOGAT1	uc010fws.1	Silent	SNP	37
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4	KRT2	uc001sat.3	Missense_Mutation	SNP	37
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4	CEACAM19	uc002ozo.4	Silent	SNP	37
4	LRRC37A11P	uc002hrd.1	Non-coding_Transcript	SNP	37
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4	PKHD1L1	uc003yne.3	Missense_Mutation	SNP	37
4	CDH12	uc010iuc.2	Missense_Mutation	SNP	37
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4	PCLO	uc003uhx.2	Missense_Mutation	SNP	37
4	SIGLEC5	uc002pxe.3	Missense_Mutation	SNP	37
4	OR4C12	uc010ria.2	Silent	SNP	37
4	MAVS	uc002wjw.4	Missense_Mutation	SNP	37
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4	OR1A1	uc010vrc.2	Missense_Mutation	SNP	37
4	CNDP1	uc002llq.3	Missense_Mutation	SNP	37
4	SEMA5A	uc003jek.2	Missense_Mutation	SNP	37
4	STAT4	uc002usm.2	Missense_Mutation	SNP	37
4	RBM28	uc003vmp.2	Missense_Mutation	SNP	37
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4	LAMA1	uc002knm.3	Missense_Mutation	SNP	37
4	NDST4	uc003ibu.3	Missense_Mutation	SNP	37
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4	EFCAB3	uc010wpc.2	Missense_Mutation	SNP	37
4	NCDN	uc001bza.3	Missense_Mutation	SNP	37
4	SPHK2	uc002pjw.3	Missense_Mutation	SNP	37
4	ARG2	uc001xjs.3	Silent	SNP	37
4	ENPP6	uc003iwc.3	Nonsense_Mutation	SNP	37
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4	MUC16	uc002mkp.3	Missense_Mutation	SNP	37
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4	MIP	uc001slh.3	Silent	SNP	37
4	WDR49	uc011bpd.1	Nonsense_Mutation	SNP	37
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4	FRAS1	uc003h1b.2	Missense_Mutation	SNP	37
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4	C20orf79	uc002wrk.3	5'UTR	SNP	37
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4	GTF2IRD2P1	uc003txs.1	Silent	SNP	37
4	IQGAP2	uc003kek.3	Missense_Mutation	SNP	37
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4	OR6T1	uc010sab.2	Missense_Mutation	SNP	37
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4	GTF2IRD1	uc010lbq.3	Missense_Mutation	SNP	37
4	SERPINA6	uc001ycv.3	3'UTR	SNP	37
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4	MIR329-2	uc021scr.1	5'Flank	SNP	37
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4	CACNA1A	uc010xne.2	Missense_Mutation	SNP	37
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4	C19orf21	uc002lpo.3	Silent	SNP	37
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4	SLC15A2	uc003eep.2	Missense_Mutation	SNP	37
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4	ZNF618	uc004bib.1	Missense_Mutation	SNP	37
4	USP5	uc001qri.4	Missense_Mutation	SNP	37
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4	FAT4	uc003ifj.4	Missense_Mutation	SNP	37
4	ZNF638	uc002shx.3	Missense_Mutation	SNP	37
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4	C4B	uc011doy.2	Missense_Mutation	SNP	37
4	TLL1	uc011cjn.2	Silent	SNP	37
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4	LRRC16B	uc001wlj.2	Silent	SNP	37
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4	ZNF737	uc002npa.3	5'UTR	SNP	37
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4	SBF1	uc003blh.3	Missense_Mutation	SNP	37
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4	TGIF2LX	uc004efe.3	Missense_Mutation	SNP	37
4	MUC3A	uc003uxl.1	Silent	SNP	37
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4	TRBV2	uc011kro.1	Intron	SNP	37
4	CLCN4	uc004csy.4	Missense_Mutation	SNP	37
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4	ARHGEF2	uc001fmu.2	Missense_Mutation	SNP	37
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4	ECEL1	uc002vsv.2	Silent	SNP	37
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4	MAGEB6	uc004dbr.3	Nonsense_Mutation	SNP	37
4	FSTL5	uc003iqh.3	Missense_Mutation	SNP	37
4	SCMH1	uc001cgo.3	Nonsense_Mutation	SNP	37
4	PDE7B	uc003qgr.3	Missense_Mutation	SNP	37
4	CLIP4	uc002rmv.3	Missense_Mutation	SNP	37
4	CD1E	uc001fse.3	Missense_Mutation	SNP	37
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4	NOVA1	uc001wpy.3	Silent	SNP	37
4	KIAA0564	uc001uyj.3	Missense_Mutation	SNP	37
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4	EPS8L1	uc002qis.4	Silent	SNP	37
4	TTN	uc021vsy.1	Missense_Mutation	SNP	37
4	DNAH7	uc002utj.4	Nonsense_Mutation	SNP	37
4	INSC	uc001mly.3	Missense_Mutation	SNP	37
4	AHNAK2	uc010axc.1	Missense_Mutation	SNP	37
4	abParts	uc001yuj.2	Intron	SNP	37
4	FAAH2	uc004dvc.3	Silent	SNP	37
4	MX2	uc002yzf.1	Silent	SNP	37
4	FRY	uc001utx.3	Missense_Mutation	SNP	37
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4	OR5K3	uc011bgw.2	Silent	SNP	37
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4	PSRC1	uc001dxj.3	Missense_Mutation	SNP	37
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4	CEACAM19	uc002ozo.4	Missense_Mutation	SNP	37
4	PRAMEF11	uc001auk.2	Missense_Mutation	SNP	37
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4	AMY2B	uc010ouo.2	Missense_Mutation	SNP	37
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4	COL4A3	uc002vom.2	Missense_Mutation	SNP	37
4	SEMA6B	uc010dud.2	Splice_Site	SNP	37
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4	SSB	uc002ufk.3	Missense_Mutation	SNP	37
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4	ROS1	uc003pxp.1	Missense_Mutation	SNP	37
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4	COL4A4	uc021v.1	Silent	SNP	37
4	MAGEB16	uc010ngt.1	Silent	SNP	37
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4	COL6A3	uc002vwl.2	Missense_Mutation	SNP	37
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4	HLA-DQA1	uc003obr.3	Missense_Mutation	SNP	37
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4	COL6A6	uc010htl.3	Missense_Mutation	SNP	37

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4	ZFP112	uc010xxa.2	Nonsense_Mutation	SNP	37
4	NPY5R	uc003iqn.3	Missense_Mutation	SNP	37
4	SLC9A3	uc003jbe.2	Missense_Mutation	SNP	37
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4	NME9	uc003esg.3	Missense_Mutation	SNP	37
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4	LIPI	uc002yjm.3	Splice_Site	SNP	37
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4	USP6	uc002gau.1	Nonsense_Mutation	SNP	37
4	DSG1	uc002kwp.3	Missense_Mutation	SNP	37
4	DNAH5	uc003jfd.2	Nonsense_Mutation	SNP	37
4	LY75-CD302	uc002ubb.4	Silent	SNP	37
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4	TCF21	uc003qei.4	3'UTR	SNP	37
4	HRASLS5	uc001nwy.2	3'UTR	SNP	37
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4	CSMD3	uc003ynu.3	Missense_Mutation	SNP	37
4	HSPA2	uc001xhj.3	Missense_Mutation	SNP	37
4	INPP5F	uc001leo.3	Missense_Mutation	SNP	37
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4	MSRA	uc003wsx.3	Missense_Mutation	SNP	37
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4	RAD54L2	uc003dbh.3	Missense_Mutation	SNP	37
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4	SLC27A5	uc002qtc.2	Silent	SNP	37
4	HELB	uc001sti.2	3'UTR	SNP	37
4	SNORD115-4	uc001yyu.1	5'Flank	SNP	37
4	CDH9	uc003jgs.1	Missense_Mutation	SNP	37
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4	TP73	uc021off.1	Missense_Mutation	SNP	37
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4	ANKS1B	uc001tgi.3	Silent	SNP	37
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4	HAUS4	uc001whw.3	Nonsense_Mutation	SNP	37
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4	HIVEP2	uc003qjd.3	Missense_Mutation	SNP	37

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4	WBP2NL	uc003bbt.3	Missense_Mutation	SNP	37
4	ARHGAP44	uc002gnr.4	Silent	SNP	37
4	DAB2IP	uc004bln.3	5'UTR	SNP	37
4	SLC15A1	uc001vno.3	Missense_Mutation	SNP	37
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4	CNTNAP4	uc002fex.1	Missense_Mutation	SNP	37
4	KRT17	uc010wft.2	3'UTR	SNP	37
4	OR5B12	uc010rkh.2	Missense_Mutation	SNP	37
4	BAZ2A	uc001slq.1	Missense_Mutation	SNP	37
4	ZNF583	uc010ygl.1	5'UTR	SNP	37
4	ZNF17	uc002qop.1	Missense_Mutation	SNP	37
4	ERCC4	uc002dce.2	Missense_Mutation	SNP	37
4	WDR62	uc002odd.2	Silent	SNP	37
4	WDR66	uc009zxx.3	Missense_Mutation	SNP	37
4	CUEDC1	uc002ivd.1	Missense_Mutation	SNP	37
4	ADCY8	uc003ytd.4	Silent	SNP	37
4	Unknown		IGR	SNP	37
4	ZNF135	uc002qrg.3	3'UTR	SNP	37
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4	MAGEC2	uc004fbu.2	Silent	SNP	37
4	RIMBP2	uc001uil.2	Missense_Mutation	SNP	37
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4	DDR2	uc001gcf.3	Silent	SNP	37
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4	NR2C2AP	uc002nlx.3	Intron	SNP	37
4	DPP8	uc002aov.3	Missense_Mutation	SNP	37
4	B3GNT7	uc002vrs.3	Silent	SNP	37
4	CLDN11	uc003fgx.3	Missense_Mutation	SNP	37
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4	XIRP2	uc002udx.3	Missense_Mutation	SNP	37
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4	C14orf39	uc001hez.4	Missense_Mutation	SNP	37
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4	IPO8	uc001rjd.3	Missense_Mutation	SNP	37
4	MACF1	uc021olw.1	Missense_Mutation	SNP	37
4	TRDN	uc003pzj.2	Missense_Mutation	SNP	37
4	ACOT11	uc001cxm.2	Splice_Site	SNP	37
4	TMEM217	uc003onl.3	Missense_Mutation	SNP	37
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4	SEMG2	uc002xnk.3	Missense_Mutation	SNP	37
4	USP6	uc010ckz.1	Silent	SNP	37
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4	SPAG5	uc002hbq.3	Missense_Mutation	SNP	37
4	KCND2	uc003vjj.1	Missense_Mutation	SNP	37
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4	SPP2	uc002vvk.1	Missense_Mutation	SNP	37
4	FAM181A	uc001ybz.2	Silent	SNP	37
4	KIAA1024	uc002bew.1	Missense_Mutation	SNP	37
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4	MEP1B	uc002kxj.4	Silent	SNP	37
4	KIFAP3	uc001ggv.3	5'UTR	SNP	37
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4	KRTAP4-6	uc010cxk.2	Missense_Mutation	SNP	37
4	DSG2	uc002kwu.4	Missense_Mutation	SNP	37
4	ABCA13	uc003toq.2	Missense_Mutation	SNP	37
4	ZNF783	uc011kuo.2	Missense_Mutation	SNP	37
4	GMIP	uc002nnd.3	Silent	SNP	37
4	GPBP1	uc003jrk.4	Silent	SNP	37
4	SZT2	uc001cjk.2	Missense_Mutation	SNP	37
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4	ZNF365	uc001jmb.4	3'UTR	SNP	37
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4	ZNF589	uc003csl.4	Missense_Mutation	SNP	37
4	CTAGE5	uc001wvi.4	Missense_Mutation	SNP	37
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4	TIAM1	uc002yow.1	Splice_Site	SNP	37
4	DISP2	uc001zlk.1	Missense_Mutation	SNP	37
4	NCKAP5	uc002ttp.3	Missense_Mutation	SNP	37
4	FKBP10	uc002hvx.2	Missense_Mutation	SNP	37
4	MEF2D	uc001fpc.3	Silent	SNP	37
4	PLEKHG6	uc001qns.3	Missense_Mutation	SNP	37
4	DDX3X	uc004dfe.3	Nonsense_Mutation	SNP	37
4	PRMT5	uc001whm.1	Missense_Mutation	SNP	37
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4	MAPK4	uc002lev.3	3'UTR	SNP	37

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4	ADH1A	uc003hur.2	Silent	SNP	37
4	MARK4	uc002pbb.2	Missense_Mutation	SNP	37
4	SLC2A12	uc003qem.1	Missense_Mutation	SNP	37
4	MFN2	uc001atn.4	Missense_Mutation	SNP	37
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4	PIGS	uc002hbo.2	Silent	SNP	37
4	SCML4	uc010kdf.3	Missense_Mutation	SNP	37
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4	LOC642846	uc010sgp.1	Intron	SNP	37
4	LRRC37B	uc002hgu.3	Silent	SNP	37
4	MEGF8	uc002otl.4	Missense_Mutation	SNP	37
4	CGB1	uc002plx.3	Silent	SNP	37
4	TMEM161A	uc002nlg.3	Missense_Mutation	SNP	37
4	FAM59A	uc002kxl.3	Missense_Mutation	SNP	37
4	SS18	uc002kvm.3	Missense_Mutation	SNP	37
4	MBD2	uc002lfh.2	3'UTR	SNP	37
4	STON2	uc001xvk.1	Silent	SNP	37
4	TSPYL1	uc003pwp.4	Silent	SNP	37
4	C3orf39	uc003cmq.1	3'UTR	SNP	37
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4	BCL2L15	uc001edw.3	Silent	SNP	37
4	CXorf59	uc004ddk.1	Missense_Mutation	SNP	37
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4	TAS2R10	uc001qyy.1	Missense_Mutation	SNP	37
4	RNF185	uc003akb.3	Missense_Mutation	SNP	37
4	COL4A4	uc021vxr.1	Silent	SNP	37
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4	DNAH5	uc003jfd.2	Missense_Mutation	SNP	37
4	TREM2	uc003opz.2	Missense_Mutation	SNP	37
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4	APOB	uc002red.3	Missense_Mutation	SNP	37
4	TNXB	uc003nzl.2	Missense_Mutation	SNP	37
4	MAPK15	uc003yzj.3	Missense_Mutation	SNP	37
4	RBM44	uc002vxi.4	Missense_Mutation	SNP	37
4	PDE6H	uc001rcr.3	3'UTR	SNP	37
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4	CSPG5	uc003crp.4	Intron	SNP	37
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4	PRR16	uc003ksq.3	Silent	SNP	37
4	SLC44A3	uc001dqv.4	Silent	SNP	37
4	KIAA1244	uc003qhu.3	Missense_Mutation	SNP	37
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4	RAI2	uc004cyf.3	Silent	SNP	37
4	PTPRE	uc009yat.3	Missense_Mutation	SNP	37
4	NPVF	uc003sxo.3	Missense_Mutation	SNP	37
4	GPR149	uc003faa.3	Missense_Mutation	SNP	37
4	EPHA3	uc003dqy.3	Missense_Mutation	SNP	37
4	IL37	uc002tij.3	Missense_Mutation	SNP	37
4	COQ5	uc001tyn.3	Nonsense_Mutation	SNP	37
4	HYDIN	uc002ezr.3	Missense_Mutation	SNP	37
4	SOX6	uc001mme.3	Missense_Mutation	SNP	37
4	LRFN2	uc003oph.1	Missense_Mutation	SNP	37
4	MEF2D	uc001fpc.3	Missense_Mutation	SNP	37
4	FBXW4	uc001kto.3	3'UTR	SNP	37
4	IGDCC3	uc002aos.2	Missense_Mutation	SNP	37
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4	TAOK1	uc002hdz.2	Missense_Mutation	SNP	37
4	PLCB1	uc002wnb.3	Silent	SNP	37
4	CLDND1	uc003dst.3	Missense_Mutation	SNP	37
4	FMO3	uc001ghi.3	Missense_Mutation	SNP	37
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4	CACNA1S	uc001gvv.3	Missense_Mutation	SNP	37
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4	CYB5R2	uc001mfm.3	Missense_Mutation	SNP	37
4	ZNF2	uc002suf.3	Missense_Mutation	SNP	37
4	GRIA1	uc011dcy.2	Missense_Mutation	SNP	37
4	TTN	uc021vsz.1	Silent	SNP	37
4	C12orf35	uc001rks.3	Missense_Mutation	SNP	37
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4	CD209	uc002mht.2	Missense_Mutation	SNP	37
4	ZNF880	uc002pzc.3	Missense_Mutation	SNP	37
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4	TAF1C	uc002fhn.3	Missense_Mutation	SNP	37
4	KCNH8	uc003cbk.1	Missense_Mutation	SNP	37
4	USP26	uc010nrm.1	Missense_Mutation	SNP	37
4	SMPD3	uc002ewa.3	Missense_Mutation	SNP	37
4	CYP3A7	uc003uru.3	Silent	SNP	37
4	RELN	uc022ajr.1	Silent	SNP	37
4	MAP3K9	uc001xml.3	Missense_Mutation	SNP	37
4	PPP2R3B	uc004cpf.3	5'UTR	SNP	37
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4	MUC17	uc003uxp.1	Nonsense_Mutation	SNP	37
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4	NHP2L1	uc003bat.3	5'UTR	SNP	37
4	ARPP21	uc011axy.2	Missense_Mutation	SNP	37
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4	MRPS22	uc003etb.3	5'UTR	SNP	37
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4	IGSF22	uc009yht.2	Missense_Mutation	SNP	37
4	GPR20	uc003ywf.3	Missense_Mutation	SNP	37
4	EXOC8	uc001huq.3	Silent	SNP	37
4	ADNP2	uc002lnw.3	Missense_Mutation	SNP	37
4	NOTCH3	uc002nan.3	Missense_Mutation	SNP	37
4	RTTN	uc002lkp.2	Missense_Mutation	SNP	37
4	NOVA1	uc001wpy.3	Missense_Mutation	SNP	37
4	MOB2	uc010qwz.2	Silent	SNP	37
4	DDX60L	uc021xuh.1	Missense_Mutation	SNP	37

4	MLL3	uc003wla.3	Missense_Mutation	SNP	37
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4	IL1R2	uc002tbm.3	Missense_Mutation	SNP	37
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4	SDK1	uc003smx.3	Missense_Mutation	SNP	37
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4	CPA6	uc003xxq.4	Missense_Mutation	SNP	37
4	CD8B	uc002srw.3	Silent	SNP	37
4	USP47	uc001mjs.3	Missense_Mutation	SNP	37
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5	DLX6	uc022ahu.1	Missense_Mutation	SNP	37
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5	SNORD114-31	uc001yfv.3	5'Flank	SNP	37
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5	CLRN1	uc003eyj.3	3'UTR	SNP	37
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5	RASGRP3	uc002rox.3	Missense_Mutation	SNP	37
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5	SAMD15	uc001xtq.1	Missense_Mutation	SNP	37
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5	CD53	uc001dzw.3	Nonsense_Mutation	SNP	37
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5	KCNB2	uc003xzb.3	Missense_Mutation	SNP	37
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5	MICALCL	uc001mkg.1	Missense_Mutation	SNP	37
5	LILRA1	uc002qgh.1	Missense_Mutation	SNP	37
5	PPP2R3A	uc003eqv.2	Missense_Mutation	SNP	37
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5	KANK4	uc001dah.4	Silent	SNP	37
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5	TUBA3C	uc009zzj.3	Silent	SNP	37
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5	DHX29	uc003jpx.3	Silent	SNP	37
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5	GRAP2	uc003ayh.2	Missense_Mutation	SNP	37
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5	TMEM164	uc004eom.3	Missense_Mutation	SNP	37
5	OR2M5	uc010pze.2	Missense_Mutation	SNP	37
5	TRA2A	uc011jzd.2	5'UTR	SNP	37
5	TRHDE	uc001sxa.3	Missense_Mutation	SNP	37
5	HLA-C	uc003nsy.3	Intron	SNP	37
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6	TMED4	uc003tli.3	Frame_Shift_Del	DEL	37
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6	PDIA6	uc002raw.3	Missense_Mutation	SNP	37
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6	GRIP2	uc003byu.1	3'UTR	SNP	37
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6	OR2T1	uc010pzm.2	Silent	SNP	37
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6	LPIN1	uc010yjm.2	Missense_Mutation	SNP	37
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6	IFT122	uc003eml.3	Silent	SNP	37
6	HIST3H2A	uc001hsy.3	Silent	SNP	37
6	BRAF	uc003vwc.4	Missense_Mutation	SNP	37
6	TAS2R13	uc001qzg.1	Missense_Mutation	SNP	37
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6	MGAM	uc003vwy.3	Silent	SNP	37
6	TRIM72	uc002ebn.2	Missense_Mutation	SNP	37
6	ALDH18A1	uc001kkz.3	Silent	SNP	37



6	SLC8A3	uc001xly.3	Missense_Mutation	SNP	37
6	TOR1AIP1	uc001gnq.3	Nonsense_Mutation	SNP	37
6	NRXN1	uc021vhg.1	Missense_Mutation	SNP	37
6	NACAP1	uc003ykc.1	5'Flank	SNP	37
6	EXOC4	uc003vrk.3	Silent	SNP	37
6	SPINK5	uc003loy.2	Silent	SNP	37
6	MPP4	uc002uym.1	3'UTR	SNP	37
6	BC034827	uc003xew.3	Non-coding_Transcript	SNP	37
6	AK130486	uc001txn.1	Missense_Mutation	SNP	37
6	SETBP1	uc010dni.3	Silent	SNP	37
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6	DNMT3L	uc002zeh.1	Silent	SNP	37
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6	ODZ2	uc010jld.3	Silent	SNP	37
6	MYOC	uc001ghu.3	Missense_Mutation	SNP	37
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6	TMEM234	uc009vub.1	Missense_Mutation	SNP	37
6	MYH15	uc003dxa.1	Missense_Mutation	SNP	37
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6	CENPF	uc001hkm.3	Missense_Mutation	SNP	37
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6	JA040725	uc022bqs.1	Intron	SNP	37
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6	HDAC5	uc002iff.1	Missense_Mutation	SNP	37
6	JAG2	uc001yqg.3	Missense_Mutation	SNP	37
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6	FAM172BP	uc003duy.1	Missense_Mutation	SNP	37
6	MYH9	uc003apg.3	Nonsense_Mutation	SNP	37
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6	ZKSCAN5	uc003uqv.3	Missense_Mutation	SNP	37
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6	NR1H3	uc010rhk.2	Silent	SNP	37

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6	HAUS7	uc004fhn.2	5'UTR	SNP	37
6	TMEM123	uc001pha.3	Silent	SNP	37
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6	FAM83D	uc002xjf.3	3'UTR	SNP	37
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6	MYCBP2	uc021rks.1	Missense_Mutation	SNP	37
6	GRIN2B	uc001rbt.2	Missense_Mutation	SNP	37
6	SNTB2	uc002ewu.3	Silent	SNP	37
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6	CTNNA3	uc009xpn.1	Splice_Site	SNP	37
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6	LHFPL4	uc003bry.3	Missense_Mutation	SNP	37

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6	EBF2	uc003xet.2	3'UTR	SNP	37
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6	NCAN	uc002nlz.3	Silent	SNP	37
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6	GFM1	uc003fce.3	Silent	SNP	37
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6	TUB	uc001mfy.3	Missense_Mutation	SNP	37
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6	B3GALTL	uc010aaz.3	Missense_Mutation	SNP	37
6	DCLK1	uc001uvf.3	Missense_Mutation	SNP	37
6	LAMB4	uc010ljo.1	Splice_Site	SNP	37
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6	CASP14	uc010dzv.2	Missense_Mutation	SNP	37
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6	DHX35	uc002xjh.3	Missense_Mutation	SNP	37
6	HK2	uc002snd.3	Missense_Mutation	SNP	37
6	TAS2R60	uc011ktg.2	Missense_Mutation	SNP	37
6	ZNF518B	uc003gmn.3	Missense_Mutation	SNP	37
6	DHX30	uc003cru.3	Missense_Mutation	SNP	37
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6	NCAPD2	uc001qoo.2	Silent	SNP	37
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6	SLC19A1	uc002zhl.2	Missense_Mutation	SNP	37
6	CPOX	uc003dsx.3	Silent	SNP	37
6	NFASC	uc001hbj.3	Missense_Mutation	SNP	37
6	AGAP2	uc001spr.3	Silent	SNP	37
6	ARHGEF4	uc010fmw.1	Missense_Mutation	SNP	37
6	NPAS2	uc010yvt.1	Missense_Mutation	SNP	37
6	HEATR6	uc002iyk.1	Missense_Mutation	SNP	37
6	MMP16	uc003yeb.4	Missense_Mutation	SNP	37
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6	EDEM3	uc010pom.2	Splice_Site	SNP	37
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6	SLIT3	uc010jgg.3	Splice_Site	SNP	37
6	SYNCRIP	uc003pla.2	Missense_Mutation	SNP	37
6	GREM2	uc001hys.3	Missense_Mutation	SNP	37
6	UST	uc003qmg.3	Silent	SNP	37
6	RAB3GAP2	uc010puk.1	Missense_Mutation	SNP	37
6	RANBP17	uc003mbd.3	Silent	SNP	37
6	RAB27B	uc002lfr.3	Silent	SNP	37
6	AKAP13	uc002blu.1	Splice_Site	SNP	37
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6	ZNF676	uc002nqs.1	5'UTR	SNP	37
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6	TCHP	uc001tpn.3	Silent	SNP	37
6	CCDC76	uc001dsv.3	Missense_Mutation	SNP	37
6	NLRP4	uc002qmd.4	Nonsense_Mutation	SNP	37
6	C17orf80	uc002jjm.4	Missense_Mutation	SNP	37
6	APLP1	uc002ocf.3	Missense_Mutation	SNP	37
6	CTAGE1	uc002ktv.1	Missense_Mutation	SNP	37
6	LGALS16	uc021uun.1	Missense_Mutation	SNP	37
6	NT5C1B-RDH14	uc010exr.3	Missense_Mutation	SNP	37
6	GRIN3A	uc004bbp.2	Missense_Mutation	SNP	37
6	EIF1AD	uc021qlr.1	Missense_Mutation	SNP	37
6	NR2E3	uc002ati.3	Missense_Mutation	SNP	37
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6	DSC2	uc002kwl.4	Missense_Mutation	SNP	37
6	ZNF343	uc010gao.1	Silent	SNP	37
6	DHRS4	uc010alc.3	Splice_Site	SNP	37
6	CHIA	uc001eas.3	Silent	SNP	37
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6	PHB2	uc021qug.1	Missense_Mutation	SNP	37
6	BZRAP1	uc002ivx.4	Missense_Mutation	SNP	37
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6	PRR24	uc002pgi.3	Silent	SNP	37
6	ACMSD	uc002ttz.3	Missense_Mutation	SNP	37
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6	AHCY	uc002xai.3	Silent	SNP	37
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6	TEKT4	uc002stw.1	Intron	SNP	37
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6	DSCAM	uc002yyq.1	Missense_Mutation	SNP	37
6	MAG	uc002nyy.2	Missense_Mutation	SNP	37
6	TTBK1	uc003ouq.1	Missense_Mutation	SNP	37
6	C17orf85	uc010ckl.1	Nonsense_Mutation	SNP	37
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6	PCDH15	uc001jjw.3	3'UTR	SNP	37
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6	HMCN1	uc001grq.1	Missense_Mutation	SNP	37
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6	TRIM38	uc003nfm.3	Missense_Mutation	SNP	37

6	MAGEB6	uc004dbr.3	Missense_Mutation	SNP	37
6	TCRBV3S1	uc011ksk.1	Missense_Mutation	SNP	37
6	OR8B4	uc010sak.2	Missense_Mutation	SNP	37
6	SNIP1	uc001cbi.3	Missense_Mutation	SNP	37
6	FRS2	uc001suy.3	Missense_Mutation	SNP	37
6	SLC12A9	uc003uwv.3	5'UTR	SNP	37
6	TEX101	uc002owk.3	Missense_Mutation	SNP	37
6	NCKAP5	uc002tts.1	3'UTR	SNP	37
6	CAT	uc001mvm.3	Missense_Mutation	SNP	37
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6	PPP3CB	uc001juf.3	Missense_Mutation	SNP	37
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6	MARK1	uc009xdw.3	Missense_Mutation	SNP	37
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6	AZIN1	uc003yky.3	Missense_Mutation	SNP	37
6	CDH7	uc002ljz.3	Missense_Mutation	SNP	37
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6	PCDHAC2	uc003lii.3	3'UTR	SNP	37
6	THSD7B	uc002tva.1	Missense_Mutation	SNP	37
6	C20orf151	uc002ycw.2	Silent	SNP	37
6	WFDC1	uc002fhv.3	Missense_Mutation	SNP	37

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6	C8orf49	uc003wud.1	Missense_Mutation	SNP	37
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6	RNASE6	uc001vye.4	Silent	SNP	37
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6	TRIM22	uc001mbr.3	Silent	SNP	37
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6	PHKA1	uc004eax.4	Missense_Mutation	SNP	37
6	SNAI2	uc003xqp.3	5'UTR	SNP	37
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6	CCDC141	uc002une.2	Missense_Mutation	SNP	37
6	TRBV2	uc011kro.1	Intron	SNP	37
6	IGHE	uc001yrw.1	Intron	SNP	37
6	AQP6	uc001rvr.1	3'UTR	SNP	37
6	DNAH9	uc002gne.3	Missense_Mutation	SNP	37
6	NXF5	uc011mrk.1	5'UTR	SNP	37
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6	KALRN	uc003ehg.3	Silent	SNP	37
6	SLC8A2	uc010ele.3	Silent	SNP	37
6	AHNAK	uc001ntl.3	Silent	SNP	37
6	CDC42EP4	uc002jnn.3	Silent	SNP	37
6	TCRBV3S1	uc003wag.2	3'UTR	SNP	37
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6	OR51M1	uc010qzc.2	Missense_Mutation	SNP	37
6	CDCA4	uc001yqa.2	Missense_Mutation	SNP	37
6	CAMTA1	uc001aoi.3	Missense_Mutation	SNP	37
6	FBLIM1	uc001axg.1	Silent	SNP	37
6	IQGAP2	uc003kek.3	Missense_Mutation	SNP	37
6	MLL3	uc003wla.3	Missense_Mutation	SNP	37
6	IL1RAPL2	uc004elz.1	Missense_Mutation	SNP	37
6	OPN1SW	uc003vnt.4	Missense_Mutation	SNP	37
6	GATS	uc003uua.4	Intron	SNP	37
6	HMGCLL1	uc003pcn.3	Missense_Mutation	SNP	37
6	FTSJD1	uc010cga.3	Missense_Mutation	SNP	37
6	OR51G2	uc001lzt.1	Missense_Mutation	SNP	37
6	CHRM2	uc003vtf.1	Missense_Mutation	SNP	37
6	C19orf59	uc002mhh.1	3'UTR	SNP	37
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6	HELZ	uc010wqk.2	Missense_Mutation	SNP	37
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6	WEE2	uc003vwn.2	Missense_Mutation	SNP	37
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6	ITGB4	uc002jpg.3	Silent	SNP	37
6	TLE2	uc010dth.3	3'UTR	SNP	37
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7	ZNF98	uc002nqt.2	Missense_Mutation	SNP	37
7	DENND4C	uc003znq.3	Missense_Mutation	SNP	37
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7	DCC	uc002lfe.2	Silent	SNP	37
7	PCDHGC5	uc003lkj.2	Missense_Mutation	SNP	37
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7	ZIM3	uc002qnz.1	Missense_Mutation	SNP	37
7	MYH7	uc001wjx.3	Missense_Mutation	SNP	37
7	ANO1	uc001opj.3	Missense_Mutation	SNP	37
7	SERPINA3	uc010avg.3	5'UTR	SNP	37
7	BTN3A3	uc003nhz.3	Missense_Mutation	SNP	37
7	ZNF585A	uc002ofo.1	Missense_Mutation	SNP	37
7	CCDC112	uc003kqz.2	Missense_Mutation	SNP	37
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7	SLITRK4	uc022cfl.1	Silent	SNP	37
7	STAU1	uc002xud.3	Silent	SNP	37
7	PSG4	uc002ovg.1	3'UTR	SNP	37
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7	CCDC164	uc002rhg.2	Silent	SNP	37
7	CBLC	uc002ozs.3	Missense_Mutation	SNP	37
7	ZNF225	uc002oyj.1	Silent	SNP	37

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7	RGPD4	uc010ywk.2	Missense_Mutation	SNP	37
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7	ZNF41	uc004dhs.4	Missense_Mutation	SNP	37
7	GZMA	uc003jpm.3	Silent	SNP	37
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7	YWHAE	uc002fsj.3	Missense_Mutation	SNP	37
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7	SIGLEC8	uc002pwt.3	Missense_Mutation	SNP	37
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7	ORC1	uc001ctt.3	Missense_Mutation	SNP	37
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7	OR8H3	uc001nii.1	Missense_Mutation	SNP	37
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7	ZNF331	uc002qbx.1	Missense_Mutation	SNP	37
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7	FRMD7	uc004ewn.3	5'UTR	SNP	37
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7	FAM90A1	uc001qui.2	Missense_Mutation	SNP	37
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7	DNAH5	uc003jfd.2	Silent	SNP	37
7	KCNT1	uc011mdq.2	Silent	SNP	37
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7	LCT	uc002tuu.1	Silent	SNP	37
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7	CDH9	uc003jgs.1	3'UTR	SNP	37
7	SEC14L4	uc003aid.2	Missense_Mutation	SNP	37
7	AMPD1	uc001efe.2	Missense_Mutation	SNP	37
7	ATP7B	uc001vfw.2	Silent	SNP	37
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7	PRSS1	uc003wak.2	Silent	SNP	37
7	CDK5RAP2	uc004bkf.3	Missense_Mutation	SNP	37
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7	ACTRT2	uc001ajz.3	Silent	SNP	37
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7	NUF2	uc001gcq.1	Missense_Mutation	SNP	37
7	TMPRSS9	uc010xgx.2	Silent	SNP	37
7	ZNF99	uc021urt.1	Missense_Mutation	SNP	37
7	OR5B2	uc010rkg.2	Missense_Mutation	SNP	37
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7	DCLRE1B	uc001eeg.3	Missense_Mutation	SNP	37
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7	TET3	uc002skb.4	Missense_Mutation	SNP	37
7	SNORD115-15	uc001yzq.1	Intron	SNP	37
7	ABCA8	uc002jhq.3	Missense_Mutation	SNP	37
7	GABRE	uc004ffi.3	Intron	SNP	37
7	WDR72	uc002acj.2	Missense_Mutation	SNP	37
7	NLRP8	uc002qmh.3	Missense_Mutation	SNP	37
7	LRR1Q1	uc001tad.3	Missense_Mutation	SNP	37
7	SPTA1	uc001fst.1	Missense_Mutation	SNP	37
7	EPHA7	uc003poe.3	Silent	SNP	37
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7	KANSL1	uc002ikc.3	Missense_Mutation	SNP	37
7	SLC25A31	uc003ifl.3	Silent	SNP	37
7	RGS7	uc001hyv.2	Missense_Mutation	SNP	37
7	SLC8A3	uc001xly.3	Silent	SNP	37
7	SERPINA6	uc001ycv.3	Missense_Mutation	SNP	37
7	TMPRSS15	uc002ykw.3	Nonsense_Mutation	SNP	37
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7	CNBD1	uc003ydy.2	Missense_Mutation	SNP	37
7	MCMDC2	uc003xwz.4	Silent	SNP	37
7	OR51S1	uc010qyo.2	Missense_Mutation	SNP	37
7	PXDNL	uc003xqu.4	Silent	SNP	37
7	TAF4B	uc002kvt.4	Missense_Mutation	SNP	37
7	C10orf68	uc001iwn.4	Splice_Site	SNP	37
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7	ZFR2	uc002lyw.2	Missense_Mutation	SNP	37
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7	MYO18B	uc003abz.1	Silent	SNP	37
7	ALKBH3	uc001mxs.2	Missense_Mutation	SNP	37
7	GPRIN1	uc003meo.1	Silent	SNP	37

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7	POU2F2	uc002osp.3	Missense_Mutation	SNP	37
7	CR1	uc001hfx.3	Missense_Mutation	SNP	37
7	HEPHL1	uc001pep.2	Missense_Mutation	SNP	37
7	PCDHAC2	uc003lia.2	Missense_Mutation	SNP	37
7	MAP3K13	uc010hyf.3	Missense_Mutation	SNP	37
7	MOV10L1	uc003bjj.3	Missense_Mutation	SNP	37
7	C15orf48	uc001zvg.3	Missense_Mutation	SNP	37
7	OR51S1	uc010qyo.2	Missense_Mutation	SNP	37
7	SHQ1	uc003dpf.3	5'UTR	SNP	37
7	EPB41L3	uc002kmt.1	Silent	SNP	37
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7	UGT2B17	uc021xov.1	Missense_Mutation	SNP	37
7	LCP2	uc010jjo.1	3'UTR	SNP	37
7	HS3ST2	uc002dli.3	3'UTR	SNP	37
7	CD33	uc002pwa.2	Silent	SNP	37
7	KIAA0195	uc010wsa.2	Silent	SNP	37
7	GPR112	uc004ezu.1	Missense_Mutation	SNP	37
7	SMC1B	uc003bgc.3	Missense_Mutation	SNP	37
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7	CSMD1	uc022aqr.1	Splice_Site	SNP	37
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7	CCR5	uc003cpo.4	Missense_Mutation	SNP	37
7	ATP2B3	uc004fht.1	Missense_Mutation	SNP	37
7	PTPRH	uc002qjq.3	Missense_Mutation	SNP	37
7	JAM2	uc002ylp.1	Missense_Mutation	SNP	37
7	CD40	uc002xrf.1	3'UTR	SNP	37
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7	ANKRD50	uc010inw.3	Missense_Mutation	SNP	37
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7	ZNF81	uc022bvq.1	Missense_Mutation	SNP	37
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7	KALRN	uc003ehg.3	Missense_Mutation	SNP	37
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7	MAP2	uc002vde.1	Missense_Mutation	SNP	37
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7	ARRB2	uc010vsg.2	Silent	SNP	37
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7	OR2D3	uc010rav.2	Missense_Mutation	SNP	37
7	OASL	uc001tzj.1	3'UTR	SNP	37
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7	ZNF551	uc002qpw.4	Silent	SNP	37
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7	XIRP2	uc002udx.3	Missense_Mutation	SNP	37
7	PARP6	uc002auc.3	3'UTR	SNP	37
7	CDKN2A	uc010miu.3	Splice_Site	SNP	37
7	DCUN1D3	uc002dhz.3	Missense_Mutation	SNP	37
7	NRK	uc004emd.3	Missense_Mutation	SNP	37
7	TAOK2	uc010bzm.2	Missense_Mutation	SNP	37
7	DNAH8	uc021yzh.1	Missense_Mutation	SNP	37
7	LYZL6	uc002hkj.2	Missense_Mutation	SNP	37
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8	D4S234E	uc011bvz.2	Frame_Shift_Del	DEL	37
8	PIEZO1	uc010vpb.2	In_Frame_Del	DEL	37
8	GDF10	uc001jfb.3	Missense_Mutation	SNP	37
8	LAMA3	uc002kuq.3	Missense_Mutation	SNP	37
8	ANO8	uc002ngf.2	Silent	SNP	37
8	KAT8	uc002eaz.3	5'UTR	SNP	37



8	DNER	uc002vpv.3	Silent	SNP	37
8	NRM	uc003nrc.3	Missense_Mutation	SNP	37
8	BNC1	uc002bjt.1	Missense_Mutation	SNP	37
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8	RALGDS	uc011mcw.2	5'UTR	SNP	37
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8	AFM	uc003hhb.3	Missense_Mutation	SNP	37
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8	CREB1	uc002vcc.3	Missense_Mutation	SNP	37
8	SGOL2	uc002uvw.2	Missense_Mutation	SNP	37
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8	KCNH1	uc001hib.2	Silent	SNP	37
8	TTN	uc021vsy.1	Splice_Site	SNP	37
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8	NAP1L1	uc001sxx.2	Missense_Mutation	SNP	37
8	PDE4DIP	uc001emh.3	3'UTR	SNP	37
8	PTCHD3	uc001itu.2	Missense_Mutation	SNP	37
8	ERAP2	uc003kmq.3	Missense_Mutation	SNP	37
8	MGC39584	uc003izy.3	5'Flank	SNP	37
8	MSL3	uc004cuy.3	5'UTR	SNP	37
8	AKD1	uc003ptn.2	Missense_Mutation	SNP	37
8	ITGB3	uc002ili.1	Silent	SNP	37
8	FBR3	uc002dzd.4	Nonsense_Mutation	SNP	37
8	CORIN	uc003gxm.3	Silent	SNP	37
8	CIRH1A	uc002ews.4	Missense_Mutation	SNP	37
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8	KIAA1614	uc001gok.2	Missense_Mutation	SNP	37
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8	EHBP1	uc002sby.3	Silent	SNP	37
8	LMTK3	uc002pjk.3	3'UTR	SNP	37
8	TCRA	uc001wbw.2	Intron	SNP	37
8	COL1A2	uc003ung.1	Splice_Site	SNP	37
8	CHCHD2	uc003tsa.3	5'UTR	SNP	37
8	TDRD1	uc001lbg.1	Missense_Mutation	SNP	37
8	C8orf34	uc010lyz.3	Splice_Site	SNP	37
8	RUFY4	uc010fvl.2	5'UTR	SNP	37
8	SP110	uc002vqg.3	Silent	SNP	37
8	SEMG2	uc010ggz.3	Missense_Mutation	SNP	37

8	GNN	uc009zuh.2	Missense_Mutation	SNP	37
8	RASGRF1	uc002beq.3	Missense_Mutation	SNP	37
8	DNAH2	uc002giu.1	Missense_Mutation	SNP	37
8	GPATCH1	uc002nug.1	5'UTR	SNP	37
8	AK127963	uc003zln.1	Intron	SNP	37
8	CACNA1F	uc004dnb.3	Silent	SNP	37
8	REN	uc001haq.2	Silent	SNP	37
8	LAMA5	uc002ycq.3	Missense_Mutation	SNP	37
8	AX747828	uc003fwo.1	Missense_Mutation	SNP	37
8	POPDC2	uc003ecx.1	Missense_Mutation	SNP	37
8	COL4A3	uc002vom.2	Missense_Mutation	SNP	37
8	C14orf166B	uc001xsx.2	Intron	SNP	37
8	AATK	uc010dia.3	Silent	SNP	37
8	VWF	uc001qnn.1	Missense_Mutation	SNP	37
8	DACH1	uc021rkj.1	Missense_Mutation	SNP	37
8	TPRG1	uc003frv.2	Silent	SNP	37
8	ABHD3	uc002ktk.2	5'UTR	SNP	37
8	SYCP2L	uc003mzo.3	Missense_Mutation	SNP	37
8	FLJ38723	uc002ajj.1	Missense_Mutation	SNP	37
8	LILRP2	uc002qgt.1	Intron	SNP	37
8	DMD	uc004dda.1	Missense_Mutation	SNP	37
8	PKD1L1	uc003tny.2	Missense_Mutation	SNP	37
8	PIKFYVE	uc002vcz.3	Missense_Mutation	SNP	37
8	FOXN1	uc010crm.3	Missense_Mutation	SNP	37
8	UGT1A1	uc002vuy.3	Nonsense_Mutation	SNP	37
8	ACSBG1	uc002bdh.3	Missense_Mutation	SNP	37
8	EIF4E	uc011cea.1	5'UTR	SNP	37
8	BCLAF1	uc003qgx.1	Missense_Mutation	SNP	37
8	LRP1B	uc002tvj.1	Missense_Mutation	SNP	37
8	DIAPH1	uc003llb.4	Missense_Mutation	SNP	37
8	TRA	uc021rpa.1	Intron	SNP	37
8	SPICE1	uc003eag.4	Missense_Mutation	SNP	37
8	HECTD2	uc010qnm.1	Missense_Mutation	SNP	37
8	MUM1L1	uc004emg.2	Missense_Mutation	SNP	37
8	NCOR2	uc021rga.1	Missense_Mutation	SNP	37
8	TRIM10	uc003npo.3	Missense_Mutation	SNP	37
8	MAN1B1	uc011mep.2	Missense_Mutation	SNP	37
8	ATF7IP2	uc002czu.3	Missense_Mutation	SNP	37
8	SLC16A4	uc001dzo.2	Missense_Mutation	SNP	37
8	SCN10A	uc003ciq.3	Missense_Mutation	SNP	37
8	DGKH	uc001uyl.2	Silent	SNP	37
8	BCL9L	uc001pug.3	Missense_Mutation	SNP	37
8	CCL25	uc002mjd.3	3'UTR	SNP	37

8	AK095285	uc010ikd.2	5'Flank	SNP	37
8	RPP14	uc010hni.3	Missense_Mutation	SNP	37
8	NOL10	uc002raq.2	Missense_Mutation	SNP	37
8	WIPI1	uc010dey.3	Missense_Mutation	SNP	37
8	PREX2	uc003xxu.1	Missense_Mutation	SNP	37
8	LAMP3	uc003flh.4	3'UTR	SNP	37
8	PCDHAC2	uc003lhf.2	Missense_Mutation	SNP	37
8	ANO7	uc002wax.2	Missense_Mutation	SNP	37
8	CACNA1I	uc003ayc.3	Missense_Mutation	SNP	37
8	AK097289	uc003uzi.1	Silent	SNP	37
8	KIAA0895L	uc002ert.3	Missense_Mutation	SNP	37
8	CACNA1C	uc009zdu.1	Silent	SNP	37
8	OR8I2	uc010rix.2	Silent	SNP	37
8	SLC16A4	uc001dzo.2	Missense_Mutation	SNP	37
8	PPM1D	uc002iyt.2	Nonsense_Mutation	SNP	37
8	ESPN	uc001amy.3	Missense_Mutation	SNP	37
8	DEFB119	uc002wvu.1	Missense_Mutation	SNP	37
8	POTEE	uc002tsn.2	Silent	SNP	37
8	SCAP	uc003crh.1	Missense_Mutation	SNP	37
8	DNAH10	uc001uft.4	Silent	SNP	37
8	HHLA2	uc003dwy.4	Nonsense_Mutation	SNP	37
8	LRP10	uc001whd.3	Missense_Mutation	SNP	37
8	NANOG	uc009zfy.1	Missense_Mutation	SNP	37
8	SPNS2	uc002fxx.2	3'UTR	SNP	37
8	PPME1	uc009yty.3	Missense_Mutation	SNP	37
8	NPY5R	uc003iqn.3	Missense_Mutation	SNP	37
8	ACTN2	uc001hyf.2	Silent	SNP	37
8	NLRP8	uc002qmh.3	Silent	SNP	37
8	EDAR	uc010fjn.3	Missense_Mutation	SNP	37
8	HYDIN	uc002ezr.3	Missense_Mutation	SNP	37
8	OR2Y1	uc003mmf.1	Missense_Mutation	SNP	37
8	SH3GLB1	uc001dly.3	Missense_Mutation	SNP	37
8	TRERF1	uc003ose.2	Silent	SNP	37
8	ADCY6	uc001rsh.4	Silent	SNP	37
8	KIAA1737	uc001xtd.3	Missense_Mutation	SNP	37
8	RAET1L	uc011eei.2	Splice_Site	SNP	37
8	MRRF	uc011lyq.2	3'UTR	SNP	37
8	DFNB31	uc004biz.4	Silent	SNP	37
8	FRG1B	uc010ztl.1	Missense_Mutation	SNP	37
8	TNFRSF12A	uc002csv.4	Silent	SNP	37
8	SACS	uc001uon.2	3'UTR	SNP	37
8	ABCC13	uc002yjq.3	Silent	SNP	37
8	MARVELD3	uc002fat.3	Missense_Mutation	SNP	37

8	XIST	uc004ebm.1	Non-coding_Transcript	SNP	37
8	GRIA2	uc003ipm.4	Missense_Mutation	SNP	37
8	OR11G2	uc010tlb.2	Silent	SNP	37
8	LRP5	uc001ont.3	Silent	SNP	37
8	PANK4	uc001ajm.1	Missense_Mutation	SNP	37
8	KCND2	uc003vjj.1	Silent	SNP	37
8	FMNL3	uc001ruv.1	Nonsense_Mutation	SNP	37
8	EXOC3L2	uc002pay.1	Silent	SNP	37
8	OR56A4	uc010qzv.2	Silent	SNP	37
9	CAPNS1	uc002odi.1	In_Frame_Ins	INS	37
9	AQP12B	uc010fzj.3	Missense_Mutation	SNP	37
9	KCNH7	uc002uch.2	Missense_Mutation	SNP	37
9	PDGFRB	uc003lro.3	Missense_Mutation	SNP	37
9	TRIM37	uc002iwy.4	Missense_Mutation	SNP	37
9	BC112340	uc010grj.1	Intron	SNP	37
9	FBXO9	uc021zas.1	Missense_Mutation	SNP	37
9	ANKRD36	uc010yva.2	Missense_Mutation	SNP	37
9	KRTAP4-11	uc002hvx.3	Silent	SNP	37
9	KCNA3	uc001dzv.1	Missense_Mutation	SNP	37
9	GGT1	uc003aan.1	Silent	SNP	37
9	WASH7P	uc009vis.3	Intron	SNP	37
9	APC	uc003kpz.4	Missense_Mutation	SNP	37
9	MST1P2	uc010och.2	Non-coding_Transcript	SNP	37
9	UBR4	uc001bbi.3	Missense_Mutation	SNP	37
9	SLC6A11	uc003bvz.3	Missense_Mutation	SNP	37
9	NKAIN4	uc002yek.3	Missense_Mutation	SNP	37
9	TBCK	uc010ilv.2	Silent	SNP	37
9	ECSIT	uc002msb.3	Missense_Mutation	SNP	37
9	RPTOR	uc002jyt.1	Missense_Mutation	SNP	37
9	MUC20	uc010hzo.3	5'UTR	SNP	37
9	CSMD3	uc003ynu.3	Missense_Mutation	SNP	37
9	TTI1	uc002xhl.3	Silent	SNP	37
9	PLEKHA7	uc010rcu.1	Missense_Mutation	SNP	37
9	NCOR1P1	uc002wvj.4	3'UTR	SNP	37
9	DSCAM	uc002yyq.1	Missense_Mutation	SNP	37
9	RPTOR	uc002jyt.1	Missense_Mutation	SNP	37
9	UBTF	uc010czs.3	Missense_Mutation	SNP	37
9	MCC	uc003kql.4	Missense_Mutation	SNP	37
9	IPO5	uc001vne.3	Missense_Mutation	SNP	37
9	LUC7L3	uc002isr.3	Missense_Mutation	SNP	37
9	NIP7	uc002exa.3	5'UTR	SNP	37
9	KRTAP9-4	uc002hwi.3	Missense_Mutation	SNP	37
9	PRSS3	uc003ztl.4	Missense_Mutation	SNP	37

9	CLIP1	uc001ucg.2	Splice_Site	SNP	37
9	TTI2	uc003xjl.4	5'Flank	SNP	37
9	PDP1	uc011lgn.2	Silent	SNP	37
9	FLJ43315	uc003bnz.1	Non-coding_Transcript	SNP	37
9	TANC1	uc002uag.3	Missense_Mutation	SNP	37
9	SPOCK3	uc011cjq.1	Missense_Mutation	SNP	37
9	SLC5A3	uc002yto.3	Missense_Mutation	SNP	37
9	KRTAP10-6	uc002zfm.3	Missense_Mutation	SNP	37
9	FAM86EP	uc003ghn.3	Intron	SNP	37
9	DDX11L11	uc010sdi.1	Missense_Mutation	SNP	37
9	SLC4A2	uc022apz.1	Missense_Mutation	SNP	37
9	ANKRD36BP2	uc010fhf.3	Splice_Site	SNP	37
9	CAMTA1	uc001aoi.3	Missense_Mutation	SNP	37
9	NMNAT2	uc001gqc.2	Missense_Mutation	SNP	37
9	BC112340	uc010grj.1	Intron	SNP	37
9	SH3TC2	uc003lpu.3	Missense_Mutation	SNP	37
9	FOXP2	uc003vgz.3	Silent	SNP	37
10	DNAH17	uc010dhp.2	Missense_Mutation	SNP	37
10	CREBRF	uc003mch.3	Missense_Mutation	SNP	37
10	EMR2	uc002mzp.1	5'UTR	SNP	37
10	BC080605	uc004aex.3	Non-coding_Transcript	SNP	37
10	TNFAIP8L1	uc002max.3	3'UTR	SNP	37
10	abParts	uc021ser.1	Non-coding_Transcript	SNP	37
10	LAG3	uc001qqt.4	5'UTR	SNP	37
10	CSNK1A1P1	uc001zjg.4	Non-coding_Transcript	SNP	37
10	CROCCP2	uc001azg.1	Intron	SNP	37
10	RNF213	uc002jyh.2	Missense_Mutation	SNP	37
10	BRAF	uc003vwc.4	Silent	SNP	37
10	UBE4B	uc021ogc.1	Missense_Mutation	SNP	37
10	USP7	uc002czl.2	Missense_Mutation	SNP	37
10	C1QB	uc001bgd.3	Silent	SNP	37
10	ANKRD36C	uc002suz.1	5'UTR	SNP	37
10	MLL3	uc003wla.3	Silent	SNP	37
10	ANKRD36	uc010yva.2	Missense_Mutation	SNP	37
10	MGC70870	uc002kgk.4	Non-coding_Transcript	SNP	37
10	RNF213	uc002jyh.2	Missense_Mutation	SNP	37
10	PGF	uc001xqz.3	Missense_Mutation	SNP	37
10	LOC283788	uc022brb.1	Intron	SNP	37
10	UBE3C	uc010lqs.3	Missense_Mutation	SNP	37
10	AHNAK2	uc010axc.1	Missense_Mutation	SNP	37
10	HSD17B7	uc001gci.3	Missense_Mutation	SNP	37
10	BRAF	uc003vwc.4	Missense_Mutation	SNP	37
10	EMR2	uc002mzp.1	5'UTR	SNP	37

10	BC080605	uc004aex.3	Non-coding_Transcript	SNP	37
10	LOC283788	uc022brb.1	Intron	SNP	37
10	BPTF	uc002jge.3	Splice_Site	SNP	37
10	LOC389634	uc001quk.4	Silent	SNP	37
10	SLC25A23	uc002mex.1	Missense_Mutation	SNP	37
10	BC080605	uc004aex.3	Non-coding_Transcript	SNP	37
10	TECRL	uc003hcv.3	Silent	SNP	37
10	PCDHB10	uc003lix.3	Missense_Mutation	SNP	37
10	ADRA1A	uc003xfc.1	Silent	SNP	37
10	IRX4	uc003jcz.2	Silent	SNP	37
10	SYT1	uc001sys.3	Nonsense_Mutation	SNP	37
10	C6	uc003jmk.2	Missense_Mutation	SNP	37
10	SLC12A7	uc003jbu.3	Nonsense_Mutation	SNP	37
10	BPTF	uc002jgf.3	Silent	SNP	37
10	IRX4	uc003jcz.2	Silent	SNP	37
10	BRAF	uc003vwc.4	Splice_Site	SNP	37
10	CACNG2	uc003aps.2	Splice_Site	SNP	37
10	BICC1	uc001jkj.1	Silent	SNP	37
10	GH2	uc002jcl.1	Missense_Mutation	SNP	37
10	DUSP15	uc002wwx.1	Silent	SNP	37
10	MYH16	uc003upw.3	Splice_Site	SNP	37
10	BRAF	uc003vwc.4	Missense_Mutation	SNP	37
10	LOC389634	uc001quk.4	Missense_Mutation	SNP	37
10	GIMAP6	uc022apv.1	Silent	SNP	37
10	PTPLA	uc001iph.1	Missense_Mutation	SNP	37
10	RNF213	uc002jyh.2	Missense_Mutation	SNP	37
10	C1QTNF1	uc002jwr.4	5'UTR	SNP	37
10	SLC25A23	uc002mex.1	Missense_Mutation	SNP	37
10	LOC283788	uc022brb.1	Intron	SNP	37
10	PAPLN	uc010ttx.2	Silent	SNP	37
10	KIF1B	uc001aqz.3	Missense_Mutation	SNP	37
10	GCFC2	uc002sno.3	Missense_Mutation	SNP	37
10	NBPF10	uc021ouk.1	5'UTR	SNP	37
10	BAGE	uc002yit.1	3'UTR	SNP	37
10	CRTC2	uc021pab.1	Missense_Mutation	SNP	37
10	RNF213	uc002jyh.2	Missense_Mutation	SNP	37
10	TECRL	uc003hcv.3	Silent	SNP	37
10	COBL	uc003tps.3	Silent	SNP	37
10	CCL1	uc002hid.1	3'UTR	SNP	37
10	TRPV6	uc003wbx.2	Missense_Mutation	SNP	37
10	IRF9	uc001wmq.3	Silent	SNP	37
10	SLC12A7	uc003jbu.3	Nonsense_Mutation	SNP	37
10	NUDT8	uc001omo.2	Missense_Mutation	SNP	37



Chromosome	Start position	End position	Strand	Reference Allele	Tumor Seq Allele1
11	104874011	104874011	+	T	T
3	151148114	151148116	+	CAG	CAG
14	88945628	88945630	+	TCC	TCC
1	156815472	156815473	+	-	-
2	3405664	3405664	+	C	C
12	126137067	126137067	+	G	G
20	35293478	35293478	+	C	C
2	196699030	196699030	+	C	C
4	74270854	74270854	+	G	G
14	94083608	94083608	+	C	C
5	137475774	137475774	+	G	G
7	142749891	142749891	+	C	C
7	100679683	100679683	+	G	G
X	13061368	13061368	+	C	C
15	55912896	55912896	+	A	A
12	42858718	42858718	+	C	C
20	33519827	33519827	+	C	C
10	38121172	38121172	+	G	G
14	90651141	90651141	+	C	C
1	200971422	200971422	+	C	C
10	63212847	63212847	+	G	G
1	171254559	171254559	+	G	G
13	20412888	20412888	+	G	G
7	100675659	100675659	+	G	G
5	121739528	121739528	+	G	G
1	224190463	224190463	+	T	T
14	106518827	106518827	+	G	G
16	28911948	28911948	+	G	G
14	105609230	105609230	+	G	G
13	19414291	19414291	+	G	G
20	33805805	33805805	+	G	G
9	5163948	5163948	+	C	C
3	33866740	33866740	+	C	C
2	27263235	27263235	+	C	C
7	142448586	142448586	+	G	G
15	45724277	45724277	+	C	C
22	38522223	38522223	+	T	T
11	64517914	64517914	+	G	G
5	167420087	167420087	+	C	C
12	105557980	105557980	+	G	G



3	132036400	132036400	+	G	G
6	31674724	31674724	+	C	C
3	77657068	77657068	+	G	G
7	107423751	107423751	+	C	C
22	31487386	31487386	+	C	C
19	31025844	31025844	+	C	C
14	24546556	24546556	+	C	C
17	47123308	47123308	+	G	G
6	136599615	136599615	+	G	G
4	106405924	106405924	+	C	C
1	226925103	226925103	+	C	C
3	9859359	9859359	+	C	C
8	67976711	67976711	+	G	G
6	33333333	33333333	+	G	G
13	84455040	84455040	+	G	G
6	136597594	136597594	+	C	C
14	20528267	20528267	+	G	G
2	73677777	73677777	+	A	A
11	57886113	57886113	+	C	C
6	15497210	15497210	+	G	G
8	145724191	145724191	+	G	G
10	76719730	76719730	+	C	C
22	17073153	17073153	+	G	G
1	16969288	16969288	+	G	G
6	152756922	152756922	+	T	T
8	113988306	113988306	+	T	T
22	24659809	24659809	+	G	G
22	20295430	20295430	+	G	G
3	111799803	111799803	+	G	G
16	2289913	2289913	+	C	C
19	9088052	9088052	+	C	C
1	201861058	201861058	+	G	G
19	16860664	16860664	+	C	C
8	132002643	132002643	+	C	C
13	74387203	74387203	+	G	G
3	9787315	9787315	+	G	G
3	50326238	50326238	+	G	G
15	101606905	101606905	+	A	A
21	46600299	46600299	+	G	G
3	168845816	168845816	+	G	G
6	31901430	31901430	+	G	G
7	131872304	131872304	+	G	G
5	74055243	74055243	+	C	C

6	31689483	31689483	+	C	C
7	158526717	158526717	+	G	G
2	32475829	32475829	+	A	A
7	140453136	140453136	+	A	A
19	56390263	56390263	+	G	G
6	11213750	11213750	+	C	C
17	43101901	43101901	+	G	G
9	112020468	112020468	+	C	C
2	196699031	196699031	+	C	C
11	58482865	58482865	+	C	C
1	207787753	207787753	+	C	C
7	82996953	82996953	+	G	G
16	57762306	57762306	+	G	G
12	91502014	91502014	+	C	C
1	200877874	200877874	+	A	A
2	90229089	90229089	+	C	C
12	666859	666859	+	C	C
7	4150297	4150297	+	G	G
19	9063594	9063594	+	C	C
1	57378166	57378166	+	C	C
12	9583264	9583264	+	G	G
12	66597532	66597532	+	G	G
2	234775593	234775593	+	C	C
2	237489755	237489755	+	C	C
15	91172626	91172626	+	C	C
22	50277963	50277963	+	C	C
3	184038321	184038321	+	G	G
12	104077005	104077005	+	G	G
8	71069001	71069001	+	G	G
22	50277964	50277964	+	C	C
8	42591687	42591687	+	C	C
9	35548224	35548224	+	C	C
4	71232436	71232436	+	C	C
15	94841809	94841809	+	G	G
2	74652087	74652087	+	G	G
1	12337561	12337561	+	T	T
6	30128329	30128329	+	C	C
15	91769779	91769779	+	G	G
2	179498763	179498763	+	C	C
22	25243611	25243611	+	G	G
12	56088643	56088643	+	C	C
X	12939924	12939924	+	G	G
22	24659813	24659813	+	C	C

1	201861059	201861059	+	G	G
1	171544216	171544216	+	T	T
5	153390839	153390839	+	G	G
12	11506630	11506630	+	C	C
3	121345775	121345775	+	G	G
17	41019752	41019752	+	G	G
17	10426830	10426830	+	G	G
5	112175576	112175576	+	C	C
2	168726366	168726366	+	C	C
21	36252912	36252912	+	G	G
2	179600704	179600704	+	C	C
4	1803593	1803593	+	G	G
11	17793879	17793879	+	G	G
7	71177240	71177240	+	G	G
11	73102236	73102236	+	C	C
8	87162356	87162356	+	C	C
11	62931379	62931379	+	G	G
3	97887874	97887874	+	G	G
1	201190661	201190661	+	G	G
19	44159655	44159655	+	G	G
13	24895902	24895902	+	C	C
6	161491704	161491704	+	C	C
1	183895291	183895291	+	G	G
7	100815611	100815611	+	G	G
1	16969287	16969287	+	G	G
6	43322642	43322642	+	C	C
X	107464479	107464479	+	T	T
3	97983971	97983971	+	G	G
12	132400953	132400953	+	C	C
19	6702576	6702576	+	C	C
4	106405923	106405923	+	C	C
9	140946607	140946607	+	C	C
16	28915512	28915512	+	G	G
14	74824770	74824770	+	C	C
19	52869863	52869863	+	G	G
17	42162540	42162540	+	T	T
11	113852011	113852011	+	C	C
19	33355559	33355559	+	C	C
6	33333342	33333342	+	G	G
19	38910572	38910572	+	G	G
22	25043184	25043184	+	T	T
6	15497209	15497209	+	G	G
4	2910281	2910281	+	C	C

14	90770317	90770317	+	G	G
17	44249321	44249321	+	G	G
22	36702080	36702080	+	C	C
17	8222147	8222147	+	T	T
5	140744896	140744896	+	G	G
1	47610625	47610625	+	G	G
13	95696538	95696538	+	G	G
11	55322305	55322305	+	C	C
14	45623930	45623930	+	G	G
11	118007835	118007835	+	C	C
1	91851370	91851389	+	TTGTCAGATATTTTAAA\TTGTCAGATATTTTAAAT,	
1	94955347	94955348	+	CA	CA
2	102499112	102499112	+	T	T
2	152273140	152273140	+	C	C
3	112358412	112358412	+	G	G
3	193182788	193182794	+	AGAAGAT	AGAAGAT
8	145066862	145066862	+	C	C
10	93713527	93713527	+	T	T
17	29508455	29508480	+	GCCCTAAAGAAGGTTG\GCCCTAAAGAAGGTTGC	
17	30815405	30815405	+	C	C
17	48823194	48823216	+	iAAAAGACGAAGGGAA\GAAAAGACGAAGGGAAAG	
19	10787859	10787859	+	C	C
19	50542514	50542514	+	T	T
22	50921176	50921179	+	CCCC	CCCC
X	55650719	55650719	+	G	G
11	7982320	7982320	+	C	C
8	27823962	27823962	+	G	G
3	50229129	50229129	+	C	C
22	22869844	22869844	+	C	C
6	71004055	71004055	+	T	T
10	102249516	102249516	+	G	G
1	214549657	214549657	+	G	G
3	124560307	124560307	+	G	G
14	64749642	64749642	+	G	G
20	54824532	54824532	+	C	C
16	58019120	58019120	+	C	C
10	48413860	48413860	+	G	G
19	18271870	18271870	+	C	C
1	38227362	38227362	+	G	G
2	208866315	208866315	+	C	C
10	27317785	27317785	+	T	T
12	79685838	79685838	+	A	A
7	103363627	103363627	+	G	G

19	2222429	2222429	+	C	C
17	56271414	56271414	+	G	G
12	2789675	2789675	+	C	C
9	35957732	35957732	+	C	C
19	39847542	39847542	+	C	C
3	161221030	161221030	+	G	G
3	130162333	130162333	+	G	G
11	618736	618736	+	C	C
10	113928634	113928634	+	G	G
12	10961989	10961989	+	C	C
19	16664398	16664398	+	G	G
19	6940106	6940106	+	C	C
18	30350346	30350346	+	C	C
5	5464165	5464165	+	C	C
16	2158839	2158839	+	G	G
14	20443907	20443907	+	C	C
11	55587968	55587968	+	C	C
19	57649924	57649924	+	C	C
18	45567019	45567019	+	C	C
5	75505590	75505590	+	C	C
19	54502988	54502988	+	C	C
1	53558404	53558404	+	C	C
5	58511757	58511757	+	G	G
21	42748866	42748866	+	G	G
2	201470306	201470306	+	C	C
11	93800874	93800874	+	G	G
7	92761552	92761552	+	C	C
22	24659717	24659717	+	T	T
6	35393886	35393886	+	C	C
16	9856976	9856976	+	C	C
8	43147724	43147724	+	C	C
1	12251049	12251049	+	G	G
5	31983289	31983289	+	G	G
1	86591380	86591380	+	G	G
17	7400171	7400171	+	C	C
16	72107826	72107826	+	G	G
2	29294547	29294547	+	C	C
10	108536427	108536427	+	C	C
7	100682954	100682954	+	T	T
8	146029396	146029396	+	G	G
19	43430749	43430749	+	C	C
22	41721763	41721763	+	G	G
12	57581219	57581219	+	C	C

5	137354783	137354783	+	G	G
5	36049045	36049045	+	G	G
3	46008816	46008816	+	G	G
1	247588651	247588651	+	G	G
15	40916765	40916765	+	G	G
16	2168201	2168201	+	G	G
11	89867846	89867846	+	C	C
X	79279609	79279609	+	G	G
11	7693687	7693687	+	G	G
3	129155916	129155916	+	G	G
19	9064253	9064253	+	G	G
2	74432999	74432999	+	G	G
14	24655642	24655642	+	G	G
10	69672395	69672395	+	T	T
7	150815706	150815706	+	T	T
10	61831633	61831633	+	C	C
19	11507945	11507945	+	G	G
15	34295349	34295349	+	G	G
10	62149226	62149226	+	T	T
11	1643093	1643093	+	G	G
12	120966936	120966936	+	G	G
3	121340621	121340621	+	C	C
14	57092170	57092170	+	G	G
1	119957936	119957936	+	T	T
10	105350099	105350099	+	G	G
10	105048136	105048136	+	G	G
11	17538974	17538974	+	C	C
19	9086130	9086130	+	G	G
1	161019297	161019297	+	C	C
8	103662263	103662263	+	C	C
5	16067763	16067763	+	C	C
2	238234251	238234251	+	C	C
17	79512807	79512807	+	G	G
9	79323775	79323775	+	C	C
14	94394872	94394872	+	C	C
16	24960780	24960780	+	G	G
8	86352072	86352072	+	G	G
15	49776555	49776555	+	C	C
2	131976323	131976323	+	G	G
13	21549304	21549304	+	G	G
2	207173984	207173984	+	T	T
8	11412918	11412918	+	G	G
11	9610217	9610217	+	A	A

14	33292795	33292795	+	G	G
14	106236041	106236041	+	T	T
14	106174414	106174414	+	G	G
2	165947706	165947706	+	G	G
3	138724837	138724837	+	G	G
10	114575175	114575175	+	C	C
1	66075953	66075953	+	G	G
2	150305581	150305581	+	G	G
2	234545461	234545461	+	G	G
1	54607009	54607009	+	G	G
3	52729566	52729566	+	C	C
13	70314618	70314618	+	C	C
6	26217580	26217580	+	G	G
13	92003232	92003232	+	C	C
2	141215150	141215150	+	C	C
15	84287038	84287038	+	A	A
5	140559298	140559298	+	C	C
4	48993540	48993540	+	C	C
20	29628290	29628290	+	G	G
1	27056277	27056277	+	C	C
3	13381424	13381424	+	C	C
X	73961369	73961369	+	G	G
3	140406929	140406929	+	C	C
14	99641119	99641119	+	G	G
2	168105435	168105435	+	G	G
22	40819629	40819629	+	G	G
11	125325548	125325548	+	T	T
7	157903587	157903587	+	C	C
7	63538338	63538338	+	G	G
14	106877797	106877797	+	C	C
2	120634900	120634900	+	G	G
10	123298225	123298225	+	C	C
19	10335000	10335000	+	C	C
19	41515907	41515907	+	C	C
10	48428848	48428848	+	C	C
14	95909598	95909598	+	C	C
4	189068387	189068387	+	G	G
18	29450955	29450955	+	G	G
18	14754897	14754897	+	G	G
11	84865671	84865671	+	C	C
1	247486515	247486515	+	G	G
16	31429675	31429675	+	G	G
22	42341288	42341288	+	G	G

1	169483451	169483451	+	G	G
5	79030844	79030844	+	G	G
20	1456749	1456749	+	G	G
1	158815425	158815425	+	C	C
2	179426377	179426377	+	G	G
1	184772794	184772794	+	C	C
8	103664499	103664499	+	C	C
9	74587852	74587852	+	G	G
17	73738772	73738772	+	C	C
12	21918756	21918756	+	C	C
17	18022429	18022429	+	C	C
5	160886767	160886767	+	C	C
12	53453843	53453843	+	T	T
2	33745692	33745692	+	G	G
19	54800025	54800025	+	G	G
17	27284367	27284367	+	G	G
8	144940441	144940441	+	C	C
15	32929616	32929616	+	C	C
8	77763144	77763144	+	A	A
9	132404190	132404190	+	G	G
5	156589853	156589853	+	T	T
12	55248905	55248905	+	C	C
5	98212144	98212144	+	G	G
2	231041418	231041418	+	G	G
22	50715272	50715272	+	C	C
8	130774900	130774900	+	C	C
5	140536531	140536531	+	G	G
21	39870426	39870426	+	G	G
9	14812861	14812861	+	G	G
12	40013269	40013269	+	C	C
2	162821590	162821590	+	G	G
11	4567067	4567067	+	C	C
2	179441292	179441292	+	C	C
11	7335002	7335002	+	C	C
9	27202914	27202914	+	C	C
16	84256623	84256623	+	C	C
19	17692141	17692141	+	G	G
10	72610913	72610913	+	G	G
14	74376108	74376108	+	C	C
2	29226416	29226416	+	G	G
6	139210162	139210162	+	C	C
7	128455843	128455843	+	C	C
19	53885465	53885465	+	C	C



10	124330445	124330445	+	T	T
1	50659567	50659567	+	G	G
15	56386859	56386859	+	G	G
6	2770556	2770556	+	C	C
12	56500860	56500860	+	G	G
14	36840940	36840940	+	C	C
9	138714404	138714404	+	G	G
4	123269830	123269830	+	T	T
9	77339430	77339430	+	G	G
19	57640441	57640441	+	C	C
2	99013839	99013839	+	C	C
1	27056276	27056276	+	C	C
8	8185660	8185660	+	C	C
10	104123510	104123510	+	C	C
18	44549200	44549200	+	G	G
11	64037539	64037539	+	G	G
1	75038483	75038483	+	C	C
22	38109227	38109227	+	C	C
16	2808525	2808525	+	G	G
7	93055644	93055644	+	C	C
11	75115159	75115159	+	C	C
2	179426378	179426378	+	G	G
22	42486835	42486835	+	G	G
1	74507446	74507446	+	G	G
14	36841013	36841013	+	C	C
X	48326283	48326283	+	C	C
3	183823915	183823915	+	G	G
15	54919039	54919039	+	G	G
7	117242909	117242909	+	C	C
10	44866825	44866825	+	G	G
12	13906792	13906792	+	T	T
X	151909283	151909283	+	G	G
19	10747352	10747352	+	C	C
18	51013302	51013302	+	G	G
7	2962271	2962271	+	C	C
11	65113820	65113820	+	C	C
18	76886316	76886316	+	G	G
12	21665283	21665283	+	C	C
1	168073915	168073915	+	G	G
19	651796	651796	+	G	G
15	94882563	94882563	+	C	C
12	56089410	56089410	+	C	C
12	122691290	122691290	+	C	C

19	758017	758017	+	G	G
2	103130633	103130633	+	G	G
5	45396704	45396704	+	T	T
10	101829575	101829575	+	C	C
19	6495364	6495364	+	G	G
17	2604106	2604106	+	G	G
3	124369714	124369714	+	G	G
14	74967685	74967685	+	G	G
1	153277455	153277455	+	G	G
8	2820882	2820882	+	C	C
14	20482553	20482553	+	G	G
17	72613293	72613293	+	C	C
7	142650947	142650947	+	C	C
19	57967671	57967671	+	C	C
14	80130286	80130286	+	C	C
11	5373136	5373136	+	C	C
17	73945355	73945355	+	A	A
6	39824103	39824103	+	C	C
5	140769664	140769664	+	C	C
19	15272483	15272483	+	C	C
14	20019992	20019992	+	T	T
19	36592672	36592672	+	C	C
19	42930956	42930956	+	C	C
2	141291668	141291668	+	G	G
2	238285895	238285895	+	C	C
11	36614608	36614608	+	C	C
1	119474438	119474438	+	C	C
14	106134525	106134525	+	A	A
6	88854825	88854825	+	G	G
2	96803397	96803397	+	G	G
14	106579283	106579283	+	G	G
17	37901746	37901746	+	C	C
12	52886486	52886486	+	C	C
2	29226515	29226515	+	G	G
3	121712606	121712606	+	G	G
9	71152272	71152272	+	G	G
10	1779424	1779424	+	C	C
3	108812333	108812333	+	C	C
17	10446421	10446421	+	C	C
X	56295829	56295829	+	C	C
11	106810605	106810605	+	G	G
3	122215405	122215405	+	G	G
1	47571855	47571855	+	C	C

10	55949125	55949125	+	G	G
14	20822993	20822993	+	G	G
8	70744633	70744633	+	G	G
20	39991632	39991632	+	G	G
10	48370749	48370749	+	G	G
3	13612188	13612188	+	C	C
16	46963052	46963052	+	C	C
2	227954643	227954643	+	G	G
12	58176969	58176969	+	C	C
X	41469205	41469205	+	A	A
6	80982887	80982887	+	C	C
11	7960642	7960642	+	C	C
5	178139333	178139333	+	G	G
11	44957159	44957159	+	C	C
17	62045537	62045537	+	C	C
14	96937879	96937879	+	G	G
19	4294628	4294628	+	G	G
19	21300350	21300350	+	A	A
9	71627855	71627855	+	G	G
15	98984385	98984385	+	G	G
21	45535753	45535753	+	C	C
1	115537767	115537767	+	T	T
2	96934384	96934384	+	G	G
8	131179824	131179824	+	G	G
8	104664873	104664873	+	C	C
1	57399055	57399055	+	G	G
5	175581965	175581965	+	G	G
8	43173623	43173623	+	G	G
12	70732324	70732324	+	G	G
20	24646073	24646073	+	G	G
14	102550295	102550295	+	C	C
6	158504463	158504463	+	G	G
X	134030996	134030996	+	G	G
1	42048273	42048273	+	G	G
10	82040472	82040472	+	C	C
10	52595990	52595990	+	C	C
6	37622290	37622290	+	C	C
3	140178551	140178551	+	G	G
9	114304877	114304877	+	C	C
11	58190698	58190698	+	G	G
6	71004056	71004056	+	C	C
19	48893838	48893838	+	C	C
17	18154744	18154744	+	G	G

16	75204220	75204220	+	G	G
7	82584248	82584248	+	A	A
X	152482330	152482330	+	C	C
11	64569666	64569666	+	G	G
19	38850181	38850181	+	C	C
X	118230487	118230487	+	G	G
11	65792818	65792818	+	G	G
1	65339094	65339094	+	G	G
8	22104762	22104762	+	G	G
11	65124564	65124564	+	C	C
5	42718684	42718684	+	G	G
5	90077292	90077292	+	A	A
3	19479776	19479776	+	C	C
2	220099011	220099011	+	G	G
19	36255961	36255961	+	C	C
12	2904254	2904254	+	G	G
19	18004615	18004615	+	G	G
19	39688849	39688849	+	C	C
11	48145211	48145211	+	G	G
21	47537360	47537360	+	G	G
9	140943767	140943767	+	C	C
18	54398771	54398771	+	C	C
3	180372696	180372696	+	C	C
12	9020587	9020587	+	T	T
1	156814617	156814617	+	G	G
1	192127834	192127834	+	A	A
9	125424052	125424052	+	C	C
1	115524020	115524020	+	C	C
3	139173579	139173579	+	G	G
2	905822	905822	+	C	C
3	111886122	111886122	+	T	T
9	128322025	128322025	+	G	G
14	90485751	90485751	+	C	C
12	57569455	57569455	+	C	C
3	68802140	68802140	+	C	C
7	36366282	36366282	+	C	C
3	157098987	157098987	+	A	A
6	154481010	154481010	+	C	C
20	3128986	3128986	+	A	A
17	36876988	36876988	+	C	C
7	23826460	23826460	+	G	G
7	45699747	45699747	+	G	G
19	9076411	9076411	+	G	G

19	41386469	41386469	+	C	C
10	96267043	96267043	+	C	C
17	31416007	31416007	+	C	C
19	19766260	19766260	+	T	T
11	9431484	9431484	+	T	T
X	54985335	54985335	+	G	G
3	120408581	120408581	+	A	A
15	75562507	75562507	+	C	C
1	119427834	119427834	+	G	G
5	172341895	172341895	+	C	C
7	142655502	142655502	+	G	G
19	22363550	22363550	+	G	G
2	230902211	230902211	+	G	G
7	43447290	43447290	+	A	A
9	101911636	101911636	+	G	G
15	48500244	48500244	+	C	C
21	19704461	19704461	+	C	C
7	103198432	103198432	+	G	G
10	105812888	105812888	+	G	G
17	7577538	7577538	+	C	C
2	69553149	69553149	+	G	G
1	43803514	43803514	+	G	G
9	91661792	91661792	+	C	C
16	2290126	2290126	+	T	T
12	104377142	104377142	+	C	C
5	41181509	41181509	+	G	G
1	43909435	43909435	+	G	G
16	21823650	21823650	+	G	G
15	59500078	59500078	+	G	G
10	55582574	55582574	+	C	C
8	106814722	106814722	+	G	G
7	82435053	82435053	+	C	C
12	69250409	69250409	+	C	C
4	40778120	40778120	+	G	G
8	133925342	133925342	+	C	C
16	30794095	30794095	+	G	G
X	107431219	107431219	+	T	T
X	99956584	99956584	+	A	A
6	116289807	116289807	+	C	C
19	11529355	11529355	+	C	C
16	75512960	75512960	+	G	G
8	92982930	92982930	+	C	C
19	40739664	40739664	+	G	G

7	117003465	117003465	+	A	A
3	64617565	64617565	+	G	G
15	35084421	35084421	+	C	C
10	24508713	24508713	+	G	G
14	22592155	22592155	+	C	C
12	120966937	120966937	+	G	G
1	99771656	99771656	+	C	C
3	48459892	48459892	+	G	G
5	140481965	140481965	+	C	C
7	72419401	72419401	+	C	C
15	78475077	78475077	+	A	A
14	20822994	20822994	+	G	G
12	78225370	78225370	+	A	A
2	96078755	96078755	+	C	C
14	19553776	19553776	+	G	G
19	4544512	4544512	+	G	G
11	111614222	111614222	+	G	G
13	25049660	25049660	+	G	G
20	42232504	42232504	+	A	A
5	140249951	140249951	+	A	A
10	26482151	26482151	+	G	G
22	50217716	50217716	+	G	G
2	197187214	197187214	+	C	C
16	81134630	81134630	+	G	G
3	189706747	189706747	+	C	C
7	136912804	136912804	+	T	T
2	200136951	200136951	+	C	C
X	37300901	37300901	+	C	C
7	139655320	139655320	+	C	C
19	56329477	56329477	+	C	C
11	31648737	31648737	+	C	C
17	72346643	72346643	+	C	C
1	236761218	236761218	+	A	A
17	7834053	7834053	+	C	C
3	136240178	136240178	+	G	G
12	53552155	53552155	+	A	A
6	153310945	153310945	+	T	T
22	29454813	29454813	+	C	C
10	99359926	99359926	+	C	C
1	202284005	202284005	+	C	C
5	35774065	35774065	+	G	G
19	18731462	18731462	+	C	C
3	122215404	122215404	+	G	G

12	10339154	10339154	+	C	C
8	71646437	71646437	+	G	G
10	81060620	81060620	+	C	C
1	12183855	12183855	+	C	C
10	104836981	104836981	+	C	C
5	94289057	94289057	+	C	C
1	160098788	160098788	+	G	G
16	31332864	31332864	+	G	G
1	55473915	55473915	+	C	C
7	89901209	89901209	+	A	A
19	38028313	38028313	+	G	G
1	196646665	196646665	+	G	G
19	11944715	11944715	+	A	A
3	44893412	44893412	+	G	G
17	56232598	56232598	+	C	C
1	12785303	12785303	+	G	G
4	148461574	148461574	+	G	G
2	152138501	152138501	+	C	C
17	45822386	45822386	+	G	G
11	46727022	46727022	+	C	C
17	18154743	18154743	+	G	G
5	141244190	141244190	+	G	G
1	58521898	58521898	+	C	C
12	122097115	122097115	+	C	C
7	149517817	149517817	+	G	G
7	142832342	142832342	+	G	G
18	56820094	56820094	+	C	C
10	103912119	103912119	+	C	C
16	19547901	19547901	+	G	G
19	17370777	17370777	+	G	G
17	10399438	10399438	+	C	C
14	23346308	23346308	+	C	C
12	57488475	57488475	+	A	A
1	197019884	197019884	+	C	C
15	74908184	74908184	+	G	G
2	160728856	160728856	+	C	C
4	148985621	148985621	+	G	G
5	15928429	15928429	+	C	C
10	102048735	102048735	+	C	C
5	66426055	66426055	+	G	G
2	192701240	192701240	+	C	C
17	4936810	4936810	+	G	G
1	248059632	248059632	+	C	C

17	3921223	3921223	+	G	G
10	12238135	12238135	+	G	G
3	138724835	138724835	+	G	G
11	76871256	76871256	+	C	C
17	15848856	15848856	+	C	C
14	107113998	107113998	+	G	G
7	123296286	123296286	+	G	G
17	79632642	79632642	+	T	T
6	149699239	149699239	+	C	C
15	66625105	66625105	+	A	A
19	14294438	14294438	+	G	G
5	178418939	178418939	+	G	G
3	157098986	157098986	+	G	G
17	60483859	60483859	+	C	C
7	141740578	141740578	+	A	A
7	16722403	16722403	+	A	A
20	377029	377029	+	C	C
17	72348975	72348975	+	A	A
X	69639960	69639960	+	C	C
10	135350613	135350613	+	C	C
6	37403498	37403498	+	C	C
17	37331838	37331838	+	G	G
2	137872755	137872755	+	G	G
17	6690878	6690878	+	C	C
7	143701809	143701809	+	C	C
14	23416390	23416390	+	G	G
10	75533671	75533671	+	A	A
11	3037035	3037035	+	G	G
10	61023879	61023879	+	C	C
1	247486516	247486516	+	G	G
1	196927048	196927048	+	C	C
7	4965111	4965111	+	C	C
16	57917966	57917966	+	C	C
17	42398142	42398142	+	G	G
11	64535583	64535583	+	G	G
1	28559512	28559512	+	C	C
11	7059931	7059931	+	G	G
3	194062051	194062051	+	C	C
10	115603906	115603906	+	G	G
2	100170942	100170942	+	C	C
1	63894683	63894683	+	C	C
15	78894423	78894423	+	G	G
3	121822487	121822487	+	C	C



3	195711046	195711046	+	G	G
8	93023177	93023177	+	C	C
1	51754578	51754578	+	C	C
9	4622434	4622434	+	G	G
15	66841033	66841033	+	G	G
1	110906280	110906280	+	C	C
2	166848630	166848630	+	G	G
20	54573577	54573577	+	C	C
2	132290315	132290315	+	C	C
19	41808473	41808473	+	C	C
X	122737276	122737276	+	G	G
8	55541830	55541830	+	G	G
22	32015560	32015560	+	G	G
16	89346438	89346438	+	G	G
11	46727023	46727023	+	C	C
1	159275977	159275977	+	G	G
2	179495629	179495629	+	C	C
14	75142488	75142488	+	C	C
3	111981916	111981916	+	A	A
X	101971194	101971194	+	G	G
14	104493110	104493110	+	C	C
19	16435701	16435701	+	C	C
2	166536266	166536266	+	G	G
1	177250267	177250267	+	C	C
6	30114977	30114977	+	C	C
8	71499169	71499169	+	G	G
10	78651355	78651355	+	C	C
11	48510571	48510571	+	C	C
16	46713039	46713039	+	G	G
7	150217381	150217381	+	G	G
4	47647182	47647182	+	G	G
7	39491250	39491250	+	C	C
12	42512917	42512917	+	C	C
16	15818718	15818718	+	C	C
7	98445847	98445847	+	G	G
X	127186308	127186308	+	C	C
3	155203356	155203356	+	C	C
7	72714554	72714554	+	G	G
6	123101545	123101545	+	G	G
7	48311791	48311791	+	C	C
7	33020055	33020055	+	C	C
7	14216393	14216393	+	A	A
6	7590595	7590595	+	C	C

X	16876974	16876974	+	T	T
8	110455971	110455971	+	G	G
2	86993128	86993128	+	G	G
12	4870136	4870136	+	G	G
7	148544285	148544285	+	C	C
14	20404190	20404190	+	G	G
2	27551410	27551410	+	C	C
1	44084840	44084840	+	C	C
11	76727768	76727768	+	C	C
19	58067447	58067447	+	G	G
20	42635265	42635265	+	C	C
9	137591910	137591910	+	G	G
4	38698916	38698916	+	C	C
16	29883583	29883583	+	G	G
5	15928373	15928373	+	C	C
14	28734047	28734047	+	G	G
1	232539256	232539256	+	C	C
2	167322423	167322423	+	A	A
7	27135349	27135349	+	G	G
2	62104159	62104159	+	C	C
1	180151426	180151426	+	C	C
8	93029740	93029740	+	G	G
7	81358994	81358994	+	C	C
12	69252816	69252816	+	G	G
15	41961036	41961036	+	C	C
1	248224771	248224771	+	C	C
17	48653386	48653386	+	C	C
12	12278336	12278336	+	G	G
12	70794080	70794080	+	C	C
16	50346945	50346945	+	G	G
9	87563491	87563491	+	G	G
6	30126250	30126250	+	C	C
5	32072395	32072395	+	G	G
19	10514259	10514259	+	G	G
6	32190781	32190781	+	C	C
11	55062863	55062863	+	G	G
1	248112947	248112947	+	C	C
10	81373975	81373975	+	C	C
17	50235343	50235343	+	C	C
3	126137585	126137585	+	G	G
15	33962711	33962711	+	C	C
2	228881545	228881545	+	G	G
1	203798738	203798738	+	C	C

3	122247560	122247560	+	G	G
X	77912994	77912994	+	G	G
15	75649201	75649201	+	C	C
17	4111336	4111336	+	C	C
6	143793406	143793406	+	T	T
22	46611173	46611173	+	C	C
14	77257642	77257642	+	G	G
5	121786825	121786825	+	C	C
3	37458845	37458845	+	C	C
3	125879717	125879717	+	C	C
21	11014998	11014998	+	G	G
16	7760684	7760684	+	C	C
17	76046047	76046047	+	C	C
10	124380742	124380742	+	C	C
10	68687255	68687255	+	G	G
19	19766258	19766258	+	G	G
6	31827629	31827629	+	G	G
14	22322298	22322298	+	G	G
3	127399604	127399604	+	C	C
7	24738798	24738798	+	C	C
2	21230881	21230881	+	G	G
6	84117546	84117546	+	C	C
19	38857945	38857945	+	C	C
9	104432549	104432549	+	G	G
16	67696068	67696068	+	G	G
1	110655239	110655239	+	G	G
5	79032435	79032435	+	G	G
14	51089961	51089961	+	G	G
11	63283168	63283168	+	C	C
20	45865220	45865220	+	G	G
17	54450107	54450107	+	C	C
15	54025235	54025235	+	C	C
9	90749724	90749724	+	G	G
7	103368592	103368592	+	A	A
7	83047777	83047777	+	G	G
X	18192286	18192286	+	G	G
19	38995970	38995970	+	G	G
18	29419318	29419318	+	G	G
6	66205396	66205396	+	T	T
18	6213189	6213189	+	G	G
4	175710058	175710058	+	A	A
17	4927589	4927589	+	G	G
17	65714151	65714151	+	A	A

19	2222430	2222430	+	C	C
12	18891529	18891529	+	C	C
10	30749641	30749641	+	C	C
8	114186119	114186119	+	G	G
10	102256066	102256066	+	G	G
13	21265261	21265261	+	G	G
11	123847856	123847856	+	G	G
16	57732829	57732829	+	G	G
1	67148032	67148032	+	C	C
11	102584055	102584055	+	G	G
9	79320808	79320808	+	C	C
18	43462430	43462430	+	C	C
8	22974644	22974644	+	C	C
14	92909797	92909797	+	C	C
11	134104911	134104911	+	C	C
19	19545925	19545925	+	A	A
17	42335428	42335428	+	G	G
7	128766904	128766904	+	G	G
3	53153976	53153976	+	G	G
19	55176681	55176681	+	G	G
8	10583816	10583816	+	C	C
13	70275882	70275882	+	C	C
11	58746381	58746381	+	G	G
6	136599579	136599579	+	G	G
7	150720253	150720253	+	G	G
20	44003993	44003993	+	C	C
6	100368842	100368842	+	C	C
6	28540442	28540442	+	C	C
1	62676880	62676880	+	A	A
20	55043718	55043718	+	T	T
8	121256236	121256236	+	C	C
19	45515238	45515238	+	G	G
9	138671311	138671311	+	G	G
6	25726761	25726761	+	C	C
7	142658514	142658514	+	G	G
5	79355647	79355647	+	C	C
19	51628575	51628575	+	G	G
5	78347173	78347173	+	C	C
14	53100586	53100586	+	G	G
9	140100126	140100126	+	C	C
6	73951939	73951939	+	C	C
3	119812430	119812430	+	C	C
1	11736958	11736958	+	G	G

7	141755472	141755472	+	G	G
19	7854766	7854766	+	G	G
1	119428018	119428018	+	G	G
14	61180912	61180912	+	G	G
4	118975189	118975189	+	G	G
16	9984935	9984935	+	C	C
2	27156166	27156166	+	C	C
20	8632083	8632083	+	G	G
12	58125381	58125381	+	C	C
1	46500983	46500983	+	C	C
10	72610912	72610912	+	G	G
7	34884512	34884512	+	G	G
1	164789315	164789315	+	C	C
21	14414908	14414908	+	G	G
7	4153706	4153706	+	C	C
15	93015445	93015445	+	G	G
3	161221183	161221183	+	G	G
12	93150115	93150115	+	C	C
X	88009010	88009010	+	C	C
5	55202106	55202106	+	G	G
10	116975529	116975529	+	G	G
3	50602984	50602984	+	G	G
15	74588234	74588234	+	C	C
10	82096058	82096058	+	G	G
20	31626759	31626759	+	C	C
6	152861113	152861113	+	G	G
9	140852140	140852140	+	G	G
3	47050784	47050784	+	G	G
8	121383479	121383479	+	G	G
18	22907626	22907626	+	T	T
2	97494370	97494370	+	G	G
2	202525070	202525070	+	C	C
14	88904698	88904698	+	C	C
5	72469680	72469680	+	G	G
12	85449538	85449538	+	G	G
19	18330307	18330307	+	C	C
4	142053660	142053660	+	G	G
10	102306904	102306904	+	C	C
9	27206724	27206724	+	C	C
7	1586639	1586639	+	C	C
12	51890899	51890899	+	G	G
7	82455951	82455951	+	G	G
1	75681462	75681462	+	A	A

11	134188972	134188972	+	C	C
11	63585315	63585315	+	C	C
8	10583747	10583747	+	G	G
8	75761441	75761441	+	C	C
16	90162492	90162492	+	C	C
2	241530282	241530282	+	C	C
18	60036629	60036629	+	C	C
19	13319654	13319654	+	C	C
17	74383618	74383618	+	C	C
20	30421576	30421576	+	G	G
13	38357147	38357147	+	G	G
14	57092171	57092171	+	G	G
5	80388680	80388680	+	C	C
14	19553777	19553777	+	G	G
12	46591789	46591789	+	G	G
16	19498580	19498580	+	C	C
X	131206366	131206366	+	C	C
14	78709833	78709833	+	G	G
3	64641360	64641360	+	G	G
2	135616903	135616903	+	C	C
12	48962875	48962875	+	G	G
7	154875982	154875982	+	G	G
4	77003118	77003118	+	G	G
22	40759063	40759063	+	C	C
9	32631906	32631906	+	G	G
5	112102945	112102945	+	C	C
1	248737360	248737360	+	C	C
18	10672701	10672701	+	G	G
10	105832981	105832981	+	C	C
5	45262090	45262090	+	C	C
2	55433405	55433405	+	C	C
19	11417269	11417269	+	C	C
9	130688240	130688240	+	G	G
20	62838966	62838966	+	C	C
14	19378025	19378025	+	C	C
17	38324528	38324528	+	C	C
22	50722136	50722136	+	G	G
4	188924973	188924973	+	G	G
19	17692142	17692142	+	G	G
21	11058339	11058339	+	G	G
5	137803037	137803037	+	G	G
18	46284342	46284342	+	C	C
14	55458080	55458080	+	C	C

4	78804479	78804479	+	C	C
16	28137118	28137118	+	G	G
2	61577792	61577792	+	G	G
16	90160969	90160969	+	G	G
8	113293423	113293423	+	C	C
4	189068451	189068451	+	C	C
5	140531395	140531395	+	C	C
11	49974494	49974494	+	C	C
3	47823098	47823098	+	T	T
2	160692054	160692054	+	C	C
3	189713187	189713187	+	G	G
1	158300760	158300760	+	C	C
1	197057487	197057487	+	G	G
16	50818355	50818355	+	C	C
X	132838301	132838301	+	C	C
2	189876652	189876652	+	G	G
2	79312367	79312367	+	G	G
14	103807434	103807434	+	T	T
5	177669349	177669349	+	C	C
2	179742794	179742794	+	G	G
10	91177187	91177187	+	A	A
5	13753592	13753592	+	A	A
3	148600347	148600347	+	C	C
7	619011	619011	+	G	G
6	2770555	2770555	+	C	C
15	73562445	73562445	+	C	C
18	54814841	54814841	+	G	G
5	176519908	176519908	+	G	G
11	5537573	5537573	+	C	C
5	140594186	140594186	+	G	G
7	99092083	99092083	+	G	G
X	41204569	41204569	+	G	G
8	71036984	71036984	+	G	G
7	23731200	23731200	+	G	G
16	30992384	30992384	+	C	C
2	113788718	113788718	+	T	T
8	17422631	17422631	+	C	C
11	6648873	6648873	+	G	G
9	5920261	5920261	+	A	A
14	22616566	22616566	+	G	G
2	100210299	100210299	+	G	G
20	56136615	56136615	+	G	G
7	76796989	76796989	+	G	G

2	130832851	130832851	+	G	G
X	118724139	118724139	+	G	G
17	44061161	44061161	+	C	C
17	43181199	43181199	+	C	C
8	70550998	70550998	+	G	G
3	168834378	168834378	+	C	C
1	60506799	60506799	+	G	G
16	3165597	3165597	+	T	T
19	47935411	47935411	+	C	C
7	128297857	128297857	+	C	C
14	96707751	96707751	+	G	G
11	64847020	64847020	+	G	G
6	97246308	97246308	+	A	A
14	23817113	23817113	+	G	G
1	37948511	37948511	+	C	C
6	47647852	47647852	+	A	A
7	143792221	143792221	+	G	G
12	7654044	7654044	+	C	C
1	144854182	144854182	+	C	C
2	38978507	38978507	+	G	G
19	1877496	1877496	+	G	G
19	52272365	52272365	+	C	C
22	19220972	19220972	+	G	G
6	152748924	152748924	+	C	C
7	64292202	64292202	+	C	C
8	14022131	14022131	+	C	C
5	13817692	13817692	+	G	G
3	196733530	196733530	+	C	C
1	156144686	156144686	+	C	C
8	55542260	55542260	+	G	G
7	86493633	86493633	+	G	G
5	150663658	150663658	+	C	C
8	7308374	7308374	+	C	C
3	48683211	48683211	+	C	C
15	67713895	67713895	+	C	C
20	62038082	62038082	+	A	A
11	5068292	5068292	+	C	C
7	82545060	82545060	+	C	C
8	39103634	39103634	+	G	G
7	95818638	95818638	+	G	G
5	73163841	73163841	+	G	G
20	4850528	4850528	+	G	G
1	220152783	220152783	+	G	G



12	79685830	79685830	+	G	G
11	111835370	111835370	+	G	G
14	22471846	22471846	+	C	C
6	46190752	46190752	+	G	G
19	17950312	17950312	+	G	G
3	52426672	52426672	+	G	G
7	139661795	139661795	+	C	C
19	4323231	4323231	+	C	C
18	644941	644941	+	C	C
1	39815220	39815220	+	A	A
7	81350155	81350155	+	G	G
15	72454278	72454278	+	G	G
11	128709313	128709313	+	C	C
X	138619524	138619524	+	G	G
12	52841042	52841042	+	C	C
2	31569643	31569643	+	C	C
11	1718712	1718712	+	C	C
12	7869588	7869588	+	C	C
19	10419099	10419099	+	G	G
10	26513579	26513579	+	C	C
1	240371421	240371421	+	C	C
16	24582988	24582988	+	C	C
1	110149038	110149038	+	C	C
2	238287861	238287861	+	C	C
3	184009006	184009006	+	G	G
8	22104763	22104763	+	G	G
19	19766259	19766259	+	G	G
16	3433671	3433671	+	T	T
21	43913099	43913099	+	C	C
19	35422839	35422839	+	C	C
9	33240251	33240251	+	C	C
19	44513039	44513039	+	T	T
1	152280374	152280374	+	G	G
6	139495580	139495580	+	C	C
5	169031154	169031154	+	C	C
6	119345564	119345564	+	C	C
7	75932258	75932258	+	C	C
17	6023702	6023702	+	G	G
11	111154989	111154989	+	G	G
17	38933284	38933284	+	G	G
2	71190730	71190730	+	G	G
10	49654598	49654598	+	C	C
2	145154007	145154007	+	G	G

7	95157692	95157692	+	A	A
8	93023178	93023178	+	C	C
14	92139290	92139290	+	C	C
11	78516405	78516405	+	C	C
2	170147476	170147476	+	G	G
19	44050822	44050822	+	G	G
1	162324998	162324998	+	A	A
8	141301118	141301118	+	G	G
22	24086278	24086278	+	G	G
2	141079628	141079628	+	C	C
5	168093429	168093429	+	C	C
16	53326833	53326833	+	G	G
8	48114131	48114131	+	G	G
6	136603760	136603760	+	T	T
13	33741688	33741688	+	C	C
10	135101651	135101651	+	G	G
6	97594656	97594656	+	A	A
7	128297858	128297858	+	C	C
16	19067875	19067875	+	C	C
2	167055739	167055739	+	C	C
12	31283451	31283451	+	C	C
16	1417820	1417820	+	G	G
15	22414169	22414169	+	C	C
2	179598590	179598590	+	C	C
12	102590939	102590939	+	G	G
19	39663980	39663980	+	G	G
15	72494809	72494809	+	G	G
20	13273048	13273048	+	C	C
X	77302104	77302104	+	G	G
15	33954446	33954446	+	G	G
12	9571083	9571083	+	C	C
11	64116902	64116902	+	C	C
1	152284729	152284729	+	C	C
10	31138420	31138420	+	A	A
22	22697938	22697938	+	G	G
1	119965060	119965060	+	C	C
2	96803432	96803432	+	G	G
1	52285513	52285513	+	G	G
1	37270474	37270474	+	T	T
3	69987152	69987152	+	C	C
X	37587142	37587142	+	C	C
17	11701085	11701085	+	C	C
14	79175869	79175869	+	G	G

1	236738070	236738070	+	G	G
1	54344038	54344038	+	G	G
7	158334250	158334250	+	G	G
17	10427954	10427954	+	C	C
19	12976561	12976561	+	C	C
7	156974971	156974971	+	G	G
7	100490408	100490408	+	G	G
12	49259638	49259638	+	C	C
X	151869643	151869643	+	G	G
5	172535678	172535678	+	C	C
18	6961602	6961602	+	G	G
19	7677352	7677352	+	C	C
1	57480591	57480591	+	G	G
1	201197635	201197635	+	G	G
4	169812072	169812072	+	G	G
10	75277311	75277311	+	G	G
6	33334050	33334050	+	C	C
12	104651827	104651827	+	C	C
1	228598832	228598832	+	T	T
19	44833658	44833658	+	C	C
7	150815705	150815705	+	G	G
19	1115968	1115968	+	G	G
19	868239	868239	+	G	G
11	1778746	1778746	+	C	C
7	101821761	101821761	+	G	G
11	5221851	5221851	+	G	G
19	52825612	52825612	+	C	C
19	20808217	20808217	+	G	G
16	1470551	1470551	+	G	G
3	32804539	32804539	+	C	C
X	18182903	18182903	+	A	A
18	21399891	21399891	+	G	G
17	19316496	19316496	+	G	G
17	76558012	76558012	+	C	C
9	23701496	23701496	+	G	G
19	16435702	16435702	+	C	C
7	14652981	14652981	+	C	C
8	136594218	136594218	+	C	C
2	71886137	71886137	+	C	C
17	26965416	26965416	+	G	G
19	16918497	16918497	+	C	C
1	1229568	1229568	+	G	G
20	44333637	44333637	+	G	G

5	137354782	137354782	+	G	G
2	73678243	73678243	+	C	C
16	20975060	20975060	+	C	C
5	70922576	70922576	+	C	C
17	79478816	79478816	+	G	G
6	116879256	116879256	+	C	C
9	132404189	132404189	+	G	G
15	51991527	51991527	+	G	G
19	58046621	58046621	+	C	C
1	31783002	31783002	+	C	C
17	7592117	7592117	+	C	C
2	231090546	231090546	+	C	C
5	142416821	142416821	+	C	C
10	135015293	135015293	+	G	G
5	160097553	160097553	+	C	C
19	6821818	6821818	+	G	G
16	7743332	7743332	+	C	C
22	25294081	25294081	+	C	C
10	88227215	88227215	+	G	G
1	154919126	154919126	+	C	C
11	40137376	40137376	+	C	C
13	28609673	28609673	+	G	G
19	56203234	56203234	+	T	T
15	51687104	51687104	+	G	G
11	34097975	34097975	+	G	G
8	52567284	52567284	+	C	C
1	53543385	53543385	+	G	G
10	86001149	86001149	+	G	G
15	31295245	31295245	+	C	C
11	4825161	4825161	+	G	G
15	77406765	77406765	+	G	G
7	142573374	142573374	+	C	C
22	24584408	24584408	+	G	G
2	102956661	102956661	+	G	G
5	170145766	170145766	+	G	G
5	57913671	57913671	+	G	G
17	40353682	40353682	+	C	C
16	10867176	10867176	+	C	C
8	57354009	57354009	+	C	C
9	12709240	12709240	+	G	G
11	77301540	77301540	+	T	T
5	64748576	64748576	+	G	G
5	42719061	42719061	+	C	C

7	44190560	44190560	+	C	C
17	3593740	3593740	+	C	C
3	24188205	24188205	+	G	G
16	30992385	30992385	+	C	C
7	96810373	96810373	+	C	C
14	94173297	94173297	+	G	G
5	139216414	139216414	+	G	G
1	55457629	55457629	+	G	G
6	32783080	32783080	+	C	C
17	36499017	36499017	+	C	C
19	22157111	22157111	+	G	G
18	12325889	12325889	+	C	C
1	181684475	181684475	+	G	G
19	9083789	9083789	+	C	C
14	95053802	95053802	+	C	C
22	37769860	37769860	+	G	G
10	74267951	74267951	+	G	G
15	22382673	22382673	+	C	C
1	241675292	241675292	+	G	G
X	86873048	86873048	+	C	C
5	128957891	128957891	+	G	G
9	104124814	104124814	+	C	C
16	74640603	74640603	+	G	G
15	76797212	76797212	+	C	C
19	58862962	58862962	+	G	G
12	57005672	57005672	+	G	G
11	59415384	59415384	+	G	G
12	50400408	50400408	+	A	A
19	9076614	9076614	+	G	G
2	31010119	31010119	+	G	G
14	107013154	107013154	+	G	G
5	145439782	145439782	+	G	G
17	45822388	45822388	+	G	G
8	57228615	57228615	+	C	C
19	39914721	39914721	+	C	C
16	12497346	12497346	+	T	T
12	21329826	21329826	+	G	G
17	62817937	62817937	+	C	C
14	24877723	24877723	+	C	C
11	117281572	117281572	+	C	C
20	48497496	48497496	+	C	C
14	76429703	76429703	+	C	C
22	44107498	44107498	+	C	C

19	39924255	39924255	+	G	G
X	105450886	105450886	+	C	C
12	55523876	55523876	+	C	C
7	99359693	99359693	+	C	C
6	152776599	152776599	+	C	C
8	86025334	86025334	+	G	G
16	49411676	49411676	+	G	G
19	9075562	9075562	+	G	G
19	10291119	10291119	+	G	G
17	43181200	43181200	+	C	C
15	53908356	53908356	+	G	G
11	3022197	3022197	+	C	C
8	143569727	143569727	+	C	C
19	18420554	18420554	+	G	G
19	56935414	56935414	+	C	C
19	38229213	38229213	+	C	C
3	133478170	133478170	+	C	C
19	32844669	32844669	+	G	G
3	37584030	37584030	+	T	T
3	39159567	39159567	+	G	G
8	16007817	16007817	+	G	G
11	67186892	67186892	+	G	G
5	65459667	65459667	+	C	C
1	12921509	12921509	+	C	C
17	26087109	26087109	+	C	C
1	156268876	156268876	+	C	C
22	17178619	17178619	+	T	T
12	57005673	57005673	+	G	G
19	8595449	8595449	+	G	G
6	17543167	17543167	+	G	G
5	102326031	102326031	+	G	G
5	139751183	139751183	+	C	C
18	14810125	14810125	+	G	G
11	57466129	57466129	+	C	C
4	164394172	164394172	+	G	G
9	130478304	130478304	+	C	C
11	72560919	72560919	+	C	C
12	13906841	13906841	+	G	G
3	37818936	37818936	+	C	C
1	25715535	25715535	+	G	G
3	24138140	24138140	+	C	C
2	138169587	138169587	+	G	G
2	74732206	74732206	+	G	G

15	43568754	43568754	+	T	T
5	176016169	176016169	+	C	C
19	56421982	56421982	+	C	C
16	20565157	20565157	+	G	G
1	160325494	160325494	+	C	C
12	56221307	56221307	+	G	G
7	35204550	35204550	+	G	G
5	149755432	149755432	+	C	C
11	111835369	111835369	+	G	G
11	1778747	1778747	+	C	C
20	3193998	3193998	+	C	C
8	37727883	37727883	+	G	G
20	46275859	46275859	+	G	G
8	70980588	70980588	+	G	G
7	128486940	128486940	+	C	C
8	98731331	98731331	+	A	A
2	71256863	71256863	+	G	G
6	26422353	26422353	+	C	C
2	182766810	182766810	+	C	C
3	159482259	159482259	+	G	G
8	67514724	67514724	+	G	G
5	150565651	150565651	+	G	G
2	179531599	179531599	+	C	C
3	113440551	113440551	+	G	G
8	144550389	144550389	+	G	G
18	55143819	55143819	+	C	C
16	614223	614223	+	G	G
15	42162682	42162682	+	C	C
16	25258337	25258337	+	G	G
17	47246195	47246195	+	C	C
17	41585748	41585748	+	A	A
7	135345012	135345012	+	C	C
10	124338276	124338276	+	G	G
10	37507929	37507929	+	G	G
17	6406888	6406888	+	C	C
12	117710322	117710322	+	G	G
1	169347677	169347677	+	C	C
7	142724217	142724217	+	C	C
1	86590635	86590635	+	C	C
3	50369596	50369596	+	G	G
X	140926169	140926169	+	A	A
17	36724478	36724478	+	G	G
9	32635583	32635583	+	G	G

3	42954725	42954725	+	C	C
5	78350050	78350050	+	G	G
8	10470689	10470689	+	C	C
8	41530391	41530391	+	G	G
10	91067097	91067097	+	C	C
9	78784751	78784751	+	C	C
11	34098181	34098181	+	G	G
19	13323029	13323029	+	G	G
12	119589004	119589004	+	G	G
14	106173717	106173717	+	C	C
12	112590789	112590789	+	C	C
2	116520186	116520186	+	G	G
1	218578649	218578649	+	C	C
1	180775305	180775305	+	T	T
19	43428886	43428886	+	G	G
14	51238096	51238096	+	G	G
2	226378233	226378233	+	C	C
17	40850824	40850824	+	C	C
12	27465599	27465599	+	C	C
12	7175042	7175042	+	G	G
19	49223871	49223871	+	C	C
18	59217224	59217224	+	G	G
8	77618880	77618880	+	C	C
19	51361326	51361326	+	C	C
3	121340810	121340810	+	C	C
5	38352423	38352423	+	G	G
2	95511161	95511161	+	C	C
22	30858094	30858094	+	C	C
12	18435047	18435047	+	C	C
3	49845461	49845461	+	G	G
11	121016576	121016576	+	C	C
18	47429096	47429096	+	G	G
19	45322020	45322020	+	G	G
18	60036628	60036628	+	C	C
17	74155538	74155538	+	G	G
7	127228581	127228581	+	C	C
16	84203572	84203572	+	A	A
5	140530398	140530398	+	G	G
16	10867175	10867175	+	A	A
13	96601613	96601613	+	G	G
1	75072570	75072570	+	C	C
19	10097098	10097098	+	C	C
7	141722237	141722237	+	G	G



2	234386086	234386086	+	G	G
18	72775254	72775254	+	C	C
15	53994475	53994475	+	C	C
7	138764835	138764835	+	G	G
3	101390318	101390318	+	G	G
14	22192557	22192557	+	C	C
7	82595650	82595650	+	G	G
6	149699690	149699690	+	C	C
12	75698614	75698614	+	T	T
1	119427833	119427833	+	G	G
21	46702212	46702212	+	G	G
2	179577951	179577951	+	C	C
3	182751854	182751854	+	G	G
8	131861848	131861848	+	G	G
5	10981959	10981959	+	C	C
1	1849127	1849127	+	C	C
14	64494443	64494443	+	C	C
1	247920791	247920791	+	G	G
2	128409071	128409071	+	C	C
14	23596443	23596443	+	G	G
14	21899011	21899011	+	G	G
3	184090430	184090430	+	G	G
13	49281881	49281881	+	G	G
20	49224982	49224982	+	G	G
16	3405995	3405995	+	G	G
19	1923149	1923149	+	C	C
16	67696067	67696067	+	G	G
12	126138590	126138590	+	G	G
1	159505536	159505536	+	G	G
19	51770669	51770669	+	G	G
14	20249338	20249338	+	C	C
9	79792696	79792696	+	C	C
16	53692337	53692337	+	G	G
6	123101546	123101546	+	G	G
22	50720784	50720784	+	G	G
10	95987089	95987089	+	C	C
17	7163985	7163985	+	T	T
19	48919292	48919292	+	T	T
17	39911912	39911912	+	G	G
19	10132443	10132443	+	G	G
17	18181337	18181337	+	C	C
4	15835907	15835907	+	G	G
5	159776033	159776033	+	G	G

2	130877741	130877741	+	C	C
7	99092082	99092082	+	G	G
1	74507447	74507447	+	G	G
11	55606767	55606767	+	C	C
14	90770701	90770701	+	G	G
16	72828892	72828892	+	G	G
3	161214749	161214749	+	C	C
17	29631216	29631216	+	T	T
10	87615875	87615875	+	T	T
19	54545592	54545592	+	G	G
9	111911925	111911925	+	C	C
6	28327460	28327460	+	G	G
19	43772073	43772073	+	C	C
8	10177417	10177417	+	G	G
6	29639274	29639274	+	G	G
16	56374763	56374763	+	C	C
19	48306145	48306145	+	G	G
10	96701746	96701746	+	C	C
1	43909436	43909436	+	G	G
12	4554558	4554558	+	C	C
11	72407661	72407661	+	C	C
5	80409412	80409412	+	G	G
7	20793061	20793061	+	C	C
9	27213563	27213563	+	C	C
6	112455671	112455671	+	G	G
16	71895805	71895805	+	G	G
11	22397539	22397539	+	G	G
16	30793775	30793775	+	G	G
8	144621257	144621257	+	G	G
12	6696643	6696643	+	C	C
7	91726087	91726087	+	G	G
10	61832520	61832520	+	C	C
11	111383993	111383993	+	C	C
2	218674639	218674639	+	G	G
12	56236654	56236654	+	C	C
19	9063923	9063923	+	C	C
7	154002491	154002491	+	C	C
15	91292842	91292842	+	C	C
17	10210308	10210308	+	G	G
X	14748696	14748696	+	G	G
6	31431303	31431303	+	G	G
6	31595834	31595834	+	T	T
19	11529356	11529356	+	C	C

17	19189019	19189019	+	C	C
17	47246196	47246196	+	C	C
2	101646238	101646238	+	C	C
19	18104336	18104336	+	G	G
1	159778933	159778933	+	C	C
3	48614162	48614162	+	G	G
4	22437066	22437066	+	G	G
17	19616049	19616049	+	C	C
1	45469165	45469165	+	C	C
7	107696285	107696285	+	C	C
22	19963233	19963233	+	G	G
10	98469485	98469485	+	C	C
11	26694959	26694959	+	C	C
7	142197663	142197663	+	G	G
20	18574433	18574433	+	C	C
15	62160060	62160060	+	C	C
9	3855836	3855836	+	G	G
9	130507043	130507043	+	G	G
5	140751107	140751107	+	C	C
6	42233514	42233514	+	C	C
12	6428061	6428061	+	G	G
8	53079447	53079447	+	G	G
15	22382951	22382951	+	T	T
19	22939793	22939793	+	C	C
11	68207281	68207281	+	G	G
17	7133705	7133705	+	G	G
5	140432760	140432760	+	G	G
3	24206599	24206599	+	G	G
9	79321830	79321830	+	C	C
1	208390597	208390597	+	G	G
12	21953942	21953942	+	T	T
5	16067764	16067764	+	C	C
14	70924999	70924999	+	G	G
19	51483667	51483667	+	G	G
7	99802286	99802286	+	G	G
1	236973802	236973802	+	G	G
3	45159990	45159990	+	G	G
19	44513038	44513038	+	C	C
17	73487880	73487880	+	C	C
12	45457957	45457957	+	C	C
15	39879619	39879619	+	G	G
14	23863443	23863443	+	G	G
7	50742159	50742159	+	G	G

8	17198923	17198923	+	C	C
3	68802149	68802149	+	C	C
10	97956719	97956719	+	C	C
2	50574004	50574004	+	C	C
5	98212142	98212142	+	G	G
1	157660201	157660201	+	G	G
2	209203266	209203266	+	C	C
10	62023694	62023694	+	T	T
18	42531523	42531523	+	G	G
17	40622155	40622155	+	C	C
16	1544578	1544578	+	C	C
3	43121862	43121862	+	G	G
3	168810804	168810804	+	G	G
10	54527906	54527906	+	G	G
5	135385196	135385196	+	G	G
8	87393773	87393773	+	G	G
2	180837974	180837974	+	C	C
15	91436550	91436550	+	G	G
13	19412906	19412906	+	C	C
17	54526483	54526483	+	G	G
7	150417759	150417759	+	G	G
3	48507067	48507067	+	C	C
11	33374714	33374714	+	C	C
X	151514068	151514068	+	G	G
6	66012226	66012226	+	C	C
16	3266305	3266305	+	G	G
17	44076946	44076946	+	C	C
11	66453874	66453874	+	C	C
1	115537766	115537766	+	T	T
19	4366529	4366529	+	G	G
16	77389886	77389886	+	C	C
19	43757713	43757713	+	C	C
7	45701665	45701665	+	C	C
6	112469367	112469367	+	C	C
8	144947145	144947145	+	G	G
5	23521240	23521240	+	C	C
19	51961242	51961242	+	T	T
X	18259207	18259207	+	G	G
19	43576103	43576103	+	C	C
1	171086682	171086682	+	C	C
17	3807307	3807307	+	C	C
18	44559889	44559889	+	C	C
21	45999613	45999613	+	A	A

18	9513132	9513132	+	C	C
6	84567079	84567079	+	G	G
2	239140763	239140763	+	A	A
2	37334445	37334445	+	G	G
1	152538251	152538251	+	G	G
17	35414038	35414038	+	C	C
2	136566046	136566046	+	A	A
16	67976621	67976621	+	C	C
1	172410899	172410899	+	G	G
22	37769859	37769859	+	G	G
2	74710205	74710205	+	C	C
5	129243886	129243886	+	A	A
6	57059605	57059605	+	G	G
1	151748008	151748008	+	C	C
X	84634228	84634228	+	G	G
20	42232505	42232505	+	G	G
2	905780	905780	+	C	C
19	51509915	51509915	+	G	G
17	39334394	39334394	+	G	G
16	17228496	17228496	+	G	G
18	14479062	14479062	+	G	G
X	35969251	35969251	+	G	G
7	107799730	107799730	+	G	G
14	105350818	105350818	+	G	G
7	157959910	157959910	+	G	G
5	80382972	80382972	+	C	C
14	91639671	91639671	+	C	C
5	14291120	14291120	+	G	G
19	38865197	38865197	+	C	C
4	39779325	39779325	+	C	C
7	5925875	5925875	+	G	G
17	26370123	26370123	+	C	C
8	110474067	110474067	+	G	G
16	67942840	67942840	+	C	C
X	122387229	122387229	+	C	C
15	39545035	39545035	+	C	C
1	160151533	160151533	+	C	C
20	47256403	47256403	+	G	G
9	35092536	35092536	+	G	G
2	27551409	27551409	+	C	C
19	45017003	45017003	+	C	C
2	183595773	183595773	+	C	C
17	7592118	7592118	+	C	C

1	185962503	185962503	+	C	C
17	56403719	56403719	+	G	G
2	196729430	196729430	+	G	G
14	77797445	77797445	+	C	C
5	31552973	31552973	+	C	C
17	56329555	56329555	+	G	G
10	88478536	88478536	+	C	C
7	140244287	140244287	+	G	G
3	38936048	38936048	+	G	G
10	104176450	104176450	+	C	C
4	100261732	100261732	+	C	C
20	29625879	29625879	+	C	C
X	142718554	142718554	+	G	G
3	46754405	46754405	+	C	C
11	76261104	76261104	+	G	G
3	81643104	81643104	+	G	G
3	14746042	14746042	+	C	C
7	72412722	72412722	+	C	C
1	158644457	158644457	+	C	C
10	17083147	17083147	+	G	G
19	55142741	55142741	+	G	G
1	210334132	210334132	+	G	G
3	113514754	113514754	+	C	C
17	39594446	39594446	+	C	C
8	7718216	7718216	+	G	G
1	237824110	237824110	+	G	G
14	57051734	57051734	+	C	C
5	14390400	14390400	+	T	T
11	65113821	65113821	+	C	C
11	62762108	62762108	+	G	G
3	46724776	46724776	+	G	G
2	69708039	69708039	+	G	G
5	13769652	13769652	+	C	C
12	55357536	55357536	+	G	G
4	47625722	47625722	+	G	G
1	1638855	1638855	+	G	G
11	18231137	18231137	+	T	T
1	169524522	169524522	+	A	A
19	2396595	2396595	+	G	G
20	30602769	30602769	+	G	G
10	48438754	48438754	+	G	G
16	67942841	67942841	+	C	C
11	112020894	112020894	+	A	A

10	18331767	18331767	+	G	G
10	18689994	18689994	+	G	G
4	17827032	17827032	+	G	G
15	40916766	40916766	+	A	A
15	59784488	59784488	+	C	C
14	106066414	106066414	+	G	G
1	248366914	248366914	+	C	C
10	98362155	98362155	+	C	C
9	5126761	5126761	+	G	G
15	78475076	78475076	+	G	G
11	48134415	48134415	+	C	C
14	100361009	100361009	+	C	C
6	7584402	7584402	+	G	G
X	71895959	71895959	+	C	C
16	75204219	75204219	+	G	G
11	76506804	76506804	+	C	C
3	42728062	42728062	+	G	G
5	110730466	110730466	+	C	C
5	140263334	140263334	+	T	T
16	1412667	1412667	+	C	C
1	9009420	9009420	+	A	A
4	184930433	184930433	+	C	C
22	17630549	17630549	+	G	G
X	70836896	70836896	+	C	C
10	116056833	116056833	+	G	G
5	149580751	149580751	+	C	C
17	61568597	61568597	+	G	G
15	91436549	91436549	+	G	G
1	236738069	236738069	+	G	G
16	1612049	1612049	+	G	G
10	52601732	52601732	+	C	C
4	20599972	20599972	+	C	C
11	66392573	66392573	+	C	C
2	128409072	128409072	+	C	C
19	55221300	55221300	+	G	G
15	80762565	80762565	+	T	T
1	176709319	176709319	+	C	C
13	38237824	38237824	+	G	G
1	120301788	120301788	+	C	C
11	61897789	61897789	+	C	C
9	125898691	125898691	+	C	C
16	67976620	67976620	+	C	C
19	4433271	4433271	+	C	C

22	45127530	45127530	+	C	C
7	141755471	141755471	+	G	G
3	121206622	121206622	+	G	G
2	31620541	31620541	+	A	A
7	100552339	100552339	+	G	G
16	77465368	77465368	+	C	C
1	119958096	119958096	+	C	C
15	95019995	95019995	+	C	C
15	42458808	42458808	+	G	G
12	25256968	25256968	+	G	G
9	33676222	33676222	+	C	C
3	48631903	48631903	+	C	C
9	113170542	113170542	+	G	G
9	126202643	126202643	+	C	C
1	13001256	13001256	+	C	C
8	6302022	6302022	+	G	G
11	48328637	48328637	+	G	G
11	18731097	18731097	+	C	C
2	175432755	175432755	+	A	A
3	14106873	14106873	+	C	C
12	53453844	53453844	+	C	C
15	42386734	42386734	+	C	C
9	43828112	43828112	+	A	A
14	74205740	74205740	+	G	G
5	76621384	76621384	+	G	G
7	1543581	1543581	+	G	G
X	73289656	73289656	+	C	C
1	155582094	155582094	+	C	C
2	206870094	206870094	+	G	G
7	40087445	40087445	+	G	G
19	3452479	3452479	+	G	G
12	79685842	79685842	+	G	G
6	139576740	139576740	+	C	C
8	27094372	27094372	+	G	G
1	151666260	151666260	+	C	C
3	52830806	52830806	+	C	C
2	50779999	50779999	+	T	T
7	99621415	99621415	+	C	C
2	172953059	172953059	+	G	G
11	67257906	67257906	+	T	T
10	37430774	37430774	+	G	G
9	134027155	134027155	+	A	A
8	120977556	120977556	+	C	C



3	183056613	183056613	+	C	C
17	62774492	62774492	+	C	C
19	1058180	1058180	+	C	C
16	72146321	72146321	+	G	G
6	25983867	25983867	+	C	C
10	101829576	101829576	+	C	C
2	78639987	78639987	+	A	A
8	110587101	110587101	+	G	G
14	67826558	67826558	+	G	G
7	100552950	100552950	+	G	G
4	103822385	103822385	+	G	G
16	20976359	20976359	+	C	C
3	52729567	52729567	+	T	T
11	71276920	71276920	+	C	C
7	141797419	141797419	+	C	C
1	164761760	164761760	+	G	G
9	124441020	124441020	+	C	C
11	4869683	4869683	+	G	G
12	54969862	54969862	+	T	T
19	50169977	50169977	+	C	C
2	179437637	179437637	+	C	C
3	45817417	45817417	+	C	C
3	48694496	48694496	+	G	G
2	170053428	170053428	+	G	G
7	156526939	156526939	+	G	G
18	76754696	76754696	+	C	C
6	3078134	3078134	+	G	G
X	105153213	105153213	+	C	C
5	143586444	143586444	+	C	C
2	179603069	179603069	+	C	C
9	32987768	32987768	+	A	A
16	64981676	64981676	+	G	G
3	190993060	190993060	+	A	A
9	131329210	131329210	+	T	T
8	8176084	8176084	+	G	G
X	133087207	133087207	+	G	G
11	16847678	16847678	+	C	C
1	150772035	150772035	+	G	G
14	35465890	35465890	+	C	C
2	29296143	29296143	+	C	C
9	125377328	125377328	+	C	C
2	237300662	237300662	+	C	C
7	142568763	142568763	+	C	C

9	137734203	137734203	+	C	C
9	69634700	69634700	+	C	C
2	241530281	241530281	+	C	C
1	64104418	64104418	+	A	A
3	195395473	195395473	+	C	C
15	51692461	51692461	+	C	C
16	67981309	67981309	+	C	C
5	70837943	70837943	+	C	C
1	161987193	161987193	+	C	C
9	109690559	109690559	+	C	C
14	68257476	68257476	+	G	G
14	63779812	63779812	+	G	G
11	6220865	6220865	+	C	C
11	92086762	92086762	+	C	C
11	5373244	5373244	+	C	C
4	140282972	140282972	+	A	A
1	248059376	248059376	+	C	C
5	162880888	162880888	+	G	G
19	42828940	42828940	+	C	C
X	99956586	99956586	+	C	C
14	22670511	22670511	+	C	C
17	30621416	30621416	+	G	G
3	122002795	122002795	+	C	C
21	30724017	30724017	+	C	C
19	32844671	32844671	+	G	G
12	6881952	6881952	+	A	A
8	97270589	97270589	+	T	T
1	104162494	104162494	+	G	G
12	93192839	93192839	+	T	T
1	228112024	228112024	+	C	C
7	2281855	2281855	+	C	C
12	8975814	8975814	+	C	C
15	49659772	49659772	+	G	G
1	197704893	197704893	+	G	G
18	28972154	28972154	+	G	G
14	22251447	22251447	+	G	G
18	55274822	55274822	+	G	G
1	43917304	43917304	+	G	G
19	17007061	17007061	+	C	C
3	195481181	195481181	+	G	G
21	17912224	17912224	+	C	C
5	41004982	41004982	+	C	C
18	44560293	44560293	+	G	G

19	50949197	50949197	+	G	G
1	145557078	145557078	+	C	C
17	3539494	3539494	+	G	G
14	65239589	65239589	+	G	G
9	8528596	8528596	+	C	C
5	167630776	167630776	+	G	G
7	143632811	143632811	+	C	C
14	101434449	101434449	+	G	G
7	4169515	4169515	+	C	C
9	5746005	5746005	+	C	C
9	123770744	123770744	+	C	C
19	51983898	51983898	+	G	G
3	49200908	49200908	+	C	C
10	50835752	50835752	+	C	C
17	6406889	6406889	+	C	C
8	17731898	17731898	+	C	C
1	215916573	215916573	+	C	C
3	126226620	126226620	+	C	C
X	92965061	92965061	+	C	C
8	57079108	57079108	+	G	G
4	75937982	75937982	+	G	G
20	50405505	50405505	+	G	G
3	172835470	172835470	+	G	G
3	38622851	38622851	+	G	G
15	62540660	62540660	+	C	C
21	43863381	43863381	+	G	G
16	20635471	20635471	+	C	C
MT	5979	5979	+	G	G
10	124352006	124352006	+	G	G
5	23509073	23509073	+	G	G
5	178139663	178139663	+	C	C
19	11762472	11762472	+	C	C
8	54963582	54963582	+	G	G
10	84745043	84745043	+	G	G
1	247264194	247264194	+	A	A
1	160011650	160011650	+	C	C
17	67102035	67102035	+	G	G
8	75233347	75233347	+	G	G
6	119324123	119324123	+	G	G
22	29454814	29454814	+	C	C
16	15808746	15808746	+	C	C
3	122056426	122056426	+	G	G
7	143047677	143047677	+	C	C

3	58516329	58516329	+	C	C
8	17406189	17406189	+	C	C
7	94057125	94057125	+	C	C
19	58441838	58441838	+	G	G
17	46196126	46196126	+	G	G
8	39785410	39785410	+	C	C
11	16010544	16010544	+	T	T
11	5009504	5009504	+	C	C
1	160171180	160171180	+	C	C
2	108921959	108921959	+	C	C
17	44076633	44076633	+	C	C
10	72631652	72631652	+	T	T
14	92436104	92436104	+	G	G
3	14941937	14941937	+	C	C
5	83239095	83239095	+	C	C
14	74531758	74531758	+	G	G
11	59415385	59415385	+	G	G
1	117127247	117127247	+	T	T
13	41706572	41706572	+	G	G
19	44156455	44156455	+	C	C
4	107845263	107845263	+	G	G
1	178490060	178490060	+	G	G
2	108626719	108626719	+	G	G
17	67517325	67517325	+	C	C
19	39421416	39421416	+	C	C
17	56247879	56247879	+	C	C
2	199011742	199011742	+	C	C
10	69672394	69672394	+	T	T
11	56057864	56057864	+	C	C
4	100845888	100845888	+	G	G
5	1212512	1212512	+	C	C
5	160721115	160721115	+	G	G
7	142124340	142124340	+	C	C
1	248551670	248551670	+	C	C
7	94051248	94051248	+	G	G
2	55433406	55433406	+	C	C
4	154557689	154557689	+	C	C
15	79051630	79051630	+	G	G
12	52471042	52471042	+	G	G
10	15821005	15821005	+	G	G
11	34097932	34097932	+	G	G
11	124440137	124440137	+	G	G
X	92927935	92927935	+	G	G

1	157648425	157648425	+	G	G
15	71433881	71433881	+	C	C
3	19975054	19975054	+	C	C
2	1653107	1653107	+	G	G
12	118105358	118105358	+	G	G
17	79250899	79250899	+	G	G
12	50185791	50185791	+	G	G
15	63097849	63097849	+	C	C
3	69987151	69987151	+	C	C
1	97278384	97278384	+	G	G
17	11515603	11515603	+	G	G
12	13828766	13828766	+	C	C
20	29960706	29960706	+	G	G
12	7188449	7188449	+	T	T
3	161214750	161214750	+	C	C
2	239013412	239013412	+	C	C
1	67206953	67206953	+	A	A
11	14853304	14853304	+	C	C
19	6678280	6678280	+	A	A
6	39272406	39272406	+	C	C
10	91067096	91067096	+	C	C
17	73759444	73759444	+	G	G
1	31897563	31897563	+	C	C
5	89943545	89943545	+	G	G
3	52426986	52426986	+	C	C
2	79363032	79363032	+	G	G
1	232649901	232649901	+	G	G
1	213446106	213446106	+	T	T
3	111887802	111887802	+	G	G
12	71928942	71928942	+	A	A
14	74967686	74967686	+	G	G
18	52262285	52262285	+	G	G
20	44576345	44576345	+	G	G
2	125281932	125281932	+	G	G
17	7663244	7663244	+	C	C
17	18022428	18022428	+	C	C
7	4899616	4899616	+	G	G
3	121825089	121825089	+	G	G
4	47527634	47527634	+	G	G
11	57958310	57958310	+	C	C
12	54969864	54969864	+	C	C
5	140474995	140474995	+	G	G
15	93015444	93015444	+	G	G

19	55112240	55112240	+	G	G
2	203075477	203075477	+	T	T
1	109268515	109268515	+	C	C
16	11051740	11051740	+	G	G
12	91502351	91502351	+	G	G
11	75115555	75115555	+	C	C
21	32493017	32493017	+	C	C
7	93515966	93515966	+	G	G
19	58152822	58152822	+	G	G
1	207195922	207195922	+	G	G
17	59556140	59556140	+	G	G
10	115661496	115661496	+	C	C
17	10351981	10351981	+	G	G
1	42046921	42046921	+	G	G
11	66460773	66460773	+	G	G
10	73556805	73556805	+	A	A
3	48694495	48694495	+	G	G
16	1869143	1869143	+	C	C
11	60668774	60668774	+	G	G
15	41819798	41819798	+	G	G
7	2959218	2959218	+	C	C
12	13715567	13715567	+	G	G
14	106791099	106791099	+	C	C
5	110818466	110818466	+	G	G
16	15808747	15808747	+	C	C
20	60895811	60895811	+	G	G
1	1638854	1638854	+	G	G
12	48961662	48961662	+	G	G
1	176668237	176668237	+	G	G
3	52304799	52304799	+	T	T
5	135610523	135610523	+	G	G
7	39247022	39247022	+	C	C
20	420964	420964	+	G	G
11	20948960	20948960	+	G	G
2	42936118	42936118	+	C	C
16	2334315	2334315	+	G	G
21	37537132	37537132	+	G	G
7	149490474	149490474	+	C	C
20	744587	744587	+	C	C
12	70913974	70913974	+	C	C
14	91755687	91755687	+	C	C
8	24171052	24171052	+	G	G
19	57336118	57336118	+	C	C

17	7239907	7239907	+	A	A
7	99227605	99227605	+	C	C
10	118236829	118236829	+	T	T
11	63175679	63175679	+	C	C
1	118523923	118523923	+	G	G
16	19083426	19083426	+	C	C
19	1978932	1978932	+	C	C
11	6452421	6452421	+	G	G
21	41427665	41427665	+	C	C
10	105362413	105362413	+	G	G
1	245865790	245865790	+	C	C
3	136240179	136240179	+	G	G
12	40020054	40020054	+	G	G
X	48681487	48681487	+	C	C
3	42679450	42679450	+	G	G
2	215279122	215279122	+	C	C
20	2290833	2290833	+	C	C
11	4944897	4944897	+	G	G
9	139368725	139368725	+	G	G
19	56658269	56658269	+	C	C
22	16279208	16279208	+	C	C
17	74383617	74383617	+	C	C
14	57051735	57051735	+	C	C
GL000193.1	88239	88239	+	C	C
1	155449519	155449519	+	C	C
19	56243853	56243853	+	G	G
1	104108078	104108078	+	G	G
2	103128689	103128689	+	G	G
1	150255889	150255889	+	C	C
20	377028	377028	+	C	C
19	10127818	10127818	+	C	C
12	50188705	50188705	+	G	G
15	83455283	83455283	+	C	C
5	68524122	68524122	+	C	C
10	7618599	7618599	+	C	C
21	38103382	38103382	+	G	G
10	113928635	113928635	+	A	A
20	31825942	31825942	+	G	G
22	29957621	29957621	+	G	G
10	49409317	49409317	+	C	C
14	100361008	100361008	+	C	C
16	89619511	89619511	+	C	C
8	10396050	10396050	+	T	T

4	164534525	164534525	+	C	C
2	160268948	160268948	+	C	C
5	149497366	149497366	+	G	G
11	57466130	57466130	+	C	C
15	77321896	77321896	+	G	G
15	91358526	91358526	+	T	T
15	24923135	24923135	+	G	G
X	153197729	153197729	+	C	C
1	205027723	205027723	+	G	G
14	22205159	22205159	+	G	G
6	44221487	44221487	+	T	T
1	109810236	109810236	+	C	C
11	62902198	62902198	+	G	G
1	1225880	1225880	+	C	C
7	143453536	143453536	+	C	C
22	24621309	24621309	+	G	G
19	44384270	44384270	+	C	C
2	27550915	27550915	+	C	C
19	9068525	9068525	+	C	C
12	55726293	55726293	+	G	G
3	39453210	39453210	+	C	C
7	90492555	90492555	+	G	G
17	27381703	27381703	+	G	G
5	111570402	111570402	+	C	C
1	167741525	167741525	+	C	C
2	152293798	152293798	+	C	C
X	10180617	10180617	+	C	C
X	130408057	130408057	+	C	C
13	23914282	23914282	+	A	A
16	30594624	30594624	+	T	T
11	35489596	35489596	+	T	T
2	71839932	71839932	+	C	C
6	75851845	75851845	+	G	G
1	180062273	180062273	+	C	C
1	44878253	44878253	+	G	G
2	190636345	190636345	+	C	C
9	125273548	125273548	+	C	C
2	1133344	1133344	+	T	T
12	113312937	113312937	+	C	C
17	26093584	26093584	+	A	A
11	67375937	67375937	+	G	G
4	178274786	178274786	+	C	C
14	81743790	81743790	+	C	C



19	36501383	36501383	+	C	C
X	108868027	108868027	+	C	C
1	229773923	229773923	+	C	C
1	15959999	15959999	+	C	C
12	21428330	21428330	+	C	C
1	120384082	120384082	+	C	C
11	55563203	55563203	+	C	C
12	101555799	101555799	+	C	C
5	140531337	140531337	+	C	C
11	62532859	62532859	+	T	T
19	51503387	51503387	+	C	C
11	102818635	102818635	+	C	C
6	88854830	88854830	+	C	C
3	97868776	97868776	+	C	C
3	38766717	38766717	+	G	G
8	144332366	144332366	+	C	C
15	50784946	50784946	+	G	G
2	50850659	50850659	+	A	A
19	39788892	39788892	+	C	C
19	8137043	8137043	+	C	C
5	19571781	19571781	+	G	G
19	5456687	5456687	+	G	G
2	196737151	196737151	+	G	G
17	38133214	38133214	+	C	C
5	147778569	147778569	+	C	C
3	122284853	122284853	+	C	C
5	140953172	140953172	+	G	G
15	48054431	48054431	+	C	C
15	42178150	42178150	+	C	C
19	51128666	51128666	+	C	C
3	49700726	49700726	+	C	C
8	110454289	110454289	+	G	G
17	79973044	79973044	+	G	G
17	54403689	54403689	+	C	C
11	5566159	5566159	+	C	C
8	39780091	39780091	+	C	C
19	13910675	13910675	+	C	C
1	37270474	37270474	+	T	T
1	75039023	75039023	+	C	C
7	150163921	150163921	+	G	G
17	10399630	10399630	+	G	G
8	139164791	139164791	+	G	G
22	50480181	50480181	+	G	G

19	55494375	55494375	+	T	T
6	43164094	43164094	+	C	C
15	102516581	102516581	+	C	C
12	8205521	8205521	+	C	C
19	44661013	44661013	+	C	C
6	44217832	44217832	+	C	C
1	160518106	160518106	+	C	C
19	9086531	9086531	+	A	A
10	55581920	55581920	+	C	C
2	167143080	167143080	+	C	C
1	68564506	68564506	+	G	G
4	1107220	1107220	+	G	G
19	58018291	58018291	+	A	A
18	29052690	29052690	+	A	A
1	200959443	200959443	+	G	G
2	206562386	206562386	+	C	C
17	38643425	38643425	+	C	C
4	144922338	144922338	+	C	C
15	25456870	25456870	+	C	C
6	136475217	136475217	+	G	G
3	73114634	73114634	+	A	A
5	32000311	32000311	+	C	C
3	182871469	182871469	+	C	C
11	57258778	57258778	+	G	G
16	71609709	71609709	+	C	C
11	1096509	1096509	+	C	C
20	60905894	60905894	+	C	C
X	135498853	135498853	+	A	A
22	40825752	40825752	+	G	G
19	30936285	30936285	+	G	G
13	19999122	19999122	+	G	G
12	88486457	88486457	+	C	C
8	87655995	87655995	+	C	C
1	47365968	47365968	+	G	G
20	61513517	61513517	+	G	G
1	44386519	44386519	+	C	C
2	47403710	47403710	+	C	C
6	25776873	25776873	+	C	C
1	164816032	164816032	+	A	A
2	15601404	15601404	+	G	G
7	21726815	21726815	+	G	G
2	228497978	228497978	+	G	G
3	151154637	151154637	+	G	G

6	4060868	4060868	+	C	C
10	102689180	102689180	+	C	C
9	107288587	107288587	+	C	C
1	160313076	160313076	+	G	G
2	28763273	28763273	+	C	C
19	52505130	52505130	+	G	G
11	92533316	92533316	+	C	C
7	151932996	151932996	+	C	C
17	54428238	54428238	+	C	C
3	160958936	160958936	+	C	C
8	124658036	124658036	+	G	G
5	154173499	154173499	+	C	C
1	156509267	156509267	+	G	G
19	48343192	48343192	+	G	G
X	72433935	72433935	+	C	C
19	37488577	37488577	+	C	C
14	79933650	79933650	+	C	C
19	53887315	53887315	+	T	T
19	38865197	38865197	+	C	C
2	179600530	179600530	+	C	C
9	14717	14717	+	G	G
5	26890841	26890841	+	C	C
20	41306568	41306568	+	C	C
22	46125372	46125372	+	C	C
8	101299991	101299991	+	G	G
19	43575952	43575952	+	G	G
2	44079757	44079757	+	A	A
4	9784956	9784956	+	G	G
1	235969809	235969809	+	G	G
2	185463785	185463785	+	G	G
7	114270000	114270000	+	G	G
1	200878437	200878437	+	C	C
19	11728767	11728767	+	C	C
3	27436083	27436083	+	G	G
21	43710193	43710193	+	G	G
5	13793727	13793727	+	G	G
X	154741371	154741371	+	G	G
1	115256530	115256530	+	G	G
8	133196508	133196508	+	C	C
11	60561549	60561549	+	G	G
8	24359025	24359025	+	G	G
13	45911670	45911670	+	G	G
10	81701789	81701789	+	C	C

3	129034497	129034497	+	C	C
X	48325217	48325217	+	G	G
19	50548750	50548750	+	C	C
13	58208616	58208616	+	C	C
X	110492264	110492264	+	C	C
20	29623129	29623129	+	G	G
3	52874449	52874449	+	G	G
5	54398474	54398474	+	A	A
5	140256917	140256917	+	C	C
7	141537886	141537886	+	G	G
9	84564272	84564272	+	G	G
X	14748755	14748755	+	G	G
6	35930386	35930386	+	C	C
11	1619590	1619590	+	T	T
19	22363292	22363292	+	C	C
2	49190386	49190386	+	G	G
11	67926348	67926348	+	G	G
21	11098912	11098912	+	G	G
13	38211679	38211679	+	C	C
10	95790669	95790669	+	G	G
19	43689227	43689227	+	G	G
12	11546665	11546665	+	C	C
3	138403593	138403593	+	G	G
X	118763259	118763259	+	C	C
X	37028775	37028775	+	G	G
1	115218621	115218621	+	A	A
X	140984599	140984599	+	C	C
X	152936426	152936426	+	C	C
3	16640017	16640017	+	A	A
7	89793862	89793862	+	A	A
X	70516711	70516711	+	C	C
6	38794029	38794029	+	G	G
13	99630086	99630086	+	C	C
17	18210404	18210404	+	G	G
10	37508120	37508120	+	G	G
17	12893374	12893374	+	G	G
2	179588843	179588843	+	C	C
16	1272880	1272880	+	C	C
7	64388850	64388850	+	G	G
16	72153167	72153167	+	G	G
4	108574751	108574751	+	C	C
X	53456899	53456899	+	G	G
19	51671005	51671005	+	G	G

15	97328465	97328465	+	G	G
15	50168691	50168691	+	A	A
5	161495076	161495076	+	C	C
16	4432353	4432353	+	G	G
19	56369431	56369431	+	G	G
GL000192.1	199556	199556	+	G	G
1	227192632	227192632	+	G	G
6	117246788	117246788	+	C	C
1	82416735	82416735	+	G	G
17	78403697	78403697	+	G	G
19	52217138	52217138	+	G	G
14	80328331	80328331	+	G	G
3	98216528	98216528	+	G	G
15	24924546	24924546	+	C	C
6	32037962	32037962	+	G	G
2	179516877	179516877	+	C	C
11	48267363	48267363	+	C	C
10	33143334	33143334	+	C	C
1	74929166	74929166	+	C	C
21	41423919	41423919	+	G	G
4	122853716	122853716	+	C	C
13	109318260	109318260	+	C	C
12	47471413	47471413	+	C	C
18	63477234	63477234	+	G	G
X	144337662	144337662	+	G	G
12	118199117	118199117	+	C	C
3	38138204	38138204	+	G	G
1	160846417	160846417	+	T	T
4	102981392	102981392	+	C	C
15	51294907	51294907	+	G	G
20	3682173	3682173	+	C	C
1	158641953	158641953	+	G	G
1	156215889	156215889	+	G	G
1	198700765	198700765	+	G	G
2	30993305	30993305	+	C	C
20	45131119	45131119	+	G	G
8	82670850	82670850	+	C	C
22	45749929	45749929	+	G	G
7	89793978	89793978	+	T	T
19	39062859	39062859	+	C	C
12	53164875	53164875	+	G	G
14	68251784	68251784	+	G	G
X	110644281	110644281	+	G	G

1	35251217	35251217	+	G	G
2	165802231	165802231	+	G	G
7	80108207	80108207	+	C	C
2	74756159	74756159	+	G	G
3	193002840	193002840	+	C	C
10	62023676	62023676	+	G	G
11	57958762	57958762	+	C	C
1	171504632	171504632	+	C	C
8	11058172	11058172	+	G	G
8	22548426	22548426	+	C	C
5	19473263	19473263	+	C	C
1	112042704	112042704	+	G	G
11	51411800	51411800	+	T	T
9	107645359	107645359	+	C	C
1	60377417	60377417	+	T	T
4	40440437	40440437	+	G	G
1	212245488	212245488	+	C	C
10	28378750	28378750	+	G	G
1	43770760	43770760	+	C	C
3	20215766	20215766	+	A	A
14	24546666	24546666	+	C	C
7	37780854	37780854	+	G	G
1	894632	894632	+	G	G
7	2641214	2641214	+	C	C
19	37368066	37368066	+	C	C
11	129991638	129991638	+	G	G
1	201618540	201618540	+	C	C
22	25289551	25289551	+	T	T
2	47596637	47596637	+	C	C
14	20502813	20502813	+	G	G
4	82058629	82058629	+	G	G
22	26291229	26291229	+	G	G
2	223554123	223554123	+	C	C
7	63726754	63726754	+	C	C
6	31996297	31996297	+	G	G
X	69669319	69669319	+	G	G
3	14547142	14547142	+	C	C
1	151206869	151206869	+	C	C
19	58619216	58619216	+	C	C
15	48807652	48807652	+	G	G
19	17396570	17396570	+	C	C
5	160039647	160039647	+	C	C
12	112622846	112622846	+	G	G

19	17389959	17389959	+	C	C
14	20345323	20345323	+	G	G
4	74361103	74361103	+	G	G
19	23836483	23836483	+	G	G
4	155457665	155457665	+	G	G
1	109465146	109465146	+	C	C
X	50658787	50658787	+	C	C
20	9561045	9561045	+	G	G
11	65304129	65304129	+	C	C
4	189061685	189061685	+	A	A
5	38904069	38904069	+	G	G
X	107976957	107976957	+	G	G
12	11506570	11506570	+	C	C
12	117723056	117723056	+	C	C
3	57913124	57913124	+	C	C
12	14706316	14706316	+	G	G
12	80222183	80222183	+	G	G
3	108147701	108147701	+	G	G
14	24617044	24617044	+	C	C
18	76754428	76754428	+	G	G
7	91730277	91730277	+	G	G
4	23815322	23815322	+	G	G
1	16535271	16535271	+	C	C
9	18680327	18680327	+	G	G
9	68414181	68414181	+	G	G
14	101533134	101533134	+	G	G
11	56185408	56185408	+	G	G
17	48913317	48913317	+	C	C
7	124116534	124116534	+	G	G
6	84269846	84269846	+	C	C
1	78326966	78326966	+	G	G
4	121742355	121742355	+	G	G
15	79092703	79092703	+	G	G
19	51378089	51378089	+	C	C
19	42828954	42828954	+	C	C
13	36410199	36410199	+	A	A
4	141789503	141789503	+	G	G
5	55247314	55247314	+	G	G
12	50291769	50291769	+	C	C
X	153997568	153997568	+	G	G
3	88205960	88205960	+	C	C
X	112021879	112021879	+	G	G
3	48689873	48689873	+	G	G

22	36123214	36123214	+	C	C
1	248085189	248085189	+	G	G
19	42828953	42828953	+	C	C
3	62631435	62631435	+	C	C
20	30602799	30602799	+	G	G
2	55562250	55562250	+	G	G
2	1926545	1926545	+	A	A
7	27194521	27194521	+	C	C
16	30096448	30096448	+	C	C
11	124134777	124134777	+	A	A
12	69747120	69747120	+	G	G
19	40542039	40542039	+	G	G
19	16926195	16926195	+	C	C
1	197169391	197169391	+	C	C
13	75813360	75813360	+	G	G
20	18395154	18395154	+	G	G
21	47424404	47424404	+	C	C
18	74091169	74091169	+	C	C
4	6925241	6925241	+	C	C
16	78005775	78005775	+	A	A
5	79616257	79616257	+	G	G
X	1471279	1471279	+	C	C
1	248202452	248202452	+	G	G
5	115336356	115336356	+	G	G
10	55582559	55582559	+	C	C
11	1651363	1651363	+	G	G
6	152779913	152779913	+	G	G
19	5867503	5867503	+	G	G
X	127185237	127185237	+	C	C
8	61654317	61654317	+	C	C
16	836064	836064	+	G	G
11	55433330	55433330	+	G	G
12	4736271	4736271	+	C	C
10	37508802	37508802	+	G	G
19	9071593	9071593	+	G	G
5	135287077	135287077	+	G	G
3	38647489	38647489	+	C	C
3	10136015	10136015	+	C	C
17	38938746	38938746	+	G	G
1	17685816	17685816	+	G	G
1	248685648	248685648	+	G	G
MT	6491	6491	+	C	C
12	11546848	11546848	+	C	C



9	116059852	116059852	+	G	G
3	187003734	187003734	+	G	G
12	50232964	50232964	+	G	G
5	151271953	151271953	+	G	G
4	91760143	91760143	+	G	G
12	69764690	69764690	+	T	T
8	6681162	6681162	+	G	G
6	27218470	27218470	+	A	A
7	56007075	56007075	+	A	A
1	98164975	98164975	+	G	G
2	155555207	155555207	+	A	A
X	63551434	63551434	+	C	C
X	141291651	141291651	+	G	G
12	25348149	25348149	+	C	C
2	235951357	235951357	+	C	C
11	106558342	106558342	+	G	G
19	16204528	16204528	+	T	T
1	119925599	119925599	+	C	C
10	96534946	96534946	+	C	C
6	53135414	53135414	+	G	G
14	75179879	75179879	+	G	G
19	15989644	15989644	+	C	C
19	48533782	48533782	+	G	G
15	102304723	102304723	+	G	G
19	23926957	23926957	+	A	A
19	35790611	35790611	+	G	G
16	33784761	33784761	+	C	C
2	234894441	234894441	+	C	C
12	109509426	109509426	+	G	G
18	50278496	50278496	+	G	G
8	10480283	10480283	+	G	G
10	66586254	66586254	+	G	G
1	11086743	11086743	+	C	C
1	160164882	160164882	+	C	C
6	31938900	31938900	+	G	G
X	119037322	119037322	+	G	G
1	205277199	205277199	+	G	G
2	179597404	179597404	+	G	G
18	28711463	28711463	+	C	C
X	47271914	47271914	+	G	G
4	24531302	24531302	+	G	G
20	2843460	2843460	+	C	C
17	12860049	12860049	+	G	G

10	5436348	5436348	+	G	G
1	158517845	158517845	+	G	G
17	41020425	41020425	+	C	C
10	101464378	101464378	+	C	C
14	71575355	71575355	+	C	C
1	36358180	36358180	+	C	C
4	106374782	106374782	+	C	C
11	60538918	60538918	+	C	C
5	154173500	154173500	+	T	T
5	141334676	141334676	+	C	C
19	53793970	53793970	+	C	C
1	118523917	118523917	+	C	C
1	67359071	67359071	+	A	A
8	65517283	65517283	+	G	G
11	68154023	68154023	+	G	G
5	140750052	140750052	+	G	G
14	70713045	70713045	+	G	G
1	32849517	32849517	+	G	G
19	14720980	14720980	+	G	G
15	23890790	23890790	+	C	C
X	2933131	2933131	+	C	C
9	88842265	88842265	+	G	G
X	73751238	73751238	+	G	G
17	11593538	11593538	+	G	G
6	144178260	144178260	+	C	C
7	151815792	151815792	+	G	G
X	69479057	69479057	+	G	G
20	77112	77112	+	C	C
19	11687971	11687971	+	G	G
20	2464479	2464479	+	G	G
13	107210083	107210083	+	G	G
8	17228664	17228664	+	G	G
19	6921774	6921774	+	G	G
10	75289918	75289918	+	G	G
7	25175830	25175830	+	A	A
9	116176057	116176057	+	C	C
12	120127975	120127975	+	G	G
17	36872693	36872693	+	C	C
19	4504422	4504422	+	C	C
14	28733956	28733956	+	G	G
1	26516195	26516195	+	C	C
12	123186976	123186976	+	C	C
10	37506704	37506704	+	C	C

11	72307673	72307673	+	C	C
8	41552698	41552698	+	C	C
3	46902285	46902285	+	C	C
13	50466615	50466615	+	G	G
8	24251634	24251634	+	G	G
11	93800789	93800789	+	C	C
10	94397229	94397229	+	C	C
14	62261821	62261821	+	T	T
14	24620357	24620357	+	T	T
5	90021428	90021428	+	T	T
9	125391651	125391651	+	G	G
13	46718690	46718690	+	G	G
12	104324253	104324253	+	C	C
13	99354747	99354747	+	C	C
11	119212672	119212672	+	C	C
19	17720803	17720803	+	G	G
21	42749762	42749762	+	C	C
7	53103458	53103458	+	C	C
17	61611430	61611430	+	G	G
16	69959060	69959060	+	C	C
1	152636753	152636753	+	C	C
7	128119393	128119393	+	C	C
4	91230019	91230019	+	T	T
2	87012953	87012953	+	G	G
21	41725476	41725476	+	G	G
19	16884095	16884095	+	G	G
7	136912519	136912519	+	T	T
19	9529414	9529414	+	G	G
19	38795053	38795053	+	G	G
14	95090211	95090211	+	G	G
5	50137811	50137811	+	G	G
7	100365543	100365543	+	G	G
12	54686442	54686442	+	C	C
2	231313823	231313823	+	C	C
19	55106215	55106215	+	C	C
19	20236295	20236295	+	C	C
12	55421060	55421060	+	C	C
1	119925598	119925598	+	C	C
17	3195183	3195183	+	G	G
11	59420337	59420337	+	G	G
5	42718201	42718201	+	G	G
1	169094223	169094223	+	G	G
6	144178259	144178259	+	C	C

12	49412662	49412662	+	C	C
1	11073871	11073871	+	C	C
1	236647582	236647582	+	C	C
19	16974390	16974390	+	C	C
6	44221482	44221482	+	T	T
10	107022245	107022245	+	C	C
17	12661596	12661596	+	G	G
14	23815696	23815696	+	G	G
10	82403788	82403788	+	G	G
1	27056237	27056237	+	G	G
6	101086481	101086481	+	G	G
4	159790028	159790028	+	C	C
2	141004685	141004685	+	T	T
6	133785975	133785975	+	G	G
17	39240819	39240819	+	C	C
1	20964487	20964487	+	G	G
2	141299471	141299471	+	C	C
2	169874659	169874659	+	G	G
6	31584686	31584686	+	G	G
19	36111017	36111017	+	C	C
11	22283734	22283734	+	C	C
1	27124215	27124215	+	C	C
8	7308401	7308401	+	C	C
1	222900411	222900411	+	C	C
5	21783553	21783553	+	C	C
4	69693131	69693131	+	G	G
X	153588390	153588390	+	A	A
19	57062113	57062113	+	G	G
GL000194.1	68286	68286	+	G	G
3	138669480	138669480	+	G	G
11	47861819	47861819	+	G	G
10	69881684	69881684	+	C	C
2	206562370	206562370	+	T	T
20	29961011	29961011	+	G	G
19	36302875	36302875	+	C	C
3	193128849	193128849	+	G	G
7	142180629	142180629	+	C	C
14	23745722	23745722	+	G	G
16	3063316	3063316	+	G	G
8	144940444	144940444	+	C	C
14	95056882	95056882	+	C	C
7	44802973	44802973	+	C	C
3	97198165	97198165	+	G	G

8	30013854	30013854	+	C	C
7	150440227	150440227	+	G	G
6	10756937	10756937	+	T	T
12	94634431	94634431	+	C	C
7	158457388	158457388	+	G	G
5	140256919	140256919	+	C	C
11	56511119	56511119	+	T	T
6	37467688	37467688	+	G	G
19	43233450	43233450	+	C	C
17	37264503	37264503	+	G	G
8	56367529	56367529	+	C	C
5	1801533	1801533	+	T	T
10	14944468	14944468	+	T	T
18	21113440	21113440	+	C	C
16	11272418	11272418	+	C	C
11	93800788	93800788	+	C	C
18	61326468	61326468	+	G	G
11	65304145	65304145	+	C	C
10	55582728	55582728	+	C	C
3	167023632	167023632	+	C	C
X	154159127	154159127	+	C	C
7	943828	943828	+	G	G
19	11728223	11728223	+	C	C
12	306558	306558	+	C	C
8	40683185	40683185	+	G	G
13	84455791	84455791	+	C	C
14	23312479	23312479	+	C	C
19	48982506	48982506	+	C	C
7	98254285	98254285	+	G	G
19	50764791	50764791	+	C	C
5	178358243	178358243	+	G	G
1	196762504	196762504	+	G	G
5	1219209	1219209	+	G	G
19	20135159	20135159	+	G	G
5	175581965	175581965	+	G	G
17	73316509	73316509	+	G	G
3	128780886	128780886	+	G	G
6	157502271	157502271	+	C	C
19	47285687	47285687	+	G	G
13	103346790	103346790	+	G	G
5	14465688	14465688	+	C	C
5	79366183	79366183	+	G	G
11	73717991	73717991	+	G	G

X	83372400	83372400	+	C	C
16	2813554	2813554	+	C	C
X	74670626	74670626	+	G	G
5	172386891	172386891	+	C	C
11	73008670	73008670	+	C	C
4	187004306	187004306	+	G	G
3	137742606	137742606	+	G	G
21	37620804	37620804	+	A	A
X	154292345	154292345	+	C	C
7	64313435	64313435	+	C	C
5	176402449	176402449	+	C	C
2	122165235	122165235	+	G	G
3	169820685	169820685	+	G	G
11	102663365	102663365	+	G	G
19	50823876	50823876	+	G	G
7	151815793	151815793	+	G	G
4	71275322	71275322	+	A	A
17	42512485	42512485	+	C	C
19	52529012	52529012	+	C	C
3	42265116	42265116	+	A	A
3	190105895	190105895	+	G	G
4	74005789	74005789	+	G	G
4	47746513	47746513	+	C	C
11	76831875	76831875	+	C	C
9	32634619	32634619	+	G	G
11	64435933	64435933	+	G	G
4	165962730	165962730	+	G	G
1	18618479	18618479	+	G	G
12	107415917	107415917	+	G	G
7	103151358	103151358	+	C	C
5	140237070	140237070	+	G	G
21	46596197	46596197	+	C	C
17	56233231	56233231	+	C	C
8	121309813	121309813	+	G	G
17	40937162	40937162	+	G	G
4	146461023	146461023	+	C	C
3	190105896	190105896	+	G	G
12	56213150	56213150	+	G	G
6	159065732	159065732	+	G	G
2	98274990	98274990	+	G	G
3	38888492	38888492	+	G	G
5	145613117	145613117	+	C	C
19	54404000	54404000	+	G	G

17	10404754	10404754	+	C	C
12	10862602	10862602	+	G	G
12	51678573	51678573	+	T	T
19	44635359	44635359	+	C	C
7	24756825	24756825	+	G	G
1	17592200	17592200	+	G	G
1	157660164	157660164	+	G	G
10	135097386	135097386	+	G	G
15	57839850	57839850	+	C	C
2	220078669	220078669	+	A	A
1	74671072	74671072	+	C	C
9	39177420	39177420	+	G	G
12	45458993	45458993	+	C	C
19	38795052	38795052	+	G	G
8	133192557	133192557	+	G	G
5	70818679	70818679	+	G	G
12	112632801	112632801	+	G	G
5	140720011	140720011	+	C	C
6	121768740	121768740	+	G	G
2	56145040	56145040	+	C	C
18	54814847	54814847	+	C	C
3	38968334	38968334	+	C	C
X	77372905	77372905	+	G	G
19	19258522	19258522	+	G	G
3	168838988	168838988	+	C	C
3	195515290	195515290	+	C	C
12	94563011	94563011	+	C	C
5	5462600	5462600	+	G	G
X	63410382	63410382	+	C	C
7	18788679	18788679	+	C	C
15	25415916	25415916	+	T	T
1	75039152	75039152	+	C	C
1	159842787	159842787	+	C	C
2	179528564	179528564	+	C	C
15	34168177	34168177	+	G	G
20	62373917	62373917	+	C	C
19	52217139	52217139	+	G	G
9	14718	14718	+	A	A
14	107049117	107049117	+	C	C
11	104912207	104912207	+	G	G
19	35551028	35551028	+	C	C
19	52869596	52869596	+	G	G
15	42178151	42178151	+	C	C

12	52779191	52779191	+	G	G
19	17836784	17836784	+	C	C
12	69746941	69746941	+	G	G
8	61754240	61754240	+	C	C
19	44777912	44777912	+	G	G
8	77745637	77745637	+	C	C
21	44949591	44949591	+	G	G
20	2464480	2464480	+	G	G
13	39433451	39433451	+	G	G
X	134992246	134992246	+	C	C
17	10399693	10399693	+	C	C
8	27516700	27516700	+	G	G
7	24738536	24738536	+	C	C
19	20003303	20003303	+	G	G
1	161953953	161953953	+	C	C
12	53452973	53452973	+	C	C
4	167020516	167020516	+	T	T
1	85725252	85725252	+	G	G
X	151870251	151870251	+	A	A
17	39680497	39680497	+	G	G
7	64437186	64437186	+	C	C
2	29247073	29247073	+	G	G
3	190147432	190147432	+	G	G
X	68748988	68748988	+	C	C
3	123987908	123987908	+	C	C
X	132159668	132159668	+	G	G
9	116176058	116176058	+	C	C
19	17836783	17836783	+	C	C
19	9056598	9056598	+	G	G
8	68145135	68145135	+	G	G
X	48320620	48320620	+	G	G
17	56233230	56233230	+	C	C
5	140811991	140811991	+	G	G
10	91404806	91404806	+	C	C
11	64112542	64112542	+	G	G
6	107391053	107391053	+	G	G
13	99630085	99630085	+	C	C
11	67402344	67402344	+	G	G
X	118250563	118250563	+	G	G
17	74288157	74288157	+	G	G
19	5772949	5772949	+	C	C
12	47629178	47629178	+	C	C
X	153631717	153631717	+	G	G



16	28506467	28506467	+	C	C
5	151771675	151771675	+	C	C
8	41798592	41798592	+	G	G
8	7718189	7718189	+	G	G
17	78403696	78403696	+	G	G
X	65253322	65253322	+	G	G
22	46615714	46615714	+	C	C
1	118574376	118574376	+	C	C
4	42965087	42965087	+	G	G
12	57345911	57345911	+	C	C
4	56874539	56874539	+	C	C
13	114748614	114748614	+	G	G
10	72532279	72532279	+	C	C
3	13543517	13543517	+	C	C
4	17528713	17528713	+	C	C
19	51363574	51363574	+	C	C
16	28509596	28509596	+	G	G
19	1584641	1584641	+	G	G
2	44099420	44099420	+	G	G
1	176758991	176758991	+	G	G
X	153133550	153133550	+	G	G
9	68413581	68413581	+	G	G
5	178358242	178358242	+	G	G
2	42997093	42997093	+	C	C
6	44269164	44269164	+	G	G
1	115222330	115222330	+	C	C
8	3224645	3224645	+	G	G
1	12336013	12336013	+	A	A
7	825254	825254	+	C	C
7	43540298	43540298	+	G	G
14	70925485	70925485	+	A	A
19	44803836	44803836	+	A	A
12	58020675	58020675	+	G	G
17	17425697	17425697	+	C	C
6	76386875	76386875	+	C	C
7	154739443	154739443	+	G	G
21	30250583	30250583	+	G	G
9	34458885	34458885	+	C	C
5	140811901	140811901	+	C	C
3	167000059	167000059	+	C	C
GL000205.1	118520	118520	+	G	G
22	32346305	32346305	+	A	A
4	42545968	42545968	+	G	G

X	70596864	70596864	+	G	G
21	10970034	10970034	+	T	T
5	112901647	112901647	+	C	C
X	99551517	99551517	+	G	G
8	55538304	55538304	+	G	G
5	55247313	55247313	+	T	T
1	3350360	3350360	+	C	C
2	132021588	132021588	+	G	G
21	36088871	36088871	+	C	C
19	9297317	9297317	+	C	C
12	113534839	113534839	+	G	G
3	41266125	41266125	+	C	C
20	33879865	33879865	+	C	C
17	79804869	79804869	+	C	C
3	78717453	78717453	+	C	C
20	33517324	33517324	+	G	G
MT	1603	1603	+	A	A
19	9068307	9068307	+	G	G
10	28250644	28250644	+	C	C
11	92523205	92523205	+	G	G
13	38164527	38164527	+	A	A
11	65304130	65304130	+	C	C
17	42018942	42018942	+	G	G
4	42545969	42545969	+	G	G
12	121932438	121932438	+	G	G
4	108816973	108816973	+	C	C
19	54404001	54404001	+	G	G
20	30232599	30232599	+	G	G
19	56889098	56889098	+	A	A
15	74927966	74927966	+	A	A
2	71909694	71909694	+	C	C
19	58118641	58118641	+	C	C
4	138442472	138442472	+	C	C
18	30825366	30825366	+	G	G
2	141773412	141773412	+	C	C
7	44798907	44798907	+	G	G
6	132874436	132874436	+	T	T
1	28343696	28343696	+	G	G
14	53513591	53513591	+	C	C
19	36501384	36501384	+	C	C
2	37096834	37096834	+	G	G
7	44425674	44425674	+	G	G
5	126213889	126213889	+	G	G

10	28223941	28223941	+	C	C
MT	6492	6492	+	C	C
5	38950815	38950815	+	G	G
11	5566278	5566278	+	C	C
13	33591083	33591083	+	G	G
16	87723910	87723910	+	G	G
10	91404807	91404807	+	C	C
3	19554501	19554501	+	C	C
3	56597891	56597891	+	T	T
17	57684454	57684454	+	C	C
X	128623014	128623014	+	A	A
8	144940720	144940720	+	C	C
16	16180726	16180726	+	C	C
9	91616482	91616482	+	G	G
6	145075876	145075876	+	T	T
2	3447562	3447562	+	C	C
12	46211464	46211464	+	C	C
2	32605230	32605230	+	C	C
2	203417596	203417596	+	C	C
4	104017430	104017430	+	A	A
6	76734976	76734976	+	C	C
1	2411255	2411255	+	C	C
12	48577844	48577844	+	C	C
17	51900532	51900532	+	C	C
4	69696563	69696563	+	T	T
16	74719456	74719456	+	C	C
2	179429905	179429905	+	A	A
17	48683278	48683278	+	T	T
2	219894278	219894278	+	G	G
5	1208874	1208874	+	C	C
8	146067264	146067264	+	G	G
7	143747527	143747527	+	C	C
2	171822568	171822568	+	C	C
6	43472656	43472656	+	C	C
4	122854213	122854213	+	G	G
20	43836176	43836176	+	C	C
12	97147573	97147573	+	G	G
18	32887722	32887722	+	T	T
18	3067449	3067449	+	G	G
16	66436952	66436952	+	C	C
9	138662163	138662163	+	G	G
8	27650269	27650269	+	C	C
16	84212976	84212976	+	G	G

1	1234039	1234039	+	G	G
9	119187856	119187856	+	C	C
10	95719138	95719138	+	C	C
1	153303296	153303296	+	G	G
2	166211166	166211166	+	G	G
11	17415924	17415924	+	C	C
15	50212463	50212463	+	C	C
1	231473368	231473368	+	G	G
13	29012477	29012477	+	C	C
12	5603604	5603604	+	G	G
8	144812658	144812658	+	A	A
16	51175273	51175273	+	G	G
7	122755536	122755536	+	G	G
3	108129532	108129532	+	C	C
6	28966604	28966604	+	G	G
2	139428747	139428747	+	C	C
16	31580514	31580514	+	C	C
20	10036250	10036250	+	C	C
18	14763947	14763947	+	C	C
3	51112868	51112868	+	G	G
20	45131272	45131272	+	G	G
19	36940091	36940091	+	G	G
5	40981567	40981567	+	G	G
3	12645699	12645699	+	G	G
12	81778015	81778015	+	G	G
16	20043464	20043464	+	G	G
7	20768099	20768099	+	G	G
6	108066181	108066181	+	C	C
12	2602389	2602389	+	C	C
1	169256627	169256627	+	G	G
10	105194075	105194075	+	C	C
12	51695929	51695929	+	G	G
6	127775201	127775201	+	G	G
19	11665062	11665062	+	G	G
1	12064168	12064168	+	A	A
7	2773115	2773115	+	G	G
19	18120419	18120419	+	C	C
19	19338968	19338968	+	G	G
18	47110142	47110142	+	G	G
1	3686361	3686361	+	G	G
12	10133202	10133202	+	C	C
1	17749279	17749279	+	G	G
3	12458252	12458252	+	T	T

GL000219.1	88391	88391	+	C	C
X	72667442	72667442	+	C	C
1	34112283	34112283	+	G	G
20	40713343	40713343	+	C	C
19	56515169	56515169	+	C	C
6	40400258	40400258	+	G	G
1	248039582	248039582	+	G	G
3	52940182	52940182	+	G	G
19	33517665	33517665	+	C	C
15	49574260	49574260	+	C	C
2	128477786	128477786	+	G	G
19	53770173	53770173	+	G	G
3	13916549	13916549	+	C	C
21	11049586	11049586	+	G	G
2	207613859	207613859	+	G	G
11	62484587	62484587	+	G	G
19	2878369	2878369	+	G	G
16	17232357	17232357	+	G	G
7	31014619	31014619	+	G	G
22	18027972	18027972	+	G	G
17	3366040	3366040	+	T	T
1	91851185	91851185	+	C	C
X	123775641	123775641	+	C	C
7	82996860	82996860	+	C	C
21	11058213	11058213	+	G	G
1	35334324	35334324	+	G	G
17	8053425	8053425	+	C	C
8	144378583	144378583	+	C	C
12	2719805	2719805	+	C	C
2	139428949	139428949	+	C	C
16	698223	698223	+	G	G
X	70147196	70147196	+	C	C
4	103808666	103808666	+	C	C
9	101148040	101148040	+	G	G
1	28857053	28857053	+	C	C
6	159146550	159146550	+	G	G
5	73163945	73163945	+	C	C
9	72521086	72521086	+	G	G
19	54301623	54301623	+	G	G
8	118159308	118159308	+	G	G
17	12666495	12666495	+	C	C
1	98164935	98164935	+	C	C
12	123900366	123900366	+	G	G

5	178556949	178556949	+	C	C
10	69748482	69748482	+	C	C
11	121174356	121174356	+	C	C
17	45904099	45904099	+	G	G
X	69649801	69649801	+	C	C
17	74023239	74023239	+	G	G
4	103966100	103966100	+	C	C
8	39694732	39694732	+	C	C
17	56291740	56291740	+	C	C
9	117552789	117552789	+	G	G
4	53468114	53468114	+	G	G
11	121391549	121391549	+	C	C
4	69362447	69362447	+	G	G
17	61781160	61781160	+	C	C
1	203834217	203834217	+	C	C
2	179417214	179417214	+	C	C
6	7580776	7580776	+	G	G
7	55902117	55902117	+	C	C
X	152113961	152113961	+	C	C
17	48616591	48616591	+	G	G
2	27360917	27360917	+	G	G
17	74158008	74158008	+	G	G
12	113543544	113543544	+	G	G
19	17756868	17756868	+	G	G
3	31658488	31658488	+	G	G
2	223553124	223553124	+	C	C
1	152281979	152281979	+	C	C
17	25932834	25932834	+	C	C
10	45669974	45669974	+	G	G
7	150417539	150417539	+	C	C
1	156085066	156085066	+	G	G
10	84118522	84118522	+	C	C
19	46543049	46543049	+	G	G
14	22675923	22675923	+	G	G
15	35045390	35045390	+	C	C
17	33448787	33448787	+	G	G
7	16655510	16655510	+	G	G
19	17734351	17734351	+	G	G
11	56949997	56949997	+	G	G
11	55433342	55433342	+	G	G
7	48407442	48407442	+	G	G
2	179664129	179664129	+	C	C
11	36300091	36300091	+	G	G

1	55559753	55559753	+	G	G
16	84695469	84695469	+	C	C
11	123508901	123508901	+	C	C
12	53045473	53045473	+	C	C
6	51915060	51915060	+	C	C
19	45175212	45175212	+	T	T
17	37187885	37187885	+	G	G
5	43294182	43294182	+	T	T
13	28897045	28897045	+	C	C
2	168101530	168101530	+	G	G
13	19442316	19442316	+	G	G
16	3544590	3544590	+	G	G
12	62954155	62954155	+	C	C
22	36585984	36585984	+	C	C
19	58600066	58600066	+	G	G
8	110516714	110516714	+	G	G
5	21975272	21975272	+	C	C
1	151746971	151746971	+	G	G
8	35631834	35631834	+	C	C
2	133539621	133539621	+	C	C
17	10416998	10416998	+	G	G
6	43415432	43415432	+	G	G
7	82585683	82585683	+	C	C
19	52132655	52132655	+	C	C
11	50003387	50003387	+	C	C
20	3842060	3842060	+	C	C
4	91321206	91321206	+	G	G
9	4118530	4118530	+	G	G
21	47544628	47544628	+	G	G
12	21011428	21011428	+	G	G
16	4796394	4796394	+	G	G
11	18322413	18322413	+	G	G
16	61760902	61760902	+	C	C
19	16536051	16536051	+	G	G
17	3119101	3119101	+	C	C
18	72238493	72238493	+	G	G
5	9122906	9122906	+	G	G
2	191900949	191900949	+	G	G
7	127973381	127973381	+	G	G
16	2031007	2031007	+	G	G
1	78326917	78326917	+	G	G
3	56114993	56114993	+	C	C
13	24895551	24895551	+	C	C

11	64564018	64564018	+	G	G
7	154684688	154684688	+	C	C
20	36856563	36856563	+	G	G
1	11561619	11561619	+	C	C
3	138038367	138038367	+	G	G
4	79371464	79371464	+	G	G
3	38639283	38639283	+	G	G
7	905665	905665	+	G	G
15	75931970	75931970	+	G	G
4	70865394	70865394	+	C	C
5	140626178	140626178	+	C	C
16	74706276	74706276	+	G	G
5	42801337	42801337	+	G	G
4	146823329	146823329	+	G	G
12	21727219	21727219	+	G	G
5	150029703	150029703	+	C	C
11	66626492	66626492	+	G	G
11	4510138	4510138	+	C	C
18	7013944	7013944	+	G	G
4	115751011	115751011	+	C	C
1	39798312	39798312	+	G	G
15	72637941	72637941	+	G	G
12	8082528	8082528	+	C	C
5	42719349	42719349	+	G	G
19	38985047	38985047	+	C	C
1	236572558	236572558	+	C	C
3	35732361	35732361	+	C	C
7	14797337	14797337	+	C	C
1	157514167	157514167	+	C	C
14	35183874	35183874	+	G	G
16	72821154	72821154	+	C	C
5	141033746	141033746	+	G	G
1	113252776	113252776	+	T	T
19	56244884	56244884	+	C	C
17	60484517	60484517	+	G	G
1	36026254	36026254	+	G	G
19	49129245	49129245	+	C	C
14	68109066	68109066	+	G	G
4	185038033	185038033	+	C	C
16	19492713	19492713	+	C	C
1	17593246	17593246	+	C	C
5	177419822	177419822	+	T	T
4	74276105	74276105	+	G	G



5	153065824	153065824	+	G	G
17	66130933	66130933	+	C	C
12	65672566	65672566	+	C	C
7	141767183	141767183	+	C	C
19	9068052	9068052	+	G	G
9	113170459	113170459	+	C	C
1	144816614	144816614	+	C	C
12	56848137	56848137	+	G	G
3	167272452	167272452	+	C	C
14	52466476	52466476	+	C	C
4	79418071	79418071	+	G	G
3	123071390	123071390	+	G	G
20	18794445	18794445	+	G	G
7	117003535	117003535	+	C	C
3	108788542	108788542	+	C	C
7	151483575	151483575	+	C	C
4	189060802	189060802	+	G	G
1	248285699	248285699	+	G	G
17	61958493	61958493	+	G	G
18	47527697	47527697	+	G	G
1	186647394	186647394	+	T	T
7	72658318	72658318	+	C	C
5	75893407	75893407	+	C	C
19	46387913	46387913	+	G	G
11	123814182	123814182	+	G	G
16	51174488	51174488	+	G	G
13	100543576	100543576	+	C	C
22	25023360	25023360	+	C	C
5	176862046	176862046	+	C	C
10	127542738	127542738	+	C	C
6	85446404	85446404	+	C	C
16	3406670	3406670	+	C	C
6	152826379	152826379	+	G	G
1	181701979	181701979	+	G	G
7	73944153	73944153	+	G	G
14	94770671	94770671	+	G	G
7	144015484	144015484	+	G	G
11	3423085	3423085	+	C	C
8	39634655	39634655	+	G	G
15	71953006	71953006	+	C	C
17	30190266	30190266	+	G	G
16	22926529	22926529	+	C	C
14	90734570	90734570	+	A	A

6	52622712	52622712	+	T	T
16	89351344	89351344	+	G	G
9	123594146	123594146	+	A	A
1	97700503	97700503	+	G	G
16	14916925	14916925	+	C	C
2	152520256	152520256	+	C	C
5	52221129	52221129	+	G	G
4	1374712	1374712	+	G	G
8	105393481	105393481	+	G	G
12	70915226	70915226	+	A	A
12	2788659	2788659	+	G	G
22	44645535	44645535	+	C	C
14	101493146	101493146	+	G	G
12	14650808	14650808	+	C	C
5	35807025	35807025	+	C	C
4	147177519	147177519	+	C	C
11	31327203	31327203	+	G	G
8	144773847	144773847	+	C	C
3	140178451	140178451	+	G	G
18	7231394	7231394	+	C	C
22	50893315	50893315	+	C	C
2	152317738	152317738	+	A	A
13	39343753	39343753	+	G	G
11	118343213	118343213	+	C	C
6	26156775	26156775	+	G	G
17	21319539	21319539	+	C	C
2	202050595	202050595	+	G	G
1	50884462	50884462	+	C	C
3	68782305	68782305	+	C	C
2	21229885	21229885	+	G	G
8	113529349	113529349	+	C	C
20	50230268	50230268	+	G	G
11	77639495	77639495	+	C	C
14	105927152	105927152	+	C	C
6	149700322	149700322	+	G	G
13	72049284	72049284	+	C	C
10	102541039	102541039	+	C	C
6	55223928	55223928	+	C	C
2	74329108	74329108	+	C	C
17	61762887	61762887	+	C	C
11	44939578	44939578	+	C	C
1	179834368	179834368	+	G	G
X	18230694	18230694	+	A	A

1	201182536	201182536	+	G	G
5	71743204	71743204	+	C	C
16	70164343	70164343	+	C	C
12	21727189	21727189	+	G	G
X	118972010	118972010	+	C	C
12	6464954	6464954	+	C	C
2	128321809	128321809	+	G	G
4	114823854	114823854	+	C	C
6	73787102	73787102	+	T	T
2	173786991	173786991	+	C	C
17	36499085	36499085	+	G	G
19	37441893	37441893	+	C	C
16	24135192	24135192	+	G	G
8	104513105	104513105	+	T	T
2	167089910	167089910	+	G	G
11	61050353	61050353	+	G	G
3	134339675	134339675	+	C	C
8	2836317	2836317	+	T	T
9	129642740	129642740	+	C	C
16	1391446	1391446	+	G	G
1	177250208	177250208	+	G	G
4	73179534	73179534	+	G	G
16	67181031	67181031	+	C	C
10	7801865	7801865	+	G	G
1	34158630	34158630	+	C	C
16	77401554	77401554	+	C	C
GL000195.1	86601	86601	+	A	A
6	29589562	29589562	+	G	G
5	26881616	26881616	+	C	C
2	69093560	69093560	+	C	C
22	36634830	36634830	+	G	G
14	88652406	88652406	+	C	C
14	61180101	61180101	+	A	A
8	145094856	145094856	+	C	C
22	17447250	17447250	+	C	C
1	35852706	35852706	+	G	G
19	5778667	5778667	+	G	G
1	11562082	11562082	+	C	C
22	17488976	17488976	+	C	C
1	151377455	151377455	+	G	G
X	109696273	109696273	+	C	C
2	176988963	176988963	+	C	C
16	74497355	74497355	+	G	G

4	153897486	153897486	+	G	G
14	75264852	75264852	+	C	C
19	58982376	58982376	+	C	C
4	155749030	155749030	+	C	C
11	293486	293486	+	C	C
6	150063574	150063574	+	G	G
2	185800935	185800935	+	C	C
8	73848248	73848248	+	G	G
7	93067422	93067422	+	C	C
7	48317722	48317722	+	C	C
2	198650724	198650724	+	C	C
6	88255359	88255359	+	G	G
7	7477083	7477083	+	C	C
7	55238274	55238274	+	C	C
1	94650528	94650528	+	C	C
10	79795554	79795554	+	A	A
5	140750104	140750104	+	G	G
20	44278037	44278037	+	C	C
9	109746495	109746495	+	C	C
19	58153445	58153445	+	C	C
16	25228600	25228600	+	G	G
15	57823956	57823956	+	G	G
11	55563697	55563697	+	C	C
9	79827939	79827939	+	C	C
13	42874510	42874510	+	C	C
13	84454883	84454883	+	C	C
19	13428094	13428094	+	C	C
6	146271550	146271550	+	G	G
1	104113276	104113276	+	G	G
2	234652503	234652503	+	C	C
10	27538795	27538795	+	C	C
8	40011187	40011187	+	G	G
12	7344248	7344248	+	G	G
12	53564275	53564275	+	G	G
19	758455	758455	+	C	C
12	57619423	57619423	+	T	T
6	2685774	2685774	+	C	C
8	113301664	113301664	+	G	G
11	5373379	5373379	+	C	C
3	121647395	121647395	+	C	C
6	55638936	55638936	+	C	C
12	66152472	66152472	+	G	G
19	48385446	48385446	+	G	G

7	150027742	150027742	+	G	G
1	226074602	226074602	+	G	G
15	83932130	83932130	+	G	G
2	183088622	183088622	+	C	C
7	122755447	122755447	+	G	G
4	103966101	103966101	+	C	C
19	15338209	15338209	+	C	C
11	5221034	5221034	+	G	G
19	56443522	56443522	+	G	G
6	30891345	30891345	+	C	C
4	69693201	69693201	+	G	G
X	106016288	106016288	+	C	C
14	25101090	25101090	+	G	G
8	26628173	26628173	+	G	G
4	123197255	123197255	+	C	C
1	24658102	24658102	+	G	G
22	22869952	22869952	+	C	C
12	29689087	29689087	+	T	T
17	79517372	79517372	+	G	G
19	20044655	20044655	+	C	C
8	39821142	39821142	+	C	C
X	102004653	102004653	+	C	C
4	3432702	3432702	+	C	C
5	161113254	161113254	+	G	G
2	102792132	102792132	+	G	G
3	58194001	58194001	+	C	C
9	100899913	100899913	+	C	C
3	127441354	127441354	+	G	G
11	64762005	64762005	+	T	T
7	150389501	150389501	+	C	C
12	22602656	22602656	+	G	G
2	196765209	196765209	+	G	G
3	17226604	17226604	+	G	G
9	124530834	124530834	+	C	C
19	41770541	41770541	+	G	G
9	116779113	116779113	+	G	G
12	6965611	6965611	+	C	C
3	118867127	118867127	+	C	C
4	126240654	126240654	+	G	G
2	71650506	71650506	+	C	C
1	176738892	176738892	+	C	C
3	3886176	3886176	+	C	C
1	158590242	158590242	+	G	G

7	50560638	50560638	+	C	C
3	46009713	46009713	+	C	C
22	18028668	18028668	+	C	C
11	5730387	5730387	+	C	C
6	31962470	31962470	+	G	G
4	166960589	166960589	+	C	C
6	151914356	151914356	+	C	C
6	151686899	151686899	+	C	C
22	22869951	22869951	+	C	C
15	74335404	74335404	+	C	C
14	24528906	24528906	+	C	C
19	31039066	31039066	+	G	G
X	302203	302203	+	C	C
1	161512635	161512635	+	C	C
14	92258782	92258782	+	T	T
14	21896152	21896152	+	G	G
19	20748612	20748612	+	C	C
7	143632988	143632988	+	C	C
10	96522549	96522549	+	C	C
16	17232358	17232358	+	G	G
12	108641935	108641935	+	G	G
7	138456007	138456007	+	G	G
1	71331504	71331504	+	G	G
8	2806887	2806887	+	C	C
7	14653031	14653031	+	G	G
20	62571788	62571788	+	G	G
18	14763864	14763864	+	G	G
6	22570002	22570002	+	C	C
2	30955428	30955428	+	G	G
12	109998863	109998863	+	C	C
11	6661403	6661403	+	G	G
4	1377614	1377614	+	C	C
2	113818484	113818484	+	G	G
7	100685707	100685707	+	C	C
3	183996413	183996413	+	C	C
21	41450620	41450620	+	C	C
5	121188003	121188003	+	C	C
17	74014074	74014074	+	G	G
13	75813554	75813554	+	C	C
11	63078549	63078549	+	C	C
12	43821145	43821145	+	G	G
12	55715260	55715260	+	C	C
11	26720074	26720074	+	T	T

14	96848663	96848663	+	G	G
2	152520169	152520169	+	C	C
11	129744194	129744194	+	A	A
9	113457809	113457809	+	G	G
1	75038215	75038215	+	C	C
10	124908000	124908000	+	G	G
1	100378042	100378042	+	C	C
16	23695390	23695390	+	C	C
2	192701327	192701327	+	C	C
3	129303248	129303248	+	G	G
11	11964157	11964157	+	G	G
14	57938250	57938250	+	C	C
10	49414923	49414923	+	C	C
2	150325252	150325252	+	C	C
11	11373968	11373968	+	G	G
20	34285660	34285660	+	G	G
2	168103879	168103879	+	G	G
3	2861254	2861254	+	C	C
4	120193220	120193220	+	C	C
20	57767919	57767919	+	C	C
1	24022829	24022829	+	T	T
9	124535097	124535097	+	C	C
6	159457436	159457436	+	G	G
13	19625317	19625317	+	C	C
1	144520871	144520871	+	C	C
12	108985637	108985637	+	C	C
2	44502879	44502879	+	C	C
1	12888541	12888541	+	G	G
22	22516962	22516962	+	C	C
10	90699265	90699265	+	G	G
19	14208362	14208362	+	G	G
7	36579976	36579976	+	G	G
4	37848707	37848707	+	C	C
1	40228853	40228853	+	C	C
4	75673313	75673313	+	C	C
X	5827132	5827132	+	G	G
1	207111086	207111086	+	G	G
1	166891939	166891939	+	C	C
10	129179590	129179590	+	C	C
19	49259723	49259723	+	C	C
2	152830242	152830242	+	C	C
19	57641786	57641786	+	G	G
12	52825810	52825810	+	C	C

5	128994404	128994404	+	G	G
11	61295495	61295495	+	C	C
1	152192141	152192141	+	C	C
1	111862963	111862963	+	G	G
11	49974850	49974850	+	G	G
11	7726120	7726120	+	G	G
2	135781097	135781097	+	C	C
11	11964024	11964024	+	G	G
15	34646657	34646657	+	G	G
11	64572608	64572608	+	G	G
6	76624777	76624777	+	G	G
13	29040997	29040997	+	T	T
18	44559779	44559779	+	C	C
17	62271079	62271079	+	G	G
1	33958853	33958853	+	C	C
2	160176705	160176705	+	A	A
5	5462263	5462263	+	C	C
1	115256528	115256528	+	T	T
18	28576899	28576899	+	C	C
22	50893314	50893314	+	C	C
12	81283035	81283035	+	G	G
1	12785617	12785617	+	G	G
1	39494450	39494450	+	G	G
3	184295517	184295517	+	C	C
2	27169779	27169779	+	C	C
12	46321919	46321919	+	G	G
21	39764266	39764266	+	G	G
1	171154948	171154948	+	G	G
19	33639800	33639800	+	C	C
22	30418679	30418679	+	C	C
6	96651459	96651459	+	C	C
13	114288317	114288317	+	C	C
4	100228869	100228869	+	G	G
9	114148657	114148657	+	C	C
13	42874762	42874762	+	C	C
8	110985004	110985004	+	C	C
X	89177140	89177140	+	G	G
7	100552491	100552491	+	C	C
19	20229030	20229030	+	C	C
19	55045160	55045160	+	T	T
1	170043673	170043673	+	G	G
12	1995145	1995145	+	G	G
1	74957895	74957895	+	C	C



19	9069570	9069570	+	G	G
10	37422861	37422861	+	C	C
7	142176567	142176567	+	C	C
X	10176427	10176427	+	G	G
15	66845380	66845380	+	C	C
1	155921720	155921720	+	G	G
12	118199001	118199001	+	G	G
2	233347133	233347133	+	G	G
19	54677858	54677858	+	G	G
15	40662068	40662068	+	C	C
20	62320410	62320410	+	C	C
22	23237736	23237736	+	G	G
1	166963291	166963291	+	C	C
15	43237411	43237411	+	G	G
11	121454244	121454244	+	G	G
9	39176085	39176085	+	C	C
X	26212817	26212817	+	C	C
4	162421280	162421280	+	C	C
1	41494334	41494334	+	C	C
6	136472372	136472372	+	G	G
2	29383208	29383208	+	C	C
1	158326628	158326628	+	C	C
9	90266522	90266522	+	C	C
5	79335937	79335937	+	C	C
2	102968057	102968057	+	C	C
19	46127977	46127977	+	C	C
14	21833070	21833070	+	G	G
1	43891769	43891769	+	G	G
9	115422064	115422064	+	C	C
14	26918116	26918116	+	A	A
13	42385427	42385427	+	G	G
8	68968189	68968189	+	C	C
19	55597473	55597473	+	G	G
2	179437790	179437790	+	C	C
2	196726520	196726520	+	G	G
11	15212308	15212308	+	A	A
14	105413624	105413624	+	G	G
15	22482917	22482917	+	G	G
X	57473369	57473369	+	G	G
21	42748977	42748977	+	C	C
13	32776085	32776085	+	C	C
5	6751164	6751164	+	C	C
8	110283349	110283349	+	G	G

10	49632628	49632628	+	C	C
12	51882560	51882560	+	C	C
8	72182026	72182026	+	G	G
9	21227539	21227539	+	G	G
6	76023051	76023051	+	G	G
19	6459574	6459574	+	G	G
19	17836931	17836931	+	C	C
2	27803256	27803256	+	G	G
3	171320888	171320888	+	G	G
10	103868730	103868730	+	G	G
19	37643171	37643171	+	G	G
16	14029451	14029451	+	C	C
9	78804060	78804060	+	G	G
3	98110043	98110043	+	C	C
18	2697971	2697971	+	G	G
9	96439880	96439880	+	G	G
19	4433440	4433440	+	G	G
11	3249814	3249814	+	G	G
3	24018851	24018851	+	C	C
1	196712663	196712663	+	G	G
4	164393287	164393287	+	G	G
1	85122088	85122088	+	G	G
1	57431638	57431638	+	G	G
X	151303297	151303297	+	C	C
5	140567977	140567977	+	G	G
21	35288071	35288071	+	C	C
9	135929310	135929310	+	C	C
1	228003834	228003834	+	C	C
3	180324303	180324303	+	G	G
12	9261995	9261995	+	G	G
10	105006363	105006363	+	G	G
1	109825161	109825161	+	C	C
7	149515056	149515056	+	C	C
19	45175213	45175213	+	C	C
1	12887667	12887667	+	C	C
21	11039138	11039138	+	G	G
11	16776616	16776616	+	T	T
4	173961193	173961193	+	T	T
19	42224867	42224867	+	C	C
1	148891639	148891639	+	C	C
12	65564530	65564530	+	C	C
9	77377706	77377706	+	C	C
8	55540862	55540862	+	C	C

11	123886642	123886642	+	C	C
2	234775238	234775238	+	G	G
22	50598157	50598157	+	G	G
4	3225136	3225136	+	G	G
1	119988632	119988632	+	G	G
12	48369332	48369332	+	G	G
8	144943483	144943483	+	C	C
22	17072257	17072257	+	C	C
14	105452939	105452939	+	C	C
11	68665456	68665456	+	A	A
19	43406587	43406587	+	C	C
19	9077652	9077652	+	C	C
2	48027444	48027444	+	A	A
22	37770084	37770084	+	G	G
10	61835256	61835256	+	G	G
2	25462012	25462012	+	G	G
16	3254815	3254815	+	C	C
16	30779623	30779623	+	C	C
3	48310051	48310051	+	C	C
20	55910508	55910508	+	C	C
1	236143127	236143127	+	C	C
X	84563138	84563138	+	C	C
19	51919467	51919467	+	G	G
14	21762900	21762900	+	C	C
11	71259851	71259851	+	C	C
2	51255202	51255202	+	G	G
5	110441019	110441019	+	T	T
6	159457437	159457437	+	G	G
5	149215864	149215864	+	G	G
5	151771948	151771948	+	G	G
1	116676045	116676045	+	G	G
4	10089481	10089481	+	G	G
1	215408287	215408287	+	C	C
21	41710112	41710112	+	C	C
1	18023820	18023820	+	C	C
16	29974451	29974451	+	C	C
14	75019602	75019602	+	G	G
20	60994786	60994786	+	C	C
1	57219549	57219549	+	T	T
17	26874569	26874569	+	G	G
10	98806799	98806799	+	G	G
14	106478094	106478094	+	C	C
4	8469739	8469739	+	T	T

6	167796323	167796323	+	C	C
1	15789333	15789333	+	G	G
10	44139945	44139945	+	C	C
17	39739633	39739633	+	C	C
6	31962469	31962469	+	G	G
16	2546846	2546846	+	C	C
1	224420968	224420968	+	A	A
2	223066845	223066845	+	G	G
8	72977692	72977692	+	C	C
15	100942967	100942967	+	C	C
3	16630195	16630195	+	C	C
3	154866365	154866365	+	C	C
8	110980575	110980575	+	C	C
1	33736105	33736105	+	G	G
11	6291976	6291976	+	G	G
4	20711353	20711353	+	C	C
1	104118101	104118101	+	C	C
12	124092996	124092996	+	C	C
1	207658866	207658866	+	A	A
6	30139985	30139985	+	G	G
12	13716008	13716008	+	G	G
14	106805193	106805193	+	C	C
8	10480718	10480718	+	G	G
3	42678519	42678519	+	A	A
10	3159086	3159086	+	A	A
2	27804481	27804481	+	C	C
18	31319127	31319127	+	G	G
1	153122487	153122487	+	C	C
18	59483262	59483262	+	C	C
20	52824634	52824634	+	C	C
4	39247034	39247034	+	C	C
2	55252359	55252359	+	G	G
19	36122409	36122409	+	G	G
19	9057147	9057147	+	G	G
2	10267092	10267092	+	C	C
6	43272508	43272508	+	C	C
19	10103743	10103743	+	C	C
2	228141184	228141184	+	G	G
19	4552651	4552651	+	C	C
17	6544320	6544320	+	G	G
7	74212018	74212018	+	C	C
17	4647696	4647696	+	G	G
15	67687881	67687881	+	G	G

9	27950133	27950133	+	C	C
10	82348440	82348440	+	G	G
1	55080470	55080470	+	G	G
2	192700554	192700554	+	G	G
2	170663349	170663349	+	A	A
4	70715151	70715151	+	C	C
12	55886995	55886995	+	C	C
1	226074603	226074603	+	G	G
18	52556597	52556597	+	G	G
16	2233715	2233715	+	G	G
6	117629985	117629985	+	C	C
7	90006839	90006839	+	C	C
4	94343942	94343942	+	C	C
8	17072765	17072765	+	C	C
Y	16941830	16941830	+	C	C
19	15338467	15338467	+	G	G
2	227892709	227892709	+	C	C
X	35821078	35821078	+	G	G
3	194062766	194062766	+	G	G
6	43418981	43418981	+	C	C
22	29833653	29833653	+	C	C
15	40558265	40558265	+	C	C
8	146156390	146156390	+	G	G
2	238253835	238253835	+	C	C
13	41834893	41834893	+	G	G
7	141952147	141952147	+	C	C
11	111405295	111405295	+	C	C
10	27692241	27692241	+	C	C
7	45108060	45108060	+	C	C
8	39080635	39080635	+	C	C
2	108479195	108479195	+	G	G
1	168054909	168054909	+	A	A
16	30995381	30995381	+	C	C
11	3041510	3041510	+	G	G
10	105215418	105215418	+	G	G
11	64596985	64596985	+	G	G
X	2825406	2825406	+	G	G
1	158615343	158615343	+	G	G
12	2675731	2675731	+	G	G
18	57103301	57103301	+	C	C
6	32609754	32609754	+	C	C
19	53770172	53770172	+	G	G
3	130290189	130290189	+	G	G

16	68328620	68328620	+	G	G
X	111019805	111019805	+	C	C
17	26816331	26816331	+	C	C
19	43709715	43709715	+	C	C
13	29040932	29040932	+	C	C
19	44891068	44891068	+	G	G
4	164271943	164271943	+	C	C
5	485289	485289	+	C	C
18	30093483	30093483	+	C	C
2	7160804	7160804	+	G	G
15	23262379	23262379	+	G	G
4	126242399	126242399	+	G	G
6	4119470	4119470	+	G	G
1	156146569	156146569	+	C	C
9	125330040	125330040	+	G	G
17	37187975	37187975	+	G	G
19	15754722	15754722	+	C	C
9	136198650	136198650	+	G	G
17	7808462	7808462	+	G	G
1	152329880	152329880	+	C	C
1	166891940	166891940	+	C	C
12	48961785	48961785	+	G	G
10	118236283	118236283	+	A	A
2	167159671	167159671	+	C	C
8	144800458	144800458	+	T	T
19	55222246	55222246	+	C	C
9	78547335	78547335	+	G	G
11	71850855	71850855	+	C	C
22	45960846	45960846	+	T	T
11	57946977	57946977	+	C	C
19	51381993	51381993	+	G	G
10	72360548	72360548	+	G	G
3	8675581	8675581	+	C	C
4	83582169	83582169	+	G	G
12	49884488	49884488	+	G	G
22	17488975	17488975	+	C	C
8	30889811	30889811	+	G	G
1	47028491	47028491	+	G	G
12	57549969	57549969	+	C	C
X	40511078	40511078	+	G	G
3	138022477	138022477	+	G	G
10	27459708	27459708	+	C	C
10	95372407	95372407	+	C	C

5	41196033	41196033	+	G	G
7	150699381	150699381	+	G	G
2	9498987	9498987	+	C	C
18	14799244	14799244	+	C	C
8	101190049	101190049	+	G	G
3	158546813	158546813	+	C	C
7	138433961	138433961	+	C	C
1	209933534	209933534	+	G	G
10	43615600	43615600	+	C	C
3	40433689	40433689	+	G	G
X	148037388	148037388	+	C	C
7	122839917	122839917	+	G	G
20	51870346	51870346	+	G	G
12	21242879	21242879	+	C	C
11	9047301	9047301	+	G	G
1	75038325	75038325	+	G	G
10	27052869	27052869	+	G	G
1	152129425	152129425	+	G	G
11	89486333	89486333	+	G	G
6	100368900	100368900	+	G	G
19	54848261	54848261	+	G	G
5	13714667	13714667	+	G	G
12	11506873	11506873	+	C	C
3	51696457	51696457	+	C	C
5	26902777	26902777	+	G	G
11	61070098	61070098	+	G	G
1	231471702	231471702	+	C	C
3	128706565	128706565	+	G	G
3	26751196	26751196	+	C	C
19	55739636	55739636	+	G	G
9	4285999	4285999	+	C	C
1	223986346	223986346	+	G	G
1	204401418	204401418	+	G	G
8	110476889	110476889	+	G	G
9	137726894	137726894	+	C	C
15	94883438	94883438	+	G	G
X	70339629	70339629	+	G	G
1	196748991	196748991	+	G	G
12	123307997	123307997	+	G	G
3	38938483	38938483	+	C	C
19	39038895	39038895	+	C	C
21	15537711	15537711	+	C	C
12	57112020	57112020	+	G	G

14	92170936	92170936	+	A	A
3	172163192	172163192	+	G	G
6	83880105	83880105	+	C	C
7	39247093	39247093	+	G	G
13	96536810	96536810	+	G	G
12	49884484	49884484	+	C	C
1	35852708	35852708	+	A	A
6	32029489	32029489	+	C	C
6	152529126	152529126	+	G	G
21	32526684	32526684	+	T	T
19	10254709	10254709	+	A	A
X	26212255	26212255	+	C	C
17	5036747	5036747	+	C	C
18	28916383	28916383	+	C	C
5	13901480	13901480	+	G	G
2	160673380	160673380	+	G	G
9	100692989	100692989	+	G	G
19	11565374	11565374	+	G	G
1	228362557	228362557	+	C	C
11	56757297	56757297	+	G	G
5	151771605	151771605	+	A	A
1	247751723	247751723	+	C	C
19	53303738	53303738	+	G	G
15	86838538	86838538	+	G	G
19	49392766	49392766	+	C	C
1	79002435	79002435	+	C	C
6	134212980	134212980	+	G	G
11	63230959	63230959	+	G	G
15	79296425	79296425	+	G	G
8	113392610	113392610	+	G	G
14	65007685	65007685	+	C	C
10	121563788	121563788	+	C	C
7	142131834	142131834	+	C	C
21	30365209	30365209	+	G	G
1	155018877	155018877	+	G	G
19	10505764	10505764	+	A	A
8	9912138	9912138	+	C	C
1	175355175	175355175	+	G	G
2	228884649	228884649	+	C	C
17	34097328	34097328	+	C	C
7	106545707	106545707	+	G	G
11	19077207	19077207	+	C	C
19	17922850	17922850	+	C	C



6	159670135	159670135	+	G	G
2	153484915	153484915	+	G	G
12	123343422	123343422	+	C	C
13	36229817	36229817	+	C	C
4	69816844	69816844	+	G	G
18	28993279	28993279	+	G	G
11	58206962	58206962	+	G	G
6	167347552	167347552	+	G	G
15	42058237	42058237	+	A	A
12	7586232	7586232	+	C	C
3	52968907	52968907	+	A	A
2	17997872	17997872	+	G	G
3	51671167	51671167	+	C	C
14	105414882	105414882	+	C	C
1	70446071	70446071	+	C	C
12	55863106	55863106	+	T	T
9	37537857	37537857	+	C	C
14	106321780	106321780	+	C	C
7	139229038	139229038	+	G	G
2	38302163	38302163	+	G	G
15	31206223	31206223	+	C	C
1	237754057	237754057	+	G	G
5	131549626	131549626	+	G	G
11	47358988	47358988	+	G	G
8	105361057	105361057	+	G	G
13	25507152	25507152	+	G	G
18	12277312	12277312	+	C	C
19	59009894	59009894	+	G	G
12	66731940	66731940	+	C	C
15	25420395	25420395	+	C	C
5	26902778	26902778	+	G	G
17	41006659	41006659	+	C	C
3	134322556	134322556	+	C	C
1	86920996	86920996	+	C	C
1	228556549	228556549	+	C	C
7	158663911	158663911	+	C	C
12	98995222	98995222	+	C	C
6	55039559	55039559	+	C	C
16	30309711	30309711	+	G	G
14	20444378	20444378	+	C	C
3	101023036	101023036	+	C	C
12	11506690	11506690	+	C	C
13	76379888	76379888	+	G	G

18	50985733	50985733	+	G	G
19	40424312	40424312	+	G	G
3	52858419	52858419	+	G	G
16	30676645	30676645	+	C	C
X	36163024	36163024	+	C	C
2	32476513	32476513	+	C	C
9	129154438	129154438	+	G	G
12	12514272	12514272	+	C	C
1	63836568	63836568	+	G	G
19	53669266	53669266	+	C	C
8	109797061	109797061	+	C	C
16	61689428	61689428	+	C	C
19	362390	362390	+	C	C
3	98491760	98491760	+	G	G
12	57178745	57178745	+	G	G
17	8700978	8700978	+	C	C
22	46652686	46652686	+	C	C
17	37263711	37263711	+	G	G
12	62997465	62997465	+	C	C
1	47333659	47333659	+	C	C
14	50267355	50267355	+	C	C
19	9063816	9063816	+	G	G
2	88825923	88825923	+	G	G
15	89010404	89010404	+	C	C
20	36940285	36940285	+	C	C
14	22386750	22386750	+	C	C
5	13719112	13719112	+	G	G
1	216246511	216246511	+	C	C
4	187005266	187005266	+	G	G
7	103292226	103292226	+	C	C
3	164754209	164754209	+	C	C
1	94474362	94474362	+	C	C
12	48372429	48372429	+	G	G
9	90501876	90501876	+	C	C
19	17679494	17679494	+	C	C
3	93598104	93598104	+	G	G
12	106461074	106461074	+	C	C
1	144520872	144520872	+	C	C
12	71971764	71971764	+	C	C
17	39775769	39775769	+	G	G
12	108685786	108685786	+	G	G
3	62110097	62110097	+	C	C
1	142803657	142803657	+	C	C

16	30038045	30038045	+	C	C
18	63511279	63511279	+	G	G
8	8176416	8176416	+	G	G
17	80046866	80046866	+	G	G
9	117552898	117552898	+	C	C
12	109294201	109294201	+	G	G
2	97494863	97494863	+	C	C
20	44313595	44313595	+	G	G
6	74063096	74063096	+	G	G
16	10524702	10524702	+	C	C
19	44832450	44832450	+	G	G
21	37775118	37775118	+	C	C
19	55224612	55224612	+	G	G
15	25223352	25223352	+	C	C
3	52823739	52823739	+	C	C
19	49863122	49863122	+	A	A
7	142032412	142032412	+	G	G
8	73848897	73848897	+	G	G
1	156437841	156437841	+	C	C
18	29044213	29044213	+	G	G
6	10410413	10410413	+	G	G
3	121810487	121810487	+	C	C
11	56409057	56409057	+	T	T
X	110459694	110459694	+	C	C
1	169500153	169500153	+	C	C
12	124885182	124885182	+	C	C
17	33802304	33802304	+	C	C
19	13411383	13411383	+	C	C
14	63175123	63175123	+	G	G
19	55175657	55175657	+	C	C
3	191888437	191888437	+	G	G
4	115585151	115585151	+	G	G
1	39893257	39893257	+	A	A
2	88427503	88427503	+	G	G
17	74902102	74902102	+	C	C
19	3964974	3964974	+	G	G
5	140182171	140182171	+	C	C
8	59409401	59409401	+	G	G
1	175325554	175325554	+	G	G
2	152521017	152521017	+	C	C
13	101759892	101759892	+	C	C
14	94844777	94844777	+	G	G
8	118817110	118817110	+	G	G

20	61574992	61574992	+	G	G
1	22453956	22453956	+	C	C
2	204735556	204735556	+	G	G
6	134350529	134350529	+	G	G
7	93065409	93065409	+	G	G
4	156634501	156634501	+	G	G
15	77771595	77771595	+	C	C
3	195481143	195481143	+	G	G
18	34802090	34802090	+	G	G
2	240969571	240969571	+	G	G
2	207516578	207516578	+	G	G
7	151164177	151164177	+	C	C
21	44949801	44949801	+	G	G
1	198721816	198721816	+	C	C
4	6865249	6865249	+	C	C
9	105757657	105757657	+	G	G
21	35183481	35183481	+	C	C
17	65942082	65942082	+	C	C
17	57057335	57057335	+	G	G
17	11572575	11572575	+	C	C
11	11989963	11989963	+	C	C
11	8720862	8720862	+	G	G
11	61976162	61976162	+	C	C
10	111637378	111637378	+	G	G
1	247978915	247978915	+	C	C
2	152411447	152411447	+	C	C
4	140375296	140375296	+	C	C
2	90199118	90199118	+	C	C
19	22157085	22157085	+	G	G
10	37430981	37430981	+	G	G
1	111441930	111441930	+	C	C
4	83769959	83769959	+	G	G
7	35242325	35242325	+	G	G
10	96116988	96116988	+	G	G
1	90473040	90473040	+	C	C
3	52328438	52328438	+	C	C
6	17764451	17764451	+	C	C
2	231035479	231035479	+	T	T
2	69177329	69177329	+	C	C
10	24762678	24762678	+	G	G
17	26890899	26890899	+	G	G
16	31427600	31427600	+	T	T
15	94858819	94858819	+	C	C

2	202700415	202700415	+	C	C
3	111432773	111432773	+	C	C
7	22270512	22270512	+	C	C
22	39436968	39436968	+	G	G
19	58565260	58565260	+	C	C
19	6820790	6820790	+	C	C
10	64973777	64973777	+	G	G
12	117217144	117217144	+	C	C
17	39974701	39974701	+	G	G
18	6876178	6876178	+	C	C
19	34292167	34292167	+	C	C
5	71743205	71743205	+	C	C
1	220440181	220440181	+	G	G
11	108383146	108383146	+	G	G
9	73296495	73296495	+	C	C
5	26903835	26903835	+	C	C
20	5282919	5282919	+	C	C
3	151165382	151165382	+	G	G
2	179590358	179590358	+	G	G
2	97494862	97494862	+	A	A
6	93967818	93967818	+	T	T
21	45876851	45876851	+	C	C
19	46195232	46195232	+	G	G
12	13716136	13716136	+	C	C
4	114823685	114823685	+	G	G
2	122122640	122122640	+	G	G
19	9071642	9071642	+	C	C
19	50243101	50243101	+	C	C
8	22054821	22054821	+	C	C
12	21331569	21331569	+	C	C
10	50953934	50953934	+	C	C
2	70900052	70900052	+	C	C
3	101570969	101570969	+	C	C
19	58046621	58046621	+	C	C
19	4216357	4216357	+	T	T
16	24372887	24372887	+	G	G
X	50376561	50376561	+	G	G
12	22211503	22211503	+	C	C
16	71218807	71218807	+	G	G
19	44470135	44470135	+	T	T
8	55537919	55537919	+	G	G
9	79117322	79117322	+	A	A
2	73678152	73678152	+	C	C

1	177030374	177030374	+	G	G
10	38651223	38651223	+	C	C
1	241519070	241519070	+	G	G
11	130784184	130784184	+	G	G
3	129546884	129546884	+	G	G
19	49392767	49392767	+	C	C
19	17780392	17780392	+	G	G
4	102981537	102981537	+	G	G
7	20725345	20725345	+	G	G
10	98386627	98386627	+	G	G
X	3228070	3228070	+	G	G
2	27677256	27677256	+	G	G
15	78211445	78211445	+	G	G
11	55579696	55579696	+	C	C
11	118343214	118343214	+	C	C
X	140995671	140995671	+	G	G
19	20748611	20748611	+	C	C
11	104778296	104778296	+	G	G
5	140221407	140221407	+	G	G
1	212799511	212799511	+	G	G
2	75899102	75899102	+	C	C
8	104513106	104513106	+	C	C
3	98235530	98235530	+	G	G
14	20404532	20404532	+	C	C
6	135769571	135769571	+	G	G
19	10791060	10791060	+	A	A
2	196822079	196822079	+	C	C
22	39418850	39418850	+	G	G
X	140993772	140993772	+	C	C
1	108231050	108231050	+	G	G
16	47627438	47627438	+	C	C
1	158817570	158817570	+	C	C
10	21104538	21104538	+	G	G
13	24465783	24465783	+	G	G
22	25756139	25756139	+	G	G
4	107845207	107845207	+	G	G
1	247875780	247875780	+	G	G
8	77763831	77763831	+	C	C
5	180622519	180622519	+	C	C
11	5602280	5602280	+	C	C
16	20471460	20471460	+	G	G
9	123900900	123900900	+	C	C
11	40136700	40136700	+	C	C

16	28878248	28878248	+	C	C
19	9066450	9066450	+	G	G
13	24823703	24823703	+	C	C
12	13906828	13906828	+	G	G
11	104897713	104897713	+	G	G
2	220354588	220354588	+	C	C
18	58038909	58038909	+	C	C
6	166836756	166836756	+	G	G
11	56950105	56950105	+	C	C
X	119575584	119575584	+	C	C
1	186097297	186097297	+	C	C
1	196920153	196920153	+	C	C
1	44433112	44433112	+	C	C
20	62320409	62320409	+	C	C
16	53337812	53337812	+	C	C
22	18301381	18301381	+	G	G
2	233273017	233273017	+	G	G
19	43762578	43762578	+	G	G
1	156085065	156085065	+	G	G
21	15538740	15538740	+	C	C
4	20734409	20734409	+	C	C
16	16180725	16180725	+	C	C
7	149557670	149557670	+	C	C
7	143807139	143807139	+	C	C
16	31073371	31073371	+	G	G
16	90162462	90162462	+	A	A
14	38723753	38723753	+	C	C
6	11105541	11105541	+	C	C
21	42842601	42842601	+	G	G
19	39104725	39104725	+	C	C
1	3647537	3647537	+	C	C
5	137680547	137680547	+	C	C
10	106153205	106153205	+	G	G
1	44433089	44433089	+	G	G
2	166900406	166900406	+	C	C
4	71510512	71510512	+	C	C
21	45547947	45547947	+	T	T
14	94780446	94780446	+	C	C
19	501749	501749	+	G	G
5	71490226	71490226	+	C	C
7	86415865	86415865	+	C	C
1	70504773	70504773	+	C	C
7	33054330	33054330	+	G	G

19	1986458	1986458	+	G	G
6	130465700	130465700	+	C	C
19	9959829	9959829	+	C	C
16	28549369	28549369	+	C	C
2	179417213	179417213	+	C	C
11	18322414	18322414	+	G	G
8	125568509	125568509	+	C	C
12	132529364	132529364	+	C	C
5	23526506	23526506	+	C	C
1	157516856	157516856	+	G	G
2	242036662	242036662	+	A	A
5	156566188	156566188	+	G	G
20	47265850	47265850	+	G	G
12	70925930	70925930	+	C	C
15	54025275	54025275	+	C	C
2	28268649	28268649	+	C	C
18	61322891	61322891	+	C	C
2	85048999	85048999	+	C	C
8	23301441	23301441	+	G	G
7	86394513	86394513	+	G	G
6	7405582	7405582	+	C	C
11	55110739	55110739	+	G	G
12	132335539	132335539	+	G	G
15	79339330	79339330	+	G	G
12	53451853	53451853	+	G	G
6	128320017	128320017	+	G	G
19	55597474	55597474	+	G	G
14	60977905	60977905	+	C	C
1	25611218	25611218	+	C	C
15	31197682	31197682	+	G	G
10	124320292	124320292	+	G	G
7	34698146	34698146	+	G	G
2	44586689	44586689	+	G	G
3	49067986	49067986	+	G	G
9	79320922	79320922	+	G	G
15	41961464	41961464	+	C	C
11	7949901	7949901	+	G	G
11	5878114	5878114	+	G	G
10	35437404	35437404	+	C	C
12	55357590	55357590	+	G	G
10	60556207	60556207	+	C	C
1	247978198	247978198	+	C	C
16	67694198	67694198	+	G	G



11	60783254	60783254	+	A	A
1	16558540	16558540	+	G	G
6	12125170	12125170	+	C	C
2	141607740	141607740	+	C	C
11	45832757	45832757	+	C	C
14	101493518	101493518	+	C	C
11	4843507	4843507	+	C	C
16	22330181	22330181	+	C	C
6	130762228	130762228	+	C	C
15	50158552	50158552	+	G	G
1	41223804	41223804	+	C	C
15	99669644	99669644	+	G	G
11	31284399	31284399	+	C	C
1	110882883	110882883	+	G	G
12	11214063	11214063	+	G	G
10	50943142	50943142	+	C	C
8	86389478	86389478	+	G	G
12	99201670	99201670	+	C	C
20	18449620	18449620	+	G	G
3	118867052	118867052	+	G	G
3	184022170	184022170	+	C	C
X	105449650	105449650	+	G	G
6	152776647	152776647	+	G	G
4	3209076	3209076	+	C	C
19	57286283	57286283	+	G	G
9	132565669	132565669	+	G	G
9	131386723	131386723	+	C	C
19	53669091	53669091	+	G	G
8	3224752	3224752	+	G	G
9	130152926	130152926	+	C	C
3	16268865	16268865	+	G	G
17	59885947	59885947	+	C	C
3	123452713	123452713	+	G	G
4	106861719	106861719	+	G	G
10	106907389	106907389	+	C	C
18	61324136	61324136	+	C	C
14	102452718	102452718	+	C	C
6	75797372	75797372	+	G	G
4	420066	420066	+	G	G
6	43402443	43402443	+	C	C
14	23421653	23421653	+	G	G
14	23559813	23559813	+	G	G
6	143081591	143081591	+	G	G

2	29451796	29451796	+	C	C
22	42423096	42423096	+	G	G
17	12847501	12847501	+	G	G
9	124329454	124329454	+	G	G
13	99364170	99364170	+	C	C
7	48965279	48965279	+	C	C
14	106471275	106471275	+	C	C
12	117768166	117768166	+	C	C
16	9858113	9858113	+	C	C
16	55880750	55880750	+	C	C
16	76482682	76482682	+	C	C
17	39778773	39778773	+	G	G
11	58206903	58206903	+	G	G
12	57003703	57003703	+	C	C
19	56918397	56918397	+	C	C
19	57931927	57931927	+	G	G
16	14029452	14029452	+	C	C
19	36593019	36593019	+	C	C
12	122413577	122413577	+	C	C
17	55962751	55962751	+	G	G
8	132002765	132002765	+	G	G
X	80185456	80185456	+	C	C
19	58579901	58579901	+	A	A
2	220326718	220326718	+	C	C
4	42122153	42122153	+	C	C
1	26691602	26691602	+	G	G
19	49005750	49005750	+	C	C
2	48958410	48958410	+	C	C
19	9061016	9061016	+	G	G
9	90747912	90747912	+	C	C
9	124535098	124535098	+	C	C
12	21472419	21472419	+	C	C
X	141290979	141290979	+	G	G
12	130898849	130898849	+	C	C
6	159670137	159670137	+	G	G
1	162743342	162743342	+	G	G
X	12904184	12904184	+	G	G
1	190423812	190423812	+	C	C
6	154439990	154439990	+	C	C
19	50210795	50210795	+	C	C
7	143047560	143047560	+	C	C
5	182179	182179	+	G	G
7	103202284	103202284	+	C	C

6	76023061	76023061	+	C	C
15	38988857	38988857	+	C	C
16	21771906	21771906	+	A	A
15	22849179	22849179	+	C	C
3	46006610	46006610	+	C	C
11	16816105	16816105	+	C	C
12	7843181	7843181	+	C	C
19	19312988	19312988	+	G	G
15	65744334	65744334	+	C	C
2	232262493	232262493	+	C	C
3	170141034	170141034	+	C	C
1	15798551	15798551	+	G	G
19	9059328	9059328	+	G	G
1	248684989	248684989	+	C	C
3	37476525	37476525	+	G	G
14	22309454	22309454	+	C	C
15	94942254	94942254	+	G	G
11	73021881	73021881	+	C	C
12	47170697	47170697	+	T	T
3	49568937	49568937	+	C	C
11	59857890	59857890	+	G	G
8	30469916	30469916	+	G	G
1	57537993	57537993	+	C	C
1	82416074	82416074	+	G	G
2	108881292	108881292	+	G	G
1	228362558	228362558	+	C	C
2	228172462	228172462	+	G	G
12	13720049	13720049	+	G	G
1	21071307	21071307	+	A	A
16	19451408	19451408	+	C	C
16	74919690	74919690	+	G	G
2	196825552	196825552	+	C	C
15	40662069	40662069	+	C	C
1	43055362	43055362	+	G	G
11	6221124	6221124	+	G	G
2	3447563	3447563	+	C	C
15	43237412	43237412	+	G	G
15	45047370	45047370	+	C	C
4	146059265	146059265	+	C	C
12	7362836	7362836	+	C	C
9	131810777	131810777	+	G	G
15	24921643	24921643	+	G	G
2	36805861	36805861	+	G	G

1	151090482	151090482	+	G	G
21	32639202	32639202	+	G	G
X	73962481	73962481	+	C	C
X	63444876	63444876	+	G	G
17	40970286	40970286	+	G	G
19	15291065	15291065	+	C	C
6	129796538	129796538	+	G	G
19	10625472	10625472	+	G	G
9	131027934	131027934	+	G	G
17	62238212	62238212	+	C	C
1	220971364	220971364	+	T	T
2	168105143	168105143	+	G	G
12	53004994	53004994	+	C	C
6	74325120	74325120	+	G	G
X	19367437	19367437	+	G	G
14	70924259	70924259	+	C	C
16	29974450	29974450	+	C	C
17	26125776	26125776	+	C	C
11	5411157	5411157	+	G	G
22	42536613	42536613	+	G	G
14	60945082	60945082	+	G	G
16	19191859	19191859	+	C	C
19	44892058	44892058	+	G	G
9	134070655	134070655	+	C	C
16	2546845	2546845	+	C	C
14	106405713	106405713	+	C	C
17	73727985	73727985	+	G	G
18	6171916	6171916	+	T	T
6	71269418	71269418	+	G	G
1	36026255	36026255	+	G	G
1	201031218	201031218	+	C	C
16	72984776	72984776	+	C	C
14	106967150	106967150	+	G	G
X	79281148	79281148	+	C	C
6	31085224	31085224	+	G	G
12	117662886	117662886	+	G	G
14	63447604	63447604	+	C	C
19	43679467	43679467	+	G	G
6	43267736	43267736	+	G	G
6	28116500	28116500	+	G	G
X	140993785	140993785	+	C	C
19	39421403	39421403	+	C	C
21	41137554	41137554	+	G	G

14	22392585	22392585	+	G	G
5	83360620	83360620	+	G	G
8	102564946	102564946	+	C	C
9	71503934	71503934	+	A	A
7	128445926	128445926	+	C	C
22	32588965	32588965	+	C	C
16	53337811	53337811	+	C	C
9	87359943	87359943	+	C	C
3	49897633	49897633	+	C	C
7	139226784	139226784	+	C	C
13	84455508	84455508	+	C	C
12	30833514	30833514	+	G	G
1	39798313	39798313	+	G	G
6	123824996	123824996	+	C	C
1	55051508	55051508	+	C	C
6	37186304	37186304	+	C	C
11	57004463	57004463	+	C	C
14	96707397	96707397	+	G	G
19	51192473	51192473	+	G	G
2	214160794	214160794	+	C	C
16	18434236	18434236	+	G	G
1	160458996	160458996	+	G	G
19	45317471	45317471	+	G	G
18	67860617	67860617	+	G	G
19	4891574	4891574	+	G	G
12	116418624	116418624	+	C	C
1	150298300	150298300	+	C	C
4	109817848	109817848	+	C	C
1	248458221	248458221	+	G	G
2	220326719	220326719	+	C	C
12	49994529	49994529	+	C	C
8	76459858	76459858	+	G	G
2	168725528	168725528	+	G	G
1	118424453	118424453	+	G	G
19	48893838	48893838	+	C	C
X	48419132	48419132	+	C	C
20	43850046	43850046	+	C	C
17	5042421	5042421	+	C	C
18	70451099	70451099	+	C	C
11	56510600	56510600	+	G	G
17	26919171	26919171	+	G	G
7	120385840	120385840	+	G	G
X	140994100	140994100	+	C	C

6	107035663	107035663	+	C	C
3	42674144	42674144	+	C	C
14	26917416	26917416	+	C	C
2	234975179	234975179	+	G	G
14	94394562	94394562	+	C	C
15	79755521	79755521	+	C	C
13	101844283	101844283	+	A	A
3	54952861	54952861	+	G	G
7	104773510	104773510	+	G	G
10	52390468	52390468	+	C	C
5	67591463	67591463	+	C	C
1	104160213	104160213	+	G	G
5	71756757	71756757	+	G	G
5	79335938	79335938	+	C	C
13	51417407	51417407	+	C	C
18	29793236	29793236	+	C	C
1	170043674	170043674	+	G	G
14	22476305	22476305	+	G	G
17	39296316	39296316	+	G	G
18	29126230	29126230	+	C	C
7	48520735	48520735	+	C	C
7	148963466	148963466	+	C	C
19	19748323	19748323	+	G	G
5	56509996	56509996	+	C	C
1	43891768	43891768	+	G	G
2	27455407	27455407	+	C	C
10	64239657	64239657	+	G	G
3	141328717	141328717	+	A	A
8	2830798	2830798	+	C	C
19	43023081	43023081	+	G	G
3	48310052	48310052	+	C	C
14	39816919	39816919	+	G	G
13	19999943	19999943	+	C	C
21	32508358	32508358	+	A	A
15	40660705	40660705	+	G	G
2	133540902	133540902	+	C	C
17	39974702	39974702	+	G	G
1	156452277	156452277	+	C	C
12	6428076	6428076	+	C	C
X	41205622	41205622	+	C	C
14	23391693	23391693	+	G	G
15	59192089	59192089	+	G	G
18	48256263	48256263	+	C	C

6	64394356	64394356	+	G	G
1	34166132	34166132	+	C	C
2	109527343	109527343	+	C	C
20	50769024	50769024	+	G	G
15	37385908	37385908	+	G	G
7	87782580	87782580	+	G	G
2	28748152	28748152	+	G	G
1	231471701	231471701	+	C	C
2	179590122	179590122	+	C	C
4	100201389	100201389	+	G	G
19	45766396	45766396	+	C	C
6	134349843	134349843	+	G	G
1	12065840	12065840	+	C	C
1	152759992	152759992	+	G	G
17	26890900	26890900	+	G	G
6	108066180	108066180	+	C	C
12	41365416	41365416	+	C	C
9	14759812	14759812	+	G	G
6	27806675	27806675	+	C	C
1	157771850	157771850	+	G	G
12	9464362	9464362	+	C	C
17	30348945	30348945	+	C	C
19	42854399	42854399	+	C	C
19	49539498	49539498	+	C	C
19	19241078	19241078	+	G	G
18	29847988	29847988	+	G	G
18	23658081	23658081	+	T	T
18	51729260	51729260	+	G	G
14	81744353	81744353	+	G	G
6	116599692	116599692	+	G	G
3	43121112	43121112	+	G	G
1	62367032	62367032	+	G	G
1	114424557	114424557	+	G	G
X	36103600	36103600	+	G	G
11	26720076	26720076	+	C	C
12	10978085	10978085	+	C	C
22	31583187	31583187	+	C	C
2	227920728	227920728	+	G	G
7	6449897	6449897	+	C	C
5	13841216	13841216	+	C	C
6	41126749	41126749	+	C	C
X	12736608	12736608	+	C	C
12	20806887	20806887	+	G	G

19	13565990	13565990	+	C	C
X	295242	295242	+	C	C
11	5142008	5142008	+	C	C
16	76528909	76528909	+	G	G
X	79698321	79698321	+	G	G
2	100210323	100210323	+	G	G
20	45607244	45607244	+	G	G
2	21234694	21234694	+	C	C
6	32024669	32024669	+	C	C
8	144803824	144803824	+	C	C
2	238725650	238725650	+	C	C
12	15134529	15134529	+	G	G
13	41345346	41345346	+	C	C
3	47604328	47604328	+	G	G
6	16145201	16145201	+	C	C
5	120022314	120022314	+	C	C
1	95310932	95310932	+	C	C
6	138576710	138576710	+	G	G
7	100349877	100349877	+	C	C
12	80730315	80730315	+	G	G
X	17819867	17819867	+	C	C
10	129874891	129874891	+	A	A
7	25266443	25266443	+	C	C
3	154055964	154055964	+	C	C
3	89499371	89499371	+	G	G
2	113676355	113676355	+	C	C
12	120966909	120966909	+	A	A
16	71113830	71113830	+	G	G
11	16256174	16256174	+	T	T
6	40399736	40399736	+	C	C
1	156452276	156452276	+	C	C
10	103370992	103370992	+	G	G
15	65627198	65627198	+	C	C
19	38976452	38976452	+	C	C
17	27807478	27807478	+	C	C
20	8637881	8637881	+	C	C
3	98235531	98235531	+	G	G
1	171073082	171073082	+	G	G
19	10791061	10791061	+	C	C
1	201043646	201043646	+	C	C
22	38167773	38167773	+	C	C
19	12780529	12780529	+	C	C
1	108231049	108231049	+	G	G



1	158227519	158227519	+	G	G
15	85664241	85664241	+	G	G
1	175914109	175914109	+	C	C
11	7693727	7693727	+	G	G
2	95846006	95846006	+	G	G
5	153190618	153190618	+	G	G
2	179606494	179606494	+	G	G
12	32134236	32134236	+	A	A
9	72723222	72723222	+	C	C
19	7807978	7807978	+	C	C
19	52888223	52888223	+	T	T
18	14478132	14478132	+	G	G
6	90605489	90605489	+	C	C
2	29443635	29443635	+	G	G
2	132202187	132202187	+	C	C
16	84217311	84217311	+	G	G
3	19575143	19575143	+	G	G
X	132160738	132160738	+	G	G
16	68405567	68405567	+	G	G
7	99305585	99305585	+	C	C
7	103338321	103338321	+	G	G
14	71199292	71199292	+	G	G
X	302204	302204	+	C	C
3	52857935	52857935	+	G	G
2	222437007	222437007	+	C	C
7	100685708	100685708	+	C	C
12	129442134	129442134	+	G	G
1	172007480	172007480	+	G	G
22	42078510	42078510	+	C	C
3	35730834	35730834	+	G	G
6	7231965	7231965	+	C	C
17	44953934	44953934	+	G	G
3	139062829	139062829	+	C	C
12	6643965	6643965	+	C	C
11	18741391	18741391	+	C	C
8	142367518	142367518	+	G	G
1	231473369	231473369	+	G	G
18	77895176	77895176	+	C	C
19	15290960	15290960	+	C	C
18	67742743	67742743	+	G	G
14	26917496	26917496	+	T	T
11	1501703	1501703	+	G	G
4	169300899	169300899	+	G	G

7	151962259	151962259	+	G	G
X	84525226	84525226	+	C	C
1	109795735	109795735	+	C	C
12	112669342	112669342	+	G	G
15	45656209	45656209	+	G	G
5	140256124	140256124	+	C	C
14	21789626	21789626	+	G	G
13	96212484	96212484	+	G	G
X	154132689	154132689	+	G	G
12	46242618	46242618	+	G	G
17	80788089	80788089	+	C	C
2	236945299	236945299	+	C	C
8	124992923	124992923	+	G	G
7	150217488	150217488	+	C	C
4	156643314	156643314	+	G	G
2	135781096	135781096	+	C	C
4	90856775	90856775	+	C	C
2	119915287	119915287	+	G	G
4	110615699	110615699	+	G	G
4	153875388	153875388	+	G	G
12	21036390	21036390	+	C	C
7	1518506	1518506	+	C	C
X	154348304	154348304	+	C	C
11	89819919	89819919	+	C	C
X	3240917	3240917	+	C	C
19	9325061	9325061	+	G	G
22	37770435	37770435	+	C	C
16	57060642	57060642	+	T	T
16	27357869	27357869	+	C	C
6	107595376	107595376	+	G	G
10	24508825	24508825	+	G	G
20	32258495	32258495	+	G	G
10	27964298	27964298	+	C	C
9	104357027	104357027	+	G	G
3	122427094	122427094	+	C	C
2	227945221	227945221	+	C	C
2	213291063	213291063	+	C	C
7	76144447	76144447	+	C	C
12	15134530	15134530	+	G	G
11	30915805	30915805	+	C	C
16	52484408	52484408	+	G	G
8	113960062	113960062	+	G	G
19	54802614	54802614	+	C	C

8	143607941	143607941	+	C	C
19	9959830	9959830	+	C	C
4	77020234	77020234	+	C	C
1	207791530	207791530	+	G	G
7	30672031	30672031	+	C	C
15	90631707	90631707	+	G	G
7	143793023	143793023	+	C	C
19	6981726	6981726	+	C	C
6	38893978	38893978	+	G	G
11	117982545	117982545	+	G	G
19	49850501	49850501	+	G	G
6	110763940	110763940	+	C	C
3	180334652	180334652	+	C	C
7	87076396	87076396	+	G	G
5	41196034	41196034	+	G	G
19	21719412	21719412	+	C	C
1	55224316	55224316	+	G	G
1	158746763	158746763	+	G	G
14	65262253	65262253	+	C	C
20	5574016	5574016	+	G	G
2	167136920	167136920	+	C	C
7	150499353	150499353	+	C	C
2	179593743	179593743	+	G	G
18	61323223	61323223	+	C	C
4	42415007	42415007	+	C	C
2	185801846	185801846	+	G	G
17	78867528	78867528	+	C	C
16	70557448	70557448	+	C	C
3	48895122	48895122	+	G	G
8	110489463	110489463	+	G	G
5	115628177	115628177	+	C	C
7	123594243	123594243	+	G	G
16	89696902	89696902	+	G	G
18	50976952	50976952	+	C	C
12	49431835	49431835	+	G	G
17	38152438	38152438	+	C	C
19	48558258	48558258	+	G	G
4	163032514	163032514	+	C	C
12	123479427	123479427	+	C	C
1	110302422	110302422	+	G	G
18	9263815	9263815	+	C	C
1	157497421	157497421	+	G	G
19	56329275	56329275	+	C	C

19	36940264	36940264	+	G	G
1	91788710	91788710	+	C	C
4	110882045	110882045	+	G	G
21	38390253	38390253	+	G	G
19	43382142	43382142	+	C	C
1	66081761	66081761	+	G	G
8	24209511	24209511	+	G	G
1	229676434	229676434	+	G	G
3	64085414	64085414	+	C	C
1	144892398	144892398	+	G	G
19	4498841	4498841	+	G	G
15	33954385	33954385	+	G	G
20	41306717	41306717	+	G	G
11	66626491	66626491	+	G	G
16	2233716	2233716	+	G	G
15	65744335	65744335	+	C	C
11	3423084	3423084	+	C	C
3	77671493	77671493	+	G	G
14	59834291	59834291	+	G	G
19	56223206	56223206	+	C	C
2	228144580	228144580	+	G	G
19	19337619	19337619	+	C	C
1	179310307	179310307	+	T	T
10	22830783	22830783	+	G	G
7	141727431	141727431	+	C	C
4	75040301	75040301	+	G	G
19	43523042	43523042	+	C	C
4	69879842	69879842	+	C	C
20	55111361	55111361	+	C	C
19	51561890	51561890	+	G	G
1	205687496	205687496	+	G	G
1	21014186	21014186	+	C	C
9	139996026	139996026	+	C	C
3	132196944	132196944	+	C	C
2	238725649	238725649	+	T	T
10	75258660	75258660	+	G	G
4	154624117	154624117	+	G	G
1	157062719	157062719	+	G	G
6	151055190	151055190	+	G	G
19	15122185	15122185	+	G	G
2	186670720	186670720	+	G	G
11	59423164	59423164	+	A	A
1	248367040	248367040	+	C	C

16	18841005	18841005	+	C	C
13	95858855	95858855	+	C	C
14	94067098	94067098	+	G	G
11	60161379	60161379	+	G	G
8	67064800	67064800	+	C	C
2	232458422	232458422	+	C	C
1	161207992	161207992	+	C	C
2	222437006	222437006	+	C	C
15	74335405	74335405	+	C	C
15	38799974	38799974	+	C	C
7	72436495	72436495	+	G	G
6	129470130	129470130	+	C	C
4	145636458	145636458	+	C	C
4	55130038	55130038	+	C	C
4	126411760	126411760	+	G	G
17	37263712	37263712	+	G	G
1	43911605	43911605	+	G	G
17	56387377	56387377	+	G	G
3	15626825	15626825	+	G	G
1	150444180	150444180	+	G	G
4	121957872	121957872	+	G	G
1	160171059	160171059	+	G	G
12	7362835	7362835	+	C	C
16	21080865	21080865	+	C	C
4	82366897	82366897	+	C	C
22	43610220	43610220	+	G	G
14	70990320	70990320	+	C	C
1	177226497	177226497	+	C	C
11	59224605	59224605	+	C	C
9	94486802	94486802	+	C	C
11	71152323	71152323	+	G	G
12	5154651	5154651	+	C	C
19	17015328	17015328	+	C	C
5	156816328	156816328	+	C	C
12	11992229	11992229	+	C	C
13	39454695	39454695	+	C	C
12	105321789	105321789	+	C	C
20	23666441	23666441	+	C	C
7	18869090	18869090	+	C	C
6	131199370	131199370	+	C	C
20	48472006	48472006	+	G	G
1	2939000	2939000	+	C	C
19	56424425	56424425	+	G	G

22	25023359	25023359	+	C	C
15	65208036	65208036	+	G	G
4	77817832	77817832	+	G	G
8	35583750	35583750	+	G	G
X	119575585	119575585	+	C	C
7	18066932	18066932	+	A	A
10	98182476	98182476	+	G	G
12	113543543	113543543	+	G	G
10	74684190	74684190	+	G	G
12	124092995	124092995	+	C	C
3	137843534	137843534	+	G	G
4	56471501	56471501	+	G	G
2	165947645	165947645	+	C	C
5	235524	235524	+	C	C
18	9931852	9931852	+	C	C
16	20976157	20976157	+	G	G
11	122756744	122756744	+	C	C
8	88298887	88298887	+	C	C
2	102641025	102641025	+	T	T
21	43708256	43708256	+	C	C
3	93780416	93780416	+	C	C
3	42906432	42906432	+	C	C
13	113772750	113772750	+	G	G
4	113298856	113298856	+	C	C
11	117233220	117233220	+	C	C
18	3450463	3450463	+	C	C
11	18327783	18327783	+	T	T
13	36202262	36202262	+	C	C
2	65540555	65540555	+	G	G
12	8329742	8329742	+	C	C
11	18743146	18743146	+	C	C
16	20873715	20873715	+	C	C
9	136298505	136298505	+	C	C
11	60161380	60161380	+	G	G
2	219612388	219612388	+	C	C
17	46846396	46846396	+	G	G
4	25316996	25316996	+	C	C
2	286297	286297	+	G	G
7	86542447	86542447	+	G	G
12	58089805	58089805	+	A	A
17	48680223	48680223	+	G	G
4	69796307	69796307	+	C	C
2	95464537	95464537	+	G	G

19	1207054	1207054	+	A	A
10	99344393	99344393	+	T	T
9	100693309	100693309	+	G	G
3	49395586	49395586	+	G	G
6	31079834	31079834	+	G	G
9	34709345	34709345	+	C	C
9	78710815	78710815	+	G	G
8	3081251	3081251	+	C	C
3	187088628	187088628	+	C	C
1	161017742	161017742	+	C	C
19	10561284	10561284	+	C	C
19	9236820	9236820	+	C	C
8	3267116	3267116	+	C	C
4	25005702	25005702	+	C	C
7	4185539	4185539	+	G	G
15	45656208	45656208	+	G	G
X	54978411	54978411	+	C	C
16	21261577	21261577	+	G	G
8	110441591	110441591	+	G	G
MT	15196	15196	+	A	A
20	44170937	44170937	+	G	G
10	21129775	21129775	+	C	C
7	143098455	143098455	+	C	C
5	32074530	32074530	+	C	C
17	61762886	61762886	+	C	C
17	35506825	35506825	+	G	G
10	70652386	70652386	+	G	G
3	187386744	187386744	+	C	C
17	43344846	43344846	+	G	G
4	25316995	25316995	+	C	C
14	77273078	77273078	+	G	G
3	44952562	44952562	+	G	G
11	32636012	32636012	+	C	C
6	160169312	160169312	+	C	C
1	60505761	60505761	+	G	G
3	186333484	186333484	+	G	G
4	69111330	69111330	+	G	G
4	126373148	126373148	+	C	C
9	138590189	138590189	+	G	G
18	28908229	28908229	+	G	G
3	13401831	13401831	+	T	T
13	46730635	46730635	+	G	G
4	10444743	10444743	+	G	G

14	96706993	96706993	+	C	C
9	130477960	130477960	+	C	C
7	99027364	99027364	+	C	C
19	15739646	15739646	+	G	G
12	31291162	31291162	+	C	C
7	104773509	104773509	+	G	G
18	48256264	48256264	+	C	C
3	11078751	11078751	+	C	C
5	140476854	140476854	+	C	C
15	42743646	42743646	+	G	G
10	45935917	45935917	+	C	C
X	118771033	118771033	+	C	C
15	82444604	82444604	+	C	C
8	55541536	55541536	+	G	G
20	15948276	15948276	+	G	G
2	233321993	233321993	+	G	G
14	101442227	101442227	+	G	G
18	40853568	40853568	+	C	C
2	228148547	228148547	+	G	G
4	175564977	175564977	+	T	T
19	57987128	57987128	+	G	G
8	68421774	68421774	+	C	C
2	87085445	87085445	+	G	G
11	11964312	11964312	+	C	C
19	33470912	33470912	+	G	G
8	42585787	42585787	+	C	C
13	111092165	111092165	+	A	A
19	9069346	9069346	+	G	G
7	73535297	73535297	+	C	C
19	57723489	57723489	+	C	C
19	9406365	9406365	+	G	G
10	50960254	50960254	+	G	G
19	54074932	54074932	+	G	G
1	21887162	21887162	+	G	G
4	1657255	1657255	+	G	G
2	70904896	70904896	+	C	C
8	38458673	38458673	+	G	G
8	22429881	22429881	+	C	C
7	100676261	100676261	+	C	C
9	115759424	115759424	+	G	G
4	20734408	20734408	+	C	C
4	44653638	44653638	+	C	C
14	102606400	102606400	+	C	C



16	3293453	3293453	+	C	C
11	9519341	9519341	+	C	C
19	6678178	6678178	+	C	C
14	75190034	75190034	+	C	C
5	13776746	13776746	+	C	C
8	53085133	53085133	+	C	C
11	101323661	101323661	+	A	A
2	228148972	228148972	+	G	G
13	42874763	42874763	+	C	C
1	175106105	175106105	+	G	G
12	116429658	116429658	+	C	C
17	56274497	56274497	+	G	G
20	16485050	16485050	+	G	G
4	55955567	55955567	+	C	C
1	202097128	202097128	+	C	C
3	97516925	97516925	+	C	C
9	90258310	90258310	+	C	C
6	129419329	129419329	+	C	C
3	36778810	36778810	+	C	C
15	83932131	83932131	+	G	G
18	736930	736930	+	A	A
7	140219486	140219486	+	C	C
14	22447294	22447294	+	C	C
3	38157954	38157954	+	G	G
GL000205.1	118458	118458	+	C	C
6	27861510	27861515	+	CACCTC	CACCTC
6	134495704	134495705	+	-	-
11	1267167	1267168	+	-	-
11	108381505	108381505	+	T	T
10	75184111	75184111	+	G	G
6	29342311	29342311	+	C	C
11	17629890	17629890	+	G	G
7	140487360	140487360	+	G	G
2	669803	669803	+	G	G
7	96639322	96639322	+	C	C
17	79080641	79080641	+	C	C
6	167570591	167570591	+	G	G
19	49956519	49956519	+	C	C
21	46703330	46703330	+	G	G
18	54814771	54814771	+	G	G
6	55105557	55105557	+	T	T
9	125642954	125642954	+	G	G
7	117358147	117358147	+	C	C

5	83360528	83360528	+	C	C
20	33934290	33934290	+	C	C
3	170078398	170078398	+	C	C
18	3596951	3596951	+	C	C
1	121310695	121310695	+	G	G
22	24827106	24827106	+	C	C
X	131351267	131351267	+	C	C
11	55861330	55861330	+	C	C
16	31470488	31470488	+	G	G
13	103396906	103396906	+	A	A
12	25147207	25147207	+	C	C
12	72680671	72680671	+	T	T
12	42711186	42711186	+	G	G
19	56733551	56733551	+	C	C
5	170736677	170736677	+	C	C
21	10998251	10998251	+	C	C
16	90229187	90229187	+	G	G
19	49713970	49713970	+	T	T
19	54137877	54137877	+	C	C
7	149558262	149558262	+	C	C
13	99092928	99092928	+	C	C
1	114682326	114682326	+	G	G
17	48598492	48598492	+	C	C
6	26093049	26093049	+	C	C
2	179571228	179571228	+	C	C
16	5077287	5077287	+	A	A
15	81440983	81440983	+	G	G
21	47969830	47969830	+	G	G
19	52272517	52272517	+	G	G
11	46367053	46367053	+	G	G
1	227152957	227152957	+	T	T
1	13475078	13475078	+	G	G
8	10395998	10395998	+	G	G
1	10706256	10706256	+	G	G
4	170611755	170611755	+	C	C
5	159344524	159344524	+	C	C
20	34022266	34022266	+	C	C
3	78987789	78987789	+	C	C
19	407712	407712	+	T	T
11	64037538	64037538	+	G	G
2	168104393	168104393	+	C	C
17	56270876	56270876	+	A	A
8	9912150	9912150	+	G	G

17	77757544	77757544	+	C	C
2	98834354	98834354	+	C	C
7	103163894	103163894	+	C	C
16	81253719	81253719	+	C	C
22	21384015	21384015	+	C	C
12	46633627	46633627	+	C	C
1	27688043	27688043	+	C	C
15	23689130	23689130	+	C	C
10	62671124	62671124	+	G	G
17	47219504	47219504	+	G	G
11	122889438	122889438	+	C	C
11	20044601	20044601	+	G	G
14	20443737	20443737	+	C	C
1	156308132	156308132	+	C	C
7	158449357	158449357	+	C	C
16	28510272	28510272	+	G	G
5	26906830	26906830	+	G	G
13	72131172	72131172	+	C	C
1	158815726	158815726	+	C	C
2	219892147	219892147	+	G	G
19	15121607	15121607	+	C	C
16	47007586	47007586	+	G	G
13	61018866	61018866	+	G	G
X	63555986	63555986	+	A	A
2	27800304	27800304	+	G	G
7	103175781	103175781	+	G	G
X	150869112	150869112	+	G	G
3	141328281	141328281	+	C	C
12	112186961	112186961	+	C	C
8	144295191	144295191	+	C	C
11	76371581	76371581	+	C	C
1	225564959	225564959	+	A	A
1	159779416	159779416	+	G	G
19	57037335	57037335	+	C	C
X	148584876	148584876	+	A	A
16	4382297	4382297	+	G	G
7	132192657	132192657	+	G	G
22	21363704	21363704	+	G	G
2	163279798	163279798	+	C	C
17	74388092	74388092	+	G	G
2	102965587	102965587	+	C	C
19	17362514	17362514	+	C	C
16	3406106	3406106	+	C	C

7	150648844	150648844	+	C	C
18	61600317	61600317	+	G	G
15	60297723	60297723	+	C	C
1	247588838	247588838	+	G	G
17	6381966	6381966	+	G	G
19	9072321	9072321	+	G	G
12	132466938	132466938	+	C	C
19	4907967	4907967	+	G	G
5	140743960	140743960	+	G	G
19	52942007	52942007	+	C	C
X	117706367	117706367	+	G	G
9	124461654	124461654	+	G	G
20	58558009	58558009	+	G	G
8	26365795	26365795	+	G	G
16	89220671	89220671	+	C	C
1	196706028	196706028	+	C	C
16	2158513	2158513	+	G	G
11	92531301	92531301	+	G	G
19	11411852	11411852	+	G	G
1	166891830	166891830	+	C	C
2	179453335	179453335	+	C	C
20	33934278	33934278	+	A	A
20	54823851	54823851	+	C	C
10	85984132	85984132	+	G	G
11	4936237	4936237	+	G	G
12	71551602	71551602	+	G	G
1	247486516	247486516	+	G	G
22	37709670	37709670	+	C	C
17	41456607	41456607	+	G	G
8	146279721	146279721	+	C	C
2	241969954	241969954	+	G	G
14	101348124	101348124	+	C	C
20	51872447	51872447	+	C	C
16	16228241	16228241	+	C	C
20	9498786	9498786	+	C	C
10	73501734	73501734	+	C	C
19	9069742	9069742	+	C	C
8	144458786	144458786	+	G	G
19	3600381	3600381	+	G	G
8	27468070	27468070	+	G	G
2	163374667	163374667	+	C	C
19	49999638	49999638	+	C	C
X	106184748	106184748	+	G	G

X	54278099	54278099	+	C	C
1	151554722	151554722	+	T	T
12	21331636	21331636	+	G	G
2	63849598	63849598	+	C	C
2	130831606	130831606	+	C	C
4	110788926	110788926	+	G	G
2	179403667	179403667	+	C	C
X	69503458	69503458	+	G	G
15	25438503	25438503	+	G	G
13	21218998	21218998	+	C	C
11	31113035	31113035	+	C	C
4	183657967	183657967	+	C	C
15	41820453	41820453	+	A	A
8	3059156	3059156	+	G	G
X	48547423	48547423	+	G	G
12	120650204	120650204	+	G	G
8	51705279	51705279	+	T	T
12	43821267	43821267	+	G	G
2	215928850	215928850	+	G	G
7	102898150	102898150	+	G	G
1	158225796	158225796	+	C	C
9	90401740	90401740	+	G	G
11	6636421	6636421	+	G	G
14	102024138	102024138	+	G	G
20	35406171	35406171	+	G	G
7	34091556	34091556	+	G	G
19	6586221	6586221	+	C	C
15	43093901	43093901	+	G	G
16	55862755	55862755	+	C	C
3	130107449	130107449	+	A	A
19	52147156	52147156	+	G	G
10	95720244	95720244	+	T	T
19	43967538	43967538	+	G	G
1	225568020	225568020	+	C	C
2	136566601	136566601	+	G	G
16	31770732	31770732	+	A	A
5	150562940	150562940	+	G	G
16	88552442	88552442	+	C	C
6	30078395	30078395	+	G	G
19	54106731	54106731	+	G	G
16	68013661	68013661	+	C	C
3	75679929	75679929	+	G	G
19	35801063	35801063	+	C	C

22	44583511	44583511	+	G	G
19	18871017	18871017	+	G	G
12	10010081	10010081	+	C	C
12	49691274	49691274	+	G	G
11	77635920	77635920	+	G	G
5	115323527	115323527	+	G	G
8	10464903	10464903	+	C	C
12	8692528	8692528	+	G	G
9	132397404	132397404	+	C	C
X	111698536	111698536	+	G	G
17	38175887	38175887	+	C	C
20	44674555	44674555	+	G	G
1	248813346	248813346	+	G	G
9	68414329	68414329	+	C	C
8	2967721	2967721	+	G	G
6	55300324	55300324	+	C	C
X	36329083	36329083	+	C	C
14	92087996	92087996	+	C	C
5	141244964	141244964	+	G	G
6	28253415	28253415	+	C	C
7	122821123	122821123	+	G	G
4	71508720	71508720	+	G	G
2	3726132	3726132	+	G	G
5	72359719	72359719	+	C	C
1	229678002	229678002	+	G	G
16	58549393	58549393	+	G	G
11	46393691	46393691	+	T	T
22	45593083	45593083	+	G	G
3	39229929	39229929	+	G	G
2	207603125	207603125	+	C	C
19	55817735	55817735	+	C	C
8	1626468	1626468	+	G	G
9	8518390	8518390	+	C	C
12	110468507	110468507	+	G	G
5	133747279	133747279	+	G	G
19	40581109	40581109	+	T	T
2	72725669	72725669	+	G	G
3	78987790	78987790	+	C	C
10	124034556	124034556	+	T	T
5	79617365	79617365	+	A	A
12	4736224	4736224	+	G	G
X	134030946	134030946	+	G	G
16	83781834	83781834	+	C	C

10	37505199	37505199	+	G	G
7	98460722	98460722	+	G	G
5	140517137	140517137	+	C	C
19	10625216	10625216	+	C	C
X	128631891	128631891	+	C	C
17	64880971	64880971	+	C	C
2	102480332	102480332	+	C	C
8	108315580	108315580	+	C	C
17	38126825	38126825	+	G	G
19	40581115	40581115	+	C	C
12	49218718	49218718	+	C	C
X	152610317	152610317	+	C	C
11	130319334	130319334	+	C	C
8	3326319	3326319	+	G	G
8	22078864	22078864	+	C	C
16	68014061	68014061	+	G	G
15	58889461	58889461	+	G	G
13	88328385	88328385	+	G	G
2	128476952	128476952	+	G	G
11	48373772	48373772	+	C	C
12	50746166	50746166	+	G	G
1	201035026	201035026	+	G	G
1	67306209	67306209	+	G	G
12	8673900	8673900	+	G	G
9	66457999	66457999	+	C	C
14	101349128	101349128	+	C	C
1	208252764	208252764	+	C	C
4	25314400	25314400	+	C	C
7	81662148	81662148	+	G	G
17	38175886	38175886	+	C	C
8	62416044	62416044	+	G	G
2	56611505	56611505	+	C	C
2	234160279	234160279	+	C	C
14	32563083	32563083	+	C	C
20	9417688	9417688	+	G	G
22	44583510	44583510	+	G	G
16	29859329	29859329	+	G	G
11	563353	563353	+	G	G
12	53849251	53849251	+	G	G
12	13716862	13716862	+	C	C
5	177548320	177548320	+	C	C
19	18266702	18266702	+	G	G
14	73989776	73989776	+	C	C

20	3214852	3214852	+	T	T
2	10930003	10930003	+	G	G
7	25266454	25266454	+	C	C
5	80404871	80404871	+	C	C
5	49701600	49701600	+	G	G
8	12216912	12216912	+	G	G
5	13944571	13944571	+	G	G
12	56630202	56630202	+	G	G
19	45856036	45856036	+	G	G
10	95110996	95110996	+	G	G
5	121187767	121187767	+	C	C
GL000241.1	25566	25566	+	G	G
12	112605243	112605243	+	G	G
11	56954891	56954891	+	C	C
5	69405764	69405764	+	G	G
5	140474818	140474818	+	C	C
5	14582023	14582023	+	C	C
1	27995827	27995827	+	G	G
5	180053207	180053207	+	C	C
18	59206323	59206323	+	C	C
19	43371381	43371381	+	C	C
2	130877719	130877719	+	C	C
7	136700678	136700678	+	G	G
4	80329114	80329114	+	C	C
7	138602586	138602586	+	G	G
7	44268682	44268682	+	C	C
18	66504034	66504034	+	G	G
1	169510675	169510675	+	A	A
X	138286438	138286438	+	G	G
X	69479462	69479462	+	C	C
20	5282842	5282842	+	G	G
11	48367379	48367379	+	C	C
12	125834101	125834101	+	C	C
GL000195.1	44479	44479	+	T	T
6	49986824	49986824	+	G	G
20	1902298	1902298	+	C	C
X	147030967	147030967	+	G	G
1	57340705	57340705	+	C	C
X	123044645	123044645	+	G	G
19	57293349	57293349	+	C	C
16	72163009	72163009	+	C	C
3	36884160	36884160	+	C	C
19	22271655	22271655	+	A	A



20	33874649	33874649	+	G	G
10	96802736	96802736	+	C	C
2	179499298	179499298	+	C	C
3	44803214	44803214	+	C	C
14	96875210	96875210	+	G	G
10	90433452	90433452	+	A	A
11	66460542	66460542	+	C	C
5	98228409	98228409	+	G	G
16	90229185	90229185	+	C	C
19	44039815	44039815	+	G	G
17	3818804	3818804	+	G	G
14	100375788	100375788	+	C	C
2	3391850	3391850	+	C	C
15	25223565	25223565	+	C	C
18	61255958	61255958	+	G	G
2	165969460	165969460	+	C	C
9	66459863	66459863	+	G	G
10	42928752	42928752	+	G	G
1	76387988	76387988	+	T	T
X	134185895	134185895	+	G	G
6	30865888	30865888	+	C	C
16	57717926	57717926	+	G	G
15	85383622	85383622	+	G	G
19	22362677	22362677	+	T	T
6	152489186	152489186	+	C	C
19	42354496	42354496	+	G	G
22	42608228	42608228	+	T	T
2	228788782	228788782	+	C	C
7	51152923	51152923	+	G	G
16	56548507	56548507	+	A	A
13	29600846	29600846	+	C	C
6	38939430	38939430	+	T	T
11	100168386	100168386	+	G	G
19	53367217	53367217	+	A	A
19	46375371	46375371	+	C	C
18	46386113	46386113	+	C	C
2	164466783	164466783	+	C	C
17	76073561	76073561	+	T	T
18	44159718	44159718	+	C	C
20	49218679	49218679	+	G	G
11	62748489	62748489	+	G	G
X	73065215	73065215	+	G	G
19	42509908	42509908	+	C	C

1	175334344	175334344	+	G	G
15	50215583	50215583	+	T	T
2	98858725	98858725	+	C	C
19	56419314	56419314	+	G	G
2	47044514	47044514	+	G	G
17	48614269	48614269	+	G	G
11	73744950	73744950	+	G	G
12	53865444	53865444	+	G	G
9	66468857	66468857	+	C	C
6	84270663	84270663	+	C	C
GL000219.1	58763	58763	+	G	G
7	35289637	35289637	+	G	G
GL000219.1	56890	56890	+	C	C
1	228467081	228467081	+	C	C
18	19994542	19994542	+	C	C
X	73062381	73062381	+	C	C
5	35965989	35965989	+	C	C
12	7080016	7080016	+	G	G
19	9090080	9090080	+	C	C
9	100245218	100245218	+	C	C
5	175722091	175722091	+	C	C
7	100551602	100551602	+	C	C
10	8116040	8116040	+	G	G
13	114438367	114438367	+	G	G
18	580545	580545	+	G	G
11	3660985	3660985	+	G	G
6	7727473	7727473	+	C	C
X	110406220	110406220	+	A	A
9	127167634	127167634	+	G	G
1	161188783	161188783	+	C	C
11	8486341	8486341	+	C	C
6	35287674	35287674	+	G	G
11	64037539	64037539	+	G	G
17	59557471	59557471	+	C	C
19	23159631	23159631	+	T	T
2	166900465	166900465	+	G	G
15	51696760	51696760	+	G	G
X	147030772	147030772	+	C	C
1	200378478	200378478	+	C	C
19	55785773	55785773	+	G	G
6	29759007	29759007	+	G	G
5	1293562	1293562	+	G	G
X	47085815	47085815	+	C	C

1	243354617	243354617	+	G	G
1	159770300	159770300	+	C	C
14	95057030	95057030	+	G	G
1	213162026	213162026	+	G	G
14	101458292	101458292	+	C	C
3	51864508	51864508	+	C	C
7	142326480	142326480	+	A	A
19	49183521	49183521	+	C	C
16	29998269	29998269	+	C	C
2	96993849	96993849	+	C	C
16	31471147	31471147	+	C	C
15	54919392	54919392	+	C	C
15	42986830	42986830	+	C	C
13	52439712	52439712	+	G	G
1	206772870	206772870	+	G	G
2	179499305	179499305	+	C	C
20	8755189	8755189	+	G	G
16	67429410	67429410	+	G	G
12	7805217	7805217	+	A	A
5	22078579	22078579	+	G	G
15	74364651	74364651	+	C	C
3	124385373	124385373	+	C	C
2	207558012	207558012	+	C	C
11	63176295	63176295	+	C	C
18	18540117	18540117	+	G	G
1	231355518	231355518	+	C	C
1	115632021	115632021	+	G	G
17	8656721	8656721	+	C	C
20	29623165	29623165	+	C	C
16	1034768	1034768	+	G	G
20	44987252	44987252	+	G	G
2	39944384	39944384	+	C	C
8	55647278	55647278	+	C	C
1	159770301	159770301	+	C	C
17	73809276	73809276	+	C	C
12	25297508	25297508	+	G	G
19	9090369	9090369	+	C	C
15	72499097	72499097	+	G	G
6	25916075	25916075	+	G	G
11	60780959	60780959	+	C	C
2	228235633	228235633	+	C	C
3	196529902	196529902	+	G	G
12	11150220	11150220	+	A	A

2	24974859	24974859	+	C	C
10	127455477	127455477	+	C	C
14	22539448	22539448	+	G	G
15	93588143	93588143	+	G	G
11	66192251	66192251	+	T	T
20	7866417	7866417	+	G	G
12	43770104	43770104	+	G	G
12	50747299	50747299	+	C	C
2	220349085	220349085	+	C	C
3	44803213	44803213	+	C	C
8	95262515	95262515	+	G	G
19	51140653	51140653	+	C	C
1	67126198	67126198	+	G	G
5	149574423	149574423	+	G	G
5	28927201	28927201	+	G	G
4	49063837	49063837	+	C	C
5	36035586	36035586	+	G	G
1	111889572	111889572	+	G	G
16	20556547	20556547	+	C	C
1	248059688	248059688	+	C	C
11	123900949	123900949	+	C	C
19	30097212	30097212	+	G	G
4	69535923	69535923	+	C	C
5	140481219	140481219	+	G	G
1	32262264	32262264	+	G	G
13	114438368	114438368	+	G	G
11	93141545	93141545	+	G	G
19	35532678	35532678	+	G	G
16	88804211	88804211	+	C	C
11	64037604	64037604	+	G	G
22	29704277	29704277	+	C	C
12	7310284	7310284	+	G	G
6	345884	345884	+	C	C
17	26603942	26603942	+	T	T
13	114005184	114005184	+	G	G
8	139838999	139838999	+	C	C
1	202702879	202702879	+	C	C
4	74321462	74321462	+	C	C
7	42949123	42949123	+	G	G
7	72440390	72440390	+	G	G
18	33607039	33607039	+	C	C
19	9049592	9049592	+	C	C
2	25754382	25754382	+	G	G

2	179647757	179647757	+	G	G
11	124294102	124294102	+	G	G
11	6502565	6502565	+	G	G
6	6152112	6152112	+	G	G
19	55147870	55147870	+	G	G
14	77269717	77269717	+	G	G
X	134994321	134994321	+	C	C
16	32163575	32163575	+	G	G
19	15536322	15536322	+	G	G
16	28909363	28909363	+	T	T
7	35289636	35289636	+	T	T
20	1552399	1552399	+	G	G
12	7635291	7635291	+	G	G
19	56321459	56321459	+	C	C
20	56082827	56082827	+	C	C
X	101096040	101096040	+	C	C
8	101936141	101936141	+	C	C
11	92086629	92086629	+	G	G
5	143853366	143853366	+	G	G
6	84234040	84234040	+	G	G
12	52100289	52100289	+	G	G
1	20659318	20659318	+	G	G
5	115323526	115323526	+	G	G
12	96704940	96704940	+	A	A
1	12785956	12785956	+	G	G
11	87033140	87033140	+	G	G
4	126241867	126241867	+	C	C
X	119388907	119388907	+	G	G
6	36949425	36949425	+	G	G
8	145773172	145773172	+	G	G
1	57206380	57206380	+	C	C
2	185802134	185802134	+	G	G
5	41181595	41181595	+	C	C
4	123336671	123336671	+	C	C
5	94275883	94275883	+	G	G
16	84456083	84456083	+	G	G
19	35232756	35232756	+	A	A
2	215802267	215802267	+	G	G
19	54403938	54403938	+	G	G
X	75648691	75648691	+	G	G
8	22873215	22873215	+	T	T
20	61443819	61443819	+	C	C
3	121132134	121132134	+	G	G

20	33999785	33999785	+	C	C
5	167630771	167630771	+	G	G
17	60472475	60472475	+	C	C
8	113599431	113599431	+	C	C
X	153171251	153171251	+	G	G
2	21232483	21232483	+	G	G
11	57080809	57080809	+	G	G
17	4463096	4463096	+	G	G
9	130494135	130494135	+	C	C
3	150644333	150644333	+	C	C
20	57829536	57829536	+	C	C
1	42621376	42621376	+	G	G
3	127642963	127642963	+	T	T
6	43578348	43578348	+	C	C
8	30701905	30701905	+	C	C
2	220503511	220503511	+	C	C
7	99145684	99145684	+	G	G
X	3238772	3238772	+	G	G
5	137710848	137710848	+	C	C
11	5410716	5410716	+	C	C
2	86845182	86845182	+	G	G
17	39646010	39646010	+	G	G
13	113770060	113770060	+	C	C
16	28990892	28990892	+	G	G
1	40781321	40781321	+	C	C
15	85438889	85438889	+	G	G
X	150770041	150770041	+	G	G
6	31760595	31760595	+	G	G
1	45477842	45477842	+	T	T
6	56505401	56505401	+	A	A
14	23844888	23844888	+	G	G
12	62104169	62104169	+	C	C
1	160168479	160168479	+	G	G
9	139804435	139804435	+	C	C
2	33740207	33740207	+	G	G
18	50450228	50450228	+	G	G
1	223284203	223284203	+	C	C
11	56058290	56058290	+	C	C
14	77845158	77845158	+	G	G
16	29675990	29675990	+	C	C
16	68014062	68014062	+	G	G
22	22661721	22661721	+	G	G
4	110662021	110662021	+	G	G

20	30661596	30661596	+	G	G
5	13922321	13922321	+	C	C
15	89422867	89422867	+	C	C
17	48355985	48355985	+	C	C
1	111957787	111957787	+	G	G
19	2794800	2794800	+	C	C
1	111437669	111437669	+	C	C
1	247695155	247695155	+	C	C
8	73849083	73849083	+	C	C
X	63490884	63490884	+	G	G
17	50212255	50212255	+	C	C
1	47650692	47650692	+	G	G
7	142428938	142428938	+	G	G
15	25475900	25475900	+	C	C
6	37426446	37426446	+	G	G
3	46718407	46718407	+	G	G
11	46898170	46898170	+	C	C
19	58265565	58265565	+	C	C
2	107021604	107021604	+	C	C
20	40733314	40733314	+	G	G
15	28502238	28502238	+	G	G
14	20443736	20443736	+	C	C
15	38545218	38545218	+	C	C
X	5811319	5811319	+	G	G
6	39025296	39025296	+	G	G
20	34022265	34022265	+	C	C
19	35758529	35758529	+	G	G
4	77003592	77003592	+	G	G
18	77211095	77211095	+	C	C
9	138586903	138586903	+	C	C
19	53513745	53513745	+	C	C
17	30611812	30611812	+	C	C
10	131638518	131638518	+	C	C
12	117664496	117664496	+	G	G
4	96470080	96470080	+	G	G
1	1118287	1118287	+	C	C
12	49431533	49431533	+	A	A
7	100333387	100333387	+	G	G
2	179479412	179479412	+	C	C
17	37886778	37886778	+	C	C
9	125273584	125273584	+	C	C
16	23769008	23769008	+	C	C
1	109957914	109957914	+	G	G

17	73809275	73809275	+	C	C
1	177250087	177250087	+	C	C
1	158747402	158747402	+	G	G
3	148890142	148890142	+	C	C
19	16146710	16146710	+	C	C
19	11136173	11136173	+	C	C
X	150832620	150832620	+	C	C
1	117619442	117619442	+	C	C
7	86539315	86539315	+	C	C
14	68268804	68268804	+	G	G
2	48809592	48809592	+	A	A
8	124998329	124998329	+	G	G
1	223568186	223568186	+	C	C
4	367454	367454	+	C	C
15	101152538	101152538	+	C	C
X	51487161	51487161	+	G	G
15	34102837	34102837	+	C	C
10	34671556	34671556	+	C	C
20	31499453	31499453	+	G	G
5	32089777	32089777	+	G	G
1	35578949	35578949	+	C	C
15	93162606	93162606	+	G	G
5	39315880	39315880	+	C	C
8	110655037	110655037	+	G	G
8	22873214	22873214	+	G	G
7	102235767	102235767	+	C	C
2	113591027	113591027	+	C	C
X	10085686	10085686	+	G	G
12	47160459	47160459	+	G	G
17	20407299	20407299	+	C	C
8	69621248	69621248	+	G	G
11	64037459	64037459	+	G	G
16	76569530	76569530	+	C	C
16	427423	427423	+	G	G
1	104120111	104120111	+	G	G
2	228881762	228881762	+	C	C
10	99161111	99161111	+	G	G
11	36511925	36511925	+	G	G
2	179481477	179481477	+	C	C
8	41554104	41554104	+	A	A
8	39114812	39114812	+	G	G
4	164506983	164506983	+	C	C
5	176053562	176053562	+	G	G



9	125562841	125562841	+	G	G
1	115829063	115829063	+	C	C
X	103036146	103036146	+	A	A
7	44579780	44579780	+	G	G
16	75267818	75267818	+	C	C
16	4257703	4257703	+	C	C
1	156918138	156918138	+	G	G
19	17947907	17947907	+	G	G
22	50580554	50580554	+	G	G
3	69151092	69151092	+	G	G
12	129028590	129028590	+	G	G
11	12348760	12348760	+	G	G
19	55111998	55111998	+	C	C
3	135721811	135721811	+	A	A
9	139343178	139343178	+	G	G
8	35544167	35544167	+	A	A
1	144917832	144917832	+	G	G
9	130489294	130489294	+	G	G
21	41151175	41151175	+	C	C
4	170611754	170611754	+	C	C
22	21380552	21380552	+	C	C
1	115258745	115258745	+	C	C
7	44798968	44798968	+	C	C
4	38775675	38775675	+	C	C
8	2855624	2855624	+	G	G
1	62739897	62739897	+	G	G
4	71232436	71232436	+	C	C
7	126173126	126173126	+	C	C
16	31539914	31539914	+	C	C
18	20932160	20932160	+	C	C
2	224462294	224462294	+	G	G
13	77569310	77569310	+	C	C
4	183652188	183652188	+	G	G
19	36018177	36018177	+	A	A
16	50813587	50813587	+	C	C
2	27357162	27357162	+	T	T
6	26123732	26123732	+	A	A
18	48255650	48255650	+	C	C
10	26825085	26825085	+	A	A
17	79427970	79427970	+	C	C
8	77764458	77764458	+	G	G
9	77377992	77377992	+	C	C
1	152058462	152058462	+	C	C

5	169021191	169021191	+	G	G
8	131848684	131848684	+	G	G
17	61657292	61657292	+	C	C
8	30701906	30701906	+	C	C
8	94935084	94935084	+	G	G
12	43826216	43826216	+	T	T
21	35189704	35189704	+	C	C
13	19751322	19751322	+	G	G
16	4033353	4033353	+	G	G
5	54579220	54579220	+	A	A
X	129492636	129492636	+	G	G
22	40364083	40364083	+	G	G
3	98109866	98109866	+	C	C
17	62082238	62082238	+	C	C
15	58458944	58458944	+	G	G
X	109416542	109416542	+	C	C
1	248308656	248308656	+	G	G
7	23562042	23562042	+	G	G
12	72680670	72680670	+	A	A
6	31239201	31239201	+	A	A
3	113049154	113049154	+	G	G
16	22339937	22339937	+	G	G
1	153727170	153727170	+	T	T
1	242511432	242511433	+	-	-
2	190719518	190719518	+	C	C
2	218712498	218712498	+	A	A
2	220332050	220332076	+	AATGCAAGATGCATTTCAATGCAAGATGCATTTCC	
6	12294283	12294288	+	AAAGAC	AAAGAC
7	37903996	37903997	+	-	-
7	44621063	44621063	+	G	G
11	128354753	128354762	+	GTGACGACTT	GTGACGACTT
14	21929431	21929431	+	G	G
17	29652895	29652909	+	AAAGCCATATTATGC	AAAGCCATATTATGC
17	30986210	30986216	+	GTAGTCT	GTAGTCT
19	44131423	44131423	+	C	C
20	37202862	37202862	+	A	A
22	32017842	32017843	+	GC	GC
3	122419342	122419342	+	T	T
11	102394031	102394031	+	C	C
12	52797685	52797685	+	G	G
3	49699841	49699841	+	C	C
1	156641384	156641384	+	C	C
13	113814419	113814419	+	G	G

6	49663590	49663590	+	G	G
20	51871534	51871534	+	G	G
16	81078519	81078519	+	T	T
3	58190532	58190532	+	C	C
12	9010113	9010113	+	G	G
3	126916026	126916026	+	C	C
X	106841147	106841147	+	G	G
14	74967633	74967633	+	C	C
21	34648962	34648962	+	C	C
5	24488226	24488226	+	C	C
6	148050740	148050740	+	G	G
3	130125157	130125157	+	G	G
11	111167077	111167077	+	G	G
5	3599406	3599406	+	C	C
17	71389859	71389859	+	G	G
11	65735000	65735000	+	C	C
3	183911530	183911530	+	C	C
16	842094	842094	+	C	C
19	49686396	49686396	+	C	C
16	4408248	4408248	+	G	G
1	100613768	100613768	+	C	C
6	138612976	138612976	+	C	C
16	29678337	29678337	+	G	G
17	39538210	39538210	+	G	G
12	93936396	93936396	+	G	G
1	32936895	32936895	+	C	C
7	38305176	38305176	+	C	C
1	38187508	38187508	+	C	C
6	32522581	32522581	+	C	C
12	70986137	70986137	+	C	C
5	176314727	176314727	+	C	C
3	183910943	183910943	+	G	G
11	100998826	100998826	+	C	C
9	14841500	14841500	+	G	G
11	40136935	40136935	+	C	C
6	168445647	168445647	+	C	C
5	64756126	64756126	+	C	C
7	48027040	48027040	+	C	C
17	45901790	45901790	+	C	C
2	170011041	170011041	+	G	G
7	128355738	128355738	+	C	C
8	135649870	135649870	+	G	G
19	48205592	48205592	+	C	C

1	207782655	207782655	+	C	C
4	106510530	106510530	+	G	G
8	89053892	89053892	+	C	C
12	7882181	7882181	+	G	G
3	119328423	119328423	+	G	G
18	6999962	6999962	+	C	C
15	79254495	79254495	+	G	G
8	16974075	16974075	+	G	G
17	38122069	38122069	+	G	G
1	84944976	84944976	+	C	C
11	82959242	82959242	+	T	T
11	123813841	123813841	+	C	C
15	89424904	89424904	+	G	G
14	64491123	64491123	+	C	C
19	12911751	12911751	+	G	G
17	30611783	30611783	+	C	C
7	100282378	100282378	+	C	C
10	26849122	26849122	+	G	G
17	8135091	8135091	+	A	A
19	12856560	12856560	+	C	C
2	179438501	179438501	+	G	G
22	33700241	33700241	+	G	G
1	16043305	16043305	+	G	G
17	46030461	46030461	+	G	G
12	108010929	108010929	+	G	G
12	101598313	101598313	+	G	G
9	68414834	68414834	+	C	C
16	56624038	56624038	+	G	G
7	138603045	138603045	+	C	C
6	25813153	25813153	+	G	G
17	32906219	32906219	+	G	G
8	104922629	104922629	+	G	G
3	46875301	46875301	+	C	C
7	27213291	27213291	+	C	C
5	101834520	101834520	+	C	C
20	31601720	31601720	+	C	C
X	115304404	115304404	+	G	G
2	219000187	219000187	+	C	C
3	113955113	113955113	+	C	C
20	368777	368777	+	C	C
2	179632624	179632624	+	G	G
2	61006904	61006904	+	C	C
7	100320700	100320700	+	C	C

7	97862957	97862957	+	G	G
3	196736629	196736629	+	G	G
19	1112050	1112050	+	C	C
2	210683964	210683964	+	G	G
1	111963993	111963993	+	G	G
5	167957409	167957409	+	G	G
8	2148698	2148698	+	C	C
8	117859824	117859824	+	T	T
1	228547542	228547542	+	G	G
12	18499726	18499726	+	C	C
3	169540230	169540230	+	G	G
21	37617503	37617503	+	C	C
19	48305051	48305051	+	C	C
12	68696496	68696496	+	G	G
16	72042659	72042659	+	G	G
5	134147385	134147385	+	G	G
14	94156491	94156491	+	C	C
7	98513435	98513435	+	G	G
9	6558672	6558672	+	G	G
16	70867921	70867921	+	G	G
1	164818554	164818554	+	C	C
19	8530307	8530307	+	C	C
3	195781984	195781984	+	C	C
12	110600796	110600796	+	C	C
14	23902377	23902377	+	G	G
11	102710977	102710977	+	G	G
19	30206207	30206207	+	C	C
22	45810239	45810239	+	C	C
11	1642956	1642956	+	G	G
22	32828428	32828428	+	G	G
16	49407878	49407878	+	G	G
17	74581766	74581766	+	C	C
8	53062531	53062531	+	C	C
2	169791748	169791748	+	C	C
1	152732182	152732182	+	C	C
1	230814735	230814735	+	G	G
8	108509805	108509805	+	C	C
17	45473307	45473307	+	G	G
3	150690557	150690557	+	G	G
7	27192327	27192327	+	C	C
18	22023037	22023037	+	C	C
6	10831027	10831027	+	C	C
17	27037987	27037987	+	G	G

X	107417713	107417713	+	C	C
15	75189215	75189215	+	C	C
13	29600542	29600542	+	G	G
8	101153393	101153393	+	C	C
17	46024334	46024334	+	G	G
5	31799625	31799625	+	C	C
22	30639490	30639490	+	G	G
15	91546358	91546358	+	A	A
22	28492397	28492397	+	C	C
1	89849794	89849794	+	G	G
1	2938970	2938970	+	G	G
19	53513812	53513812	+	G	G
1	120351479	120351479	+	C	C
19	3557399	3557399	+	C	C
6	36870049	36870049	+	C	C
14	97299860	97299860	+	C	C
7	133984255	133984255	+	C	C
21	44513267	44513267	+	C	C
11	722722	722722	+	C	C
14	92159496	92159496	+	G	G
2	120124728	120124728	+	C	C
19	55179527	55179527	+	G	G
21	26978860	26978860	+	G	G
7	91843226	91843226	+	G	G
6	6305658	6305658	+	G	G
9	90536544	90536544	+	G	G
2	206166306	206166306	+	G	G
7	141872500	141872500	+	G	G
8	71486432	71486432	+	C	C
19	42223925	42223925	+	T	T
22	50018131	50018131	+	C	C
12	10313041	10313041	+	A	A
5	13901544	13901544	+	G	G
22	37865909	37865909	+	C	C
11	73022621	73022621	+	C	C
2	73717929	73717929	+	C	C
19	38379457	38379457	+	C	C
3	112357792	112357792	+	G	G
14	95081041	95081041	+	C	C
1	1111504	1111504	+	G	G
22	30951447	30951447	+	G	G
5	50117092	50117092	+	C	C
8	145699471	145699471	+	G	G

5	140711128	140711128	+	C	C
3	47046518	47046518	+	C	C
15	75562473	75562473	+	G	G
11	55322142	55322142	+	C	C
12	104031812	104031812	+	G	G
1	230468737	230468737	+	G	G
19	57085674	57085674	+	C	C
6	89888568	89888568	+	G	G
9	96054856	96054856	+	C	C
20	3102862	3102862	+	A	A
2	171509779	171509779	+	C	C
5	26916004	26916004	+	C	C
12	55846659	55846659	+	G	G
20	37464812	37464812	+	G	G
11	5172820	5172820	+	G	G
3	196387093	196387093	+	C	C
16	85952048	85952048	+	C	C
7	99590366	99590366	+	C	C
22	42120012	42120012	+	G	G
1	6636587	6636587	+	G	G
2	228996707	228996707	+	C	C
14	106791239	106791239	+	G	G
2	68270018	68270018	+	A	A
1	247737445	247737445	+	G	G
16	10274121	10274121	+	C	C
11	16838504	16838504	+	G	G
6	28185999	28185999	+	A	A
11	82997050	82997050	+	G	G
1	27677206	27677206	+	G	G
19	23159465	23159465	+	T	T
17	41939165	41939165	+	G	G
21	44270083	44270083	+	G	G
2	26411046	26411046	+	C	C
3	120369629	120369629	+	C	C
17	77915960	77915960	+	A	A
17	39643975	39643975	+	G	G
16	84914151	84914151	+	C	C
17	10265785	10265785	+	C	C
16	71483545	71483545	+	G	G
16	81711913	81711913	+	G	G
14	92054395	92054395	+	C	C
14	94404135	94404135	+	G	G
19	49990722	49990722	+	G	G

17	17714625	17714625	+	A	A
10	104179842	104179842	+	C	C
17	63822294	63822294	+	G	G
17	47659224	47659224	+	G	G
14	22675889	22675889	+	G	G
17	3181246	3181246	+	G	G
2	179593061	179593061	+	G	G
15	90213436	90213436	+	G	G
6	32160383	32160383	+	G	G
1	160313094	160313094	+	G	G
12	57881777	57881777	+	A	A
6	32191718	32191718	+	T	T
15	66977727	66977727	+	C	C
5	140730569	140730569	+	C	C
19	38376783	38376783	+	A	A
1	215847978	215847978	+	C	C
3	41746765	41746765	+	C	C
19	5739429	5739429	+	G	G
11	574197	574197	+	C	C
2	28532824	28532824	+	C	C
22	19197937	19197937	+	A	A
14	24041038	24041038	+	C	C
6	29894534	29894534	+	C	C
3	124141727	124141727	+	C	C
14	22975611	22975611	+	A	A
14	88877110	88877110	+	G	G
3	57469189	57469189	+	C	C
16	626261	626261	+	G	G
3	151012533	151012533	+	C	C
7	102738821	102738821	+	C	C
12	21168708	21168708	+	G	G
11	116728832	116728832	+	C	C
19	40581487	40581487	+	G	G
11	822471	822471	+	C	C
21	40977863	40977863	+	C	C
3	120952498	120952498	+	G	G
22	43564824	43564824	+	A	A
19	12359014	12359014	+	G	G
16	30001081	30001081	+	G	G
20	39981477	39981477	+	C	C
8	53085141	53085141	+	C	C
15	86205685	86205685	+	G	G
19	5772933	5772933	+	C	C



5	56546911	56546911	+	G	G
11	55746706	55746706	+	G	G
1	142620871	142620871	+	G	G
9	139342907	139342907	+	G	G
7	20721273	20721273	+	C	C
12	129694156	129694156	+	G	G
17	41165562	41165562	+	G	G
1	202719861	202719861	+	G	G
3	4357934	4357934	+	A	A
2	40392026	40392026	+	C	C
13	49933877	49933877	+	G	G
7	45124717	45124717	+	C	C
22	39066937	39066937	+	C	C
19	34263621	34263621	+	G	G
1	94485272	94485272	+	A	A
12	85450544	85450544	+	T	T
7	120935621	120935621	+	C	C
10	43015677	43015677	+	G	G
3	61547812	61547812	+	C	C
8	123965221	123965221	+	C	C
10	96702172	96702172	+	C	C
11	7982354	7982354	+	G	G
1	144873951	144873951	+	G	G
2	127944707	127944707	+	C	C
22	36960493	36960493	+	C	C
9	117228643	117228643	+	G	G
2	108488342	108488342	+	C	C
5	111598228	111598228	+	G	G
14	59835526	59835526	+	C	C
20	62839543	62839543	+	G	G
17	10236444	10236444	+	C	C
6	55145252	55145252	+	C	C
14	91739723	91739723	+	G	G
7	99933594	99933594	+	T	T
1	82409224	82409224	+	G	G
8	144520093	144520093	+	G	G
5	1208908	1208908	+	C	C
8	41790161	41790161	+	G	G
2	98887342	98887342	+	G	G
2	167301279	167301279	+	C	C
4	113544997	113544997	+	C	C
14	70236212	70236212	+	A	A
2	28843811	28843811	+	G	G

16	84014667	84014667	+	G	G
19	53793231	53793231	+	C	C
5	179225310	179225310	+	G	G
7	150217800	150217800	+	G	G
2	40655708	40655708	+	G	G
1	155255018	155255018	+	C	C
14	88945681	88945681	+	C	C
9	138667165	138667165	+	G	G
14	92608650	92608650	+	C	C
11	56409512	56409512	+	G	G
8	11189597	11189597	+	C	C
22	29674069	29674069	+	T	T
1	12183797	12183797	+	G	G
GL000218.1	53637	53637	+	A	A
6	47754302	47754302	+	G	G
12	49936549	49936549	+	G	G
10	98155766	98155766	+	C	C
11	5173543	5173543	+	G	G
2	228116062	228116062	+	G	G
7	100486706	100486706	+	C	C
19	59028330	59028330	+	G	G
19	59022850	59022850	+	G	G
8	106813457	106813457	+	G	G
9	78911664	78911664	+	G	G
18	31324810	31324810	+	T	T
1	79387371	79387371	+	T	T
11	45956694	45956694	+	G	G
3	49662470	49662470	+	C	C
X	3524562	3524562	+	G	G
5	76251500	76251500	+	A	A
7	143826750	143826750	+	C	C
1	151491052	151491052	+	G	G
20	9560816	9560816	+	G	G
10	50714025	50714025	+	C	C
7	91792607	91792607	+	C	C
1	227335215	227335215	+	C	C
2	174062776	174062776	+	G	G
7	99032843	99032843	+	C	C
1	207649702	207649702	+	G	G
3	111899473	111899473	+	C	C
8	110986330	110986330	+	G	G
11	124747700	124747700	+	C	C
12	48723512	48723512	+	G	G

20	6759184	6759184	+	G	G
17	6945739	6945739	+	A	A
8	29989425	29989425	+	C	C
11	120008485	120008485	+	G	G
2	132021678	132021678	+	G	G
15	54306616	54306616	+	G	G
16	602128	602128	+	C	C
2	133543192	133543192	+	C	C
8	37687369	37687369	+	G	G
17	21117574	21117574	+	G	G
8	4277512	4277512	+	G	G
9	114134826	114134826	+	G	G
6	122741307	122741307	+	C	C
17	20424950	20424950	+	G	G
16	84792348	84792348	+	C	C
19	3119014	3119014	+	G	G
17	33427850	33427850	+	C	C
5	81571085	81571085	+	T	T
1	111968034	111968034	+	G	G
6	143093747	143093747	+	G	G
1	145460204	145460204	+	C	C
2	230902163	230902163	+	A	A
2	136575327	136575327	+	C	C
7	76959570	76959570	+	G	G
8	110451162	110451162	+	G	G
20	57828183	57828183	+	G	G
18	50994349	50994349	+	G	G
1	196705992	196705992	+	C	C
19	44117376	44117376	+	C	C
1	43855557	43855557	+	C	C
9	140878645	140878645	+	C	C
10	15255504	15255504	+	C	C
17	72363773	72363773	+	G	G
2	191114415	191114415	+	G	G
19	8212303	8212303	+	G	G
7	100771719	100771719	+	C	C
8	145745335	145745335	+	C	C
20	60901960	60901960	+	G	G
1	21180070	21180070	+	G	G
14	94942631	94942631	+	G	G
1	166991060	166991060	+	G	G
13	110823029	110823029	+	G	G
7	150761401	150761401	+	G	G

3	127323915	127323915	+	C	C
5	98129574	98129574	+	T	T
3	51897063	51897063	+	C	C
20	62369815	62369815	+	C	C
13	101755534	101755534	+	C	C
14	65194561	65194561	+	T	T
19	9069347	9069347	+	G	G
5	22078849	22078849	+	C	C
15	40589733	40589733	+	C	C
5	156589901	156589901	+	C	C
19	53015412	53015412	+	C	C
4	8609056	8609056	+	C	C
11	118037662	118037662	+	C	C
2	202060612	202060612	+	C	C
19	58880471	58880471	+	C	C
8	39114774	39114774	+	C	C
15	59911232	59911232	+	G	G
6	25701643	25701643	+	G	G
3	27326179	27326179	+	C	C
22	46627912	46627912	+	G	G
12	41463908	41463908	+	C	C
12	10370710	10370710	+	A	A
20	36500357	36500357	+	G	G
15	38233881	38233881	+	G	G
7	100319300	100319300	+	G	G
18	34654768	34654768	+	C	C
7	151503979	151503979	+	G	G
19	9070083	9070083	+	C	C
2	132275388	132275388	+	C	C
19	30165091	30165091	+	C	C
17	5433315	5433315	+	G	G
4	41682022	41682022	+	G	G
7	119914668	119914668	+	C	C
19	54705459	54705459	+	C	C
10	24813345	24813345	+	G	G
17	4712842	4712842	+	G	G
8	24212065	24212065	+	G	G
9	35685292	35685292	+	C	C
2	61544851	61544851	+	G	G
17	7667463	7667463	+	G	G
X	3235774	3235774	+	G	G
12	21689698	21689698	+	G	G
1	196918720	196918720	+	C	C

2	135711373	135711373	+	C	C
17	58259103	58259103	+	G	G
8	87559960	87559960	+	C	C
7	71175768	71175768	+	G	G
X	117526998	117526998	+	C	C
7	99767825	99767825	+	C	C
2	30974084	30974084	+	G	G
7	141672872	141672872	+	G	G
X	118222004	118222004	+	G	G
18	31320366	31320366	+	G	G
11	31811120	31811120	+	C	C
11	113560489	113560489	+	G	G
20	47849903	47849903	+	C	C
12	113307802	113307802	+	G	G
17	3100934	3100934	+	G	G
21	30365231	30365231	+	C	C
11	114398599	114398599	+	C	C
14	104979108	104979108	+	A	A
14	53525319	53525319	+	G	G
19	45324045	45324045	+	G	G
14	77279247	77279247	+	C	C
2	210804304	210804304	+	G	G
1	247978641	247978641	+	C	C
3	121340858	121340858	+	G	G
20	45092816	45092816	+	C	C
12	49420178	49420178	+	G	G
19	2767621	2767621	+	G	G
16	31408927	31408927	+	G	G
20	41101135	41101135	+	C	C
5	133482075	133482075	+	C	C
3	38129820	38129820	+	C	C
11	59132795	59132795	+	C	C
19	54314241	54314241	+	G	G
9	37741026	37741026	+	C	C
8	30704148	30704148	+	C	C
11	4406733	4406733	+	G	G
1	38006029	38006029	+	G	G
11	76751294	76751294	+	C	C
14	100608115	100608115	+	G	G
1	184765110	184765110	+	G	G
6	169634990	169634990	+	C	C
9	38395907	38395907	+	C	C
3	49145877	49145877	+	G	G

21	10951412	10951412	+	G	G
15	41136293	41136293	+	C	C
2	73957032	73957032	+	C	C
12	88502932	88502932	+	T	T
20	56179365	56179365	+	G	G
3	38966983	38966983	+	G	G
2	37096700	37096700	+	T	T
6	168445506	168445506	+	G	G
1	34666372	34666372	+	G	G
2	108443451	108443451	+	G	G
12	3742804	3742804	+	C	C
17	34182033	34182033	+	G	G
14	38170651	38170651	+	G	G
7	113558777	113558777	+	A	A
18	10672860	10672860	+	G	G
2	241404627	241404627	+	G	G
3	20181776	20181776	+	G	G
12	113596885	113596885	+	G	G
12	133234478	133234478	+	G	G
19	46195228	46195228	+	C	C
4	155511886	155511886	+	G	G
19	8604840	8604840	+	G	G
11	72282212	72282212	+	G	G
6	31918192	31918192	+	A	A
6	31852906	31852906	+	G	G
1	216692707	216692707	+	C	C
14	22948553	22948553	+	A	A
22	40807366	40807366	+	C	C
6	129959711	129959711	+	G	G
19	7626530	7626530	+	C	C
7	116838395	116838395	+	C	C
15	32450802	32450802	+	C	C
6	54122152	54122152	+	C	C
3	38565730	38565730	+	C	C
2	63609227	63609227	+	C	C
22	38165316	38165316	+	C	C
X	23019859	23019859	+	G	G
11	67286594	67286594	+	C	C
8	104337070	104337070	+	C	C
2	109380785	109380785	+	T	T
17	20424949	20424949	+	G	G
6	39874156	39874156	+	G	G
1	82416061	82416061	+	C	C

11	45793113	45793113	+	C	C
11	76918263	76918263	+	C	C
11	7111096	7111096	+	C	C
15	20644271	20644271	+	G	G
2	160710183	160710183	+	C	C
3	126270907	126270907	+	C	C
7	151874137	151874137	+	T	T
20	3843036	3843036	+	G	G
15	85438750	85438750	+	C	C
17	48154372	48154372	+	C	C
2	74756893	74756893	+	G	G
7	86554885	86554885	+	G	G
16	31073471	31073471	+	C	C
12	30884378	30884378	+	G	G
19	35899349	35899349	+	G	G
1	40705641	40705641	+	C	C
2	113820168	113820168	+	G	G
11	61160100	61160100	+	G	G
17	37009987	37009987	+	A	A
2	27715292	27715292	+	C	C
15	42386740	42386740	+	G	G
2	24433655	24433655	+	G	G
1	190067802	190067802	+	C	C
9	67281799	67281799	+	G	G
16	30900119	30900119	+	C	C
2	27930698	27930698	+	C	C
15	75189214	75189214	+	C	C
7	122338926	122338926	+	G	G
15	100332885	100332885	+	G	G
1	155533099	155533099	+	G	G
14	78392203	78392203	+	G	G
9	38543328	38543328	+	G	G
21	46603378	46603378	+	C	C
7	23728365	23728365	+	C	C
14	91780281	91780281	+	C	C
2	85780613	85780613	+	G	G
2	43625166	43625166	+	G	G
1	3328601	3328601	+	G	G
19	52249308	52249308	+	G	G
1	143767710	143767710	+	G	G
17	27011962	27011962	+	G	G
11	5475332	5475332	+	C	C
8	27630171	27630171	+	C	C

5	35790141	35790141	+	G	G
16	70977772	70977772	+	C	C
7	141840824	141840824	+	C	C
16	2506943	2506943	+	C	C
16	24870021	24870021	+	T	T
11	31823137	31823137	+	C	C
6	29641208	29641208	+	C	C
2	198273269	198273269	+	G	G
3	112693795	112693795	+	C	C
5	1214132	1214132	+	C	C
X	110970614	110970614	+	T	T
12	3982442	3982442	+	C	C
9	66459845	66459845	+	G	G
1	157660198	157660198	+	C	C
3	119263599	119263599	+	C	C
7	7420294	7420294	+	A	A
16	30776281	30776281	+	G	G
17	72943410	72943410	+	G	G
5	140778754	140778754	+	G	G
2	80846225	80846225	+	A	A
2	238285471	238285471	+	A	A
19	46270287	46270287	+	G	G
2	234750269	234750269	+	G	G
3	11383608	11383608	+	G	G
4	47322220	47322220	+	G	G
14	92185795	92185795	+	C	C
1	62263027	62263027	+	G	G
20	44579199	44579199	+	G	G
1	16862595	16862595	+	C	C
1	3379681	3379681	+	G	G
20	30432320	30432320	+	G	G
12	113532914	113532914	+	G	G
3	139280071	139280071	+	G	G
11	7110389	7110389	+	G	G
1	248129394	248129394	+	C	C
1	228645174	228645174	+	T	T
18	47108041	47108041	+	C	C
22	24583645	24583645	+	C	C
19	5668213	5668213	+	C	C
17	43318530	43318530	+	C	C
4	52943038	52943038	+	G	G
19	7117139	7117139	+	G	G
1	231401043	231401043	+	C	C



2	179442498	179442498	+	C	C
4	367646	367646	+	A	A
6	26250716	26250716	+	G	G
1	85121589	85121589	+	A	A
12	99201656	99201656	+	C	C
19	44777362	44777362	+	G	G
6	32908600	32908600	+	G	G
11	48238668	48238668	+	C	C
X	14627186	14627186	+	C	C
3	151105724	151105724	+	G	G
11	17474789	17474789	+	G	G
15	90272977	90272977	+	A	A
2	131522198	131522198	+	C	C
17	7800456	7800456	+	A	A
10	5498922	5498922	+	C	C
2	240033339	240033339	+	C	C
3	58519800	58519800	+	C	C
8	27320998	27320998	+	G	G
11	3050297	3050297	+	G	G
2	227920818	227920818	+	C	C
20	39316757	39316757	+	G	G
22	26887731	26887731	+	T	T
19	3759891	3759891	+	G	G
20	42697461	42697461	+	G	G
17	21826103	21826103	+	A	A
14	102898295	102898295	+	C	C
11	123811110	123811110	+	C	C
2	11810277	11810277	+	C	C
2	209309521	209309521	+	C	C
X	14861817	14861817	+	T	T
7	4116719	4116719	+	G	G
5	140256446	140256446	+	C	C
11	15994311	15994311	+	G	G
4	100263983	100263983	+	G	G
6	36178083	36178083	+	G	G
3	158363430	158363430	+	G	G
11	17099295	17099295	+	G	G
8	54155336	54155336	+	G	G
3	126216936	126216936	+	C	C
1	152188311	152188311	+	G	G
2	231152607	231152607	+	G	G
3	130107715	130107715	+	C	C
4	2306913	2306913	+	G	G

11	47182770	47182770	+	C	C
1	55165845	55165845	+	G	G
16	19020698	19020698	+	G	G
10	47133637	47133637	+	C	C
4	69798425	69798425	+	G	G
21	36042129	36042129	+	C	C
11	62623745	62623745	+	G	G
3	122002865	122002865	+	C	C
19	55284838	55284838	+	G	G
19	37039150	37039150	+	C	C
18	59212293	59212293	+	G	G
12	115112157	115112157	+	C	C
7	77885164	77885164	+	C	C
1	222717406	222717406	+	G	G
X	117527073	117527073	+	C	C
3	50618069	50618069	+	C	C
6	25452488	25452488	+	C	C
11	24927568	24927568	+	G	G
3	118935066	118935066	+	G	G
21	27062206	27062206	+	G	G
7	150269991	150269991	+	A	A
5	32000341	32000341	+	C	C
2	98779326	98779326	+	G	G
12	52825840	52825840	+	C	C
17	42168713	42168713	+	G	G
6	29644952	29644952	+	G	G
13	75813874	75813874	+	C	C
X	107417754	107417754	+	G	G
19	46891872	46891872	+	C	C
5	99715311	99715311	+	G	G
17	55950136	55950136	+	C	C
X	13337960	13337960	+	C	C
17	73621621	73621621	+	C	C
18	25593658	25593658	+	C	C
2	179577981	179577981	+	G	G
6	43226804	43226804	+	G	G
14	53177844	53177844	+	G	G
6	55378900	55378900	+	C	C
8	17823617	17823617	+	G	G
7	116399472	116399472	+	G	G
5	161112796	161112796	+	G	G
7	142638490	142638490	+	C	C
1	197886988	197886988	+	C	C

6	30918592	30918592	+	G	G
6	74124385	74124385	+	G	G
15	102298022	102298022	+	G	G
7	140390595	140390595	+	G	G
2	179537156	179537156	+	C	C
11	63439210	63439210	+	G	G
13	36245248	36245248	+	C	C
6	29759429	29759429	+	A	A
22	26247481	26247481	+	C	C
GL000192.1	160177	160177	+	C	C
19	7591682	7591682	+	T	T
17	18574939	18574939	+	C	C
19	38380799	38380799	+	T	T
1	1111505	1111505	+	G	G
2	113984777	113984777	+	C	C
16	3296540	3296540	+	C	C
11	46342403	46342403	+	T	T
7	117067537	117067537	+	C	C
18	56711376	56711376	+	G	G
2	113081973	113081973	+	C	C
12	58088043	58088043	+	G	G
22	36006984	36006984	+	G	G
18	5428365	5428365	+	G	G
20	2779158	2779158	+	G	G
2	99992902	99992902	+	G	G
7	82545630	82545630	+	G	G
7	144059796	144059796	+	C	C
22	45810238	45810238	+	C	C
2	97595005	97595005	+	G	G
11	65822669	65822669	+	G	G
12	18716344	18716344	+	G	G
3	38357827	38357827	+	G	G
3	99569081	99569081	+	T	T
16	84270723	84270723	+	G	G
11	111751518	111751518	+	C	C
1	1387775	1387775	+	C	C
11	120008486	120008486	+	G	G
17	39767632	39767632	+	C	C
15	93588771	93588771	+	C	C
8	70539479	70539479	+	G	G
18	13387628	13387628	+	G	G
7	87046830	87046830	+	G	G
8	139809082	139809082	+	G	G

X	70586159	70586159	+	C	C
7	137237142	137237142	+	C	C
4	36230394	36230394	+	C	C
X	117526999	117526999	+	C	C
17	18024328	18024328	+	C	C
22	50695550	50695550	+	C	C
15	22382807	22382807	+	G	G
8	53050000	53050000	+	T	T
12	53400231	53400231	+	C	C
11	22770718	22770718	+	G	G
6	31938516	31938516	+	G	G
11	60638693	60638693	+	G	G
2	233274486	233274486	+	C	C
18	29487520	29487520	+	A	A
11	5142296	5142296	+	C	C
12	110977699	110977699	+	G	G
5	41475798	41475798	+	C	C
16	815203	815203	+	G	G
11	34514861	34514861	+	C	C
1	225459618	225459618	+	G	G
2	179438500	179438500	+	A	A
6	32170136	32170136	+	G	G
19	1506784	1506784	+	G	G
7	56151909	56151909	+	C	C
20	39977420	39977420	+	C	C
2	1488400	1488400	+	C	C
15	84287123	84287123	+	C	C
8	35453116	35453116	+	C	C
11	111326527	111326527	+	C	C
16	2871543	2871543	+	C	C
4	7730151	7730151	+	G	G
7	38768148	38768148	+	G	G
6	6175055	6175055	+	C	C
1	45798477	45798477	+	G	G
8	113960098	113960098	+	C	C
1	227935529	227935529	+	C	C
14	92040170	92040170	+	G	G
8	53092745	53092745	+	C	C
19	36230929	36230929	+	A	A
3	164754245	164754245	+	A	A
19	1811657	1811657	+	C	C
15	31819436	31819436	+	C	C
12	53002026	53002026	+	C	C

X	71417325	71417325	+	G	G
X	20081676	20081676	+	G	G
5	140481836	140481836	+	G	G
7	99767824	99767824	+	C	C
17	36705382	36705382	+	G	G
19	47127175	47127175	+	C	C
5	11023048	11023048	+	C	C
4	44709867	44709867	+	C	C
3	46666756	46666756	+	C	C
17	10263502	10263502	+	C	C
8	53062432	53062432	+	G	G
11	115375065	115375065	+	C	C
3	132441119	132441119	+	G	G
12	101581276	101581276	+	A	A
19	43022883	43022883	+	C	C
X	14627212	14627212	+	C	C
22	32590429	32590429	+	C	C
19	9090772	9090772	+	G	G
X	73961073	73961073	+	C	C
11	113105885	113105885	+	C	C
19	507648	507648	+	C	C
2	165365049	165365049	+	C	C
8	133090207	133090207	+	C	C
7	90419941	90419941	+	G	G
3	16216887	16216887	+	G	G
7	142478839	142478839	+	C	C
6	138584116	138584116	+	G	G
15	22962501	22962501	+	C	C
11	31115636	31115636	+	C	C
X	50135416	50135416	+	G	G
7	149490537	149490537	+	G	G
17	33521050	33521050	+	G	G
2	220396526	220396526	+	G	G
11	114450978	114450978	+	C	C
11	47201018	47201018	+	G	G
19	45719399	45719399	+	C	C
7	21856244	21856244	+	C	C
1	210334977	210334977	+	C	C
16	2050043	2050043	+	G	G
8	99264764	99264764	+	C	C
3	182987954	182987954	+	C	C
22	37273674	37273674	+	G	G
8	103573097	103573097	+	G	G

2	188332620	188332620	+	C	C
5	43161913	43161913	+	C	C
1	207684929	207684929	+	T	T
9	38615622	38615622	+	G	G
3	137843402	137843402	+	C	C
14	34269013	34269013	+	G	G
4	69519899	69519899	+	G	G
1	170964652	170964652	+	G	G
2	56411870	56411870	+	C	C
11	7846875	7846875	+	G	G
15	91430215	91430215	+	C	C
14	94844659	94844659	+	G	G
14	22134223	22134223	+	G	G
1	237167548	237167548	+	G	G
6	3850277	3850277	+	G	G
7	142149181	142149181	+	C	C
X	49074943	49074943	+	G	G
12	104390532	104390532	+	T	T
1	248202047	248202047	+	G	G
17	39680456	39680456	+	A	A
21	39426805	39426805	+	G	G
7	45124716	45124716	+	C	C
16	89556961	89556961	+	G	G
17	74004347	74004347	+	G	G
8	65711107	65711107	+	G	G
15	77317936	77317936	+	G	G
12	41900379	41900379	+	G	G
17	78055597	78055597	+	G	G
13	84453688	84453688	+	C	C
3	47618665	47618665	+	T	T
8	134061346	134061346	+	G	G
20	33117818	33117818	+	C	C
1	119964771	119964771	+	A	A
16	57181449	57181449	+	C	C
3	54919598	54919598	+	G	G
8	18541326	18541326	+	C	C
1	181767510	181767510	+	C	C
8	42188664	42188664	+	C	C
3	125208300	125208300	+	G	G
17	73257955	73257955	+	C	C
5	147486599	147486599	+	G	G
22	45243911	45243911	+	C	C
2	234106768	234106768	+	C	C

19	45021133	45021133	+	C	C
GL000211.1	107465	107465	+	T	T
11	1642986	1642986	+	G	G
11	107506466	107506466	+	C	C
11	62932099	62932099	+	C	C
17	14205198	14205198	+	C	C
6	123588894	123588894	+	T	T
2	9568933	9568933	+	C	C
9	139996447	139996447	+	C	C
16	705919	705919	+	C	C
9	140786375	140786375	+	G	G
11	66358647	66358647	+	G	G
6	116442839	116442839	+	G	G
16	30080660	30080660	+	C	C
14	78392204	78392204	+	G	G
16	69481180	69481180	+	C	C
3	57401199	57401199	+	G	G
3	14563244	14563244	+	G	G
6	135375808	135375808	+	G	G
16	77325284	77325284	+	C	C
8	55538048	55538048	+	G	G
2	128408906	128408906	+	G	G
6	32549448	32549448	+	C	C
5	140503598	140503598	+	C	C
14	20389635	20389635	+	G	G
15	20588614	20588614	+	C	C
19	45719400	45719400	+	A	A
11	9771705	9771705	+	T	T
17	17124721	17124721	+	C	C
19	58084957	58084957	+	G	G
5	140166409	140166409	+	C	C
1	45799213	45799213	+	C	C
7	122028707	122028707	+	C	C
1	155168266	155168266	+	C	C
7	73153189	73153189	+	C	C
6	33235076	33235076	+	G	G
5	36039616	36039616	+	C	C
13	39263591	39263591	+	G	G
10	71665558	71665558	+	C	C
14	20666088	20666088	+	C	C
14	101198438	101198438	+	G	G
3	42956663	42956663	+	G	G
2	113089787	113089787	+	A	A

5	134785503	134785503	+	C	C
7	144320298	144320298	+	A	A
16	88893230	88893230	+	C	C
5	145460606	145460606	+	C	C
11	236984	236984	+	C	C
12	21998764	21998764	+	C	C
11	31159244	31159244	+	C	C
1	89732656	89732656	+	G	G
20	55949988	55949988	+	C	C
20	55949987	55949987	+	C	C
8	54163399	54163399	+	A	A
2	179582773	179582773	+	G	G
19	42928304	42928304	+	G	G
5	154200954	154200954	+	T	T
19	33486950	33486950	+	C	C
19	53086206	53086206	+	C	C
11	40137767	40137767	+	G	G
1	173952695	173952695	+	C	C
2	219755033	219755033	+	A	A
2	179577980	179577980	+	G	G
3	121341728	121341728	+	G	G
5	112157601	112157601	+	C	C
9	38395908	38395908	+	C	C
14	76548653	76548653	+	C	C
2	32828104	32828104	+	G	G
19	6312400	6312400	+	G	G
2	48718287	48718287	+	C	C
1	1858475	1858475	+	G	G
6	160183611	160183611	+	C	C
14	106725419	106725419	+	C	C
11	117163846	117163846	+	C	C
1	212550943	212550943	+	C	C
18	10787155	10787155	+	G	G
22	46931058	46931058	+	G	G
9	135984207	135984207	+	C	C
15	99500506	99500506	+	C	C
11	62933570	62933570	+	G	G
8	23423890	23423890	+	C	C
1	248525364	248525364	+	C	C
5	140744791	140744791	+	G	G
1	157803139	157803139	+	G	G
19	19338969	19338969	+	G	G
3	3178947	3178947	+	T	T



17	74324816	74324816	+	G	G
2	219602832	219602832	+	C	C
16	25703963	25703963	+	C	C
16	67063332	67063332	+	C	C
7	144015560	144015560	+	G	G
3	1214982	1214982	+	C	C
7	143807370	143807370	+	G	G
17	20334236	20334236	+	C	C
11	51411609	51411609	+	G	G
1	204588050	204588050	+	G	G
16	81014408	81014408	+	G	G
20	45169826	45169826	+	G	G
12	39170101	39170101	+	C	C
3	38950500	38950500	+	C	C
17	57643104	57643104	+	C	C
16	67701561	67701561	+	C	C
7	105254706	105254706	+	G	G
5	40964923	40964923	+	G	G
7	138391406	138391406	+	G	G
9	27949342	27949342	+	G	G
19	36322588	36322588	+	G	G
2	15698730	15698730	+	G	G
4	74447924	74447924	+	T	T
19	22939519	22939519	+	C	C
18	51053012	51053012	+	G	G
7	142162012	142162012	+	G	G
22	36900807	36900807	+	G	G
18	52585220	52585220	+	C	C
19	6375751	6375751	+	G	G
1	180166081	180166081	+	C	C
15	54860033	54860033	+	G	G
22	23199204	23199204	+	G	G
14	22315304	22315304	+	G	G
15	28599990	28599990	+	G	G
2	179593060	179593060	+	A	A
5	140724414	140724414	+	G	G
7	27140318	27140318	+	G	G
6	136935303	136935303	+	G	G
3	57130471	57130471	+	G	G
9	370209	370209	+	C	C
3	193176637	193176637	+	G	G
10	88421065	88421065	+	G	G
8	21827704	21827704	+	C	C

3	111432778	111432778	+	C	C
3	97662279	97662279	+	G	G
X	153593731	153593731	+	G	G
1	149761664	149761664	+	G	G
6	137245605	137245605	+	G	G
18	12720610	12720610	+	C	C
10	45869808	45869808	+	G	G
1	209811930	209811930	+	C	C
17	8706501	8706501	+	G	G
11	5021112	5021112	+	G	G
12	113382511	113382511	+	C	C
7	142428803	142428803	+	C	C
11	18320444	18320444	+	G	G
20	17956391	17956391	+	C	C
2	138421075	138421075	+	G	G
3	102153886	102153886	+	C	C
11	75902698	75902698	+	G	G
4	111470517	111470517	+	C	C
1	1179460	1179460	+	C	C
2	219249059	219249059	+	C	C
2	31400009	31400009	+	C	C
18	43459030	43459030	+	A	A
8	27293815	27293815	+	C	C
18	56246943	56246943	+	A	A
3	24231584	24231584	+	C	C
12	91445234	91445234	+	G	G
19	1241831	1241831	+	C	C
19	35250860	35250860	+	G	G
17	16137329	16137329	+	C	C
8	144789927	144789927	+	C	C
1	165697289	165697289	+	G	G
12	119631646	119631646	+	G	G
20	62338484	62338484	+	A	A
8	144641680	144641680	+	C	C
9	5549574	5549574	+	G	G
4	46066470	46066470	+	C	C
17	19643719	19643719	+	C	C
5	13923431	13923431	+	C	C
11	67202586	67202586	+	T	T
5	90111463	90111463	+	G	G
11	4470635	4470635	+	G	G
3	38770223	38770223	+	C	C
19	4175703	4175703	+	G	G

17	7984703	7984703	+	C	C
8	28928156	28928156	+	C	C
13	101833610	101833610	+	G	G
5	89925174	89925174	+	T	T
5	140801608	140801608	+	G	G
11	1036630	1036630	+	G	G
7	122788532	122788532	+	G	G
2	186672117	186672117	+	A	A
9	33385600	33385600	+	G	G
11	129940523	129940523	+	G	G
18	46783409	46783409	+	G	G
3	189038426	189038426	+	C	C
2	37484067	37484067	+	C	C
5	149669141	149669141	+	G	G
7	142458853	142458853	+	T	T
6	31614289	31614289	+	G	G
MT	15153	15153	+	G	G
11	34156826	34156826	+	C	C
4	79432610	79432610	+	C	C
6	159660932	159660932	+	G	G
3	133191344	133191344	+	C	C
1	248487554	248487554	+	G	G
6	132859504	132859504	+	C	C
11	609668	609668	+	C	C
17	37009329	37009329	+	G	G
21	45826633	45826633	+	C	C
12	57114410	57114410	+	G	G
1	202794809	202794809	+	G	G
7	1914110	1914110	+	G	G
1	228645419	228645419	+	A	A
13	103514431	103514431	+	C	C
19	7571318	7571318	+	C	C
19	10132057	10132057	+	C	C
3	78711259	78711259	+	G	G
8	139158223	139158223	+	G	G
7	50737468	50737468	+	G	G
6	74117320	74117320	+	C	C
19	9065041	9065041	+	C	C
6	42655973	42655973	+	G	G
14	60193790	60193790	+	G	G
19	11891613	11891613	+	G	G
7	157369393	157369393	+	C	C
1	161011138	161011138	+	G	G

9	101777744	101777744	+	G	G
8	145167453	145167453	+	C	C
20	33539534	33539534	+	G	G
11	92533806	92533806	+	C	C
7	82072889	82072889	+	G	G
10	75231330	75231330	+	C	C
4	57843752	57843752	+	G	G
9	116186536	116186536	+	C	C
12	129694157	129694157	+	G	G
4	174292614	174292614	+	C	C
2	132200366	132200366	+	T	T
2	233348840	233348840	+	C	C
3	33194245	33194245	+	C	C
14	24898011	24898011	+	G	G
16	20548594	20548594	+	C	C
1	151787762	151787762	+	G	G
2	102818025	102818025	+	G	G
5	68927788	68927788	+	G	G
14	74973893	74973893	+	C	C
5	140348081	140348081	+	C	C
12	7520698	7520698	+	G	G
11	67261206	67261206	+	G	G
14	24780533	24780533	+	G	G
17	48653535	48653535	+	C	C
22	39621800	39621800	+	G	G
8	143957506	143957506	+	A	A
13	25507351	25507351	+	G	G
4	995553	995553	+	C	C
1	154961117	154961117	+	C	C
15	99827461	99827461	+	G	G
10	22048133	22048133	+	T	T
4	109810876	109810876	+	G	G
15	69718726	69718726	+	G	G
17	4624438	4624438	+	C	C
16	2816329	2816329	+	C	C
1	27428903	27428903	+	G	G
17	617983	617983	+	G	G
16	9023367	9023367	+	A	A
4	52943037	52943037	+	G	G
1	159038357	159038357	+	C	C
9	82334978	82334978	+	C	C
6	54095676	54095676	+	G	G
1	237754183	237754183	+	C	C

19	35757272	35757272	+	C	C
13	97485423	97485423	+	G	G
20	18794672	18794672	+	G	G
7	74470151	74470151	+	C	C
14	23886110	23886110	+	C	C
15	91527335	91527335	+	G	G
7	87912042	87912042	+	A	A
6	54173485	54173485	+	G	G
2	189910572	189910572	+	G	G
19	54647467	54647467	+	C	C
1	144867962	144867962	+	G	G
7	148526883	148526883	+	G	G
5	76624876	76624876	+	C	C
3	150416608	150416608	+	G	G
5	13885318	13885318	+	A	A
7	149492413	149492413	+	G	G
15	26861149	26861149	+	G	G
1	152785137	152785137	+	G	G
9	133932469	133932469	+	G	G
1	145109585	145109585	+	T	T
19	50944242	50944242	+	C	C
20	1276971	1276971	+	C	C
19	14519969	14519969	+	T	T
19	49119934	49119934	+	C	C
8	52320940	52320940	+	G	G
19	43772058	43772058	+	G	G
19	10415763	10415763	+	G	G
22	50752278	50752278	+	G	G
1	33583581	33583581	+	G	G
16	67701563	67701563	+	C	C
12	100041883	100041883	+	G	G
1	23191674	23191674	+	C	C
19	36360574	36360574	+	G	G
6	169634989	169634989	+	C	C
9	33442166	33442166	+	G	G
14	36147138	36147138	+	C	C
20	2778907	2778907	+	C	C
12	72863575	72863575	+	G	G
3	191093238	191093238	+	C	C
17	26864446	26864446	+	C	C
3	97868692	97868692	+	C	C
19	46195232	46195232	+	G	G
11	124095433	124095433	+	G	G

17	10438389	10438389	+	C	C
11	119252191	119252191	+	T	T
19	10439552	10439552	+	G	G
10	124457257	124457257	+	G	G
19	49990621	49990621	+	C	C
12	54379475	54379475	+	C	C
22	18273401	18273401	+	G	G
6	1102502	1102502	+	C	C
8	41399418	41399418	+	G	G
19	51919518	51919518	+	C	C
13	50062761	50062761	+	C	C
19	9362488	9362488	+	T	T
2	10977656	10977656	+	C	C
13	114782828	114782828	+	C	C
2	26541948	26541948	+	G	G
16	30001082	30001082	+	G	G
10	102684487	102684487	+	C	C
6	130763021	130763021	+	G	G
6	149777933	149777933	+	G	G
9	130692091	130692091	+	C	C
6	33256237	33256237	+	G	G
19	55179098	55179098	+	G	G
12	101505426	101505426	+	C	C
20	2384049	2384049	+	C	C
19	38912705	38912705	+	C	C
3	97852004	97852004	+	C	C
6	73935080	73935080	+	C	C
1	236894532	236894532	+	G	G
2	232263261	232263261	+	G	G
15	31233472	31233472	+	G	G
16	20681230	20681230	+	C	C
1	204499915	204499915	+	G	G
2	1637864	1637864	+	G	G
15	41853785	41853785	+	G	G
19	6751311	6751311	+	C	C
3	44492379	44492379	+	G	G
8	131073044	131073044	+	G	G
1	207785052	207785052	+	G	G
8	17579495	17579495	+	G	G
7	127253883	127253883	+	C	C
5	41051147	41051147	+	C	C
19	54849677	54849677	+	C	C
16	4408249	4408249	+	G	G

1	55307672	55307672	+	G	G
6	155054998	155054998	+	C	C
19	9086339	9086339	+	C	C
12	8244403	8244403	+	G	G
19	49002705	49002705	+	G	G
18	3102538	3102538	+	G	G
16	67244563	67244563	+	C	C
1	222892633	222892633	+	C	C
20	9495404	9495404	+	C	C
6	7888981	7888981	+	G	G
5	140731337	140731337	+	A	A
17	1985251	1985251	+	C	C
5	122343449	122343449	+	C	C
22	22020299	22020299	+	G	G
17	77924227	77924227	+	C	C
17	10363547	10363547	+	G	G
11	114550411	114550411	+	G	G
7	21828928	21828928	+	G	G
4	174292615	174292615	+	C	C
20	29960817	29960817	+	C	C
8	97345784	97345784	+	G	G
17	41242986	41242986	+	G	G
1	214818221	214818221	+	C	C
19	3474973	3474973	+	T	T
22	51195730	51195730	+	G	G
7	99933593	99933593	+	C	C
1	226426714	226426714	+	G	G
X	101095994	101095994	+	G	G
7	151845745	151845745	+	C	C
4	151114356	151114356	+	C	C
X	73812348	73812348	+	G	G
8	53062431	53062431	+	G	G
15	84159588	84159588	+	G	G
5	141038027	141038027	+	G	G
8	41164359	41164359	+	G	G
11	72119155	72119155	+	C	C
2	158182194	158182194	+	G	G
3	50138040	50138040	+	T	T
13	45768448	45768448	+	G	G
6	53378926	53378926	+	A	A
15	22383148	22383148	+	C	C
17	48653536	48653536	+	C	C
2	231150546	231150546	+	G	G

15	65489644	65489644	+	G	G
11	76918264	76918264	+	C	C
20	368776	368776	+	C	C
GL000205.1	118163	118163	+	G	G
11	123894145	123894145	+	C	C
19	56952878	56952878	+	C	C
11	92088512	92088512	+	C	C
9	100071807	100071807	+	G	G
7	45796527	45796527	+	A	A
19	5831341	5831341	+	C	C
11	56757090	56757090	+	G	G
1	57373766	57373766	+	C	C
MT	9753	9753	+	G	G
16	70400722	70400722	+	C	C
17	2901645	2901645	+	C	C
3	52555801	52555801	+	G	G
1	40431546	40431546	+	C	C
16	29791801	29791801	+	C	C
19	49552101	49552101	+	A	A
17	7592642	7592642	+	T	T
21	30250566	30250566	+	G	G
X	3229472	3229472	+	C	C
2	211521299	211521299	+	G	G
20	31873993	31873993	+	A	A
X	129045801	129045801	+	C	C
12	109849747	109849747	+	G	G
13	23808801	23808801	+	G	G
11	75902697	75902697	+	A	A
1	35223660	35223660	+	C	C
1	170699423	170699423	+	C	C
6	29910672	29910672	+	C	C
19	43763053	43763053	+	C	C
20	33539533	33539533	+	G	G
19	51480937	51480937	+	C	C
6	42929527	42929527	+	G	G
12	98926673	98926673	+	C	C
11	61641212	61641212	+	G	G
19	41289698	41289698	+	T	T
4	100203392	100203392	+	T	T
X	135432556	135432556	+	G	G
X	110964861	110964861	+	C	C
16	31580160	31580160	+	G	G
9	104433278	104433278	+	G	G



19	44892090	44892090	+	G	G
12	7254599	7254599	+	C	C
20	44638532	44638532	+	C	C
7	64439496	64439496	+	G	G
GL000218.1	53646	53646	+	T	T
1	200882852	200882852	+	C	C
10	115337888	115337888	+	G	G
19	39663700	39663700	+	G	G
1	45797357	45797357	+	G	G
5	150276521	150276521	+	G	G
2	128522210	128522210	+	G	G
7	74470152	74470152	+	C	C
8	110655206	110655206	+	C	C
15	43819075	43819075	+	C	C
17	76113689	76113689	+	G	G
1	158299250	158299250	+	T	T
X	49103348	49103348	+	T	T
17	12569370	12569370	+	C	C
11	32122135	32122135	+	G	G
18	18549089	18549089	+	C	C
19	3759890	3759890	+	G	G
6	41250460	41250460	+	C	C
11	130281380	130281380	+	C	C
3	64536449	64536449	+	G	G
13	100617662	100617662	+	C	C
2	227771502	227771502	+	C	C
19	56321356	56321356	+	C	C
8	27145540	27145540	+	C	C
6	28059057	28059057	+	G	G
3	30032753	30032753	+	C	C
2	166850791	166850791	+	A	A
1	201757623	201757623	+	G	G
16	29828027	29828027	+	G	G
7	41729997	41729997	+	G	G
16	67428626	67428626	+	C	C
11	120200925	120200925	+	C	C
7	45112476	45112476	+	C	C
19	58598359	58598359	+	G	G
3	108677964	108677964	+	C	C
20	5903839	5903839	+	G	G
15	34610841	34610841	+	C	C
6	33693245	33693245	+	G	G
X	135427059	135427059	+	G	G

1	199996886	199996886	+	C	C
19	12359015	12359015	+	G	G
2	165994457	165994457	+	G	G
14	38152115	38152115	+	G	G
9	14805118	14805118	+	G	G
X	153229672	153229672	+	G	G
6	138601138	138601138	+	G	G
2	163250965	163250965	+	C	C
3	11383609	11383609	+	G	G
17	6377770	6377770	+	C	C
6	43230915	43230915	+	G	G
1	200978519	200978519	+	C	C
11	119145661	119145661	+	C	C
19	39101933	39101933	+	G	G
20	23420822	23420822	+	G	G
16	2369687	2369687	+	G	G
10	96535151	96535151	+	C	C
15	34647992	34647992	+	C	C
8	105503593	105503593	+	G	G
19	18369281	18369281	+	G	G
11	130281381	130281381	+	C	C
6	136597576	136597576	+	C	C
X	70145924	70145924	+	C	C
11	17352494	17352494	+	C	C
12	104170259	104170259	+	G	G
5	140181469	140181469	+	G	G
14	87387969	87387969	+	C	C
10	76732344	76732344	+	A	A
17	10299903	10299903	+	C	C
16	61891091	61891091	+	C	C
16	67473007	67473007	+	A	A
13	29600965	29600965	+	T	T
3	123047562	123047562	+	C	C
1	74905180	74905180	+	C	C
17	48828139	48828139	+	A	A
4	16024982	16024982	+	G	G
19	47127176	47127176	+	C	C
17	44952677	44952677	+	G	G
19	17838066	17838066	+	G	G
14	69951580	69951580	+	C	C
3	195956828	195956828	+	G	G
5	110835658	110835658	+	G	G
5	34190493	34190493	+	G	G

6	28554272	28554272	+	C	C
7	31378319	31378319	+	G	G
19	7006067	7006067	+	G	G
5	131298359	131298359	+	T	T
3	141291480	141291480	+	C	C
14	102026707	102026707	+	C	C
12	110252338	110252338	+	G	G
13	75923335	75923335	+	G	G
X	111874620	111874620	+	C	C
7	55755625	55755625	+	G	G
9	96021276	96021276	+	G	G
16	20802238	20802238	+	G	G
6	109190172	109190172	+	C	C
7	141429368	141429368	+	G	G
16	15835697	15835697	+	C	C
19	41112320	41112320	+	G	G
17	37322164	37322164	+	G	G
5	161324542	161324542	+	C	C
13	41703952	41703952	+	T	T
3	53322213	53322213	+	C	C
8	22172583	22172583	+	G	G
14	39818037	39818037	+	C	C
X	51644866	51644866	+	C	C
14	90650730	90650730	+	G	G
1	153655046	153655046	+	C	C
12	55420486	55420486	+	G	G
17	618083	618083	+	C	C
11	47182769	47182769	+	C	C
17	11543667	11543667	+	G	G
16	29708320	29708320	+	G	G
19	10794959	10794959	+	C	C
17	39580610	39580610	+	G	G
5	83356160	83356160	+	C	C
14	74876084	74876084	+	A	A
5	146722794	146722794	+	C	C
7	138764634	138764634	+	G	G
14	94750376	94750376	+	G	G
19	12155097	12155097	+	C	C
9	8465582	8465582	+	G	G
12	2936398	2936398	+	G	G
8	124658110	124658110	+	C	C
1	203698802	203698802	+	C	C
11	122889124	122889124	+	G	G

16	71012891	71012891	+	C	C
22	42526834	42526834	+	G	G
1	225525768	225525768	+	C	C
6	116756779	116756779	+	C	C
1	17298895	17298895	+	G	G
20	41101036	41101036	+	G	G
1	152326001	152326001	+	C	C
2	237032855	237032855	+	C	C
5	40937743	40937743	+	G	G
11	77475712	77475712	+	G	G
6	134350330	134350330	+	T	T
16	88893167	88893167	+	C	C
1	160248453	160248453	+	C	C
6	41752737	41752737	+	G	G
19	36207573	36207573	+	C	C
16	68055729	68055729	+	C	C
6	3263949	3263949	+	G	G
5	989853	989853	+	C	C
14	92347693	92347693	+	C	C
5	140348695	140348695	+	C	C
22	50591587	50591587	+	C	C
19	36545786	36545786	+	C	C
3	62153662	62153662	+	C	C
8	39495126	39495126	+	C	C
9	116812240	116812240	+	C	C
20	61978036	61978036	+	G	G
1	158261890	158261890	+	G	G
6	116442909	116442909	+	C	C
3	52282524	52282524	+	C	C
11	64323603	64323603	+	C	C
12	121434343	121434343	+	G	G
18	47428994	47428994	+	C	C
3	47277605	47277605	+	G	G
19	49131786	49131786	+	C	C
20	43930015	43930015	+	A	A
6	134349733	134349733	+	C	C
3	108149693	108149693	+	C	C
4	155411438	155411438	+	G	G
1	120493056	120493056	+	G	G
1	16577664	16577664	+	G	G
14	24511949	24511949	+	C	C
10	134974026	134974026	+	C	C
11	6897914	6897914	+	T	T

19	44590849	44590849	+	G	G
20	43850823	43850823	+	G	G
5	64595854	64595854	+	G	G
1	156390175	156390175	+	C	C
7	44608767	44608767	+	G	G
14	51706962	51706962	+	G	G
1	119936435	119936435	+	G	G
12	123340809	123340809	+	C	C
19	30206206	30206206	+	C	C
6	82935361	82935361	+	G	G
3	11382201	11382201	+	C	C
19	1785180	1785180	+	G	G
1	32936449	32936449	+	C	C
1	248112255	248112255	+	C	C
2	48718288	48718288	+	C	C
1	232144798	232144798	+	C	C
6	109321763	109321763	+	T	T
17	39535891	39535891	+	C	C
2	128394712	128394712	+	G	G
7	54636790	54636790	+	G	G
6	83905580	83905580	+	C	C
7	150034523	150034523	+	C	C
6	75843627	75843627	+	G	G
3	122269482	122269482	+	G	G
1	92979166	92979166	+	G	G
X	71360419	71360419	+	A	A
15	101970199	101970199	+	C	C
21	47410315	47410315	+	C	C
14	23890258	23890258	+	C	C
9	111625869	111625869	+	G	G
1	227174529	227174529	+	T	T
17	76113690	76113690	+	G	G
4	156618197	156618197	+	C	C
5	140737289	140737289	+	C	C
22	46787695	46787695	+	G	G
22	44342200	44342200	+	G	G
7	36662832	36662832	+	G	G
14	50895426	50895426	+	C	C
20	25755908	25755908	+	C	C
14	21990162	21990162	+	G	G
19	30935025	30935025	+	G	G
1	158152245	158152245	+	C	C
16	24580077	24580077	+	C	C

19	9296508	9296508	+	C	C
11	59861119	59861119	+	C	C
15	23889121	23889121	+	G	G
X	152736293	152736293	+	G	G
1	76260335	76260335	+	G	G
12	112241771	112241771	+	G	G
15	25331759	25331759	+	G	G
19	48887599	48887599	+	G	G
1	183938500	183938500	+	C	C
19	3961598	3961598	+	C	C
19	54965611	54965611	+	C	C
13	102375225	102375225	+	T	T
22	41626275	41626275	+	G	G
7	120387884	120387884	+	G	G
1	204167525	204167525	+	C	C
7	150761400	150761400	+	G	G
10	123954585	123954585	+	C	C
1	4847712	4847712	+	C	C
6	152697437	152697437	+	G	G
19	19049624	19049624	+	G	G
11	66193595	66193595	+	G	G
4	168155395	168155395	+	G	G
7	64313721	64313721	+	C	C
12	106824111	106824111	+	C	C
13	113729440	113729440	+	G	G
7	155595565	155595565	+	T	T
12	75881539	75881539	+	G	G
14	33015359	33015359	+	G	G
6	7231347	7231347	+	A	A
19	12204659	12204659	+	G	G
8	41399419	41399419	+	G	G
6	152779891	152779891	+	C	C
17	7192103	7192103	+	G	G
16	614077	614077	+	C	C
1	158746909	158746909	+	C	C
19	43965675	43965675	+	C	C
13	115028421	115028421	+	T	T
18	28710672	28710672	+	C	C
21	47571866	47571866	+	C	C
10	5684463	5684463	+	G	G
8	52730220	52730220	+	C	C
17	79205559	79205559	+	G	G
4	2306914	2306914	+	G	G

1	153800629	153800629	+	G	G
5	225567	225567	+	G	G
22	42120011	42120011	+	G	G
14	94395186	94395186	+	C	C
19	43421960	43421960	+	T	T
1	157504155	157504155	+	G	G
3	55984490	55984490	+	C	C
3	180680768	180680768	+	A	A
8	28928157	28928157	+	C	C
1	47653077	47653077	+	C	C
16	74761141	74761141	+	C	C
5	140559780	140559780	+	C	C
X	1505435	1505435	+	T	T
22	19754090	19754090	+	G	G
6	161127489	161127489	+	T	T
8	30705529	30705529	+	C	C
X	149867761	149867761	+	C	C
8	33449608	33449608	+	C	C
5	167841437	167841437	+	C	C
7	45222933	45222933	+	C	C
2	61528215	61528215	+	G	G
3	10387197	10387197	+	G	G
1	243319680	243319680	+	G	G
2	152319799	152319799	+	C	C
19	11891614	11891614	+	A	A
14	63417212	63417212	+	C	C
11	9871744	9871744	+	G	G
X	76829775	76829775	+	G	G
8	125025736	125025736	+	G	G
12	8023572	8023572	+	G	G
X	41007774	41007774	+	C	C
5	40937742	40937742	+	G	G
11	16816460	16816460	+	G	G
20	33329948	33329948	+	G	G
11	118081281	118081281	+	G	G
6	139159527	139159527	+	C	C
19	38376614	38376614	+	C	C
7	114294164	114294164	+	G	G
1	167798653	167798653	+	C	C
17	4692256	4692256	+	G	G
9	93657813	93657813	+	G	G
17	7287919	7287919	+	C	C
22	26239782	26239782	+	G	G

3	49145876	49145876	+	G	G
1	248637371	248637371	+	G	G
3	108129775	108129775	+	C	C
7	117864835	117864835	+	G	G
7	115580967	115580967	+	G	G
5	180277796	180277796	+	G	G
2	18768829	18768829	+	C	C
6	134210616	134210616	+	G	G
16	10912443	10912443	+	G	G
19	8651724	8651724	+	G	G
18	9559520	9559520	+	G	G
12	124408898	124408898	+	C	C
7	102915508	102915508	+	C	C
5	35705859	35705859	+	G	G
17	26864324	26864324	+	G	G
19	55445002	55445002	+	C	C
8	97332514	97332514	+	G	G
19	44635463	44635463	+	C	C
2	11810278	11810278	+	C	C
17	7646380	7646380	+	G	G
19	49131785	49131785	+	C	C
19	50306594	50306594	+	T	T
17	4120242	4120242	+	C	C
3	124483259	124483259	+	T	T
19	45848951	45848951	+	C	C
2	231076248	231076248	+	G	G
3	97686143	97686143	+	C	C
17	62385885	62385885	+	C	C
11	56020474	56020474	+	G	G
2	18112654	18112654	+	G	G
18	39584419	39584419	+	G	G
12	117662836	117662836	+	C	C
22	20781737	20781737	+	G	G
2	152830396	152830396	+	G	G
5	54415738	54415738	+	G	G
10	129902338	129902338	+	G	G
8	72111506	72111506	+	G	G
17	7705278	7705278	+	G	G
1	143767715	143767715	+	C	C
5	31799354	31799354	+	C	C
8	61769182	61769182	+	C	C
11	117969728	117969728	+	C	C
12	63359588	63359588	+	C	C



2	191375141	191375141	+	C	C
7	35084081	35084081	+	C	C
11	8118912	8118912	+	G	G
6	31083556	31083556	+	G	G
1	248637422	248637422	+	C	C
2	71891480	71891480	+	G	G
11	45987079	45987079	+	G	G
19	2248039	2248039	+	C	C
3	48310077	48310077	+	C	C
14	23392301	23392301	+	T	T
1	55572943	55572943	+	A	A
1	116946578	116946578	+	C	C
22	39066938	39066938	+	C	C
11	1026082	1026082	+	G	G
21	17763939	17763939	+	C	C
GL000237.1	74	74	+	T	T
10	18266884	18266884	+	G	G
9	127764259	127764259	+	G	G
2	172965280	172965280	+	C	C
1	156639090	156639090	+	C	C
17	42452502	42452502	+	C	C
11	49204768	49204768	+	C	C
10	85985231	85985231	+	C	C
3	2777921	2777921	+	G	G
8	143867978	143867978	+	C	C
6	152772217	152772217	+	G	G
2	10811759	10811759	+	A	A
20	3673409	3673409	+	C	C
2	61454275	61454275	+	T	T
8	27320997	27320997	+	G	G
12	7596704	7596704	+	G	G
6	46659727	46659727	+	G	G
7	137028511	137028511	+	G	G
22	37890249	37890249	+	G	G
12	70049350	70049350	+	G	G
1	228645306	228645306	+	C	C
7	105752628	105752628	+	G	G
5	39202921	39202921	+	G	G
15	83935724	83935724	+	C	C
6	105606361	105606361	+	C	C
19	58132727	58132727	+	C	C
6	52843114	52843114	+	C	C
20	9459829	9459829	+	C	C

6	170632174	170632174	+	G	G
9	84532210	84532210	+	G	G
1	233802591	233802591	+	C	C
2	7023653	7023653	+	C	C
2	179702224	179702224	+	G	G
7	100551128	100551128	+	C	C
16	29999659	29999659	+	C	C
1	185966560	185966560	+	G	G
16	667247	667247	+	G	G
7	127224848	127224848	+	G	G
1	248112520	248112520	+	C	C
2	89533738	89533738	+	G	G
17	20334235	20334235	+	C	C
6	132910835	132910835	+	C	C
3	119135115	119135115	+	C	C
7	20197992	20197992	+	C	C
9	16429996	16429996	+	A	A
11	67400081	67400081	+	C	C
15	90276398	90276398	+	C	C
GL000192.1	147958	147958	+	C	C
9	113238463	113238463	+	G	G
11	57947196	57947196	+	T	T
3	159482411	159482411	+	C	C
17	42427684	42427684	+	C	C
19	41073891	41073891	+	C	C
19	38384438	38384438	+	G	G
7	12668772	12668772	+	C	C
Y	16953513	16953513	+	T	T
6	49754324	49754324	+	C	C
3	10264409	10264409	+	C	C
8	130789639	130789639	+	G	G
1	145532169	145532169	+	G	G
17	19091388	19091388	+	T	T
9	33307231	33307231	+	C	C
6	12123590	12123590	+	C	C
12	53042866	53042866	+	C	C
22	50493027	50493027	+	G	G
6	70972949	70972949	+	G	G
2	16085833	16085833	+	C	C
7	106301066	106301066	+	G	G
21	44270082	44270082	+	G	G
11	10777316	10777316	+	C	C
11	59811047	59811047	+	G	G

11	75298736	75298736	+	T	T
2	184024268	184024268	+	T	T
19	35776014	35776014	+	G	G
6	36930857	36930857	+	G	G
12	51236916	51236916	+	G	G
2	170362160	170362160	+	C	C
19	51480936	51480936	+	C	C
4	114177071	114177071	+	C	C
X	74636958	74636958	+	C	C
2	220167174	220167174	+	G	G
5	59189320	59189320	+	G	G
20	40713470	40713470	+	G	G
5	167545342	167545342	+	G	G
8	144657688	144657688	+	G	G
9	125315516	125315516	+	A	A
14	96707667	96707667	+	C	C
1	167097491	167097491	+	C	C
3	30029707	30029707	+	C	C
16	31309267	31309267	+	C	C
6	117638312	117638312	+	C	C
7	1275802	1275802	+	C	C
2	95513821	95513821	+	G	G
8	19171320	19171320	+	G	G
15	64056360	64056360	+	C	C
8	144657687	144657687	+	G	G
15	43701259	43701259	+	A	A
17	27308932	27308932	+	C	C
3	65364889	65364889	+	C	C
18	13387627	13387627	+	G	G
18	7231244	7231244	+	G	G
X	3524563	3524563	+	G	G
12	70932110	70932110	+	G	G
12	3702301	3702301	+	G	G
22	24483657	24483657	+	C	C
19	46206368	46206368	+	G	G
X	68424833	68424833	+	C	C
17	80615874	80615874	+	C	C
7	92764593	92764593	+	G	G
12	26220526	26220526	+	T	T
11	121039520	121039520	+	G	G
3	112190096	112190096	+	G	G
19	18976417	18976417	+	A	A
16	67290857	67290857	+	C	C

10	106976708	106976708	+	G	G
1	202407073	202407073	+	C	C
20	34065887	34065887	+	C	C
5	65088442	65088442	+	T	T
7	56174183	56174183	+	G	G
15	41961693	41961693	+	C	C
3	130098556	130098556	+	G	G
12	81655747	81655747	+	C	C
22	37890250	37890250	+	G	G
1	172501640	172501640	+	C	C
13	96529977	96529977	+	A	A
2	121981932	121981932	+	C	C
3	10861158	10861158	+	C	C
16	88772988	88772988	+	C	C
5	140176921	140176921	+	C	C
2	21228841	21228841	+	C	C
19	19460213	19460213	+	G	G
21	46021512	46021512	+	C	C
X	152685716	152685716	+	C	C
5	33937783	33937783	+	C	C
18	42532555	42532555	+	C	C
16	3190878	3190878	+	C	C
7	100842051	100842051	+	C	C
16	30616232	30616232	+	C	C
17	20406020	20406020	+	C	C
10	105963514	105963514	+	G	G
9	113149645	113149645	+	C	C
2	171371440	171371440	+	C	C
7	100675122	100675122	+	C	C
11	118006024	118006024	+	C	C
19	8959678	8959678	+	C	C
2	160688294	160688294	+	G	G
1	156206094	156206094	+	C	C
3	140695203	140695203	+	C	C
2	144525600	144525600	+	C	C
11	4968047	4968047	+	G	G
19	5739428	5739428	+	G	G
14	92040664	92040664	+	C	C
5	76987233	76987233	+	G	G
12	45457748	45457748	+	G	G
20	3653948	3653948	+	G	G
11	117780523	117780523	+	G	G
3	51749772	51749772	+	C	C

19	16146811	16146811	+	G	G
5	64468672	64468672	+	C	C
19	54784967	54784967	+	G	G
4	42467021	42467021	+	G	G
13	25745043	25745043	+	C	C
12	124352637	124352637	+	G	G
3	47047466	47047466	+	G	G
8	3076911	3076911	+	G	G
6	83880050	83880050	+	G	G
7	122033355	122033355	+	C	C
7	81964492	81964492	+	C	C
12	131488791	131488791	+	C	C
11	61675725	61675725	+	G	G
20	37464766	37464766	+	C	C
5	131411598	131411598	+	G	G
17	67210991	67210991	+	A	A
10	101715970	101715970	+	G	G
20	42635352	42635352	+	C	C
2	179542615	179542615	+	G	G
14	74973894	74973894	+	C	C
16	4411869	4411869	+	G	G
10	69281635	69281635	+	C	C
18	13621138	13621138	+	C	C
3	130125158	130125158	+	G	G
15	28517377	28517377	+	G	G
12	113379404	113379404	+	C	C
20	30193913	30193913	+	G	G
X	52826319	52826319	+	C	C
12	98926672	98926672	+	C	C
17	78882688	78882688	+	T	T
15	62538191	62538191	+	C	C
15	65147225	65147225	+	C	C
2	16734221	16734221	+	G	G
17	5487109	5487109	+	G	G
12	63195660	63195660	+	G	G
9	14842587	14842587	+	C	C
10	123353299	123353299	+	G	G
1	102271716	102271716	+	G	G
2	179664029	179664029	+	A	A
8	35650703	35650703	+	C	C
2	228144509	228144509	+	G	G
7	96113214	96113214	+	G	G
21	41385160	41385160	+	G	G

20	18768645	18768645	+	G	G
12	54929930	54929930	+	G	G
10	47087777	47087777	+	G	G
1	241842850	241842850	+	G	G
19	8982206	8982206	+	G	G
2	220073831	220073831	+	G	G
1	165738133	165738133	+	C	C
17	42829236	42829236	+	C	C
2	204305249	204305249	+	T	T
19	10131478	10131478	+	T	T
19	52147162	52147162	+	A	A
11	9980570	9980570	+	C	C
7	21789963	21789963	+	G	G
11	65622723	65622723	+	G	G
10	123954584	123954584	+	C	C
8	54163398	54163398	+	G	G
5	95728690	95728690	+	G	G
12	101510498	101510498	+	G	G
17	4855440	4855440	+	G	G
19	10079138	10079138	+	G	G
11	111324264	111324264	+	G	G
2	241404628	241404628	+	G	G
11	9167314	9167314	+	G	G
9	79324960	79324960	+	G	G
17	41720974	41720974	+	C	C
6	33036366	33036366	+	C	C
3	182913012	182913012	+	C	C
8	41615592	41615592	+	G	G
5	41004982	41004982	+	C	C
15	44037355	44037355	+	A	A
14	105268565	105268565	+	C	C
3	7620310	7620310	+	C	C
11	6953459	6953459	+	C	C
14	69816796	69816796	+	G	G
3	369967	369967	+	G	G
14	94770778	94770778	+	C	C
6	56397277	56397277	+	G	G
5	102488416	102488416	+	G	G
12	104374682	104374682	+	C	C
2	131878453	131878453	+	C	C
15	88522391	88522391	+	C	C
17	7107343	7107343	+	T	T
19	55053854	55053854	+	C	C

19	38795501	38795501	+	C	C
22	37578570	37578570	+	G	G
11	100179329	100179329	+	A	A
7	23353157	23353157	+	C	C
10	99350212	99350212	+	G	G
11	14276223	14276223	+	T	T
15	102294790	102294790	+	C	C
3	14565211	14565211	+	G	G
11	4566673	4566673	+	G	G
17	39670840	39670840	+	G	G
11	105967473	105967473	+	C	C
12	96386495	96386495	+	G	G
10	43610117	43610117	+	C	C
19	48205591	48205591	+	C	C
3	170611147	170611147	+	G	G
13	28610099	28610099	+	C	C
2	183888627	183888627	+	C	C
17	39671079	39671079	+	C	C
11	119005071	119005071	+	C	C
22	18561052	18561052	+	C	C
13	20220643	20220643	+	A	A
16	1396028	1396028	+	G	G
2	170090027	170090027	+	C	C
21	31709534	31709534	+	G	G
15	31775780	31775780	+	G	G
3	13384750	13384750	+	G	G
2	135745372	135745372	+	C	C
19	37064279	37064279	+	G	G
21	16338783	16338783	+	C	C
12	52574474	52574474	+	G	G
16	3255171	3255171	+	G	G
22	43950806	43950806	+	G	G
19	51534065	51534065	+	G	G
18	61170576	61170576	+	T	T
7	18633566	18633566	+	C	C
16	22446056	22446056	+	C	C
11	14282259	14282259	+	G	G
6	25921587	25921587	+	G	G
5	147486600	147486600	+	G	G
12	110600795	110600795	+	C	C
7	107664379	107664379	+	G	G
22	29656742	29656742	+	G	G
11	5021123	5021123	+	G	G

X	47658212	47658212	+	G	G
7	144077170	144077170	+	C	C
17	7287918	7287918	+	C	C
17	76803147	76803147	+	G	G
19	6413506	6413506	+	G	G
17	17083348	17083348	+	C	C
1	157494336	157494336	+	G	G
2	160710182	160710182	+	C	C
10	70333291	70333291	+	C	C
9	65508191	65508191	+	A	A
18	8825047	8825047	+	G	G
21	47737129	47737129	+	G	G
8	29927303	29927303	+	G	G
17	62859264	62859264	+	G	G
11	119229813	119229813	+	G	G
7	141898476	141898476	+	A	A
9	114449075	114449075	+	C	C
14	22134148	22134148	+	C	C
7	147075205	147075205	+	T	T
18	61310682	61310682	+	C	C
1	213184571	213184571	+	G	G
16	83998937	83998937	+	C	C
12	5153501	5153501	+	G	G
4	169931266	169931266	+	G	G
11	5617953	5617953	+	C	C
5	49707105	49707105	+	C	C
14	92102822	92102822	+	C	C
2	131595082	131595082	+	G	G
14	71413638	71413638	+	C	C
15	67782339	67782339	+	A	A
11	103866886	103866886	+	C	C
18	5890249	5890249	+	G	G
8	35647995	35647995	+	G	G
1	196918662	196918662	+	C	C
19	52448288	52448288	+	G	G
14	24884163	24884163	+	G	G
17	29533315	29533315	+	C	C
7	64439495	64439495	+	G	G
1	204589162	204589162	+	G	G
2	219029648	219029648	+	G	G
1	156555588	156555588	+	G	G
17	19459304	19459304	+	C	C
19	55143042	55143042	+	G	G



12	55524127	55524127	+	C	C
5	13830731	13830731	+	G	G
7	18767212	18767212	+	G	G
19	42410897	42410897	+	C	C
1	82409009	82409009	+	G	G
5	71490650	71490650	+	C	C
7	102824479	102824479	+	A	A
16	30593852	30593852	+	G	G
7	2579206	2579206	+	G	G
2	73786166	73786166	+	A	A
2	179396183	179396183	+	G	G
1	228645201	228645201	+	A	A
2	166231225	166231225	+	C	C
19	56369290	56369290	+	C	C
6	33967764	33967764	+	G	G
7	141765224	141765224	+	G	G
13	75814103	75814103	+	C	C
3	127379305	127379305	+	C	C
1	197390437	197390437	+	C	C
1	237948205	237948205	+	C	C
19	10472508	10472508	+	G	G
19	37677381	37677381	+	G	G
11	65985030	65985030	+	A	A
7	146997283	146997283	+	G	G
18	33718314	33718314	+	C	C
11	78387365	78387365	+	C	C
19	52918940	52918940	+	C	C
15	50785631	50785631	+	G	G
19	48043063	48043063	+	C	C
8	42977435	42977435	+	C	C
19	45406527	45406527	+	C	C
12	60165082	60165082	+	G	G
3	46666755	46666755	+	A	A
1	227171807	227171807	+	G	G
10	46998946	46998946	+	C	C
3	142279242	142279242	+	C	C
18	6959342	6959342	+	C	C
19	45898767	45898767	+	C	C
2	132266169	132266169	+	C	C
17	4837901	4837901	+	C	C
3	99514492	99514492	+	G	G
4	68586347	68586347	+	C	C
1	179497486	179497486	+	G	G

19	5867642	5867642	+	G	G
17	38133214	38133214	+	C	C
3	38592126	38592126	+	G	G
10	95326558	95326558	+	C	C
22	50280367	50280367	+	G	G
17	73497702	73497702	+	C	C
3	37056035	37056035	+	C	C
11	5730301	5730301	+	C	C
5	32000340	32000340	+	C	C
X	73046891	73046891	+	C	C
7	30694416	30694416	+	C	C
2	207527805	207527805	+	C	C
4	71200826	71200826	+	G	G
11	82444733	82444733	+	G	G
7	148506475	148506475	+	C	C
14	77697979	77697979	+	C	C
12	91348355	91348355	+	G	G
1	225155541	225155541	+	A	A
13	52686426	52686426	+	C	C
16	18597137	18597137	+	G	G
9	140167458	140167458	+	G	G
2	179611225	179611225	+	G	G
18	46808442	46808442	+	G	G
12	117014000	117014000	+	G	G
19	43268116	43268116	+	C	C
11	608819	608819	+	G	G
16	30725026	30725026	+	C	C
21	46021513	46021513	+	C	C
11	56468407	56468407	+	C	C
20	5296668	5296668	+	G	G
6	46977301	46977301	+	G	G
X	47978928	47978928	+	G	G
1	213009263	213009263	+	T	T
15	81199004	81199004	+	G	G
11	60638692	60638692	+	G	G
17	37264482	37264482	+	C	C
X	30578348	30578348	+	G	G
12	102067366	102067366	+	C	C
6	38838320	38838320	+	G	G
1	112270276	112270276	+	G	G
12	29617456	29617456	+	C	C
8	11189596	11189596	+	C	C
2	109513637	109513637	+	C	C

7	115624397	115624397	+	C	C
17	71282655	71282655	+	G	G
19	4523778	4523778	+	C	C
10	75551746	75551746	+	C	C
5	168216613	168216613	+	G	G
20	39832464	39832464	+	G	G
11	8739373	8739373	+	G	G
17	73257954	73257954	+	C	C
17	41898374	41898374	+	G	G
11	5530759	5530759	+	C	C
8	52359601	52359601	+	C	C
7	150840580	150840580	+	C	C
16	20489943	20489943	+	G	G
5	55243388	55243388	+	G	G
12	46230550	46230550	+	G	G
17	80109461	80109461	+	G	G
11	13032483	13032483	+	C	C
2	232143139	232143139	+	C	C
20	31611159	31611159	+	G	G
15	22413796	22413796	+	G	G
11	120178273	120178273	+	G	G
16	81303899	81303899	+	G	G
6	30671877	30671877	+	G	G
18	74778255	74778255	+	G	G
12	335622	335622	+	T	T
12	5604142	5604142	+	C	C
3	118942966	118942966	+	G	G
2	38916976	38916976	+	C	C
7	117227878	117227878	+	C	C
12	54428361	54428361	+	C	C
15	40627618	40627618	+	G	G
2	102835477	102835477	+	G	G
14	106380129	106380129	+	C	C
7	94913348	94913348	+	G	G
11	123516415	123516415	+	C	C
7	149148205	149148205	+	T	T
1	44595606	44595606	+	G	G
17	13503883	13503883	+	G	G
12	72338388	72338388	+	C	C
12	352852	352852	+	G	G
17	74073451	74073451	+	C	C
20	45811960	45811960	+	G	G
5	65307891	65307891	+	C	C

6	57499011	57499011	+	A	A
20	62373877	62373877	+	C	C
6	30680283	30680283	+	G	G
11	5664622	5664622	+	C	C
Y	16831339	16831339	+	G	G
15	93160921	93160921	+	G	G
8	17055918	17055918	+	C	C
2	125175030	125175030	+	G	G
2	95463727	95463727	+	C	C
22	32239705	32239705	+	C	C
2	168067336	168067336	+	C	C
3	97887649	97887649	+	C	C
3	62248605	62248605	+	G	G
2	141459360	141459360	+	C	C
4	184182309	184182309	+	C	C
6	26598864	26598864	+	G	G
2	179449899	179449899	+	C	C
1	248569751	248569751	+	C	C
17	39779123	39779123	+	G	G
8	91013634	91013634	+	C	C
17	72950558	72950558	+	G	G
11	55062914	55062914	+	G	G
7	127721966	127721966	+	G	G
1	40149817	40149817	+	G	G
11	2336941	2336941	+	C	C
19	59069766	59069766	+	C	C
4	155157181	155157181	+	C	C
5	1246164	1246164	+	G	G
21	15599586	15599586	+	G	G
8	27320546	27320546	+	C	C
19	54721334	54721334	+	C	C
8	42045002	42045002	+	C	C
X	27999535	27999535	+	G	G
19	58718493	58718493	+	G	G
5	74889848	74889848	+	C	C
5	89781499	89781499	+	C	C
1	197898345	197898345	+	G	G
3	196730630	196730630	+	C	C
X	148068980	148068980	+	C	C
1	32741557	32741557	+	G	G
11	113565347	113565347	+	G	G
8	10587855	10587855	+	G	G
11	605709	605709	+	C	C

8	32505781	32505781	+	C	C
11	7950149	7950149	+	G	G
2	46166	46166	+	C	C
20	42195720	42195720	+	A	A
1	51767632	51767632	+	G	G
14	76965180	76965180	+	C	C
11	5631729	5631729	+	C	C
12	104374683	104374683	+	C	C
17	44249176	44249176	+	G	G
3	119263598	119263598	+	C	C
16	29828026	29828026	+	G	G
5	67590976	67590976	+	G	G
5	49698127	49698127	+	C	C
12	119773002	119773002	+	C	C
3	123456211	123456211	+	C	C
14	74995392	74995392	+	C	C
9	8733914	8733914	+	G	G
8	86027721	86027721	+	C	C
16	57059344	57059344	+	C	C
8	24775655	24775655	+	G	G
20	33857639	33857639	+	G	G
12	10954592	10954592	+	G	G
19	9062608	9062608	+	G	G
10	98743431	98743431	+	A	A
X	84526436	84526436	+	C	C
1	40878731	40878731	+	C	C
12	27113473	27113473	+	C	C
7	4116720	4116720	+	G	G
12	55038972	55038972	+	C	C
2	238283530	238283530	+	G	G
8	15601095	15601095	+	C	C
5	24511442	24511442	+	C	C
14	101439013	101439013	+	G	G
3	56763631	56763631	+	G	G
1	152280124	152280124	+	G	G
2	98408957	98408957	+	C	C
15	57731779	57731779	+	C	C
Y	16953990	16953990	+	G	G
8	56436232	56436232	+	G	G
11	2018308	2018308	+	G	G
6	7231348	7231348	+	C	C
15	50555459	50555459	+	C	C
7	154748969	154748969	+	T	T

8	145699472	145699472	+	G	G
17	43367890	43367890	+	C	C
12	72863576	72863576	+	G	G
2	175978724	175978724	+	G	G
19	10514249	10514249	+	C	C
15	85383978	85383978	+	G	G
2	69693587	69693587	+	G	G
3	113022819	113022819	+	C	C
5	137673928	137673928	+	G	G
13	26911725	26911725	+	T	T
1	209788617	209788617	+	C	C
7	102427857	102427857	+	C	C
1	216850619	216850619	+	G	G
2	179592038	179592038	+	G	G
5	13770962	13770962	+	G	G
11	14880728	14880728	+	T	T
18	8825049	8825049	+	A	A
17	32953879	32953879	+	C	C
18	34802291	34802291	+	G	G
5	71492418	71492418	+	G	G
12	46601390	46601390	+	C	C
13	42739485	42739485	+	G	G
5	128448635	128448635	+	G	G
2	109065633	109065633	+	G	G
7	1544063	1544063	+	G	G
X	122599601	122599601	+	G	G
3	112730023	112730023	+	A	A
12	64377861	64377861	+	G	G
7	34867194	34867194	+	C	C
11	44959915	44959915	+	G	G
2	228754597	228754597	+	G	G
16	10788717	10788717	+	C	C
1	89485819	89485819	+	G	G
7	119914637	119914637	+	G	G
17	6330289	6330289	+	C	C
8	71036968	71036968	+	G	G
11	113935117	113935117	+	C	C
2	155092571	155092571	+	G	G
7	73098207	73098207	+	C	C
6	7585138	7585138	+	G	G
19	9089213	9089213	+	C	C
1	34330296	34330296	+	G	G
12	18847955	18847955	+	C	C

8	130778006	130778006	+	C	C
12	113433126	113433126	+	G	G
11	111166961	111166961	+	G	G
13	95858807	95858807	+	G	G
14	55255777	55255777	+	C	C
19	49206737	49206737	+	G	G
6	52871118	52871118	+	G	G
11	56511000	56511000	+	G	G
19	43428758	43428758	+	C	C
2	103281750	103281750	+	C	C
5	179225943	179225943	+	G	G
14	52535584	52535584	+	C	C
7	48556372	48556372	+	G	G
12	81675070	81675070	+	G	G
16	15718670	15718670	+	G	G
15	77924708	77924708	+	C	C
X	49074944	49074944	+	G	G
11	59811034	59811034	+	C	C
11	76915174	76915174	+	G	G
10	95791173	95791173	+	G	G
11	125618663	125618663	+	G	G
6	159457841	159457841	+	G	G
11	56113937	56113937	+	C	C
12	102455866	102455866	+	G	G
1	33583580	33583580	+	G	G
8	114389010	114389010	+	G	G
17	16843849	16843849	+	C	C
22	24583644	24583644	+	C	C
12	52307404	52307404	+	C	C
1	148891715	148891715	+	G	G
14	77492316	77492316	+	G	G
16	85741538	85741538	+	C	C
9	75545891	75545891	+	C	C
12	100934517	100934517	+	C	C
19	2249612	2249612	+	C	C
12	13828680	13828680	+	C	C
14	32257070	32257070	+	C	C
1	228540671	228540671	+	C	C
X	151909320	151909320	+	G	G
11	45891086	45891086	+	C	C
5	96079292	96079292	+	C	C
13	103401100	103401100	+	C	C
16	49672515	49672515	+	C	C

1	248487244	248487244	+	G	G
1	152285687	152285687	+	G	G
8	52320941	52320941	+	G	G
8	21939029	21939029	+	C	C
6	138584117	138584117	+	G	G
6	87879466	87879466	+	G	G
5	54403668	54403668	+	G	G
7	5780702	5780702	+	G	G
1	1387776	1387776	+	C	C
7	127999889	127999889	+	C	C
14	106304757	106304757	+	C	C
2	170493093	170493093	+	C	C
15	86312399	86312399	+	G	G
16	75563854	75563854	+	G	G
5	149912584	149912584	+	C	C
6	133013679	133013679	+	C	C
X	47918499	47918499	+	G	G
5	121188492	121188492	+	A	A
9	140114773	140114773	+	G	G
5	40981538	40981538	+	G	G
8	88885433	88885433	+	C	C
11	78437176	78437176	+	G	G
9	35607511	35607511	+	C	C
19	57647405	57647405	+	G	G
7	31920421	31920421	+	G	G
12	25242560	25242560	+	C	C
2	74781863	74781863	+	G	G
7	86394893	86394893	+	G	G
7	45956147	45956147	+	C	C
11	82536011	82536011	+	C	C
19	56030398	56030398	+	C	C
1	156377244	156377244	+	G	G
6	30640795	30640795	+	G	G
11	1269848	1269848	+	C	C
11	1094751	1094751	+	C	C
17	3651330	3651330	+	G	G
11	65985031	65985031	+	G	G
17	79287650	79287650	+	G	G
6	84563065	84563065	+	C	C
14	92608651	92608651	+	C	C
14	95875807	95875807	+	G	G
19	51645661	51645661	+	G	G
10	127760069	127760069	+	C	C



14	106066367	106066367	+	G	G
15	27222278	27222278	+	G	G
8	33369787	33369787	+	T	T
9	136521656	136521656	+	G	G
2	73315193	73315193	+	G	G
7	116862107	116862107	+	C	C
19	50978751	50978751	+	C	C
8	62577792	62577792	+	G	G
7	91875712	91875712	+	G	G
19	36207574	36207574	+	C	C
7	150325074	150325074	+	C	C
8	73480013	73480013	+	G	G
5	140559485	140559485	+	G	G
22	32218718	32218718	+	C	C
11	111420355	111420355	+	G	G
20	25439133	25439133	+	G	G
6	168445646	168445646	+	C	C
12	5153500	5153500	+	G	G
9	133972218	133972218	+	C	C
3	45837794	45837794	+	C	C
13	100958088	100958088	+	C	C
16	31371742	31371742	+	C	C
19	6413505	6413505	+	G	G
22	30200791	30200791	+	G	G
12	49396445	49396445	+	G	G
11	62850750	62850750	+	C	C
X	140996476	140996476	+	C	C
1	158606502	158606502	+	C	C
7	75695673	75695673	+	C	C
14	65198186	65198186	+	C	C
2	119604272	119604272	+	G	G
1	22151167	22151167	+	G	G
12	56095165	56095165	+	C	C
6	136888816	136888816	+	G	G
4	183664419	183664419	+	C	C
18	13762165	13762165	+	G	G
3	151458455	151458455	+	C	C
6	27218540	27218540	+	C	C
19	36271166	36271166	+	C	C
21	38117301	38117301	+	G	G
14	52955198	52955198	+	G	G
4	85937	85937	+	C	C
10	89685269	89685269	+	G	G

11	121415952	121415952	+	G	G
17	76087521	76087521	+	C	C
11	64889856	64889856	+	G	G
4	125591464	125591464	+	C	C
1	176759113	176759113	+	G	G
19	46270286	46270286	+	G	G
20	29632693	29632693	+	G	G
12	120659546	120659546	+	C	C
17	10354156	10354156	+	C	C
15	90213376	90213376	+	C	C
10	79397445	79397445	+	C	C
1	240255037	240255037	+	C	C
7	100551983	100551983	+	C	C
16	68894023	68894023	+	C	C
19	15918674	15918674	+	G	G
12	66221848	66221848	+	C	C
17	7400258	7400258	+	T	T
17	73733666	73733666	+	C	C
12	21331515	21331515	+	T	T
11	2337647	2337647	+	G	G
19	8434162	8434162	+	G	G
2	130921959	130921959	+	G	G
17	8049452	8049452	+	G	G
12	50188964	50188964	+	C	C
2	165349586	165349586	+	G	G
5	26915906	26915906	+	C	C
3	186953610	186953610	+	C	C
4	146682261	146682261	+	G	G
2	24952673	24952673	+	G	G
15	30012196	30012196	+	G	G
16	30486860	30486860	+	G	G
6	125231211	125231211	+	G	G
17	5042570	5042570	+	T	T
2	238285472	238285472	+	G	G
19	51363136	51363136	+	C	C
15	40590463	40590463	+	G	G
12	47472265	47472265	+	C	C
12	13140236	13140236	+	G	G
X	153224033	153224033	+	G	G
11	46917566	46917566	+	G	G
21	16339138	16339138	+	G	G
15	41853786	41853786	+	G	G
7	87175272	87175272	+	G	G

5	149375963	149375963	+	C	C
6	30078419	30078419	+	C	C
3	196612926	196612926	+	C	C
19	16339730	16339730	+	G	G
6	32903094	32903094	+	G	G
1	207643418	207643418	+	G	G
10	18690884	18690884	+	C	C
2	179631247	179631247	+	G	G
19	2834526	2834526	+	C	C
2	131595083	131595083	+	G	G
18	673021	673021	+	G	G
11	45834084	45834084	+	G	G
5	127638767	127638767	+	C	C
19	53911517	53911517	+	C	C
11	123504896	123504896	+	G	G
21	44474025	44474025	+	T	T
2	26536314	26536314	+	G	G
7	37907475	37907475	+	G	G
5	148384326	148384326	+	C	C
2	29455205	29455205	+	G	G
15	40231717	40231717	+	C	C
7	102738767	102738767	+	C	C
X	123043361	123043361	+	G	G
5	22142530	22142530	+	C	C
12	29617457	29617457	+	C	C
19	40151154	40151154	+	G	G
1	223396813	223396813	+	C	C
1	55089122	55089122	+	G	G
21	45826632	45826632	+	C	C
12	109536040	109536040	+	C	C
11	4790462	4790462	+	C	C
11	722721	722721	+	C	C
18	61066504	61066504	+	G	G
1	248737339	248737339	+	C	C
12	31303183	31303183	+	G	G
7	144101650	144101650	+	G	G
2	56094082	56094082	+	G	G
9	80046245	80046245	+	G	G
19	11832642	11832642	+	G	G
2	138169379	138169379	+	C	C
11	75154161	75154161	+	G	G
19	12382914	12382914	+	G	G
8	27288791	27288791	+	G	G

8	24199170	24199170	+	G	G
7	155094467	155094467	+	C	C
3	35770914	35770914	+	C	C
11	66103456	66103456	+	G	G
10	123844338	123844338	+	C	C
2	179426257	179426257	+	C	C
2	119726764	119726764	+	G	G
1	94654852	94654852	+	G	G
6	116821759	116821759	+	G	G
10	105361947	105361947	+	G	G
7	143771652	143771652	+	C	C
9	8340385	8340385	+	G	G
9	37746349	37746349	+	G	G
2	33413645	33413645	+	G	G
1	176145089	176145089	+	G	G
17	79617731	79617731	+	G	G
10	106976707	106976707	+	G	G
3	124223598	124223598	+	G	G
20	62904879	62904879	+	C	C
9	35813372	35813372	+	C	C
21	33371079	33371079	+	C	C
11	64825709	64825709	+	C	C
12	54920357	54920357	+	C	C
5	152002865	152002865	+	G	G
14	94942479	94942479	+	A	A
3	124731556	124731556	+	G	G
19	54313876	54313876	+	G	G
6	12163721	12163721	+	C	C
5	175111052	175111052	+	C	C
16	88772987	88772987	+	C	C
7	144015486	144015486	+	C	C
12	94562982	94562982	+	C	C
11	45117310	45117310	+	G	G
12	7285594	7285594	+	C	C
6	12123589	12123589	+	T	T
1	156390176	156390176	+	C	C
2	119915760	119915760	+	C	C
17	38938542	38938542	+	G	G
1	153963239	153963239	+	C	C
11	65270423	65270423	+	C	C
1	152552011	152552011	+	C	C
7	51261176	51261176	+	T	T
20	31763366	31763366	+	G	G

1	180913625	180913625	+	G	G
20	42887194	42887194	+	C	C
8	57026314	57026314	+	C	C
20	34568410	34568410	+	C	C
12	7252394	7252394	+	G	G
14	51370116	51370116	+	C	C
1	248737528	248737528	+	C	C
4	905894	905894	+	G	G
5	167302993	167302993	+	C	C
6	101295951	101295951	+	C	C
19	53086113	53086113	+	G	G
15	83222672	83222672	+	G	G
12	49523341	49523341	+	C	C
20	49576621	49576621	+	G	G
5	180277797	180277797	+	G	G
X	77913372	77913372	+	G	G
22	38121935	38121935	+	C	C
2	11333939	11333939	+	C	C
1	228473919	228473919	+	G	G
8	30669939	30669939	+	G	G
19	9066169	9066169	+	G	G
1	193219931	193219931	+	C	C
19	32083814	32083814	+	G	G
6	29523729	29523729	+	C	C
X	32380980	32380980	+	C	C
11	56949256	56949256	+	G	G
12	1965275	1965275	+	C	C
12	57873114	57873114	+	G	G
3	8590456	8590456	+	G	G
16	72013741	72013741	+	G	G
1	160607118	160607118	+	C	C
6	167440066	167440066	+	G	G
3	157031497	157031497	+	G	G
10	3820633	3820633	+	A	A
11	46917567	46917567	+	G	G
16	81954870	81954870	+	C	C
11	65628240	65628240	+	C	C
17	36705381	36705381	+	G	G
7	107664378	107664378	+	G	G
18	61558772	61558772	+	C	C
6	28347314	28347314	+	T	T
4	843708	843708	+	C	C
11	120008626	120008626	+	C	C

16	57765217	57765217	+	C	C
1	45798476	45798476	+	A	A
2	179596191	179596191	+	C	C
3	125208299	125208299	+	G	G
20	36572547	36572547	+	C	C
15	25334027	25334027	+	C	C
19	57326065	57326065	+	C	C
7	87196174	87196174	+	G	G
8	73848771	73848771	+	G	G
19	19790380	19790380	+	G	G
21	34045776	34045776	+	G	G
2	179535890	179535890	+	C	C
17	37786256	37786256	+	C	C
16	20948130	20948130	+	G	G
20	55033873	55033873	+	C	C
3	195507151	195507151	+	G	G
4	26483618	26483618	+	C	C
10	13541788	13541788	+	C	C
19	19788756	19788756	+	C	C
5	130928097	130928097	+	G	G
14	57938096	57938096	+	C	C
20	62730145	62730145	+	C	C
1	31901860	31901860	+	G	G
12	93173064	93173064	+	G	G
20	5081454	5081454	+	G	G
18	61327937	61327937	+	C	C
9	139412267	139412267	+	G	G
19	16146810	16146810	+	G	G
3	160151514	160151514	+	C	C
9	125621177	125621177	+	G	G
7	38431555	38431555	+	C	C
X	17770045	17770045	+	C	C
12	50028320	50028320	+	G	G
19	55286790	55286790	+	C	C
10	13336458	13336458	+	C	C
1	114215242	114215242	+	C	C
12	122268149	122268149	+	C	C
7	132409702	132409702	+	C	C
11	116661108	116661108	+	C	C
10	123976343	123976343	+	G	G
8	62491580	62491580	+	G	G
2	71778847	71778847	+	G	G
19	39915492	39915492	+	C	C

11	64802530	64802530	+	G	G
17	62290958	62290958	+	G	G
6	71191790	71191790	+	C	C
1	167096763	167096763	+	C	C
X	114426020	114426020	+	C	C
12	47178403	47178403	+	C	C
10	95790677	95790677	+	C	C
15	57734601	57734601	+	G	G
16	1813728	1813728	+	A	A
15	40331371	40331371	+	G	G
12	119617439	119617439	+	G	G
17	77808765	77808765	+	C	C
5	146763461	146763461	+	G	G
2	217069975	217069975	+	G	G
6	24423330	24423330	+	C	C
5	143539956	143539956	+	A	A
4	1801021	1801021	+	C	C
1	228456122	228456122	+	G	G
8	24350603	24350603	+	C	C
12	117728189	117728189	+	G	G
11	10645331	10645331	+	C	C
6	55942361	55942361	+	C	C
9	139297293	139297293	+	G	G
3	189604206	189604206	+	C	C
1	103440407	103440407	+	G	G
11	124135340	124135340	+	T	T
17	3854976	3854976	+	G	G
12	73056956	73056956	+	G	G
21	45648822	45648822	+	C	C
3	137822643	137822643	+	C	C
10	20506463	20506463	+	A	A
5	16701101	16701101	+	G	G
X	20044050	20044050	+	G	G
21	16338531	16338531	+	T	T
9	124089700	124089700	+	C	C
7	141767184	141767184	+	C	C
2	121744159	121744159	+	G	G
1	212273713	212273713	+	C	C
8	97332515	97332515	+	G	G
8	144789928	144789928	+	C	C
5	77590443	77590443	+	G	G
2	33442719	33442719	+	C	C
1	162353418	162353418	+	G	G

12	11546792	11546792	+	G	G
7	27142171	27142171	+	C	C
6	139203933	139203933	+	G	G
6	166826151	166826151	+	G	G
5	132534820	132534820	+	C	C
11	69625400	69625400	+	G	G
19	58880470	58880470	+	C	C
X	1761810	1761810	+	C	C
9	136305499	136305499	+	G	G
17	2226317	2226317	+	C	C
6	168281117	168281117	+	C	C
1	51767633	51767633	+	G	G
3	134338085	134338085	+	C	C
2	16082918	16082918	+	C	C
2	105883952	105883952	+	G	G
5	35670235	35670235	+	C	C
17	5264648	5264648	+	C	C
8	57876502	57876502	+	G	G
10	13336457	13336457	+	C	C
1	225534223	225534223	+	C	C
13	32900697	32900697	+	C	C
4	4322474	4322474	+	G	G
X	17024459	17024459	+	T	T
11	129940524	129940524	+	G	G
21	45712933	45712933	+	C	C
15	95022240	95022240	+	C	C
6	13295580	13295580	+	G	G
11	71906498	71906498	+	C	C
2	198380809	198380809	+	C	C
11	56409127	56409127	+	G	G
2	108507259	108507259	+	G	G
3	183952548	183952548	+	C	C
1	159505183	159505183	+	C	C
6	132939105	132939105	+	G	G
5	154393316	154393316	+	G	G
19	35786747	35786747	+	G	G
16	24831587	24831587	+	A	A
12	81763106	81763106	+	C	C
7	143175185	143175185	+	G	G
8	128429041	128429041	+	C	C
12	18573877	18573877	+	T	T
X	117770371	117770371	+	T	T
19	7812430	7812430	+	C	C



1	203020813	203020813	+	C	C
3	110611199	110611199	+	G	G
6	29910671	29910671	+	C	C
1	156640744	156640744	+	G	G
8	99153059	99153059	+	C	C
9	127706627	127706627	+	G	G
14	22192156	22192156	+	G	G
1	16862173	16862173	+	C	C
22	45944536	45944536	+	C	C
14	100376605	100376605	+	C	C
17	25969287	25969287	+	C	C
17	38434465	38434465	+	C	C
3	89480480	89480480	+	G	G
11	58949668	58949668	+	C	C
22	23101644	23101644	+	C	C
1	110596625	110596625	+	C	C
12	86373933	86373933	+	C	C
1	172437722	172437722	+	A	A
6	33036410	33036410	+	C	C
17	37561382	37561382	+	C	C
X	63444876	63444876	+	G	G
2	227942681	227942681	+	C	C
17	41907449	41907449	+	G	G
5	60188426	60188426	+	T	T
12	62783226	62783226	+	C	C
3	121305527	121305527	+	C	C
19	6670139	6670139	+	G	G
14	107183682	107183682	+	C	C
19	20728111	20728111	+	G	G
21	45712932	45712932	+	C	C
5	96079291	96079291	+	C	C
6	43111224	43111224	+	G	G
3	96706485	96706485	+	G	G
7	44530315	44530315	+	C	C
14	35343837	35343837	+	G	G
16	30545532	30545532	+	G	G
1	227235659	227235659	+	C	C
19	21910420	21910420	+	A	A
11	5663640	5663640	+	G	G
13	114780788	114780788	+	C	C
16	22446057	22446057	+	C	C
13	48807428	48807428	+	C	C
19	7591681	7591681	+	A	A

12	27179441	27179441	+	A	A
7	143792528	143792528	+	G	G
14	102494373	102494373	+	C	C
1	175067731	175067731	+	G	G
3	128840299	128840299	+	C	C
3	172365700	172365700	+	C	C
8	33449607	33449607	+	C	C
1	149761663	149761663	+	G	G
5	137673929	137673929	+	G	G
3	58255135	58255135	+	G	G
12	62783227	62783227	+	C	C
1	175336357	175336357	+	C	C
19	16146857	16146857	+	C	C
6	119228751	119228751	+	T	T
6	83880051	83880051	+	G	G
11	85630543	85630543	+	C	C
7	4825296	4825296	+	C	C
6	132694137	132694137	+	C	C
22	36650990	36650990	+	C	C
22	39817953	39817953	+	C	C
18	19997658	19997658	+	C	C
1	240072262	240072262	+	G	G
8	17885158	17885158	+	C	C
19	58698391	58698391	+	C	C
2	32368451	32368451	+	C	C
7	92733904	92733904	+	C	C
13	52686427	52686427	+	C	C
3	50141686	50141686	+	C	C
13	41703965	41703965	+	A	A
5	38490385	38490385	+	G	G
X	15599411	15599411	+	C	C
6	16250514	16250514	+	G	G
13	28009592	28009592	+	G	G
17	4536526	4536526	+	C	C
17	41246008	41246008	+	G	G
14	65260323	65260323	+	G	G
19	35776015	35776015	+	G	G
9	133493236	133493236	+	G	G
21	44513268	44513268	+	C	C
7	38725437	38725437	+	C	C
4	95173814	95173814	+	T	T
8	146278264	146278264	+	C	C
1	248308997	248308997	+	C	C

3	14565210	14565210	+	G	G
8	99440397	99440397	+	G	G
11	125618662	125618662	+	G	G
20	210262	210262	+	C	C
20	3451969	3451969	+	T	T
3	51387751	51387751	+	G	G
20	42887195	42887195	+	C	C
6	35448278	35448278	+	G	G
18	28983512	28983512	+	A	A
15	54626006	54626006	+	G	G
17	56349071	56349071	+	G	G
2	16086124	16086124	+	C	C
9	78911762	78911762	+	G	G
12	75875803	75875803	+	C	C
17	40723708	40723708	+	C	C
19	54445475	54445475	+	C	C
19	47774757	47774757	+	C	C
5	153149813	153149813	+	G	G
2	1653263	1653263	+	G	G
9	130279200	130279200	+	G	G
17	39674819	39674819	+	C	C
11	60643082	60643082	+	C	C
5	179201315	179201315	+	C	C
16	88124021	88124021	+	C	C
1	40366682	40366682	+	G	G
7	6713229	6713229	+	T	T
11	70709463	70709463	+	C	C
7	100675121	100675121	+	C	C
5	7303923	7303923	+	G	G
7	1579891	1579891	+	C	C
2	183604321	183604321	+	A	A
20	43384794	43384794	+	G	G
2	61725858	61725858	+	G	G
2	11922532	11922532	+	G	G
16	4797428	4797428	+	G	G
3	129233325	129233325	+	C	C
1	228645318	228645318	+	G	G
7	140481402	140481402	+	C	C
12	11061335	11061335	+	A	A
18	55833021	55833021	+	G	G
7	141758086	141758086	+	C	C
16	31235885	31235885	+	C	C
10	97393314	97393314	+	G	G

14	70633594	70633594	+	G	G
1	179851740	179851740	+	C	C
2	51254796	51254796	+	C	C
8	102381046	102381046	+	T	T
7	133749110	133749110	+	G	G
5	147513396	147513396	+	G	G
2	202529837	202529837	+	G	G
8	26237181	26237181	+	G	G
12	120555071	120555071	+	C	C
18	42533043	42533043	+	G	G
11	1213341	1213341	+	C	C
2	210882269	210882269	+	C	C
10	85985232	85985232	+	C	C
21	45679408	45679408	+	G	G
3	195447789	195447789	+	G	G
6	17773748	17773748	+	C	C
7	143701112	143701112	+	G	G
16	347115	347115	+	G	G
5	167379799	167379799	+	C	C
1	171605184	171605184	+	G	G
2	141806564	141806564	+	G	G
5	10250762	10250762	+	G	G
9	136699454	136699454	+	G	G
1	32682688	32682688	+	G	G
3	108220605	108220605	+	G	G
11	121986685	121986685	+	C	C
1	214814724	214814724	+	T	T
13	58208429	58208429	+	C	C
7	123517263	123517263	+	G	G
7	100696625	100696625	+	A	A
MT	15022	15022	+	C	C
22	38120836	38120836	+	C	C
17	42168856	42168856	+	G	G
14	105614774	105614774	+	G	G
11	78775971	78775971	+	A	A
16	14761717	14761717	+	C	C
3	101241141	101241141	+	G	G
22	36698676	36698676	+	G	G
2	234113007	234113007	+	G	G
1	161192255	161192255	+	C	C
7	99128977	99128977	+	C	C
11	6129824	6129824	+	G	G
11	47283136	47283136	+	C	C

5	156381439	156381439	+	C	C
20	57486113	57486113	+	C	C
X	152736575	152736575	+	G	G
11	102272837	102272837	+	G	G
X	48920224	48920224	+	C	C
20	37573608	37573608	+	C	C
1	225438401	225438401	+	G	G
3	138665465	138665465	+	G	G
4	48076070	48076070	+	C	C
12	118298123	118298123	+	G	G
22	50581506	50581506	+	G	G
6	26408144	26408144	+	C	C
13	77699528	77699528	+	C	C
12	13716879	13716879	+	G	G
16	69317984	69317984	+	C	C
9	79318828	79318828	+	T	T
8	86786357	86786357	+	C	C
10	69366807	69366807	+	C	C
6	26205200	26205200	+	G	G
15	40544528	40544528	+	G	G
19	42928305	42928305	+	G	G
6	31855893	31855893	+	G	G
19	45176029	45176029	+	G	G
11	605708	605708	+	T	T
3	38357828	38357828	+	G	G
18	56936215	56936215	+	C	C
19	37904266	37904266	+	G	G
1	215768789	215768789	+	G	G
17	48618380	48618380	+	G	G
2	48915316	48915316	+	G	G
16	84485598	84485598	+	C	C
7	142111646	142111646	+	C	C
16	23722321	23722321	+	C	C
8	86025310	86025310	+	G	G
3	150421568	150421568	+	C	C
GL000209.1	118647	118647	+	G	G
1	228479731	228479731	+	G	G
16	31095929	31095929	+	G	G
4	106640665	106640665	+	C	C
14	21991100	21991100	+	G	G
15	50555458	50555458	+	C	C
12	20522522	20522522	+	G	G
3	9594200	9594200	+	T	T

6	32025970	32025970	+	G	G
11	113281632	113281632	+	G	G
20	2398003	2398003	+	G	G
X	3239107	3239107	+	T	T
8	73849568	73849568	+	C	C
17	56329578	56329578	+	G	G
8	25890585	25890585	+	C	C
18	28711475	28711475	+	G	G
19	19338529	19338529	+	C	C
19	6471501	6471501	+	C	C
8	56366855	56366855	+	G	G
1	153655047	153655047	+	C	C
10	5788617	5788617	+	T	T
8	65494180	65494180	+	G	G
14	94063841	94063841	+	C	C
3	158363429	158363429	+	G	G
18	31319646	31319646	+	A	A
12	52965148	52965148	+	C	C
11	8060510	8060510	+	G	G
5	13901548	13901548	+	G	G
2	227871796	227871796	+	C	C
6	51910946	51910946	+	G	G
5	140801730	140801730	+	A	A
X	34675063	34675063	+	G	G
9	140786376	140786376	+	G	G
18	19996373	19996373	+	C	C
3	36779808	36779808	+	C	C
17	11501845	11501845	+	C	C
6	109669711	109669711	+	G	G
6	152734539	152734539	+	T	T
9	99154730	99154730	+	G	G
1	169821993	169821993	+	T	T
10	105110539	105110539	+	C	C
15	92459677	92459677	+	C	C
19	9059351	9059351	+	C	C
2	152411487	152411487	+	C	C
3	121448137	121448137	+	C	C
1	185144164	185144164	+	G	G
10	52101085	52101085	+	A	A
7	142575779	142575779	+	C	C
12	95452187	95452187	+	G	G
17	38925177	38925177	+	C	C
11	65780330	65780330	+	G	G

2	48027976	48027976	+	C	C
1	207791540	207791540	+	C	C
16	71609886	71609886	+	A	A
1	74905179	74905179	+	C	C
7	124116993	124116993	+	C	C
10	102894098	102894098	+	C	C
11	9435905	9435905	+	C	C
13	101720351	101720351	+	G	G
6	32814973	32814973	+	C	C
1	193119512	193119512	+	G	G
13	31822034	31822034	+	C	C
13	36383221	36383221	+	T	T
7	107720046	107720046	+	C	C
15	34635800	34635800	+	A	A
19	15164656	15164656	+	G	G
17	79866941	79866941	+	G	G
X	24766550	24766550	+	A	A
1	92941621	92941621	+	G	G
2	187516813	187516813	+	C	C
20	37634900	37634900	+	G	G
2	75109277	75109277	+	G	G
7	143141184	143141184	+	G	G
4	10445531	10445531	+	T	T
3	47888112	47888112	+	T	T
22	49834655	49834655	+	G	G
1	167096138	167096138	+	G	G
12	6631094	6631094	+	G	G
11	118376323	118376323	+	C	C
2	27746180	27746180	+	C	C
20	61162153	61162153	+	G	G
21	46951518	46951518	+	G	G
3	98299542	98299542	+	C	C
1	204966462	204966462	+	A	A
12	58135720	58135720	+	G	G
2	131674982	131674982	+	G	G
2	101581363	101581363	+	C	C
17	58121235	58121235	+	G	G
8	89086866	89086866	+	C	C
7	100086809	100086809	+	G	G
1	184692991	184692991	+	C	C
12	2783691	2783691	+	C	C
12	121104833	121104833	+	G	G
1	175348858	175348858	+	T	T

3	50141687	50141687	+	C	C
17	41597590	41597590	+	G	G
19	10252780	10252780	+	A	A
2	42275859	42275859	+	G	G
11	64607596	64607596	+	G	G
5	168175308	168175308	+	G	G
6	86351147	86351147	+	T	T
1	240656456	240656456	+	G	G
6	149395148	149395148	+	C	C
1	220356246	220356246	+	C	C
5	170669856	170669856	+	G	G
18	52551591	52551591	+	C	C
15	86205684	86205684	+	G	G
6	31827337	31827337	+	G	G
19	23159391	23159391	+	G	G
2	68511449	68511449	+	C	C
3	127411137	127411137	+	G	G
1	200978520	200978520	+	C	C
7	136701068	136701068	+	G	G
19	22379578	22379578	+	A	A
2	192273829	192273829	+	G	G
7	38501002	38501002	+	C	C
12	110344406	110344406	+	C	C
1	100602451	100602451	+	G	G
19	56373416	56373416	+	C	C
17	71233029	71233029	+	C	C
19	36360575	36360575	+	G	G
18	19997183	19997183	+	C	C
19	40151153	40151153	+	G	G
2	18766085	18766085	+	C	C
9	104433279	104433279	+	G	G
11	65767114	65767114	+	C	C
15	72105937	72105937	+	G	G
22	50703750	50703750	+	C	C
18	54814696	54814696	+	T	T
2	21230759	21230759	+	G	G
11	77835109	77835109	+	G	G
18	28662269	28662269	+	C	C
20	2473370	2473370	+	C	C
14	24511950	24511950	+	C	C
1	111862071	111862071	+	C	C
17	9792761	9792761	+	G	G
4	7783137	7783137	+	G	G



7	100086808	100086808	+	G	G
8	126044542	126044542	+	G	G
11	1094752	1094752	+	C	C
12	21689697	21689697	+	G	G
3	13612605	13612605	+	C	C
14	24898010	24898010	+	G	G
12	7074865	7074865	+	T	T
17	56384185	56384185	+	G	G
12	52886808	52886808	+	G	G
19	47778465	47778465	+	C	C
2	135630174	135630174	+	C	C
3	153840477	153840477	+	C	C
2	231103734	231103734	+	G	G
11	111384317	111384317	+	C	C
8	9620665	9620665	+	C	C
5	11565118	11565118	+	G	G
6	101037866	101037866	+	G	G
11	64854484	64854484	+	C	C
8	22451438	22451438	+	C	C
12	45457774	45457774	+	G	G
22	41623324	41623324	+	G	G
7	64023450	64023450	+	A	A
20	32883210	32883210	+	C	C
1	223945074	223945074	+	C	C
2	95538593	95538593	+	A	A
12	56622981	56622981	+	G	G
X	73046861	73046861	+	C	C
15	54860039	54860039	+	C	C
4	23803392	23803392	+	C	C
12	2622123	2622123	+	G	G
21	41414529	41414529	+	C	C
19	35786746	35786746	+	G	G
6	43250747	43250747	+	G	G
17	3743454	3743454	+	G	G
20	57899515	57899515	+	G	G
12	54105923	54105923	+	G	G
1	241932751	241932751	+	C	C
10	55755238	55755238	+	T	T
18	13089540	13089540	+	C	C
1	186007984	186007984	+	C	C
7	72658318	72658318	+	C	C
8	52384822	52384822	+	G	G
6	25983639	25983639	+	G	G

X	26212397	26212397	+	C	C
7	142428773	142428773	+	G	G
11	124294425	124294425	+	C	C
1	38006028	38006028	+	G	G
12	69965964	69965964	+	C	C
7	100457461	100457461	+	C	C
19	43920651	43920651	+	C	C
2	133683638	133683638	+	G	G
11	34485693	34485693	+	G	G
5	1878755	1878755	+	C	C
10	75231331	75231331	+	C	C
1	28208513	28208513	+	C	C
16	30078898	30078898	+	C	C
1	190068020	190068020	+	C	C
12	113314464	113314464	+	C	C
11	65628239	65628239	+	C	C
11	108380926	108380926	+	G	G
2	16085920	16085920	+	A	A
8	27950598	27950598	+	C	C
1	154932203	154932203	+	G	G
18	3084009	3084009	+	C	C
1	220809202	220809202	+	C	C
9	78790058	78790058	+	C	C
14	77706862	77706862	+	G	G
16	31388545	31388545	+	G	G
6	24448371	24448371	+	A	A
11	70858369	70858369	+	G	G
1	207273335	207273335	+	G	G
16	71026098	71026098	+	C	C
17	47685289	47685289	+	G	G
15	68624227	68624227	+	G	G
11	74441939	74441939	+	C	C
12	6804639	6804639	+	C	C
3	36763108	36763108	+	C	C
8	103855873	103855873	+	C	C
18	63489467	63489467	+	C	C
8	39695735	39695735	+	A	A
13	31498623	31498623	+	C	C
8	126011901	126011901	+	G	G
5	140389601	140389601	+	C	C
2	138330076	138330076	+	C	C
20	60985964	60985964	+	G	G
16	84351949	84351949	+	G	G

1	207263800	207263800	+	G	G
8	11619119	11619119	+	T	T
22	41742173	41742173	+	C	C
14	21250218	21250218	+	C	C
11	65802077	65802077	+	T	T
11	5717870	5717870	+	G	G
11	15247220	15247220	+	G	G
X	71886021	71886021	+	C	C
8	49833990	49833990	+	A	A
5	120022315	120022315	+	C	C
2	179751531	179751531	+	G	G
7	142104302	142104302	+	G	G
14	106174203	106174203	+	A	A
12	50370711	50370711	+	G	G
17	11523033	11523033	+	G	G
X	101097831	101097831	+	C	C
5	35955843	35955843	+	C	C
3	124141726	124141726	+	C	C
19	47935371	47935371	+	C	C
11	62296735	62296735	+	G	G
17	71282310	71282310	+	G	G
7	142498951	142498951	+	G	G
11	609667	609667	+	C	C
11	5410948	5410948	+	G	G
14	105478110	105478110	+	C	C
1	7724565	7724565	+	C	C
1	16097040	16097040	+	G	G
5	75954316	75954316	+	C	C
7	151874767	151874767	+	C	C
X	104512186	104512186	+	G	G
7	128414643	128414643	+	G	G
7	99820243	99820243	+	C	C
6	55443849	55443849	+	C	C
16	71318697	71318697	+	G	G
11	4936151	4936151	+	G	G
7	136700564	136700564	+	G	G
19	7744069	7744069	+	G	G
20	1532611	1532611	+	C	C
5	57913640	57913640	+	C	C
2	170090028	170090028	+	C	C
11	113857589	113857589	+	T	T
3	38136656	38136656	+	G	G
17	18232111	18232111	+	C	C

2	136562442	136562442	+	C	C
17	5045714	5045714	+	G	G
11	62105367	62105367	+	C	C
1	153122259	153122259	+	G	G
2	219543982	219543982	+	C	C
9	77448931	77448931	+	C	C
21	47556854	47556854	+	G	G
2	98907061	98907061	+	G	G
11	65810652	65810652	+	C	C
11	4661133	4661133	+	T	T
7	31126117	31126117	+	G	G
13	41303514	41303514	+	G	G
6	47592162	47592162	+	T	T
13	103386526	103386526	+	C	C
5	151771860	151771860	+	G	G
14	102771502	102771502	+	G	G
13	24863281	24863281	+	C	C
3	14862430	14862430	+	C	C
22	39621802	39621802	+	G	G
22	25158343	25158343	+	G	G
5	52097572	52097572	+	T	T
15	91527334	91527334	+	G	G
3	54673839	54673839	+	T	T
22	17128063	17128063	+	G	G
18	3164331	3164331	+	G	G
2	25458580	25458580	+	C	C
15	41961692	41961692	+	C	C
17	38859836	38859836	+	C	C
8	103573096	103573096	+	G	G
1	236746362	236746362	+	G	G
16	23690374	23690374	+	C	C
3	134851717	134851717	+	G	G
6	31855894	31855894	+	G	G
11	7870672	7870672	+	G	G
11	62932098	62932098	+	T	T
15	98514481	98514481	+	T	T
11	605710	605710	+	C	C
3	15300367	15300367	+	C	C
2	135223788	135223788	+	G	G
7	54617869	54617869	+	G	G
14	94394946	94394946	+	G	G
12	105321882	105321882	+	C	C
18	31803275	31803275	+	C	C

19	18965977	18965977	+	C	C
16	67964630	67964630	+	C	C
2	108507258	108507258	+	G	G
3	42705772	42705772	+	C	C
6	65336082	65336082	+	G	G
3	64617157	64617157	+	C	C
2	79349265	79349265	+	T	T
20	39316756	39316756	+	G	G
6	158349734	158349734	+	C	C
14	81609792	81609792	+	G	G
17	36047326	36047326	+	G	G
6	27277429	27277429	+	G	G
19	18119261	18119261	+	A	A
11	626430	626430	+	C	C
6	42609419	42609419	+	C	C
1	54059913	54059913	+	G	G
16	820633	820633	+	G	G
20	40713425	40713425	+	C	C
8	144940719	144940719	+	C	C
5	16701102	16701102	+	G	G
10	106937871	106937871	+	C	C
11	61533475	61533475	+	C	C
4	86989010	86989010	+	G	G
1	201350926	201350926	+	G	G
17	62290957	62290957	+	G	G
1	203830825	203830825	+	T	T
19	1754205	1754205	+	G	G
1	225605722	225605722	+	C	C
12	109334584	109334584	+	G	G
22	39627801	39627801	+	G	G
3	51430747	51430747	+	C	C
19	52147175	52147175	+	C	C
11	1011445	1011445	+	C	C
X	10094213	10094213	+	A	A
11	31653877	31653877	+	C	C
17	45810963	45810963	+	G	G
X	3241351	3241351	+	C	C
5	9224867	9224867	+	C	C
20	43353610	43353610	+	G	G
17	32906218	32906218	+	G	G
19	46195227	46195227	+	C	C
15	85383141	85383141	+	G	G
15	41136292	41136292	+	C	C

17	17750863	17750863	+	G	G
3	137822613	137822613	+	C	C
5	180051013	180051013	+	C	C
20	8862323	8862323	+	G	G
12	18793432	18793432	+	C	C
1	207143561	207143561	+	G	G
6	167753706	167753706	+	G	G
11	93463133	93463133	+	A	A
14	24718574	24718574	+	C	C
2	43986149	43986149	+	C	C
13	76379668	76379668	+	G	G
22	23114964	23114964	+	G	G
5	139235281	139235281	+	C	C
12	56626572	56626572	+	C	C
11	125359521	125359521	+	G	G
10	75412952	75412952	+	G	G
1	55277537	55277537	+	G	G
17	66989171	66989171	+	G	G
6	107100532	107100532	+	G	G
5	179201316	179201316	+	C	C
2	202529838	202529838	+	G	G
3	126736723	126736723	+	G	G
5	140553193	140553193	+	C	C
2	220085972	220085972	+	C	C
1	27428902	27428902	+	G	G
8	73850027	73850027	+	G	G
1	44877889	44877889	+	C	C
21	15870842	15870842	+	G	G
11	60050124	60050124	+	C	C
7	129962357	129962357	+	G	G
10	81444111	81444111	+	A	A
2	113943565	113943565	+	G	G
12	9252067	9252067	+	G	G
17	43320509	43320509	+	G	G
19	2249613	2249613	+	C	C
17	6023865	6023865	+	C	C
6	138745806	138745806	+	C	C
19	30935026	30935026	+	G	G
14	53177843	53177843	+	G	G
1	230915984	230915984	+	G	G
6	80635941	80635941	+	C	C
7	137586116	137586116	+	G	G
5	115238594	115238594	+	C	C

6	64487907	64487907	+	A	A
20	43752755	43752755	+	C	C
2	219507734	219507734	+	G	G
16	70867920	70867920	+	G	G
11	4388766	4388766	+	A	A
10	15255473	15255473	+	G	G
5	148384325	148384325	+	C	C
13	24892970	24892970	+	C	C
19	51330167	51330167	+	C	C
X	129306103	129306103	+	G	G
10	19820261	19820261	+	G	G
3	138417865	138417865	+	C	C
X	8433551	8433551	+	G	G
5	132100002	132100002	+	G	G
19	44933111	44933111	+	G	G
15	39876582	39876582	+	G	G
7	100286271	100286271	+	G	G
5	180669140	180669140	+	C	C
2	179197377	179197377	+	G	G
7	20721179	20721179	+	C	C
5	45645612	45645612	+	C	C
11	17118741	17118741	+	G	G
7	92731176	92731176	+	T	T
19	648218	648218	+	G	G
15	42299942	42299942	+	G	G
1	151993696	151993696	+	G	G
15	34610840	34610840	+	C	C
19	58038764	58038764	+	C	C
19	9049111	9049111	+	G	G
1	237957207	237957207	+	G	G
11	56230646	56230646	+	T	T
2	228783495	228783495	+	G	G
17	11895926	11895926	+	A	A
1	171251130	171251130	+	G	G
2	179308209	179308209	+	G	G
15	85401264	85401264	+	G	G
17	39785259	39785259	+	C	C
5	140255369	140255369	+	C	C
8	105263336	105263336	+	C	C
9	131885399	131885399	+	C	C
3	4358631	4358631	+	C	C
14	92406960	92406960	+	C	C
19	43382139	43382139	+	G	G

7	36763727	36763727	+	C	C
4	166946535	166946535	+	T	T
16	5128005	5128005	+	C	C
1	155255019	155255019	+	C	C
22	32435871	32435871	+	G	G
13	29674956	29674956	+	C	C
19	4333755	4333755	+	C	C
5	72112449	72112449	+	C	C
2	132021632	132021632	+	G	G
5	24491924	24491924	+	C	C
22	21134007	21134007	+	A	A
3	56330265	56330265	+	C	C
10	76867819	76867819	+	C	C
7	143747613	143747613	+	G	G
6	71212561	71212561	+	G	G
11	1288668	1288668	+	C	C
20	30777195	30777195	+	C	C
10	120354048	120354048	+	G	G
6	43472921	43472921	+	C	C
3	121647880	121647880	+	C	C
X	101096880	101096880	+	G	G
20	1298695	1298695	+	C	C
17	42745104	42745104	+	C	C
7	131895740	131895740	+	G	G
X	48925015	48925015	+	C	C
16	26147219	26147219	+	G	G
1	32092401	32092401	+	G	G
9	133932468	133932468	+	G	G
8	12428305	12428305	+	G	G
7	72413752	72413752	+	G	G
16	3140618	3140618	+	C	C
19	51410097	51410097	+	G	G
19	14065192	14065192	+	C	C
7	149426346	149426346	+	C	C
1	34003115	34003115	+	G	G
2	11052840	11052840	+	G	G
13	26107423	26107423	+	G	G
15	26825473	26825473	+	G	G
16	70516019	70516019	+	C	C
6	165848762	165848762	+	T	T
9	43629277	43629277	+	T	T
1	161007664	161007664	+	C	C
4	69874693	69874693	+	C	C



3	140851073	140851073	+	G	G
4	71255507	71255507	+	C	C
5	178552115	178552115	+	G	G
7	92861655	92861655	+	G	G
4	115998003	115998003	+	C	C
8	131826339	131826339	+	G	G
16	20975981	20975981	+	G	G
16	2882148	2882148	+	C	C
X	111097218	111097218	+	G	G
1	28208514	28208514	+	C	C
6	70071078	70071078	+	G	G
19	8188758	8188758	+	C	C
6	25762165	25762165	+	C	C
17	72278079	72278079	+	C	C
15	75693228	75693228	+	G	G
16	67760215	67760215	+	G	G
20	36611990	36611990	+	C	C
16	67918569	67918569	+	C	C
21	32119382	32119382	+	A	A
22	50720384	50720384	+	G	G
15	48513143	48513143	+	G	G
X	135432555	135432555	+	G	G
5	13864609	13864609	+	C	C
4	105412231	105412231	+	C	C
10	73964183	73964183	+	G	G
17	48051166	48051166	+	G	G
2	131520183	131520183	+	G	G
2	170097837	170097837	+	G	G
22	46627911	46627911	+	G	G
10	403825	403825	+	G	G
19	55107936	55107936	+	C	C
21	47865244	47865244	+	A	A
4	103537805	103537805	+	T	T
7	91972518	91972518	+	T	T
2	179571308	179571308	+	C	C
19	54647468	54647468	+	C	C
17	62271047	62271047	+	C	C
10	105836143	105836143	+	C	C
17	76087596	76087596	+	C	C
19	48259126	48259126	+	C	C
5	1033519	1033519	+	G	G
1	207646216	207646216	+	A	A
12	7080017	7080017	+	G	G

20	56818659	56818659	+	G	G
6	27277323	27277323	+	G	G
12	96948552	96948552	+	A	A
5	81571069	81571069	+	A	A
6	53707000	53707000	+	G	G
11	114421855	114421855	+	C	C
2	69693486	69693486	+	C	C
7	100551602	100551602	+	C	C
7	73523283	73523283	+	G	G
8	142238337	142238337	+	A	A
11	40136530	40136530	+	G	G
19	53888140	53888140	+	C	C
X	39932727	39932727	+	C	C
3	71247185	71247185	+	G	G
12	21331509	21331509	+	G	G
8	12428306	12428306	+	G	G
20	40944592	40944592	+	C	C
9	32424655	32424655	+	G	G
9	66468984	66468984	+	A	A
3	123368009	123368009	+	C	C
8	125109580	125109580	+	C	C
10	126517978	126517978	+	A	A
5	78985662	78985662	+	C	C
12	41463865	41463865	+	C	C
6	30899898	30899898	+	G	G
7	137801530	137801530	+	G	G
7	23775510	23775510	+	T	T
2	166451606	166451606	+	G	G
11	21306007	21306007	+	G	G
18	57103010	57103010	+	G	G
19	58437939	58437939	+	G	G
8	24813528	24813528	+	C	C
7	57188104	57188104	+	G	G
1	213009338	213009338	+	G	G
8	33369786	33369786	+	C	C
3	167183171	167183171	+	G	G
15	57544623	57544623	+	A	A
11	124413002	124413002	+	G	G
6	144095350	144095350	+	C	C
11	3129153	3129153	+	C	C
19	1057385	1057385	+	C	C
19	43257402	43257402	+	G	G
19	40580726	40580726	+	A	A

8	52469422	52469422	+	C	C
GL000219.1	54490	54490	+	C	C
6	85457758	85457758	+	G	G
16	55890292	55890292	+	G	G
19	9579842	9579842	+	G	G
7	100884119	100884119	+	G	G
1	148933291	148933291	+	G	G
9	71532487	71532487	+	G	G
X	34961813	34961813	+	G	G
13	101184755	101184755	+	G	G
18	55996335	55996335	+	C	C
2	215818676	215818676	+	C	C
19	19460214	19460214	+	G	G
X	70748433	70748433	+	C	C
5	13700980	13700980	+	C	C
9	34517351	34517351	+	G	G
8	56922622	56922622	+	G	G
19	43411128	43411128	+	G	G
2	27886907	27886907	+	C	C
2	220112916	220112916	+	C	C
11	377141	377141	+	G	G
3	47037952	47037952	+	C	C
1	227171570	227171570	+	C	C
1	213009264	213009264	+	G	G
11	62444270	62444270	+	G	G
GL000218.1	53265	53265	+	G	G
22	51206184	51206184	+	G	G
15	25492497	25492497	+	G	G
12	51102230	51102230	+	G	G
5	33658334	33658334	+	G	G
20	9510538	9510538	+	C	C
5	180669141	180669141	+	C	C
17	37340098	37340098	+	G	G
3	129270093	129270093	+	G	G
11	65635772	65635772	+	G	G
7	21765471	21765471	+	G	G
14	50117063	50117063	+	G	G
11	18313531	18313531	+	G	G
2	26257436	26257436	+	C	C
13	92345723	92345723	+	C	C
1	228645399	228645399	+	A	A
4	6107434	6107434	+	C	C
4	128590294	128590294	+	G	G

11	117301724	117301724	+	G	G
2	73718448	73718448	+	C	C
11	1478255	1478255	+	C	C
22	40676090	40676090	+	C	C
1	156206095	156206095	+	C	C
12	18847938	18847938	+	C	C
6	101295952	101295952	+	C	C
16	30545534	30545534	+	C	C
12	55726174	55726174	+	A	A
5	137802959	137802959	+	T	T
2	120383204	120383204	+	G	G
8	42977434	42977434	+	C	C
8	73849569	73849569	+	C	C
2	176996139	176996139	+	G	G
22	46654310	46654310	+	C	C
X	66941766	66941766	+	G	G
4	2986289	2986289	+	G	G
2	220112917	220112917	+	C	C
7	127954855	127954855	+	C	C
11	4621797	4621797	+	G	G
3	132180044	132180044	+	T	T
19	4283056	4283056	+	C	C
2	64685692	64685692	+	G	G
1	207753921	207753921	+	C	C
1	152732181	152732181	+	C	C
12	86199562	86199562	+	C	C
7	44805096	44805096	+	C	C
18	673020	673020	+	G	G
5	40853995	40853995	+	C	C
10	126370542	126370542	+	G	G
19	56274361	56274361	+	C	C
14	71109225	71109225	+	G	G
3	185200158	185200158	+	G	G
19	46326646	46326646	+	A	A
16	20329546	20329546	+	T	T
20	43930053	43930053	+	C	C
X	71264452	71264452	+	C	C
3	121828120	121828120	+	G	G
5	138861252	138861252	+	G	G
1	6521339	6521339	+	G	G
8	104427381	104427381	+	A	A
18	44118295	44118295	+	G	G
16	89556960	89556960	+	G	G

7	149430738	149430738	+	G	G
1	37291215	37291215	+	G	G
3	38023512	38023512	+	C	C
5	140725297	140725297	+	C	C
8	55539366	55539366	+	T	T
19	38315246	38315246	+	G	G
3	97887735	97887735	+	G	G
12	57662740	57662740	+	G	G
17	2868834	2868834	+	G	G
6	28185997	28185997	+	G	G
15	20644476	20644476	+	C	C
9	90747461	90747461	+	C	C
2	162799302	162799302	+	G	G
11	6023920	6023920	+	G	G
14	59835527	59835527	+	C	C
13	103396738	103396738	+	C	C
X	17394060	17394060	+	C	C
19	49999641	49999641	+	C	C
11	1266077	1266077	+	C	C
12	6647316	6647316	+	C	C
15	90213438	90213438	+	A	A
12	120306964	120306964	+	A	A
7	81335668	81335668	+	A	A
10	61926355	61926355	+	C	C
22	36698677	36698677	+	G	G
1	159166952	159166952	+	G	G
2	220307986	220307986	+	C	C
2	39944282	39944282	+	G	G
19	50354072	50354072	+	C	C
12	14849431	14849431	+	C	C
16	80583322	80583322	+	C	C
2	85255107	85255107	+	G	G
17	73611964	73611964	+	G	G
5	74101071	74101071	+	C	C
8	6669102	6669102	+	G	G
20	31627241	31627241	+	G	G
1	212550942	212550942	+	C	C
7	150553573	150553573	+	C	C
17	11597695	11597695	+	C	C
1	178442420	178442420	+	C	C
7	143140928	143140928	+	C	C
9	134350475	134350475	+	G	G
2	239039404	239039404	+	C	C

5	74101059	74101059	+	C	C
11	108345534	108345534	+	G	G
12	97957681	97957681	+	G	G
2	133403772	133403772	+	C	C
20	24565507	24565507	+	G	G
11	5221880	5221880	+	C	C
19	1881458	1881458	+	G	G
2	29256410	29256410	+	G	G
6	33693244	33693244	+	G	G
22	39077956	39077956	+	C	C
6	43470527	43470527	+	G	G
12	117187930	117187930	+	G	G
22	46787696	46787696	+	G	G
12	102045105	102045105	+	G	G
4	40776355	40776355	+	C	C
5	34845610	34845610	+	C	C
14	24845520	24845520	+	C	C
12	70954573	70954573	+	C	C
14	91747570	91747570	+	G	G
2	39944283	39944283	+	G	G
11	34156825	34156825	+	C	C
3	41938413	41938413	+	C	C
10	61833899	61833899	+	G	G
7	114066575	114066575	+	G	G
3	54673787	54673787	+	C	C
15	20613775	20613775	+	G	G
20	2447774	2447774	+	T	T
19	49835521	49835521	+	G	G
1	248084322	248084322	+	G	G
3	100976389	100976389	+	G	G
13	48986341	48986341	+	C	C
8	128429040	128429040	+	C	C
17	58147094	58147094	+	G	G
20	42697581	42697581	+	G	G
19	501715	501715	+	G	G
7	87174234	87174234	+	C	C
5	137843978	137843978	+	G	G
6	109907248	109907248	+	G	G
19	48556283	48556283	+	C	C
2	21236237	21236237	+	G	G
GL000241.1	22747	22747	+	T	T
4	126370686	126370686	+	G	G
13	46287544	46287544	+	C	C

3	51429308	51429308	+	T	T
12	6646890	6646890	+	T	T
8	25249455	25249455	+	C	C
1	57499082	57499082	+	C	C
12	108589759	108589759	+	G	G
1	227834331	227834331	+	G	G
4	119952494	119952494	+	A	A
17	62130310	62130310	+	G	G
1	15894370	15894370	+	A	A
19	13988211	13988211	+	C	C
14	76446976	76446976	+	C	C
8	10986270	10986270	+	T	T
14	74874554	74874554	+	C	C
16	71510024	71510024	+	G	G
5	38258792	38258792	+	C	C
1	177249716	177249716	+	C	C
1	156344446	156344446	+	C	C
7	143826883	143826883	+	G	G
8	27143738	27143738	+	G	G
17	48687257	48687257	+	G	G
11	73689486	73689486	+	T	T
5	74722248	74722248	+	G	G
7	144015559	144015559	+	G	G
8	144297295	144297295	+	G	G
9	37741025	37741025	+	C	C
2	109276133	109276133	+	C	C
1	157667220	157667220	+	G	G
7	1273287	1273287	+	G	G
19	51175292	51175292	+	A	A
6	28053519	28053519	+	G	G
19	1043831	1043831	+	C	C
6	112392700	112392700	+	G	G
13	50123599	50123599	+	G	G
1	160121853	160121853	+	G	G
12	47471366	47471366	+	C	C
20	61528238	61528238	+	C	C
13	110835366	110835366	+	C	C
20	44527206	44527206	+	C	C
X	140983304	140983304	+	G	G
11	5988911	5988911	+	G	G
19	1556651	1556651	+	C	C
14	75052729	75052729	+	C	C
3	120369827	120369827	+	G	G

7	48443624	48443624	+	G	G
4	183714967	183714967	+	C	C
13	37539792	37539792	+	G	G
8	3008778	3008778	+	A	A
19	44377833	44377833	+	C	C
12	8023637	8023637	+	G	G
1	33149504	33149504	+	G	G
14	29247447	29247447	+	C	C
3	159557888	159557888	+	C	C
10	96701973	96701973	+	A	A
20	35563468	35563468	+	G	G
8	69017442	69017442	+	C	C
9	68414374	68414374	+	T	T
1	153043113	153043113	+	G	G
19	36685793	36685793	+	C	C
8	1626527	1626527	+	C	C
3	97593414	97593414	+	C	C
5	13920682	13920682	+	C	C
1	240371494	240371494	+	G	G
6	86195115	86195115	+	G	G
7	149194615	149194615	+	C	C
5	150310796	150310796	+	C	C
22	26239830	26239830	+	G	G
2	73496618	73496618	+	G	G
7	138764242	138764242	+	G	G
4	47548765	47548765	+	G	G
1	187610368	187610368	+	C	C
12	113638332	113638332	+	C	C
5	140182166	140182166	+	G	G
12	46121404	46121404	+	C	C
22	24573760	24573760	+	C	C
5	96460223	96460223	+	G	G
19	58189385	58189385	+	G	G
11	63059060	63059060	+	C	C
X	104463874	104463874	+	G	G
12	104487302	104487302	+	C	C
11	48510581	48510581	+	G	G
11	7439348	7439348	+	G	G
4	185339745	185339745	+	C	C
1	248487323	248487323	+	G	G
1	155911823	155911823	+	C	C
2	210882268	210882268	+	C	C
7	103155704	103155704	+	C	C



7	48312947	48312947	+	C	C
19	6707876	6707876	+	C	C
19	37487974	37487974	+	C	C
19	39360730	39360730	+	C	C
15	72580950	72580950	+	G	G
19	52250221	52250221	+	C	C
16	2231413	2231413	+	G	G
19	54080047	54080047	+	C	C
12	6925358	6925358	+	C	C
8	27462774	27462774	+	C	C
1	24448228	24448228	+	C	C
X	22095740	22095740	+	C	C
3	157031496	157031496	+	G	G
6	84563067	84563067	+	C	C
5	13901572	13901572	+	G	G
12	52825345	52825345	+	G	G
15	52161564	52161564	+	A	A
3	38951579	38951579	+	G	G
17	41907450	41907450	+	G	G
1	192993057	192993057	+	G	G
21	44474026	44474026	+	C	C
11	94180596	94180596	+	G	G
1	14107219	14107219	+	C	C
19	36430415	36430415	+	C	C
22	40080318	40080318	+	C	C
2	132201315	132201315	+	G	G
11	68029196	68029196	+	G	G
1	39950325	39950325	+	C	C
5	93721953	93721953	+	G	G
5	33881418	33881418	+	C	C
7	137237266	137237266	+	C	C
11	94112320	94112320	+	G	G
22	39908308	39908308	+	C	C
22	24919602	24919602	+	G	G
2	70441606	70441606	+	G	G
3	42727774	42727774	+	G	G
15	41870524	41870524	+	G	G
3	44286424	44286424	+	C	C
21	37617502	37617502	+	C	C
10	96987593	96987593	+	G	G
6	36652017	36652017	+	G	G
3	182987955	182987955	+	C	C
19	46303755	46303755	+	G	G

11	57461306	57461306	+	C	C
2	113993147	113993147	+	G	G
15	42019410	42019410	+	C	C
11	2325403	2325403	+	C	C
11	118390431	118390431	+	C	C
6	106959729	106959729	+	C	C
13	32376410	32376410	+	G	G
19	4512527	4512527	+	C	C
6	29760251	29760251	+	C	C
2	90044129	90044129	+	G	G
5	140614956	140614956	+	C	C
5	42804924	42804924	+	G	G
1	203188394	203188394	+	G	G
12	88383104	88383104	+	C	C
11	100227098	100227098	+	G	G
3	50415162	50415162	+	C	C
2	179588670	179588670	+	G	G
1	22211333	22211333	+	G	G
19	52249102	52249102	+	C	C
11	67076908	67076908	+	T	T
1	152084972	152084972	+	C	C
12	111099169	111099169	+	G	G
7	150163924	150163924	+	C	C
1	183109591	183109591	+	C	C
15	32450803	32450803	+	C	C
2	171262142	171262142	+	A	A
17	48697182	48697182	+	C	C
2	183640121	183640121	+	C	C
7	141830748	141830748	+	G	G
X	106082590	106082590	+	C	C
3	46062685	46062685	+	C	C
22	37462022	37462022	+	C	C
4	105412232	105412232	+	C	C
5	140626289	140626289	+	G	G
17	27910021	27910021	+	G	G
21	32932350	32932350	+	G	G
15	72037455	72037455	+	C	C
1	225237926	225237926	+	C	C
X	113961354	113961354	+	C	C
20	42908199	42908199	+	G	G
5	26890060	26890060	+	G	G
1	154221863	154221863	+	C	C
7	144060313	144060313	+	C	C

14	106232308	106232308	+	C	C
21	26978861	26978861	+	G	G
2	173659880	173659880	+	G	G
19	55512302	55512302	+	G	G
19	3474972	3474972	+	C	C
12	109354716	109354716	+	G	G
15	63351861	63351861	+	C	C
20	61303289	61303289	+	C	C
19	38795502	38795502	+	C	C
10	92509339	92509339	+	G	G
7	5385299	5385299	+	G	G
6	116442676	116442676	+	C	C
5	140215361	140215361	+	A	A
17	71282656	71282656	+	G	G
22	46932914	46932914	+	C	C
9	139244174	139244174	+	C	C
19	17954648	17954648	+	G	G
2	178095454	178095454	+	G	G
7	149501089	149501089	+	C	C
1	170993671	170993671	+	G	G
17	48068898	48068898	+	G	G
18	40853988	40853988	+	G	G
1	144873950	144873950	+	G	G
17	7017453	7017453	+	C	C
16	24802386	24802386	+	C	C
7	92731606	92731606	+	C	C
18	22023036	22023036	+	C	C
5	1422039	1422039	+	G	G
18	31319196	31319196	+	G	G
7	148767725	148767725	+	G	G
5	140307836	140307836	+	C	C
19	55224760	55224760	+	C	C
3	141632533	141632533	+	C	C
12	57348689	57348689	+	C	C
2	88422767	88422767	+	C	C
9	138455168	138455168	+	T	T
19	1556652	1556652	+	A	A
6	161006229	161006229	+	C	C
1	1140870	1140870	+	C	C
17	65103356	65103356	+	T	T
7	55466237	55466237	+	C	C
6	10887346	10887346	+	G	G
13	25060340	25060340	+	A	A

3	139257698	139257698	+	C	C
2	30974085	30974085	+	A	A
21	46951517	46951517	+	G	G
7	141408734	141408734	+	C	C
1	211380622	211380622	+	C	C
17	73733665	73733665	+	C	C
19	2997750	2997750	+	C	C
1	225492619	225492619	+	G	G
7	4917587	4917587	+	G	G
18	47431069	47431069	+	G	G
5	140730595	140730595	+	C	C
6	38891821	38891821	+	C	C
19	38384096	38384096	+	C	C
19	1241832	1241832	+	C	C
9	139313582	139313582	+	C	C
8	99205079	99205079	+	G	G
19	10221193	10221193	+	C	C
X	9917304	9917304	+	C	C
14	74876085	74876085	+	G	G
1	176133011	176133011	+	A	A
2	10105453	10105453	+	C	C
11	124294171	124294171	+	G	G
2	141946119	141946119	+	C	C
20	32216179	32216179	+	G	G
19	47844692	47844692	+	C	C
3	126708500	126708500	+	C	C
15	89172612	89172612	+	C	C
3	99514343	99514343	+	G	G
1	111784879	111784879	+	G	G
16	87448056	87448056	+	C	C
7	76131597	76131597	+	A	A
8	135614682	135614682	+	C	C
19	13941422	13941422	+	C	C
3	123452725	123452725	+	C	C
7	31592692	31592692	+	G	G
7	92761493	92761493	+	C	C
10	35928478	35928478	+	G	G
5	150647098	150647098	+	C	C
12	6909497	6909497	+	G	G
19	57641920	57641920	+	C	C
8	126044543	126044543	+	G	G
5	140810360	140810360	+	G	G
14	23894201	23894201	+	C	C

16	70020358	70020358	+	G	G
20	57466919	57466919	+	G	G
11	2466337	2466337	+	G	G
2	209104592	209104592	+	G	G
13	29599090	29599090	+	G	G
10	105005828	105005828	+	G	G
5	179765568	179765568	+	G	G
5	156899347	156899347	+	C	C
6	41707647	41707647	+	C	C
16	70986416	70986416	+	G	G
12	80890150	80890150	+	A	A
7	76131564	76131564	+	G	G
13	99947321	99947321	+	C	C
19	7152745	7152745	+	G	G
20	5904080	5904080	+	C	C
17	45501332	45501332	+	G	G
8	124267665	124267665	+	C	C
4	74354392	74354392	+	G	G
4	52779712	52779712	+	G	G
19	6904122	6904122	+	G	G
19	37678109	37678109	+	G	G
21	41385161	41385161	+	G	G
5	133482076	133482076	+	C	C
10	115406775	115406775	+	C	C
16	2373555	2373555	+	C	C
8	113293473	113293473	+	G	G
19	9061494	9061494	+	C	C
2	139429022	139429022	+	C	C
Y	14889960	14889960	+	C	C
14	55818555	55818555	+	T	T
4	156847068	156847068	+	C	C
6	31773895	31773895	+	G	G
2	21242612	21242612	+	C	C
3	9787276	9787276	+	G	G
X	155171607	155171607	+	A	A
6	167717600	167717600	+	C	C
19	52870170	52870170	+	C	C
10	102766338	102766338	+	C	C
22	46931362	46931362	+	G	G
2	74274688	74274688	+	C	C
5	36049417	36049417	+	G	G
12	58014120	58014120	+	C	C
17	73484891	73484891	+	C	C

X	130412699	130412699	+	C	C
20	50407408	50407408	+	C	C
11	40136551	40136551	+	G	G
1	152193488	152193488	+	C	C
3	126224818	126224818	+	G	G
5	109103269	109103269	+	C	C
20	48479544	48479544	+	C	C
7	48965213	48965213	+	G	G
12	47168933	47168933	+	G	G
1	159166700	159166700	+	G	G
8	21926979	21926979	+	C	C
10	50857678	50857678	+	C	C
3	52858534	52858534	+	G	G
7	63538758	63538758	+	G	G
16	50104137	50104137	+	G	G
1	100624884	100624884	+	C	C
12	18872563	18872563	+	C	C
15	75499628	75499628	+	C	C
12	56626549	56626549	+	G	G
18	59954678	59954678	+	C	C
1	70505252	70505252	+	G	G
8	94748597	94748597	+	C	C
5	40950092	40950092	+	G	G
20	334113	334113	+	C	C
11	9171711	9171711	+	G	G
18	29410669	29410669	+	A	A
5	148730873	148730873	+	C	C
2	179526540	179526540	+	C	C
1	238090463	238090463	+	C	C
5	161300146	161300146	+	C	C
11	7982690	7982690	+	C	C
20	33329102	33329102	+	G	G
X	46918291	46918291	+	C	C
19	19369424	19369424	+	C	C
4	177100686	177100686	+	C	C
19	49658398	49658398	+	C	C
6	33169119	33169119	+	G	G
19	758640	758640	+	G	G
1	53122673	53122673	+	C	C
X	134947928	134947928	+	C	C
19	7794993	7794993	+	G	G
1	158606481	158606481	+	T	T
7	33423349	33423349	+	C	C

2	159107377	159107377	+	C	C
8	142500296	142500296	+	C	C
1	112304941	112304941	+	C	C
X	117742277	117742277	+	G	G
4	115997801	115997801	+	A	A
8	109796543	109796543	+	C	C
9	37746005	37746005	+	G	G
1	160784414	160784414	+	G	G
4	119948253	119948253	+	G	G
1	226551687	226551687	+	G	G
6	130762527	130762527	+	G	G
1	212560392	212560392	+	G	G
1	7887577	7887577	+	C	C
16	24202549	24202549	+	G	G
5	45262175	45262175	+	G	G
8	144103026	144103026	+	C	C
1	248637394	248637394	+	C	C
1	3512008	3512008	+	G	G
4	158262490	158262490	+	A	A
13	111532050	111532050	+	G	G
6	42851275	42851275	+	C	C
11	10582281	10582281	+	G	G
X	152225667	152225667	+	G	G
1	38006243	38006243	+	G	G
1	32627551	32627551	+	C	C
12	70070785	70070785	+	G	G
9	72130969	72130969	+	G	G
5	156390205	156390205	+	G	G
1	115256529	115256529	+	T	T
17	31350955	31350955	+	A	A
10	122273422	122273422	+	G	G
5	176005523	176005523	+	G	G
14	59798144	59798144	+	C	C
17	71165390	71165390	+	C	C
19	38229581	38229581	+	G	G
X	57405110	57405110	+	C	C
11	57381939	57381939	+	C	C
2	165946698	165946698	+	C	C
18	51888143	51888143	+	T	T
2	88890404	88890404	+	C	C
17	43545887	43545887	+	G	G
4	69512731	69512731	+	G	G
11	102667797	102667797	+	G	G

8	77618767	77618767	+	C	C
1	23842941	23842941	+	C	C
4	186425697	186425697	+	C	C
2	1241726	1241726	+	C	C
1	99771847	99771847	+	C	C
9	21201975	21201975	+	C	C
2	175624354	175624354	+	G	G
X	154290252	154290252	+	C	C
11	44096166	44096166	+	C	C
1	184764448	184764448	+	C	C
11	58190463	58190463	+	G	G
2	112863633	112863633	+	C	C
11	56468109	56468109	+	G	G
2	103281630	103281630	+	C	C
3	38913125	38913125	+	G	G
5	147888956	147888956	+	G	G
19	56320670	56320670	+	G	G
1	240070810	240070810	+	G	G
19	15882065	15882065	+	C	C
22	38245389	38245389	+	C	C
1	10166336	10166336	+	C	C
18	5291578	5291578	+	A	A
17	1554486	1554486	+	C	C
6	160874731	160874731	+	C	C
13	46050463	46050463	+	G	G
1	2938938	2938938	+	G	G
15	25463892	25463892	+	C	C
18	47480740	47480740	+	G	G
X	154157443	154157443	+	T	T
22	18844837	18844837	+	G	G
1	236727922	236727922	+	G	G
11	5142837	5142837	+	G	G
15	43748405	43748405	+	G	G
7	11676541	11676541	+	G	G
11	59282739	59282739	+	G	G
17	79954428	79954428	+	C	C
12	100904616	100904616	+	C	C
22	30857641	30857641	+	C	C
1	44447453	44447453	+	C	C
GL000194.1	68313	68313	+	T	T
12	123477202	123477202	+	G	G
4	38776692	38776692	+	A	A
11	69978066	69978066	+	C	C



8	71068364	71068364	+	G	G
5	55081299	55081299	+	G	G
16	76482806	76482806	+	C	C
21	45817712	45817712	+	C	C
19	9047735	9047735	+	G	G
X	109764495	109764495	+	C	C
1	21106863	21106863	+	A	A
16	71026055	71026055	+	G	G
X	78426792	78426792	+	C	C
14	35409471	35409471	+	G	G
18	31326183	31326183	+	C	C
12	2764402	2764402	+	C	C
3	19575181	19575181	+	C	C
17	38027044	38027044	+	G	G
19	7806713	7806713	+	G	G
2	234591010	234591010	+	G	G
3	126071454	126071454	+	G	G
6	42937493	42937493	+	G	G
10	95111581	95111581	+	G	G
3	111426917	111426917	+	G	G
1	57480916	57480916	+	G	G
15	72639094	72639094	+	G	G
19	53484150	53484150	+	G	G
15	24923191	24923191	+	G	G
14	36008772	36008772	+	G	G
3	48622201	48622201	+	C	C
6	84366474	84366474	+	G	G
3	151165740	151165740	+	C	C
12	70004332	70004332	+	G	G
1	21890613	21890613	+	G	G
9	35045119	35045119	+	G	G
20	60740521	60740521	+	G	G
10	50227680	50227680	+	G	G
X	13754689	13754689	+	C	C
1	235901744	235901744	+	G	G
3	58106991	58106991	+	G	G
17	58286158	58286158	+	G	G
X	73962795	73962795	+	G	G
17	7919278	7919278	+	G	G
11	47834556	47834556	+	G	G
11	55065578	55065578	+	C	C
19	30503318	30503318	+	G	G
11	4870163	4870163	+	G	G

11	123777273	123777273	+	G	G
14	103404727	103404727	+	C	C
12	68553470	68553470	+	T	T
8	100791183	100791183	+	T	T
14	107283043	107283043	+	C	C
19	55264019	55264019	+	G	G
12	109959286	109959286	+	C	C
1	9005979	9005979	+	C	C
12	13028826	13028826	+	G	G
5	55083794	55083794	+	C	C
17	34266316	34266316	+	G	G
20	31606606	31606606	+	A	A
6	31085232	31085232	+	G	G
9	37020793	37020793	+	C	C
8	8176141	8176141	+	G	G
17	57139957	57139957	+	C	C
15	52497392	52497392	+	G	G
7	117864899	117864899	+	C	C
8	113349934	113349934	+	G	G
1	38227392	38227392	+	C	C
14	107282742	107282742	+	C	C
9	26905462	26905462	+	G	G
6	30954557	30954557	+	C	C
11	119155913	119155913	+	C	C
1	158263252	158263252	+	C	C
15	78473220	78473220	+	C	C
X	16761838	16761838	+	C	C
15	28519503	28519503	+	G	G
3	32933261	32933261	+	C	C
17	38027758	38027758	+	G	G
8	24339764	24339764	+	C	C
19	56423529	56423529	+	C	C
14	45501552	45501552	+	C	C
11	62346256	62346256	+	C	C
6	10928651	10928651	+	C	C
11	59596917	59596917	+	C	C
1	148932910	148932910	+	C	C
12	53693654	53693654	+	C	C
12	117723946	117723946	+	G	G
9	139612052	139612052	+	C	C
X	76937587	76937587	+	G	G
1	94543433	94543433	+	C	C
11	6541421	6541421	+	C	C

6	32011584	32011584	+	G	G
7	6791167	6791167	+	G	G
1	89730384	89730384	+	G	G
X	90691004	90691004	+	G	G
7	26400637	26400637	+	G	G
19	46094654	46094654	+	C	C
4	70066181	70066181	+	C	C
6	133849883	133849883	+	G	G
11	5878603	5878603	+	G	G
2	167159672	167159672	+	G	G
X	129201037	129201037	+	C	C
17	28004719	28004719	+	C	C
11	56020156	56020156	+	C	C
X	141290960	141290960	+	C	C
15	82575074	82575074	+	C	C
11	60482586	60482586	+	G	G
15	77450887	77450887	+	G	G
X	3030580	3030580	+	C	C
2	102957264	102957264	+	G	G
17	33475421	33475421	+	C	C
4	83424080	83424080	+	C	C
3	100373797	100373797	+	G	G
5	134079737	134079737	+	C	C
11	116661467	116661467	+	C	C
8	144103025	144103025	+	C	C
X	48624282	48624282	+	C	C
7	47408183	47408183	+	G	G
14	28734231	28734231	+	C	C
X	149613749	149613749	+	T	T
7	86468897	86468897	+	T	T
1	248344088	248344088	+	C	C
18	46287907	46287907	+	C	C
5	148730872	148730872	+	C	C
8	8176547	8176547	+	G	G
5	149460506	149460506	+	C	C
22	37407283	37407283	+	C	C
12	7548998	7548998	+	C	C
1	247751809	247751809	+	C	C
X	75651305	75651305	+	C	C
3	46016834	46016834	+	G	G
5	40835376	40835376	+	C	C
4	20597372	20597372	+	G	G
19	46971680	46971680	+	C	C

19	8563993	8563993	+	G	G
5	140966672	140966672	+	G	G
21	47686098	47686098	+	G	G
1	233297029	233297029	+	G	G
19	9087250	9087250	+	C	C
3	101060555	101060555	+	G	G
1	240071144	240071144	+	G	G
2	233103297	233103297	+	G	G
17	19286593	19286593	+	C	C
12	79685906	79685906	+	A	A
22	20779730	20779730	+	G	G
19	56953336	56953336	+	G	G
5	132736616	132736616	+	G	G
2	99253026	99253026	+	G	G
4	162463778	162463778	+	C	C
1	207646137	207646137	+	C	C
19	46324727	46324727	+	G	G
8	69015872	69015872	+	C	C
X	153421981	153421981	+	C	C
X	64743994	64743994	+	G	G
7	143826368	143826368	+	C	C
12	101493391	101493391	+	G	G
GL000209.1	62479	62479	+	C	C
4	126370525	126370525	+	C	C
19	43382168	43382168	+	G	G
5	140501969	140501969	+	C	C
11	1025255	1025255	+	G	G
11	61563659	61563659	+	C	C
X	129543258	129543258	+	C	C
5	169141077	169141077	+	C	C
12	49438604	49438604	+	G	G
10	102054398	102054398	+	C	C
16	55613057	55613057	+	G	G
X	45011085	45011085	+	C	C
5	60083201	60083201	+	C	C
17	41008646	41008646	+	G	G
11	48328011	48328011	+	G	G
5	140168122	140168122	+	G	G
16	84271078	84271078	+	G	G
20	56140497	56140497	+	G	G
8	114449213	114449213	+	A	A
1	64624681	64624681	+	G	G
16	2331421	2331421	+	G	G

14	91360716	91360716	+	G	G
1	171080110	171080110	+	G	G
18	70417524	70417524	+	G	G
19	44222808	44222808	+	C	C
16	57762381	57762381	+	C	C
19	9730212	9730212	+	G	G
12	117653054	117653054	+	G	G
17	48543138	48543138	+	C	C
X	140994718	140994718	+	C	C
17	43545886	43545886	+	G	G
1	247588792	247588792	+	T	T
X	148072986	148072986	+	C	C
8	66988935	66988935	+	G	G
20	58533729	58533729	+	T	T
11	64622827	64622827	+	G	G
3	38753690	38753690	+	C	C
14	99642195	99642195	+	G	G
10	124594356	124594356	+	C	C
22	42071009	42071009	+	G	G
11	124765445	124765445	+	C	C
10	135369475	135369475	+	C	C
8	24251586	24251586	+	C	C
7	49815075	49815075	+	C	C
7	143141025	143141025	+	C	C
5	140719626	140719626	+	G	G
2	241979818	241979818	+	C	C
17	65052260	65052260	+	C	C
2	120362452	120362452	+	G	G
7	86394382	86394382	+	C	C
20	31984683	31984683	+	G	G
X	26178726	26178726	+	G	G
19	30503317	30503317	+	G	G
11	7960482	7960482	+	C	C
X	20030497	20030497	+	G	G
7	143806907	143806907	+	C	C
5	54405879	54405879	+	G	G
14	100847559	100847559	+	G	G
1	157737182	157737182	+	A	A
6	100841642	100841642	+	C	C
1	190067047	190067047	+	A	A
5	111066441	111066441	+	G	G
7	30963619	30963619	+	C	C
3	94890879	94890879	+	G	G

11	69978139	69978139	+	C	C
14	22466423	22466423	+	G	G
3	141499626	141499626	+	G	G
X	117819749	117819749	+	C	C
15	56161812	56161812	+	C	C
11	62010926	62010926	+	G	G
19	22939902	22939902	+	G	G
7	142881017	142881017	+	C	C
8	30560613	30560613	+	G	G
5	125939611	125939611	+	C	C
12	49438547	49438547	+	T	T
19	50781380	50781380	+	C	C
6	43413390	43413390	+	C	C
19	57328712	57328712	+	A	A
20	23804595	23804595	+	G	G
15	86125067	86125067	+	G	G
20	57829203	57829203	+	C	C
1	17557156	17557156	+	C	C
3	27243959	27243959	+	G	G
2	238275493	238275493	+	C	C
3	38739262	38739262	+	C	C
2	53943748	53943748	+	C	C
20	33421668	33421668	+	C	C
11	55579753	55579753	+	G	G
X	154158405	154158405	+	C	C
3	58107181	58107181	+	C	C
6	35765003	35765003	+	G	G
17	27066181	27066181	+	C	C
20	61511886	61511886	+	G	G
12	58135900	58135900	+	G	G
12	111336789	111336789	+	G	G
9	5923250	5923250	+	C	C
19	44590019	44590019	+	C	C
20	6075618	6075618	+	G	G
13	46357876	46357876	+	G	G
4	3451122	3451122	+	C	C
5	150946028	150946028	+	G	G
6	7986876	7986876	+	C	C
3	156742614	156742614	+	C	C
11	99715682	99715682	+	C	C
5	140725839	140725839	+	C	C
10	96535151	96535151	+	C	C
13	19412905	19412905	+	C	C

7	137792285	137792285	+	C	C
X	43628641	43628641	+	C	C
4	54231417	54231417	+	C	C
10	134648242	134648242	+	G	G
10	27692213	27692213	+	C	C
19	57347428	57347428	+	C	C
2	65540553	65540553	+	G	G
1	32829725	32829725	+	G	G
1	120336884	120336884	+	C	C
5	79031036	79031036	+	G	G
X	151092640	151092640	+	G	G
18	46287906	46287906	+	C	C
15	40849599	40849599	+	G	G
21	41684075	41684075	+	C	C
5	135228075	135228075	+	C	C
8	38275843	38275843	+	G	G
20	44171421	44171421	+	G	G
11	26552866	26552866	+	C	C
22	24659631	24659631	+	C	C
20	36149667	36149667	+	G	G
1	159683518	159683518	+	C	C
8	110451278	110451278	+	G	G
19	52380602	52380602	+	G	G
19	35523480	35523480	+	C	C
19	51378101	51378101	+	C	C
17	21904069	21904069	+	C	C
3	160219827	160219827	+	T	T
9	38572148	38572148	+	G	G
6	30569825	30569825	+	G	G
22	26159258	26159258	+	C	C
X	48549500	48549500	+	G	G
3	10291172	10291172	+	C	C
7	82543856	82543856	+	C	C
2	217285175	217285175	+	C	C
12	51685417	51685417	+	G	G
1	21903031	21903031	+	G	G
X	150349217	150349217	+	C	C
8	134225385	134225385	+	A	A
X	50053282	50053282	+	G	G
4	170506613	170506613	+	G	G
14	88892740	88892740	+	C	C
15	86125068	86125068	+	G	G
8	57219300	57219300	+	C	C

19	55539230	55539230	+	C	C
14	24550480	24550480	+	G	G
8	1857634	1857634	+	C	C
2	230253045	230253045	+	C	C
12	117693816	117693816	+	G	G
11	5776828	5776828	+	A	A
16	88722587	88722587	+	C	C
6	55922540	55922540	+	G	G
3	124053179	124053179	+	C	C
1	75037844	75037844	+	C	C
3	186370300	186370300	+	C	C
8	3205626	3205626	+	G	G
15	79059325	79059325	+	G	G
2	26698245	26698245	+	G	G
1	97658630	97658630	+	C	C
17	37296082	37296082	+	T	T
17	28935502	28935502	+	C	C
16	29675376	29675376	+	C	C
2	208986386	208986386	+	G	G
6	29797630	29797630	+	C	C
3	27243960	27243960	+	G	G
X	65242288	65242288	+	G	G
3	1415299	1415299	+	C	C
18	12985328	12985328	+	C	C
7	35131475	35131475	+	C	C
11	40136550	40136550	+	G	G
2	228855721	228855721	+	C	C
7	21640450	21640450	+	C	C
4	146823822	146823822	+	A	A
19	51958791	51958791	+	C	C
5	140616151	140616151	+	G	G
5	50689502	50689502	+	G	G
15	40558176	40558176	+	C	C
1	248487200	248487200	+	G	G
7	141800646	141800646	+	G	G
1	57257937	57257937	+	C	C
14	22133545	22133545	+	G	G
19	44571056	44571056	+	C	C
12	57850114	57850114	+	G	G
14	88945590	88945590	+	G	G
3	120840543	120840543	+	G	G
13	19446001	19446001	+	C	C
19	15740024	15740024	+	C	C



3	78706364	78706364	+	G	G
19	15533857	15533857	+	G	G
14	33293441	33293441	+	C	C
3	107492090	107492090	+	C	C
1	179989839	179989839	+	C	C
19	46288868	46288868	+	G	G
17	7919277	7919277	+	G	G
17	40331011	40331011	+	G	G
10	7679269	7679269	+	G	G
4	1955227	1955227	+	C	C
11	66307007	66307007	+	G	G
19	54756712	54756712	+	G	G
10	103989028	103989028	+	G	G
1	208217971	208217971	+	G	G
14	73029176	73029176	+	C	C
1	44064546	44064546	+	C	C
14	73637581	73637581	+	C	C
19	8841668	8841668	+	C	C
15	88423639	88423639	+	G	G
11	19247100	19247100	+	G	G
11	35547177	35547177	+	G	G
2	165950892	165950892	+	G	G
5	16067717	16067717	+	G	G
X	149613748	149613748	+	C	C
1	151752487	151752487	+	C	C
20	47251245	47251245	+	G	G
21	46311902	46311902	+	G	G
7	139529184	139529184	+	G	G
X	35959422	35959422	+	G	G
9	131219678	131219678	+	C	C
13	38320331	38320331	+	C	C
6	84302205	84302205	+	C	C
3	128614229	128614229	+	C	C
6	14133980	14133980	+	C	C
7	82580288	82580288	+	C	C
10	97447109	97447109	+	C	C
8	103231067	103231067	+	G	G
5	135188396	135188396	+	C	C
4	115767076	115767076	+	G	G
2	160994623	160994623	+	G	G
1	19186116	19186116	+	G	G
14	22133546	22133546	+	G	G
9	7165282	7165282	+	C	C

21	38114030	38114030	+	G	G
5	175775026	175775026	+	G	G
19	56321627	56321627	+	G	G
X	154528175	154528175	+	G	G
20	40790114	40790114	+	C	C
2	154801151	154801151	+	G	G
20	42635336	42635336	+	C	C
1	119958175	119958175	+	G	G
5	177419847	177419847	+	C	C
8	107704977	107704977	+	G	G
7	148801468	148801468	+	G	G
19	14862447	14862447	+	G	G
6	47573929	47573929	+	C	C
1	6533148	6533148	+	G	G
6	44254163	44254163	+	C	C
11	20639411	20639411	+	G	G
X	153668540	153668540	+	C	C
13	36050146	36050146	+	C	C
18	31319943	31319943	+	G	G
19	53794449	53794449	+	G	G
5	106763133	106763133	+	G	G
8	69027999	69027999	+	C	C
20	20507015	20507015	+	G	G
20	42788638	42788638	+	G	G
16	81914520	81914520	+	C	C
11	44096165	44096165	+	C	C
14	88892739	88892739	+	C	C
1	179620195	179620195	+	C	C
12	68595656	68595656	+	C	C
15	65411793	65411793	+	G	G
11	92088255	92088255	+	C	C
17	40034384	40034384	+	G	G
17	61499060	61499060	+	C	C
20	644568	644568	+	G	G
17	66123889	66123889	+	C	C
14	24546695	24546695	+	G	G
9	130507248	130507248	+	C	C
3	81635264	81635264	+	T	T
22	32464588	32464588	+	G	G
11	55905118	55905118	+	G	G
6	41119121	41119121	+	C	C
11	62747008	62747008	+	A	A
12	14018855	14018855	+	C	C

11	408206	408206	+	C	C
11	30925127	30925127	+	C	C
10	28343026	28343026	+	G	G
X	98974606	98974606	+	C	C
11	2426063	2426063	+	G	G
12	11463299	11463299	+	C	C
15	78208247	78208247	+	C	C
X	17742473	17742473	+	C	C
14	23535183	23535183	+	G	G
5	161524774	161524774	+	G	G
1	228033751	228033751	+	C	C
14	51464688	51464688	+	G	G
19	58198755	58198755	+	C	C
2	11924080	11924080	+	C	C
20	61511885	61511885	+	G	G
2	21231599	21231599	+	G	G
11	62748537	62748537	+	C	C
14	91647605	91647605	+	G	G
X	48887472	48887472	+	C	C
X	46466468	46466468	+	C	C
19	45895184	45895184	+	G	G
3	138453641	138453641	+	G	G
2	187625846	187625846	+	G	G
12	56143332	56143332	+	G	G
22	38120665	38120665	+	C	C
1	156756833	156756833	+	C	C
9	27228299	27228299	+	G	G
19	42090784	42090784	+	G	G
11	67074517	67074517	+	C	C
3	183960269	183960269	+	G	G
17	40474405	40474405	+	G	G
15	62259574	62259574	+	T	T
20	33329299	33329299	+	G	G
1	152279679	152279679	+	C	C
2	231624703	231624703	+	C	C
3	160804406	160804406	+	C	C
8	132002765	132002765	+	G	G
12	113446996	113446996	+	C	C
9	35092242	35092242	+	G	G
6	32147848	32147848	+	C	C
1	72058631	72058631	+	C	C
17	72926993	72926993	+	C	C
4	138442795	138442795	+	C	C

14	20215754	20215754	+	C	C
1	52850291	52850291	+	G	G
X	29973609	29973609	+	C	C
19	10419324	10419324	+	G	G
12	68642487	68642487	+	C	C
14	100847560	100847560	+	G	G
1	152193489	152193489	+	C	C
2	192141676	192141676	+	G	G
1	18809200	18809200	+	G	G
8	21926978	21926978	+	C	C
17	44143994	44143994	+	C	C
1	57480821	57480821	+	C	C
14	55836368	55836368	+	G	G
14	39560901	39560901	+	G	G
11	70319087	70319087	+	C	C
4	155241861	155241861	+	G	G
15	22473327	22473327	+	G	G
5	63256524	63256524	+	C	C
1	230927615	230927615	+	G	G
10	124036429	124036429	+	G	G
19	22575616	22575616	+	C	C
9	19316661	19316661	+	C	C
8	1617909	1617909	+	G	G
17	38859914	38859914	+	C	C
12	48723350	48723350	+	G	G
18	50734090	50734090	+	G	G
5	140790173	140790173	+	G	G
20	9402103	9402103	+	C	C
19	57647323	57647323	+	G	G
14	23901905	23901905	+	C	C
11	69978065	69978065	+	C	C
14	95080648	95080648	+	G	G
6	26452373	26452373	+	C	C
19	37643507	37643507	+	G	G
5	114604633	114604633	+	C	C
14	81606152	81606152	+	G	G
X	142717718	142717718	+	G	G
20	47740972	47740972	+	G	G
19	43406388	43406388	+	C	C
16	71423848	71423848	+	C	C
2	26624884	26624884	+	C	C
19	45297510	45297510	+	G	G
19	44636534	44636534	+	C	C

3	53700370	53700370	+	C	C
22	31536269	31536269	+	G	G
1	110754689	110754689	+	G	G
2	108476242	108476242	+	G	G
9	87285584	87285584	+	G	G
5	171520876	171520876	+	G	G
X	47307688	47307688	+	G	G
5	54405878	54405878	+	G	G
3	71027021	71027021	+	G	G
12	70194015	70194015	+	C	C
13	67800395	67800395	+	G	G
12	130898839	130898839	+	C	C
7	48081080	48081080	+	G	G
1	181767531	181767531	+	C	C
17	1264456	1264456	+	G	G
1	22903088	22903088	+	G	G
19	51958792	51958792	+	C	C
1	172434496	172434496	+	C	C
7	23300310	23300310	+	C	C
4	619464	619464	+	G	G
X	117043814	117043814	+	C	C
11	1025254	1025254	+	G	G
8	30695560	30695560	+	G	G
13	111532051	111532051	+	G	G
X	139038210	139038210	+	G	G
19	51519180	51519180	+	G	G
1	52850292	52850292	+	G	G
14	96157767	96157767	+	C	C
1	153122339	153122339	+	C	C
9	121930136	121930136	+	G	G
7	6426892	6426892	+	C	C
1	158812187	158812187	+	C	C
19	54760372	54760372	+	G	G
9	128723126	128723126	+	C	C
5	140784766	140784766	+	C	C
11	40136033	40136033	+	G	G
9	27949670	27949670	+	C	C
19	19452151	19452151	+	C	C
10	95791079	95791079	+	G	G
2	131976449	131976449	+	C	C
5	147550526	147550526	+	G	G
20	57288652	57288652	+	C	C
14	99642196	99642196	+	T	T

X	9864382	9864382	+	C	C
3	127396327	127396327	+	C	C
8	17157280	17157280	+	C	C
13	25670494	25670494	+	A	A
2	168098307	168098307	+	G	G
5	54275124	54275124	+	G	G
14	42360781	42360781	+	C	C
22	42128254	42128254	+	G	G
17	68172062	68172062	+	C	C
5	150275724	150275724	+	C	C
4	76711919	76711919	+	C	C
10	133951677	133951677	+	C	C
1	236920824	236920824	+	C	C
18	13884818	13884818	+	G	G
11	118128001	118128001	+	C	C
1	19500054	19500054	+	G	G
22	45309713	45309713	+	C	C
12	109660629	109660629	+	C	C
11	55419045	55419045	+	C	C
X	142596850	142596850	+	G	G
1	6291992	6291992	+	G	G
11	4967524	4967524	+	G	G
6	161143527	161143527	+	G	G
15	23811089	23811089	+	G	G
13	95715085	95715085	+	C	C
9	15019674	15019674	+	T	T
1	183909906	183909906	+	C	C
15	83350318	83350318	+	C	C
10	34759087	34759087	+	G	G
3	140251235	140251235	+	G	G
10	15649678	15649678	+	G	G
5	140255881	140255881	+	G	G
16	71218876	71218876	+	G	G
6	102503255	102503255	+	G	G
7	86394322	86394322	+	G	G
15	42742013	42742013	+	C	C
X	128699854	128699854	+	C	C
2	60688824	60688824	+	T	T
12	29649154	29649154	+	G	G
11	55890648	55890648	+	C	C
6	56483106	56483106	+	G	G
5	150946163	150946163	+	G	G
19	20728615	20728615	+	C	C

1	245704144	245704144	+	G	G
22	26688383	26688383	+	G	G
18	21095940	21095940	+	C	C
19	49398260	49398260	+	C	C
8	39564399	39564399	+	G	G
11	5878226	5878226	+	C	C
16	2345683	2345683	+	G	G
7	100371396	100371396	+	C	C
10	32873160	32873160	+	G	G
19	54080544	54080544	+	G	G
3	170736366	170736366	+	G	G
X	151303796	151303796	+	G	G
2	54081323	54081323	+	G	G
4	175897324	175897324	+	G	G
11	55905119	55905119	+	G	G
16	20787196	20787196	+	G	G
2	179480434	179480434	+	G	G
2	88387502	88387502	+	G	G
1	204587102	204587102	+	G	G
1	75038333	75038333	+	C	C
11	99715862	99715862	+	C	C
4	177063141	177063141	+	C	C
1	176734926	176734926	+	G	G
2	241737220	241737220	+	G	G
X	47307689	47307689	+	G	G
X	131261990	131261990	+	C	C
X	36162768	36162768	+	C	C
1	66064414	66064414	+	G	G
X	15582236	15582236	+	G	G
17	36485568	36485568	+	C	C
11	10521638	10521638	+	G	G
3	196210728	196210728	+	G	G
1	12025624	12025624	+	C	C
12	112631422	112631422	+	G	G
14	106586378	106586378	+	G	G
1	20991142	20991142	+	C	C
2	168102607	168102607	+	G	G
1	95492713	95492713	+	G	G
7	103848331	103848331	+	C	C
17	45198225	45198225	+	G	G
2	207170180	207170180	+	C	C
16	49672302	49672302	+	G	G
12	52283117	52283117	+	C	C

16	16127022	16127022	+	C	C
4	71201163	71201163	+	C	C
19	15559029	15559029	+	G	G
6	145157493	145157493	+	C	C
11	7110409	7110409	+	G	G
X	13754690	13754690	+	C	C
19	39098776	39098776	+	C	C
12	8375340	8375340	+	C	C
2	26697525	26697525	+	C	C
15	48431203	48431203	+	A	A
6	30075941	30075941	+	C	C
1	176915171	176915171	+	C	C
12	121469315	121469315	+	C	C
19	48558264	48558264	+	G	G
4	164534483	164534483	+	G	G
17	58120986	58120986	+	G	G
12	14769624	14769624	+	G	G
5	13829733	13829733	+	G	G
9	138670666	138670666	+	C	C
14	107170229	107170229	+	T	T
X	101768900	101768900	+	G	G
3	48896996	48896996	+	C	C
2	136594164	136594164	+	G	G
3	48641051	48641051	+	C	C
X	135469904	135469904	+	C	C
12	100934521	100934521	+	C	C
22	20779729	20779729	+	G	G
5	26881162	26881162	+	C	C
22	30899711	30899711	+	G	G
1	115222915	115222915	+	C	C
13	52544773	52544773	+	G	G
X	79698201	79698201	+	G	G
7	142459685	142459685	+	C	C
9	123280883	123280883	+	G	G
5	125939612	125939612	+	C	C
1	2938820	2938820	+	G	G
7	107707034	107707034	+	G	G
X	73963233	73963233	+	C	C
1	163295914	163295914	+	G	G
19	2410308	2410308	+	A	A
19	22940120	22940120	+	C	C
11	58189863	58189863	+	C	C
9	32408601	32408601	+	C	C



16	67039245	67039245	+	C	C
19	55174479	55174479	+	A	A
4	155161823	155161823	+	C	C
6	55406584	55406584	+	T	T
19	42753117	42753117	+	G	G
1	114450727	114450727	+	C	C
19	43866460	43866460	+	C	C
1	201869369	201869369	+	C	C
2	74274689	74274689	+	C	C
15	25472310	25472310	+	C	C
17	66880519	66880519	+	A	A
X	151128115	151128115	+	C	C
15	53997325	53997325	+	C	C
19	56466547	56466547	+	G	G
12	85441268	85441268	+	C	C
1	158596653	158596653	+	C	C
6	93967183	93967183	+	G	G
15	84685134	84685134	+	G	G
12	70980810	70980810	+	G	G
1	27876446	27876446	+	G	G
3	77607238	77607238	+	C	C
15	88690584	88690584	+	G	G
17	44143995	44143995	+	C	C
4	128689927	128689927	+	G	G
1	240979637	240979637	+	C	C
14	70634239	70634239	+	G	G
14	94780441	94780441	+	A	A
21	19685341	19685341	+	G	G
15	89400796	89400796	+	C	C
8	88297006	88297006	+	T	T
8	67803130	67803130	+	C	C
11	4869859	4869859	+	G	G
8	52336259	52336259	+	G	G
18	23866416	23866416	+	C	C
10	32873159	32873159	+	G	G
13	20356694	20356694	+	C	C
17	71429946	71429946	+	C	C
19	3821369	3821369	+	C	C
8	86126960	86126960	+	T	T
12	124416189	124416189	+	C	C
22	26348362	26348362	+	C	C
11	43941493	43941493	+	C	C
5	176026077	176026077	+	G	G

22	32464587	32464587	+	G	G
12	123497177	123497177	+	T	T
19	48542572	48542572	+	C	C
9	117552595	117552595	+	C	C
19	17476764	17476764	+	C	C
14	91779982	91779982	+	C	C
20	46318973	46318973	+	G	G
19	42599596	42599596	+	C	C
1	207758042	207758042	+	G	G
11	93821963	93821963	+	G	G
5	140248851	140248851	+	G	G
3	185167746	185167746	+	G	G
22	50564678	50564678	+	G	G
15	45724289	45724289	+	C	C
11	4869801	4869801	+	G	G
3	72897546	72897546	+	C	C
18	5394706	5394706	+	G	G
8	17927368	17927368	+	G	G
4	69416525	69416525	+	G	G
5	169688049	169688049	+	C	C
16	22926885	22926885	+	C	C
19	51742880	51742880	+	C	C
17	73484890	73484890	+	C	C
X	135427924	135427924	+	C	C
22	45804663	45804663	+	A	A
19	2217897	2217897	+	C	C
14	64453266	64453266	+	C	C
22	39499917	39499917	+	C	C
3	183017793	183017793	+	C	C
8	2857481	2857481	+	G	G
16	70889125	70889125	+	C	C
6	165956962	165956962	+	C	C
X	77244189	77244189	+	G	G
1	24673048	24673048	+	C	C
3	141499263	141499263	+	G	G
X	149013978	149013978	+	C	C
22	19905702	19905702	+	G	G
3	46414496	46414496	+	C	C
X	152825307	152825307	+	C	C
19	55697687	55697687	+	G	G
21	27074522	27074522	+	C	C
20	44752046	44752046	+	T	T
11	55595330	55595330	+	G	G

X	39914747	39914747	+	C	C
12	130831107	130831107	+	T	T
19	42221411	42221411	+	C	C
4	125590767	125590767	+	G	G
17	45198226	45198226	+	A	A
X	47774326	47774326	+	G	G
12	21998550	21998550	+	C	C
3	124132471	124132471	+	G	G
6	16328081	16328081	+	G	G
6	38851157	38851157	+	G	G
17	34325917	34325917	+	G	G
3	38892230	38892230	+	C	C
5	161300162	161300162	+	G	G
4	164393234	164393234	+	G	G
11	22391708	22391708	+	G	G
2	210559070	210559070	+	C	C
19	2987877	2987877	+	C	C
1	196658599	196658599	+	G	G
6	31839150	31839150	+	G	G
17	4619834	4619834	+	G	G
4	164507062	164507062	+	C	C
11	6942515	6942515	+	C	C
12	121458294	121458294	+	G	G
GL000194.1	68376	68376	+	T	T
4	40427850	40427850	+	C	C
19	58198756	58198756	+	C	C
X	53561550	53561550	+	C	C
9	131017033	131017033	+	C	C
2	168104310	168104310	+	G	G
15	72533754	72533754	+	G	G
9	21971208	21971208	+	C	C
16	20871519	20871519	+	G	G
X	105153320	105153320	+	G	G
16	29989164	29989164	+	C	C
6	38854699	38854699	+	G	G
17	34266317	34266317	+	G	G
2	37247962	37247963	+	-	-
4	4389474	4389475	+	CC	CC
16	88783583	88783585	+	TCT	TCT
10	48428831	48428831	+	G	G
18	21399917	21399917	+	C	C
19	17439007	17439007	+	G	G
16	31138346	31138346	+	C	C

2	230312108	230312108	+	G	G
6	30656578	30656578	+	G	G
15	83926276	83926276	+	G	G
X	36337340	36337340	+	G	G
9	136037855	136037855	+	G	G
3	122634365	122634365	+	C	C
4	162508606	162508606	+	C	C
4	74354424	74354424	+	C	C
2	141625798	141625798	+	G	G
2	208420371	208420371	+	A	A
2	201436786	201436786	+	C	C
3	138038368	138038368	+	G	G
1	211093130	211093130	+	C	C
2	179499093	179499093	+	C	C
6	35090046	35090046	+	C	C
12	76454036	76454036	+	C	C
1	144951880	144951880	+	A	A
10	27702750	27702750	+	C	C
5	96222452	96222452	+	G	G
GL000193.1	88225	88225	+	C	C
X	11777904	11777904	+	C	C
6	109837155	109837155	+	C	C
17	45368517	45368517	+	C	C
16	30679940	30679940	+	G	G
4	47788782	47788782	+	C	C
16	69170747	69170747	+	C	C
17	62079400	62079400	+	C	C
2	155711814	155711814	+	C	C
6	41303633	41303633	+	C	C
3	189586498	189586498	+	G	G
5	145887490	145887490	+	C	C
12	15103593	15103593	+	C	C
11	85606413	85606413	+	G	G
14	73959829	73959829	+	C	C
19	42572969	42572969	+	C	C
1	115256529	115256529	+	T	T
1	68942736	68942736	+	G	G
16	56717262	56717262	+	T	T
6	66205297	66205297	+	C	C
13	36905617	36905617	+	G	G
6	131211473	131211473	+	G	G
2	108872141	108872141	+	C	C
9	77415308	77415308	+	C	C

8	94935361	94935361	+	C	C
1	233515161	233515161	+	C	C
X	122488800	122488800	+	A	A
19	49990691	49990691	+	G	G
5	150578581	150578581	+	C	C
8	8750259	8750259	+	G	G
14	23282239	23282239	+	G	G
18	2891900	2891900	+	G	G
8	56362621	56362621	+	G	G
3	186952892	186952892	+	C	C
19	9451824	9451824	+	T	T
GL000237.1	2524	2524	+	C	C
5	52235520	52235520	+	T	T
9	99154642	99154642	+	G	G
21	34924689	34924689	+	C	C
21	46925294	46925294	+	G	G
2	155711487	155711487	+	G	G
14	23345917	23345917	+	C	C
6	133852346	133852346	+	G	G
7	30791819	30791819	+	G	G
19	51378153	51378153	+	G	G
7	151842314	151842314	+	G	G
12	69233139	69233139	+	G	G
4	843386	843386	+	C	C
13	46942194	46942194	+	G	G
1	3331153	3331153	+	C	C
1	180905453	180905453	+	C	C
8	118817132	118817132	+	T	T
3	97251245	97251245	+	G	G
10	50341868	50341868	+	C	C
15	60741091	60741091	+	C	C
5	156346491	156346491	+	C	C
5	26885885	26885885	+	C	C
10	85979118	85979118	+	C	C
13	39264959	39264959	+	G	G
7	64313564	64313564	+	C	C
8	125463829	125463829	+	A	A
15	89760520	89760520	+	C	C
2	48906497	48906497	+	G	G
2	128918798	128918798	+	G	G
19	35487003	35487003	+	C	C
12	57406628	57406628	+	C	C
3	121975937	121975937	+	C	C

10	27702751	27702751	+	C	C
19	45997537	45997537	+	G	G
1	24069886	24069886	+	G	G
1	152060521	152060521	+	C	C
11	93088595	93088595	+	A	A
12	56815964	56815964	+	C	C
4	120243201	120243201	+	C	C
5	1034925	1034925	+	C	C
7	1532653	1532653	+	G	G
19	5131443	5131443	+	G	G
14	105833689	105833689	+	C	C
12	81657102	81657102	+	C	C
14	92278808	92278808	+	G	G
19	2341445	2341445	+	G	G
1	19166824	19166824	+	G	G
4	4304720	4304720	+	C	C
13	114795364	114795364	+	C	C
8	30915896	30915896	+	C	C
1	110884796	110884796	+	C	C
21	47404354	47404354	+	C	C
9	102590768	102590768	+	C	C
2	167300157	167300157	+	C	C
3	48342794	48342794	+	C	C
2	130877756	130877756	+	C	C
19	22939275	22939275	+	G	G
6	116443093	116443093	+	A	A
16	28164027	28164027	+	G	G
19	9089725	9089725	+	C	C
9	37708395	37708395	+	G	G
X	88008602	88008602	+	G	G
21	10998223	10998223	+	C	C
3	125833507	125833507	+	G	G
1	240963943	240963943	+	C	C
19	621228	621228	+	G	G
5	140603429	140603429	+	C	C
16	3778428	3778428	+	T	T
9	35717211	35717211	+	C	C
1	203144766	203144766	+	T	T
3	50329972	50329972	+	C	C
2	28032889	28032889	+	C	C
X	20068944	20068944	+	G	G
4	84516073	84516073	+	G	G
3	38104198	38104198	+	C	C

11	64702884	64702884	+	C	C
2	91843442	91843442	+	C	C
12	55820947	55820947	+	A	A
19	50666012	50666012	+	C	C
8	32579560	32579560	+	G	G
6	29054567	29054567	+	G	G
6	7229512	7229512	+	C	C
19	17937433	17937433	+	G	G
1	27632899	27632899	+	C	C
22	50942044	50942044	+	C	C
1	170695498	170695498	+	G	G
1	248616379	248616379	+	C	C
2	171509556	171509556	+	C	C
12	11546821	11546821	+	C	C
19	38931399	38931399	+	C	C
16	31804701	31804701	+	C	C
6	33414432	33414432	+	G	G
11	47711663	47711663	+	G	G
16	31414912	31414912	+	C	C
17	39643856	39643856	+	C	C
2	90259809	90259809	+	C	C
1	8390678	8390678	+	C	C
16	15917169	15917169	+	C	C
5	153181915	153181915	+	G	G
2	231775426	231775426	+	G	G
4	53611041	53611041	+	C	C
17	72845936	72845936	+	G	G
9	33933598	33933598	+	G	G
16	14041719	14041719	+	G	G
6	117150041	117150041	+	C	C
9	14819310	14819310	+	C	C
2	179449961	179449961	+	C	C
12	104067690	104067690	+	C	C
14	20482700	20482700	+	G	G
14	89168868	89168868	+	C	C
6	167796411	167796411	+	G	G
16	9857225	9857225	+	T	T
3	195452999	195452999	+	G	G
8	121644849	121644849	+	G	G
5	101755647	101755647	+	T	T
19	37487531	37487531	+	C	C
17	79503280	79503280	+	C	C
8	121220545	121220545	+	C	C

16	88504765	88504765	+	C	C
2	128628433	128628433	+	G	G
7	128767354	128767354	+	C	C
6	84894912	84894912	+	C	C
21	33974109	33974109	+	A	A
15	50545846	50545846	+	C	C
10	27485237	27485237	+	G	G
11	119058816	119058816	+	C	C
6	37186465	37186465	+	G	G
8	124243565	124243565	+	C	C
16	2103880	2103880	+	C	C
1	120345730	120345730	+	A	A
22	29130403	29130403	+	A	A
3	142740219	142740219	+	C	C
7	75616919	75616919	+	C	C
10	103531279	103531279	+	G	G
1	207073649	207073649	+	G	G
5	157053532	157053532	+	C	C
17	7163704	7163704	+	C	C
3	123688996	123688996	+	C	C
3	112256650	112256650	+	A	A
19	48989011	48989011	+	G	G
8	24811284	24811284	+	G	G
1	200971403	200971403	+	C	C
5	161494884	161494884	+	G	G
4	120240779	120240779	+	C	C
14	107048754	107048754	+	G	G
12	109862629	109862629	+	C	C
4	68829130	68829130	+	G	G
19	15728935	15728935	+	G	G
12	126138367	126138367	+	G	G
13	21742369	21742369	+	G	G
1	204413267	204413267	+	C	C
12	57864840	57864840	+	C	C
7	137206667	137206667	+	G	G
5	19838965	19838965	+	T	T
2	239040365	239040365	+	G	G
14	51371997	51371997	+	C	C
7	64313565	64313565	+	C	C
6	161173948	161173948	+	C	C
3	11300689	11300689	+	G	G
8	41559594	41559594	+	G	G
15	56208059	56208059	+	T	T



1	216420452	216420452	+	G	G
16	61851407	61851407	+	G	G
11	73957087	73957087	+	C	C
10	121662332	121662332	+	C	C
14	23345916	23345916	+	C	C
8	27358478	27358478	+	C	C
8	59058798	59058798	+	G	G
2	182363336	182363336	+	C	C
17	3593633	3593633	+	C	C
19	49003040	49003040	+	C	C
18	21166471	21166471	+	G	G
20	45015986	45015986	+	A	A
9	138657522	138657522	+	G	G
3	186274316	186274316	+	G	G
19	55146138	55146138	+	C	C
8	133099982	133099982	+	C	C
18	13029677	13029677	+	G	G
9	86586990	86586990	+	G	G
19	11527273	11527273	+	G	G
5	123977033	123977033	+	G	G
5	41049454	41049454	+	G	G
10	91074341	91074341	+	C	C
19	50548197	50548197	+	A	A
16	10574766	10574766	+	C	C
15	98512364	98512364	+	C	C
6	7580345	7580345	+	C	C
2	189599304	189599304	+	G	G
2	98376210	98376210	+	G	G
9	114304612	114304612	+	C	C
17	77016122	77016122	+	C	C
20	44803494	44803494	+	C	C
12	124317676	124317676	+	C	C
19	57909974	57909974	+	C	C
4	152570820	152570820	+	G	G
5	140730602	140730602	+	C	C
1	248637005	248637005	+	C	C
8	68864832	68864832	+	G	G
X	70367828	70367828	+	C	C
15	101813031	101813031	+	C	C
1	186275525	186275525	+	G	G
12	104063394	104063394	+	G	G
11	5364723	5364723	+	A	A
X	41204449	41204449	+	G	G

17	41020525	41020525	+	G	G
6	7229511	7229511	+	C	C
3	123688997	123688997	+	C	C
X	36371758	36371758	+	C	C
GL000209.1	71940	71940	+	C	C
1	196928121	196928121	+	A	A
6	65300914	65300914	+	C	C
15	91448654	91448654	+	G	G
1	148932872	148932872	+	G	G
6	37420917	37420917	+	G	G
4	55972898	55972898	+	C	C
X	113961266	113961266	+	G	G
1	214816050	214816050	+	C	C
18	14534903	14534903	+	C	C
6	110734583	110734583	+	C	C
16	72033683	72033683	+	T	T
2	69201712	69201712	+	C	C
3	120347146	120347146	+	C	C
1	25245735	25245735	+	G	G
11	64702885	64702885	+	C	C
12	50047653	50047653	+	G	G
MT	11052	11052	+	T	T
16	82033684	82033684	+	C	C
20	20491916	20491916	+	T	T
9	8492971	8492971	+	G	G
3	119445020	119445020	+	C	C
6	43590442	43590442	+	G	G
12	73014941	73014941	+	A	A
12	109862628	109862628	+	C	C
1	158435659	158435659	+	C	C
6	27293024	27293024	+	C	C
17	7163705	7163705	+	C	C
2	11955270	11955270	+	C	C
2	109526934	109526934	+	G	G
19	58565297	58565297	+	G	G
1	16525691	16525691	+	G	G
19	3805941	3805941	+	G	G
8	8750260	8750260	+	G	G
18	65178340	65178340	+	G	G
2	91969297	91969297	+	G	G
9	35869628	35869628	+	G	G
7	50198827	50198827	+	G	G
10	1779424	1779424	+	C	C

1	176833348	176833348	+	C	C
7	23944009	23944009	+	T	T
5	31323038	31323038	+	G	G
2	141215056	141215056	+	A	A
6	106552989	106552989	+	C	C
19	54972801	54972801	+	A	A
1	151752497	151752497	+	C	C
X	12904184	12904184	+	G	G
7	48313188	48313188	+	C	C
2	145271203	145271203	+	C	C
5	35957439	35957439	+	G	G
19	57324956	57324956	+	G	G
8	2796047	2796047	+	G	G
3	189675573	189675573	+	G	G
4	110834279	110834279	+	C	C
X	86924431	86924431	+	C	C
8	37735090	37735090	+	G	G
12	54496019	54496019	+	G	G
2	130897824	130897824	+	C	C
12	130927065	130927065	+	C	C
7	122809205	122809205	+	C	C
12	21643306	21643306	+	G	G
13	37441408	37441408	+	A	A
19	9075932	9075932	+	C	C
18	67687922	67687922	+	C	C
10	50532546	50532546	+	G	G
6	55264169	55264169	+	G	G
3	182841859	182841859	+	C	C
2	96049906	96049906	+	G	G
3	170625450	170625450	+	C	C
7	38370383	38370383	+	G	G
22	32754105	32754105	+	G	G
2	71650365	71650365	+	G	G
20	35127593	35127593	+	T	T
22	38349678	38349678	+	C	C
20	29633992	29633992	+	A	A
17	67212494	67212494	+	G	G
7	142197742	142197742	+	C	C
4	190876289	190876289	+	G	G
7	44146150	44146150	+	C	C
3	194392940	194392940	+	C	C
2	27551014	27551014	+	C	C
9	126774586	126774586	+	C	C

2	171225744	171225744	+	G	G
5	82406975	82406975	+	A	A
12	57324045	57324045	+	G	G
19	37130263	37130263	+	G	G
1	64669785	64669785	+	G	G
5	137211564	137211564	+	C	C
5	44305163	44305163	+	C	C
3	54872600	54872600	+	G	G
13	31736052	31736052	+	G	G
1	158548734	158548734	+	C	C
15	43574147	43574147	+	C	C
19	56884592	56884592	+	G	G
15	33936518	33936518	+	T	T
19	47440561	47440561	+	C	C
16	15727619	15727619	+	G	G
X	63444249	63444249	+	G	G
5	176011851	176011851	+	G	G
9	79827939	79827939	+	C	C
1	12942997	12942997	+	C	C
17	73322082	73322082	+	G	G
4	62758580	62758580	+	G	G
3	142753780	142753780	+	G	G
6	148050718	148050718	+	G	G
X	144904137	144904137	+	A	A
22	43870683	43870683	+	C	C
1	153122591	153122591	+	C	C
X	138698492	138698492	+	T	T
3	158363451	158363451	+	G	G
1	93309077	93309077	+	C	C
4	94547561	94547561	+	C	C
1	20250083	20250083	+	G	G
12	15103592	15103592	+	C	C
13	41642785	41642785	+	G	G
2	63182717	63182717	+	A	A
19	48989010	48989010	+	G	G
14	22600924	22600924	+	C	C
7	94056938	94056938	+	G	G
7	56174183	56174183	+	G	G
10	115947699	115947699	+	C	C
8	69728180	69728180	+	G	G
2	218935275	218935275	+	C	C
2	231079750	231079750	+	G	G
20	43850512	43850512	+	G	G

12	104309601	104309601	+	G	G
15	79296245	79296245	+	G	G
17	7734018	7734018	+	G	G
19	33572090	33572090	+	G	G
9	14997243	14997243	+	C	C
X	49071892	49071892	+	G	G
1	204129781	204129781	+	C	C
20	60913171	60913171	+	C	C
3	196158957	196158957	+	T	T
3	119367179	119367179	+	G	G
2	228174017	228174017	+	G	G
14	77293009	77293009	+	T	T
17	79096236	79096236	+	T	T
12	6103289	6103289	+	C	C
13	72440090	72440090	+	T	T
3	188933131	188933131	+	G	G
18	19244020	19244020	+	G	G
6	10898308	10898308	+	C	C
15	62539746	62539746	+	C	C
19	55221722	55221722	+	G	G
X	31676156	31676156	+	G	G
7	47979900	47979900	+	G	G
2	209169621	209169621	+	T	T
17	26856211	26856211	+	C	C
2	234638537	234638537	+	G	G
15	78486957	78486957	+	T	T
4	99850219	99850219	+	G	G
6	136582473	136582473	+	C	C
2	141571369	141571369	+	G	G
5	140953145	140953145	+	G	G
14	22251593	22251593	+	C	C
3	113172663	113172663	+	G	G
10	93260365	93260365	+	T	T
X	105451316	105451316	+	G	G
12	124957638	124957638	+	G	G
6	30124761	30124761	+	G	G
9	139982555	139982555	+	G	G
16	10527437	10527437	+	G	G
1	110931937	110931937	+	C	C
3	38812843	38812843	+	C	C
13	42761212	42761212	+	C	C
11	118773233	118773233	+	G	G
19	8127161	8127161	+	G	G

4	85207884	85207884	+	G	G
3	58303837	58303837	+	C	C
2	10822190	10822190	+	G	G
17	66430745	66430745	+	G	G
8	69017512	69017512	+	G	G
3	182841858	182841858	+	C	C
5	140182992	140182992	+	C	C
2	242149907	242149907	+	G	G
22	40066206	40066206	+	G	G
7	102063679	102063679	+	A	A
16	67213371	67213371	+	C	C
12	2743495	2743495	+	C	C
11	55861122	55861122	+	C	C
1	110931943	110931943	+	C	C
17	58740479	58740479	+	C	C
1	6512142	6512142	+	G	G
20	29976852	29976852	+	C	C
2	131976308	131976308	+	G	G
3	47461091	47461091	+	C	C
12	124288248	124288248	+	G	G
3	108076894	108076894	+	C	C
14	23345915	23345915	+	C	C
12	7945593	7945593	+	G	G
17	4442107	4442107	+	T	T
11	73957086	73957086	+	C	C
4	164271891	164271891	+	G	G
1	236925769	236925769	+	C	C
19	56466819	56466819	+	G	G
2	109546655	109546655	+	C	C
16	70989280	70989280	+	G	G
5	180166952	180166952	+	G	G
1	87188304	87188304	+	A	A
6	42231052	42231052	+	C	C
12	49170258	49170258	+	G	G
14	77580482	77580482	+	C	C
6	150346670	150346670	+	C	C
9	125048089	125048089	+	G	G
9	117188532	117188532	+	G	G
20	29625967	29625967	+	G	G
16	3071578	3071578	+	C	C
13	23903498	23903498	+	A	A
21	15663696	15663696	+	G	G
16	71668597	71668597	+	T	T

X	73067292	73067292	+	G	G
4	158233939	158233939	+	G	G
14	20665881	20665881	+	C	C
11	68177417	68177417	+	G	G
1	2440387	2440387	+	C	C
7	119915196	119915196	+	G	G
12	50100868	50100868	+	A	A
19	45731240	45731240	+	G	G
11	6024016	6024016	+	G	G
19	36636727	36636728	+	-	-
2	241622172	241622172	+	A	A
2	163694964	163694964	+	A	A
5	149499063	149499063	+	C	C
17	57181710	57181710	+	G	G
22	18842424	18842424	+	G	G
6	52957231	52957231	+	C	C
2	97869931	97869931	+	A	A
17	39274016	39274016	+	G	G
1	111216246	111216246	+	G	G
22	25024067	25024067	+	C	C
1	15190	15190	+	G	G
5	112177520	112177520	+	A	A
1	16974592	16974592	+	C	C
1	19504070	19504070	+	C	C
3	10974900	10974900	+	G	G
20	61873918	61873918	+	G	G
4	107163639	107163639	+	G	G
19	11624781	11624781	+	G	G
17	78899231	78899231	+	C	C
3	195447805	195447805	+	T	T
8	113697682	113697682	+	T	T
20	36624803	36624803	+	G	G
11	16877444	16877444	+	G	G
20	26084094	26084094	+	T	T
21	41684167	41684167	+	G	G
17	78867626	78867626	+	C	C
17	42293287	42293287	+	C	C
5	112824042	112824042	+	T	T
13	98658520	98658520	+	C	C
17	48828018	48828018	+	A	A
16	69373655	69373655	+	C	C
17	39406130	39406130	+	G	G
9	33795585	33795585	+	T	T

12	122848656	122848656	+	T	T
8	33370995	33370995	+	C	C
8	94935040	94935040	+	G	G
GL000211.1	86122	86122	+	G	G
2	160080800	160080800	+	C	C
4	168155350	168155350	+	T	T
21	35468701	35468701	+	G	G
21	46011562	46011562	+	G	G
4	3948489	3948489	+	A	A
12	92018	92018	+	T	T
7	150763944	150763944	+	G	G
2	89082281	89082281	+	T	T
1	7796570	7796570	+	C	C
1	183253915	183253915	+	C	C
22	18842337	18842337	+	G	G
5	148407024	148407024	+	C	C
7	114270000	114270000	+	G	G
17	76570824	76570824	+	C	C
5	172517483	172517483	+	T	T
19	14887656	14887656	+	G	G
9	68414553	68414553	+	T	T
19	4653077	4653077	+	A	A
14	107062388	107062388	+	C	C
12	6881957	6881957	+	T	T
15	37110216	37110216	+	C	C
1	16961618	16961618	+	C	C
17	78272207	78272207	+	G	G
7	140508745	140508745	+	C	C
1	10132207	10132207	+	C	C
16	9057131	9057131	+	C	C
1	22987510	22987510	+	C	C
2	96557442	96557442	+	C	C
7	151962266	151962266	+	G	G
2	97830177	97830177	+	G	G
GL000205.1	116660	116660	+	T	T
17	78272278	78272278	+	G	G
14	75416173	75416173	+	C	C
GL000219.1	56969	56969	+	C	C
7	157000198	157000198	+	C	C
14	105414154	105414154	+	C	C
1	162769603	162769603	+	G	G
7	140508714	140508714	+	C	C
19	14887682	14887682	+	A	A



9	68414564	68414564	+	C	C
GL000219.1	99348	99348	+	G	G
17	65871861	65871861	+	G	G
12	8543224	8543224	+	T	T
19	6456505	6456505	+	C	C
9	68414530	68414530	+	A	A
4	65170948	65170948	+	G	G
5	140574388	140574388	+	G	G
8	26628125	26628125	+	G	G
5	1878662	1878662	+	G	G
12	79685827	79685827	+	G	G
5	41199993	41199993	+	G	G
5	1065412	1065412	+	C	C
17	65871039	65871039	+	T	T
5	1878880	1878880	+	G	G
7	140507861	140507861	+	C	C
22	36962401	36962401	+	T	T
10	60573784	60573784	+	C	C
17	61957912	61957912	+	C	C
20	30449239	30449239	+	G	G
7	98882468	98882468	+	G	G
7	140507810	140507810	+	C	C
12	8543219	8543219	+	A	A
7	150325503	150325503	+	G	G
10	17645891	17645891	+	A	A
17	78269373	78269373	+	G	G
17	77021970	77021970	+	T	T
19	6458305	6458305	+	C	C
GL000219.1	99332	99332	+	C	C
14	73726059	73726059	+	C	C
1	10355740	10355740	+	C	C
2	75893097	75893097	+	A	A
1	145209344	145209344	+	C	C
21	11026800	11026800	+	C	C
1	153923907	153923907	+	C	C
17	78268580	78268580	+	G	G
4	65188446	65188446	+	C	C
7	51150846	51150846	+	C	C
17	32687504	32687504	+	T	T
7	142572702	142572702	+	C	C
14	24634148	24634148	+	C	C
5	1065411	1065411	+	C	C
11	67397219	67397219	+	C	C

7

143771660

143771660

+

G

G

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<b>Tumor Seq Allele2</b>	<b>cDNA Change</b>	<b>Codon Change</b>
-	c.572delA	c.(571-573)aatfs
-	c.6331_6333delCAG	c.(6331-6333)cagdel
-	c.2145_2147delGGA	c.(2143-2148)gaggac>gac
CGC	c.2112_2113insGCG	c.(2110-2115)insGCG
T	c.1164_splice	c.e3+1
T	c.1980G>T	c.(1978-1980)ctG>ctT
T	c.781G>A	c.(781-783)Ggg>Agg
T	c.9000G>A	c.(8998-9000)tgG>tgA
A	c.101G>A	c.(100-102)cGg>cAg
T	c.3717C>T	c.(3715-3717)atC>atT
A	c.3697C>T	c.(3697-3699)Cct>Tct
T	c.454C>T	c.(454-456)Cta>Tta
A	c.4986G>A	c.(4984-4986)gtG>gtA
T	c.62_splice	c.e3-1
G	c.3163T>C	c.(3163-3165)Ttt>Ctt
T	c.1118G>A	c.(1117-1119)cGa>cAa
T	c.944G>A	c.(943-945)gGc>gAc
T	c.1111C>A	c.(1111-1113)Cgg>Agg
A	c.1021C>A	c.(1021-1023)Cgg>Agg
T	c.1269G>A	c.(1267-1269)gaG>gaA
A		
A	c.1475G>A	c.(1474-1476)tGg>tAg
A	c.824C>T	c.(823-825)tCc>tTc
A	c.962G>A	c.(961-963)gGc>gAc
A	c.239G>A	c.(238-240)cGa>cAa
G	c.855T>G	
A	c.39227C>T	
A	c.1811G>A	c.(1810-1812)cGc>cAc
A	c.3519C>T	c.(3517-3519)gcC>gcT
A	c.31819C>T	
A		
T	c.607G>A	c.(607-609)Gaa>Aaa
T	c.524C>T	c.(523-525)cCg>cTg
T	c.1814C>T	c.(1813-1815)tCc>tTc
A	c.180G>A	c.(178-180)ctG>ctA
T	c.130C>T	c.(130-132)Cga>Tga
A		
A	c.2111C>T	c.(2110-2112)gCg>gTg
T	c.1086C>T	c.(1084-1086)ttC>ttT
A	c.3252G>A	c.(3250-3252)gaG>gaA

A	c.100G>A	c.(100-102)Gag>Aag
T	c.41C>T	c.(40-42)cCc>cTc
A	c.3268G>A	c.(3268-3270)Gag>Aag
T	c.1018G>A	c.(1018-1020)Gta>Ata
T	c.1539C>T	c.(1537-1539)acC>acT
A	c.2261C>A	c.(2260-2262)cCg>cAg
T	c.1658C>T	c.(1657-1659)gCc>gTc
T	c.1452G>T	c.(1450-1452)gaG>gaT
A	c.404C>T	c.(403-405)tCt>tTt
T		
T	c.57G>A	c.(55-57)gaG>gaA
T	c.346C>T	c.(346-348)Ccg>Tcg
A	c.78G>A	c.(76-78)cgG>cgA
A		
A	c.603C>T	c.(601-603)atC>atT
T	c.1069G>A	c.(1069-1071)Gat>Aat
A	c.64G>A	c.(64-66)Gaa>Aaa
G	c.4120A>G	c.(4120-4122)Act>Gct
A	c.804G>T	c.(802-804)ctG>ctT
A	c.1754G>A	c.(1753-1755)gGg>gAg
A	c.298G>A	c.(298-300)Gcc>Acc
T	c.624C>T	c.(622-624)ccC>ccT
A	c.288C>T	c.(286-288)acC>acT
A		
C		
A	c.1102A>T	c.(1102-1104)Att>Ttt
A		
A	c.2910G>A	
A	c.2026G>A	c.(2026-2028)Gga>Aga
T		
T	c.3763G>A	c.(3763-3765)Gca>Aca
A		
T	c.1211C>T	c.(1210-1212)gCc>gTc
A	c.1106G>T	c.(1105-1107)aGa>aTa
A		
A	c.3127G>A	c.(3127-3129)Gag>Aag
A	c.1514C>T	c.(1513-1515)tCc>tTc
C	c.5829A>C	c.(5827-5829)cgA>cgC
A	c.1018G>A	c.(1018-1020)Gac>Aac
T	c.646C>A	c.(646-648)Cag>Aag
A	c.300G>A	c.(298-300)cgG>cgA
A	c.2919C>T	c.(2917-2919)acC>acT
T	c.253G>A	c.(253-255)Gga>Aga

T		
A		
T	c.1104T>A	c.(1102-1104)gaT>gaA
T	c.1799T>A	c.(1798-1800)gTg>gAg
A	c.2800G>A	c.(2800-2802)Gac>Aac
T	c.223G>A	c.(223-225)Gag>Aag
A	c.596C>T	c.(595-597)tCc>tTc
T	c.741G>A	c.(739-741)tgG>tgA
T	c.8999G>A	c.(8998-9000)tGg>tAg
T	c.113G>A	c.(112-114)gGa>gAa
T	c.6580C>T	c.(6580-6582)Cga>Tga
A	c.2277C>T	c.(2275-2277)ctC>ctT
A	c.2201G>A	c.(2200-2202)cGc>cAc
T	c.743G>A	c.(742-744)gGa>gAa
G	c.846A>G	c.(844-846)ccA>ccG
T		
T	c.2466C>T	c.(2464-2466)atC>atT
T	c.3327G>T	c.(3325-3327)gtG>gtT
A	c.23852G>T	c.(23851-23853)aGg>aTg
T	c.1471C>T	c.(1471-1473)Ctg>Ttg
A	c.1357C>T	
T	c.175G>T	c.(175-177)Gaa>Taa
T	c.249G>A	c.(247-249)aaG>aaA
T	c.647C>T	c.(646-648)tCc>tTc
T	c.1128C>T	c.(1126-1128)acC>acT
T	c.653C>T	c.(652-654)tCc>tTc
T		
A	c.2828G>A	c.(2827-2829)gGa>gAa
A	c.1599C>T	c.(1597-1599)tcC>tcT
T	c.654C>T	c.(652-654)tcC>tcT
T	c.1303C>T	c.(1303-1305)Ctg>Ttg
T	c.1706C>T	c.(1705-1707)tCc>tTc
T	c.130C>T	c.(130-132)Cct>Tct
A	c.315G>A	c.(313-315)tgG>tgA
A	c.620G>A	c.(619-621)cGc>cAc
G	c.3916T>G	c.(3916-3918)Tcc>Gcc
T	c.307G>A	c.(307-309)Gga>Aga
A	c.286G>A	c.(286-288)Gag>Aag
T	c.34759G>A	c.(34759-34761)Gaa>Aaa
A	c.150G>A	c.(148-150)gaG>gaA
T	c.2127G>A	c.(2125-2127)ggG>ggA
T	c.2819G>T	c.(2818-2820)tGg>tTg
T		

A		
C	c.6898T>C	c.(6898-6900)Tcc>Ccc
T	c.955C>A	c.(955-957)Cag>Aag
T	c.407G>A	c.(406-408)gGa>gAa
A		
A	c.457G>A	c.(457-459)Gac>Aac
T	c.5455C>A	c.(5455-5457)Cag>Aag
T	c.4285C>T	c.(4285-4287)Caa>Taa
T	c.817C>T	c.(817-819)Cga>Tga
A	c.450C>T	c.(448-450)gcC>gcT
T	c.10737G>A	c.(10735-10737)gtG>gtA
A	c.771G>A	c.(769-771)gcG>gcA
A	c.1238G>A	c.(1237-1239)gGc>gAc
A		
T	c.335C>T	c.(334-336)tCc>tTc
T	c.655C>T	c.(655-657)Cgt>Tgt
T	c.1561C>A	c.(1561-1563)Cag>Aag
A	c.331G>A	c.(331-333)Gaa>Aaa
A	c.9988G>A	c.(9988-9990)Ggg>Agg
A	c.543C>T	c.(541-543)ttC>ttT
T	c.998C>T	c.(997-999)cCg>cTg
T	c.1772C>T	c.(1771-1773)tCa>tTa
A	c.2277G>A	c.(2275-2277)gtG>gtA
A	c.859C>T	c.(859-861)Ccg>Tcg
A		
T	c.2430G>A	c.(2428-2430)ccG>ccA
C	c.273A>G	c.(271-273)aaA>aaG
A	c.843G>A	c.(841-843)ccG>ccA
T	c.1889C>T	c.(1888-1890)tCc>tTc
T	c.2260G>A	c.(2260-2262)Gac>Aac
T		
T	c.3774C>T	c.(3772-3774)ccC>ccT
T	c.2992G>T	c.(2992-2994)Gaa>Taa
T	c.1284C>T	c.(1282-1284)ttC>ttT
A	c.1232G>A	c.(1231-1233)cGc>cAc
G		
T	c.369C>T	c.(367-369)gtC>gtT
T	c.211G>A	c.(211-213)Gct>Act
A		
A	c.591C>T	c.(589-591)ttC>ttT
C		
A	c.1753G>A	c.(1753-1755)Ggg>Agg
T	c.1648C>T	c.(1648-1650)Cct>Tct

A	c.967C>T	c.(967-969)Cgg>Tgg
A	c.189C>T	c.(187-189)ttC>ttT
T	c.2055G>A	c.(2053-2055)ccG>ccA
C	c.1952T>C	c.(1951-1953)gTg>gCg
T	c.999G>T	c.(997-999)gtG>gtT
A	c.1205G>A	c.(1204-1206)gGg>gAg
A	c.3611C>T	c.(3610-3612)aCg>aTg
T	c.523C>T	c.(523-525)Cgt>Tgt
A	c.1214G>A	c.(1213-1215)cGa>cAa
T	c.594_splice	c.e5-1
-	c.516delTATTTAAATATCTG/..(496-516)ttatttaaataatctgacaatf:	
-	c.1296_1297delCA	c.(1294-1299)cgcacafs
-	c.3293delT	c.(3292-3294)gtafs
-	c.346delC	c.(346-348)cgtrfs
-	c.341delC	c.(340-342)ccgfs
-	c.1396_1402delATCTTCT	c.(1396-1404)atcttctgcfs
-	c.969delC	c.(967-969)ttcfs
-	c.598delT	c.(598-600)tttfs
-	c.1delTTAAAGCCCTAAAGAAGG)1-627)tttaaagccctaaagaaggttgcg	
-	c.767delC	c.(766-768)gccfs
-	c.6delAAGGAAAAGACGAAGG)6-831)gaaaggaaaagacgaagggaaga	
-	c.432delC	c.(430-432)tacfs
-	c.106delT	c.(106-108)ttgfs
-	c.291_294delCCCC	c.(289-294)ggccccfs
A	c.575G>A	c.(574-576)aGg>aAg
T	c.839G>A	c.(838-840)aGa>aAa
A	c.210C>T	c.(208-210)ttC>ttT
T		
T	c.111G>A	c.(109-111)gtG>gtA
C	c.511A>G	c.(511-513)Aat>Gat
A	c.2968C>T	c.(2968-2970)Cct>Tct
A	c.2812C>T	c.(2812-2814)Cga>Tga
A	c.703C>T	c.(703-705)Cgg>Tgg
A	c.62C>T	c.(61-63)tCc>tTc
T	c.633C>T	c.(631-633)ttC>ttT
T	c.636C>T	c.(634-636)ctC>ctT
A	c.1008C>T	c.(1006-1008)ttC>ttT
T	c.473C>T	c.(472-474)tCc>tTc
A	c.565C>T	c.(565-567)Cac>Tac
A	c.49G>T	c.(49-51)Gag>Tag
C	c.3968A>G	c.(3967-3969)aAt>aGt
T	c.402A>T	c.(400-402)aaA>aaT
A	c.765C>T	c.(763-765)ggC>ggT

T	c.3261C>T	c.(3259-3261)ggC>ggT
A	c.555G>A	c.(553-555)tgG>tgA
T	c.5558C>T	c.(5557-5559)tCa>tTa
T	c.364G>A	c.(364-366)Gat>Aat
T	c.9C>T	c.(7-9)ttC>ttT
A	c.734G>A	c.(733-735)gGa>gAa
A	c.6501G>A	c.(6499-6501)caG>caA
T	c.1823G>A	c.(1822-1824)gGa>gAa
A	c.871C>T	c.(871-873)Ctc>Ttc
T	c.686G>A	c.(685-687)aGg>aAg
A		
T		
T	c.209G>A	c.(208-210)gGa>gAa
T	c.4718C>T	c.(4717-4719)tCg>tTg
A	c.6329C>T	c.(6328-6330)gCc>gTc
T	c.230C>T	c.(229-231)tCc>tTc
T	c.863C>T	c.(862-864)cCc>cTc
T	c.58G>A	c.(58-60)Ggg>Agg
T	c.526G>A	c.(526-528)Gaa>Aaa
T	c.791C>T	c.(790-792)tCg>tTg
T	c.507C>T	c.(505-507)ttC>ttT
T	c.853G>A	c.(853-855)Gac>Aac
A	c.493C>T	c.(493-495)Ccc>Tcc
A	c.33G>A	c.(31-33)cgG>cgA
T	c.862C>T	c.(862-864)Cct>Tct
A	c.1021G>A	c.(1021-1023)Ggg>Agg
T	c.3733G>A	c.(3733-3735)Gaa>Aaa
C		
T		
T		
T	c.97C>T	c.(97-99)Ccc>Tcc
A	c.214G>A	c.(214-216)Gac>Aac
A	c.505G>A	c.(505-507)Ggc>Agc
A	c.639C>T	c.(637-639)atC>atT
T	c.626C>T	c.(625-627)tCt>tTt
A	c.41G>A	c.(40-42)gGa>gAa
T	c.2581G>A	c.(2581-2583)Gaa>Aaa
T	c.750G>A	c.(748-750)gaG>gaA
A	c.8257T>A	c.(8257-8259)Tta>Ata
A		
T	c.826G>A	c.(826-828)Ggt>Agt
A	c.126G>A	c.(124-126)gaG>gaA
T	c.7011C>T	c.(7009-7011)ttC>ttT



A	c.18C>T	c.(16-18)tcC>tcT
A	c.789C>T	c.(787-789)ccC>ccT
A	c.2010C>T	c.(2008-2010)atC>atT
A	c.1906G>A	c.(1906-1908)Gag>Aag
A	c.4381G>A	c.(4381-4383)Gat>Aat
A	c.792C>T	c.(790-792)ctC>ctT
T		
A	c.404G>A	c.(403-405)gGg>gAg
A	c.146C>T	c.(145-147)cCt>cTt
A	c.571C>T	c.(571-573)Ccg>Tcg
A	c.23193C>T	c.(23191-23193)atC>atT
A	c.269G>A	c.(268-270)aGg>aAg
A	c.856C>T	c.(856-858)Cgt>Tgt
C	c.1522T>C	c.(1522-1524)Tca>Cca
A	c.956T>A	c.(955-957)gTg>gAg
T	c.9006G>A	c.(9004-9006)gaG>gaA
A	c.2007C>T	c.(2005-2007)ctC>ctT
C	c.329C>G	c.(328-330)tCt>tGt
A	c.71A>T	c.(70-72)aAa>aTa
A	c.126C>T	c.(124-126)tcC>tcT
A	c.9C>T	c.(7-9)gcC>gcT
T	c.345C>T	c.(343-345)atC>atT
A	c.1469G>A	c.(1468-1470)cGg>cAg
A		
A	c.1695G>A	c.(1693-1695)aaG>aaA
A	c.1210G>A	c.(1210-1212)Gag>Aag
T	c.1258G>A	c.(1258-1260)Gga>Aga
A	c.5685C>T	c.(5683-5685)tcC>tcT
T	c.1603G>A	c.(1603-1605)Gaa>Aaa
A		
T	c.1026G>A	c.(1024-1026)agG>agA
T	c.9445G>A	c.(9445-9447)Gaa>Aaa
A	c.2275C>T	c.(2275-2277)Cct>Tct
T	c.3415G>A	c.(3415-3417)Gat>Aat
T	c.427C>T	c.(427-429)Ctg>Ttg
A	c.1072C>T	c.(1072-1074)Caa>Taa
A	c.166G>A	c.(166-168)Gcc>Acc
T	c.439C>T	c.(439-441)Cat>Tat
A	c.348G>A	c.(346-348)aaG>aaA
A	c.2972C>T	c.(2971-2973)cCc>cTc
A	c.4732T>A	c.(4732-4734)Ttt>Att
A	c.697G>A	c.(697-699)Gaa>Aaa
C		

A	c.5776G>A	c.(5776-5778)Gag>Aag
C		
A		
C	c.4957C>G	c.(4957-4959)Cct>Gct
A	c.274C>T	c.(274-276)Ctc>Ttc
T		
A	c.1969G>A	c.(1969-1971)Gag>Aag
C	c.137G>C	c.(136-138)gGa>gCa
A	c.293G>A	c.(292-294)tGg>tAg
A	c.525C>T	c.(523-525)atC>atT
T	c.683G>A	c.(682-684)aGa>aAa
T	c.1710G>A	c.(1708-1710)gtG>gtA
A	c.378G>A	c.(376-378)aaG>aaA
T		
T	c.9696G>A	c.(9694-9696)ggG>ggA
G	c.1067A>G	c.(1066-1068)tAa>tGa
T	c.1683C>T	c.(1681-1683)ttC>ttT
T	c.305C>T	c.(304-306)tCc>tTc
A	c.202G>A	c.(202-204)Gaa>Aaa
T	c.1273C>T	c.(1273-1275)Cag>Tag
T	c.3401G>A	c.(3400-3402)gGg>gAg
A	c.3023C>T	c.(3022-3024)tCc>tTc
T	c.1405C>T	c.(1405-1407)Ctg>Ttg
T	c.2054C>A	c.(2053-2055)gCc>gAc
A	c.7533G>A	c.(7531-7533)agG>agA
A	c.538C>T	c.(538-540)Cct>Tct
C		
T	c.1646G>A	c.(1645-1647)gGa>gAa
A	c.911G>A	c.(910-912)aGa>aAa
T	c.13128G>A	
A	c.247_splice	c.e4-1
T	c.629G>A	c.(628-630)cGa>cAa
T	c.582G>A	c.(580-582)gtG>gtA
T	c.831C>T	c.(829-831)tcC>tcT
T	c.1038G>A	c.(1036-1038)gaG>gaA
T	c.1805G>A	c.(1804-1806)gGg>gAg
A	c.1268G>A	c.(1267-1269)gGg>gAg
A	c.2191C>T	c.(2191-2193)Cat>Tat
A	c.511_splice	c.e4-1
T	c.211G>A	c.(211-213)Gaa>Aaa
A	c.592C>T	c.(592-594)Ctt>Ttt
A	c.2673G>A	c.(2671-2673)agG>agA
A	c.251C>T	c.(250-252)tCc>tTc

A		
A	c.6256G>A	c.(6256-6258)Gaa>Aaa
A		
T	c.619C>T	c.(619-621)Ccc>Tcc
A	c.76778C>T	c.(76777-76779)cCt>cTt
T	c.1479G>A	c.(1477-1479)aaG>aaA
T	c.163G>A	c.(163-165)Gat>Aat
A		
T	c.2892C>T	c.(2890-2892)gcC>gcT
T	c.1176G>A	c.(1174-1176)atG>atA
T	c.315C>T	c.(313-315)tcC>tcT
T	c.321G>A	c.(319-321)ctG>ctA
C	c.2448T>C	c.(2446-2448)ccT>ccC
A	c.309G>A	c.(307-309)cgG>cgA
T		
A	c.2494_splice	c.e12+1
T	c.6981G>A	c.(6979-6981)aaG>aaA
T	c.2642C>T	c.(2641-2643)tCc>tTc
G	c.3987A>G	c.(3985-3987)aaA>aaG
T	c.89C>A	c.(88-90)cCc>cAc
A	c.1423A>T	c.(1423-1425)Aac>Tac
T	c.64C>T	c.(64-66)Ccg>Tcg
A	c.3356C>T	c.(3355-3357)cCt>cTt
A	c.1631C>T	c.(1630-1632)cCa>cTa
T	c.5261_splice	c.e34+1
T	c.648G>A	c.(646-648)aaG>aaA
A	c.952G>A	c.(952-954)Gaa>Aaa
A		
A	c.2842C>T	c.(2842-2844)Cag>Tag
T	c.149G>A	c.(148-150)gGg>gAg
A	c.3066G>A	c.(3064-3066)ttG>ttA
T	c.647C>T	c.(646-648)gCt>gTt
T	c.61975G>A	c.(61975-61977)Gag>Aag
T	c.874C>T	c.(874-876)Ccg>Tcg
T	c.2006C>T	c.(2005-2007)tCt>tTt
T	c.760G>A	c.(760-762)Gaa>Aaa
A	c.1757G>A	c.(1756-1758)tGg>tAg
A	c.207G>A	c.(205-207)agG>agA
T	c.1029C>T	c.(1027-1029)ctC>ctT
A	c.698G>A	c.(697-699)gGc>gAc
T	c.2408C>T	c.(2407-2409)tCt>tTt
T	c.3221C>T	c.(3220-3222)tCc>tTc
T		

A	c.179T>A	c.(178-180)gTa>gAa
A	c.536G>A	c.(535-537)cGa>cAa
A	c.3067C>T	c.(3067-3069)Ccg>Tcg
T	c.1217C>T	c.(1216-1218)cCc>cTc
A	c.304G>A	c.(304-306)Gaa>Aaa
T	c.322C>T	c.(322-324)Cgt>Tgt
A	c.2103C>T	c.(2101-2103)ttC>ttT
C	c.13238T>C	c.(13237-13239)tTa>tCa
A		
T	c.398C>T	c.(397-399)tCa>tTa
T		
T	c.1272C>T	c.(1270-1272)tcC>tcT
T	c.2632G>A	c.(2632-2634)Gat>Aat
T	c.2058C>T	c.(2056-2058)ctC>ctT
A	c.1099C>T	c.(1099-1101)Ctg>Ttg
A		
T	c.2911G>A	c.(2911-2913)Gaa>Aaa
T	c.265C>T	c.(265-267)Ccc>Tcc
A	c.570G>A	c.(568-570)aaG>aaA
T		
T	c.446C>T	c.(445-447)tCc>tTc
A	c.76777C>T	c.(76777-76779)Cct>Tct
A		
A	c.1169C>T	c.(1168-1170)cCa>cTa
T	c.395C>T	c.(394-396)cCc>cTc
T	c.29G>A	c.(28-30)gGa>gAa
T	c.1004_splice	c.e6-1
A	c.6373G>A	c.(6373-6375)Gaa>Aaa
T	c.2649C>T	c.(2647-2649)ctC>ctT
A		
A	c.469A>T	c.(469-471)Atg>Ttg
A		
T	c.1511C>T	c.(1510-1512)tCc>tTc
A	c.3872G>A	c.(3871-3873)cGa>cAa
T	c.2266G>A	c.(2266-2268)Gaa>Aaa
T	c.1007C>T	c.(1006-1008)tCc>tTc
A	c.608G>A	c.(607-609)cGg>cAg
T	c.351C>T	c.(349-351)tcC>tcT
A	c.234C>T	c.(232-234)ctC>ctT
A	c.258C>T	c.(256-258)atC>atT
T	c.682C>T	c.(682-684)Ctg>Ttg
T	c.1911G>A	c.(1909-1911)ctG>ctA
T	c.492C>T	c.(490-492)tcC>tcT

A	c.1071G>A	c.(1069-1071)caG>caA
A	c.1644G>A	c.(1642-1644)aaG>aaA
C	c.1120A>G	c.(1120-1122)Att>Gtt
T	c.472G>A	c.(472-474)Gac>Aac
A	c.1146C>T	c.(1144-1146)tcC>tcT
A	c.925C>T	c.(925-927)Ccg>Tcg
A	c.5721G>A	c.(5719-5721)gaG>gaA
A	c.5368C>T	c.(5368-5370)Cat>Tat
A	c.344C>T	c.(343-345)tCc>tTc
T	c.9316G>A	c.(9316-9318)Gga>Aga
A	c.800C>T	c.(799-801)tCt>tTt
T	c.352G>A	c.(352-354)Gat>Aat
T	c.1021G>A	c.(1021-1023)Gaa>Aaa
A	c.184G>T	c.(184-186)Gga>Tga
T	c.2491C>T	c.(2491-2493)Cct>Tct
T	c.399C>T	c.(397-399)atC>atT
G	c.1671T>C	c.(1669-1671)agT>agC
T	c.25C>T	c.(25-27)Cat>Tat
T	c.2213C>T	c.(2212-2214)cCc>cTc
A	c.5956G>T	c.(5956-5958)Gag>Tag
C	c.229A>G	c.(229-231)Aag>Gag
T	c.3078C>T	c.(3076-3078)ttC>ttT
T	c.346G>A	c.(346-348)Gga>Aga
A	c.7684C>T	c.(7684-7686)Cgc>Tgc
T	c.2590G>A	c.(2590-2592)Gat>Aat
T	c.1111G>A	c.(1111-1113)Gat>Aat
T		
G		
A	c.169C>T	c.(169-171)Ccc>Tcc
A	c.98C>T	c.(97-99)gCc>gTc
A		
T	c.1233C>T	c.(1231-1233)ccC>ccT
T	c.487G>A	c.(487-489)Gag>Aag
A	c.797G>A	c.(796-798)gGa>gAa
A	c.990C>T	c.(988-990)atC>atT
A	c.416C>T	c.(415-417)tCc>tTc
T		
T	c.639G>A	c.(637-639)ttG>ttA
T	c.799G>A	c.(799-801)Gaa>Aaa
T	c.665C>T	c.(664-666)tCc>tTc
A	c.787C>T	c.(787-789)Cgg>Tgg
A	c.8C>T	c.(7-9)aCc>aTc
A	c.1123C>A	c.(1123-1125)Ctc>Atc

A	c.1341_splice	c.e13+1
A	c.828G>A	c.(826-828)aaG>aaA
A	c.276C>T	c.(274-276)ctC>ctT
A	c.577C>T	c.(577-579)Ctg>Ttg
A	c.217G>A	c.(217-219)Gag>Aag
T	c.333C>T	c.(331-333)ttC>ttT
T		
A	c.1400C>T	c.(1399-1401)cCa>cTa
T	c.134C>T	c.(133-135)tCc>tTc
G	c.1107T>C	c.(1105-1107)gaT>gaC
G	c.987C>G	c.(985-987)caC>caG
T	c.426G>A	c.(424-426)atG>atA
A	c.1546C>T	c.(1546-1548)Cat>Tat
T	c.389G>A	c.(388-390)cGa>cAa
T	c.882G>A	c.(880-882)tgG>tgA
A	c.1422G>A	c.(1420-1422)agG>agA
A	c.149C>T	c.(148-150)tCg>tTg
T	c.880A>T	c.(880-882)Aac>Tac
A		
T	c.374C>A	c.(373-375)cCa>cAa
T	c.788C>T	c.(787-789)cCg>cTg
G		
A	c.679G>A	c.(679-681)Ggc>Agc
A	c.867C>T	c.(865-867)ctC>ctT
T		
A	c.1505C>T	c.(1504-1506)tCc>tTc
A	c.2771C>T	
A	c.1045G>A	c.(1045-1047)Gga>Aga
A	c.1002G>A	c.(1000-1002)ggG>ggA
A	c.710G>A	c.(709-711)gGg>gAg
T	c.1539G>A	c.(1537-1539)tcG>tcA
A	c.2868G>A	c.(2866-2868)gtG>gtA
A	c.299C>T	c.(298-300)tCc>tTc
A	c.2196C>T	c.(2194-2196)tcC>tcT
T	c.369G>A	c.(367-369)ctG>ctA
T	c.472G>A	c.(472-474)Gaa>Aaa
T	c.742G>A	c.(742-744)Gaa>Aaa
A	c.1162G>A	c.(1162-1164)Ggc>Agc
T	c.1662C>T	c.(1660-1662)agC>agT
A	c.37C>T	c.(37-39)Cta>Tta
T	c.510G>A	c.(508-510)tcG>tcA
G		
A	c.1431C>T	c.(1429-1431)gaC>gaT

A	c.1212G>A	c.(1210-1212)ggG>ggA
C	c.6021T>G	c.(6019-6021)atT>atG
T	c.681G>A	c.(679-681)agG>agA
A		
T	c.1568C>T	c.(1567-1569)tCg>tTg
A	c.1236C>T	c.(1234-1236)ccC>ccT
A	c.1033C>T	c.(1033-1035)Cgt>Tgt
A	c.442C>T	c.(442-444)Cct>Tct
A	c.194G>A	c.(193-195)cGg>cAg
T	c.1285C>T	c.(1285-1287)Ccc>Tcc
A	c.1096G>A	c.(1096-1098)Gaa>Aaa
G	c.13128A>G	c.(13126-13128)caA>caG
T	c.1298C>T	c.(1297-1299)aCc>aTc
A	c.1169G>A	c.(1168-1170)gGt>gAt
T	c.653C>T	c.(652-654)tCc>tTc
A		
A	c.1861G>A	c.(1861-1863)Gag>Aag
T	c.408C>T	c.(406-408)ttC>ttT
A	c.663G>A	c.(661-663)agG>agA
A	c.1046G>A	c.(1045-1047)gGa>gAa
T	c.3710_splice	c.e24+1
T	c.1932C>T	c.(1930-1932)gcC>gcT
T	c.784G>A	c.(784-786)Gtt>Att
C	c.3867T>C	c.(3865-3867)gaT>gaC
A	c.2456C>T	c.(2455-2457)cCa>cTa
C	c.67A>C	c.(67-69)Aag>Cag
T	c.58C>T	c.(58-60)Cga>Tga
T	c.2446C>T	c.(2446-2448)Cct>Tct
A	c.346C>T	c.(346-348)Ctg>Ttg
T		
A	c.3310A>T	c.(3310-3312)Aat>Tat
A	c.735C>T	c.(733-735)ttC>ttT
T	c.1633C>T	c.(1633-1635)Cct>Tct
T	c.3760C>T	c.(3760-3762)Ctg>Ttg
T	c.160G>A	c.(160-162)Gag>Aag
T		
T	c.1085T>A	c.(1084-1086)cTc>cAc
T	c.2653G>A	c.(2653-2655)Gaa>Aaa
C	c.731T>G	c.(730-732)cTc>cGc
T	c.2430C>T	c.(2428-2430)tcC>tcT
A	c.2404G>A	c.(2404-2406)Gat>Aat
A	c.1414G>A	c.(1414-1416)Gaa>Aaa
A	c.11035C>T	c.(11035-11037)Cgt>Tgt

T	c.408G>A	c.(406-408)agG>agA
T	c.1539C>T	c.(1537-1539)ctC>ctT
T	c.860_splice	c.e3-1
A	c.1399A>T	c.(1399-1401)Acc>Tcc
C	c.330T>C	c.(328-330)ctT>ctC
A	c.408C>T	c.(406-408)acC>acT
G		
T	c.2049C>T	c.(2047-2049)atC>atT
A	c.1012C>T	c.(1012-1014)Cca>Tca
T	c.294C>T	c.(292-294)tcC>tcT
A	c.414C>T	c.(412-414)tcC>tcT
A	c.969C>T	c.(967-969)agC>agT
A	c.1418C>T	c.(1417-1419)tCc>tTc
G	c.761A>G	c.(760-762)aAg>aGg
A		
T	c.328C>T	c.(328-330)Ccc>Tcc
T	c.1594G>A	c.(1594-1596)Gag>Aag
A	c.5594C>T	c.(5593-5595)tCa>tTa
A	c.1840C>T	c.(1840-1842)Cct>Tct
T	c.743G>A	c.(742-744)cGg>cAg
A		
A		
T	c.1080G>A	c.(1078-1080)ctG>ctA
C	c.763A>G	c.(763-765)Aag>Gag
T	c.767C>T	c.(766-768)cCc>cTc
A	c.879C>T	c.(877-879)atC>atT
A	c.6096G>A	c.(6094-6096)ctG>ctA
A		
A	c.939G>A	c.(937-939)ttG>ttA
T	c.4933G>A	c.(4933-4935)Gaa>Aaa
A	c.2412G>A	c.(2410-2412)acG>acA
T	c.14884G>A	c.(14884-14886)Gga>Aga
T	c.1140G>A	c.(1138-1140)gaG>gaA
A	c.880G>A	c.(880-882)Gat>Aat
T	c.4210C>T	c.(4210-4212)Cag>Tag
A	c.1554C>T	c.(1552-1554)gaC>gaT
G	c.1629A>C	c.(1627-1629)ggA>ggC
C	c.196T>G	c.(196-198)Tgc>Ggc
T	c.562G>A	c.(562-564)Gaa>Aaa
T	c.139G>A	c.(139-141)Ggc>Agc
A	c.767C>T	c.(766-768)gCc>gTc
T	c.1672G>A	c.(1672-1674)Gag>Aag
A		



G		
A	c.2212C>T	c.(2212-2214)Cgg>Tgg
T	c.678G>A	c.(676-678)gaG>gaA
A	c.229G>A	c.(229-231)Gaa>Aaa
T	c.240C>T	c.(238-240)atC>atT
A	c.8C>T	c.(7-9)gCc>gTc
T	c.1382C>T	c.(1381-1383)tCc>tTc
A	c.3015C>T	c.(3013-3015)ggC>ggT
T	c.1732C>T	c.(1732-1734)Cgg>Tgg
T		
T	c.714T>A	c.(712-714)ccT>ccA
A	c.829G>A	c.(829-831)Gca>Aca
G	c.129A>G	c.(127-129)gaA>gaG
T		
A	c.360G>A	c.(358-360)tgG>tgA
A	c.1768C>T	c.(1768-1770)Cgc>Tgc
A	c.1432C>T	c.(1432-1434)Ctc>Ttc
A	c.1864C>T	c.(1864-1866)Cct>Tct
T	c.312A>T	c.(310-312)gaA>gaT
G	c.1263A>G	c.(1261-1263)gaA>gaG
A	c.4456G>A	c.(4456-4458)Gag>Aag
A	c.250C>T	c.(250-252)Cct>Tct
T	c.872G>A	c.(871-873)cGa>cAa
A		
T	c.904G>A	c.(904-906)Gag>Aag
A	c.470A>T	c.(469-471)aAa>aTa
T	c.2185G>A	c.(2185-2187)Gaa>Aaa
T		
A	c.743C>A	c.(742-744)tCc>tAc
T	c.64G>A	c.(64-66)Gaa>Aaa
A	c.734C>A	c.(733-735)cCt>cAt
T	c.1317C>T	c.(1315-1317)cgC>cgT
C	c.563T>G	c.(562-564)tTc>tGc
A		
A	c.553C>T	c.(553-555)Ctg>Ttg
G		
A		
T	c.790G>A	c.(790-792)Gac>Aac
T		
T	c.1643C>T	c.(1642-1644)aCt>aTt
A	c.4020G>A	c.(4018-4020)agG>agA
T		
A	c.9C>T	c.(7-9)acC>acT

T	c.273C>T	c.(271-273)ttC>ttT
A	c.900G>A	c.(898-900)ggG>ggA
T	c.1940C>T	c.(1939-1941)tCc>tTc
T	c.1124C>T	c.(1123-1125)tCc>tTc
T		
T	c.847G>A	c.(847-849)Gat>Aat
A	c.1235G>A	c.(1234-1236)cGa>cAa
A	c.1921G>A	c.(1921-1923)Gat>Aat
T	c.577C>T	c.(577-579)Ccc>Tcc
G	c.797A>G	c.(796-798)aAc>aGc
A	c.753G>A	c.(751-753)ggG>ggA
A	c.487G>A	c.(487-489)Gaa>Aaa
G		
A	c.3940G>A	c.(3940-3942)Gaa>Aaa
T	c.84C>T	c.(82-84)ttC>ttT
A	c.393G>A	c.(391-393)gtG>gtA
A	c.1080G>A	c.(1078-1080)atG>atA
T	c.138G>A	c.(136-138)aaG>aaA
T	c.1262G>T	c.(1261-1263)cGa>cTa
T	c.1772C>T	c.(1771-1773)gCc>gTc
A	c.1432C>T	c.(1432-1434)Cag>Tag
A	c.1706C>T	c.(1705-1707)tCt>tTt
T		
T	c.285G>A	c.(283-285)tgG>tgA
A	c.12245G>A	c.(12244-12246)gGa>gAa
A	c.151G>A	c.(151-153)Gaa>Aaa
T		
T		
A	c.910G>A	c.(910-912)Ggt>Agt
A	c.697C>T	c.(697-699)Cac>Tac
T	c.4998G>A	c.(4996-4998)cgG>cgA
T	c.1714C>T	c.(1714-1716)Ccg>Tcg
C	c.1549A>C	c.(1549-1551)Aaa>Caa
T	c.1681G>A	c.(1681-1683)Gga>Aga
A	c.389G>A	c.(388-390)gGa>gAa
T		
A	c.2235G>A	c.(2233-2235)tcG>tcA
T	c.558C>T	c.(556-558)ctC>ctT
T	c.2329G>A	c.(2329-2331)Gag>Aag
A	c.1763G>A	c.(1762-1764)cGg>cAg
T	c.687G>A	c.(685-687)gaG>gaA
A	c.974C>T	c.(973-975)cCc>cTc
T	c.744C>T	c.(742-744)gtC>gtT

A	c.7548C>T	c.(7546-7548)tcC>tcT
A		
A	c.276C>T	c.(274-276)ctC>ctT
T	c.1128C>T	c.(1126-1128)atC>atT
T	c.294C>T	c.(292-294)gcC>gcT
A	c.4231C>T	
A	c.269G>A	c.(268-270)gGa>gAa
C		
T	c.188C>T	c.(187-189)tCa>tTa
T	c.2713A>T	c.(2713-2715)Aat>Tat
A		
A	c.650C>T	c.(649-651)tCc>tTc
T	c.1086C>A	c.(1084-1086)ctC>ctA
G	c.663C>G	c.(661-663)ttC>ttG
G	c.2430A>G	c.(2428-2430)aaA>aaG
T	c.340_splice	c.e5-2
T	c.853C>T	c.(853-855)Cac>Tac
C	c.1996A>C	c.(1996-1998)Aaa>Caa
T	c.3544C>T	c.(3544-3546)Ccc>Tcc
T	c.1014C>T	c.(1012-1014)atC>atT
T	c.93C>T	c.(91-93)tcC>tcT
A	c.1405C>T	c.(1405-1407)Cca>Tca
A	c.1168G>A	c.(1168-1170)Gat>Aat
T		
T	c.720C>T	c.(718-720)gcC>gcT
A	c.898C>T	c.(898-900)Cgt>Tgt
T		
A	c.1962C>T	c.(1960-1962)gtC>gtT
A	c.1056G>T	c.(1054-1056)atG>atT
A	c.591C>T	c.(589-591)ttC>ttT
T	c.458C>T	c.(457-459)cCa>cTa
T	c.100G>A	c.(100-102)Gaa>Aaa
T		
A		
A	c.1438C>T	c.(1438-1440)Cca>Tca
A		
A	c.114G>A	c.(112-114)atG>atA
T	c.1381G>A	c.(1381-1383)Gaa>Aaa
A	c.2476C>T	c.(2476-2478)Ctt>Ttt
A	c.3465G>T	c.(3463-3465)gtG>gtT
T	c.1212C>T	c.(1210-1212)tcC>tcT
A	c.561C>T	c.(559-561)atC>atT
T	c.193C>T	c.(193-195)Ctg>Ttg

A		
T		
T	c.1651G>A	c.(1651-1653)Gag>Aag
A	c.572C>T	c.(571-573)tCa>tTa
A		
T		
A	c.5155C>T	c.(5155-5157)Caa>Taa
T		
T	c.837C>T	c.(835-837)atC>atT
T	c.163C>T	c.(163-165)Cct>Tct
A		
A	c.5388G>A	c.(5386-5388)acG>acA
A		
A	c.6512C>T	c.(6511-6513)cCc>cTc
T	c.1773C>T	c.(1771-1773)gcC>gcT
A	c.531G>A	c.(529-531)acG>acA
T	c.36352G>A	c.(36352-36354)Gtg>Atg
T	c.994G>A	c.(994-996)Gag>Aag
G	c.1052T>C	c.(1051-1053)gTt>gCt
C	c.1397G>C	c.(1396-1398)tGt>tCt
T	c.3116C>T	c.(3115-3117)tCt>tTt
T		
A		
T	c.1955C>T	c.(1954-1956)tCc>tTc
A	c.657C>A	c.(655-657)aaC>aaA
A	c.707C>T	c.(706-708)tCc>tTc
T	c.3270G>A	c.(3268-3270)caG>caA
T	c.227C>T	c.(226-228)tCc>tTc
A	c.536C>T	c.(535-537)tCc>tTc
A	c.319G>A	c.(319-321)Gag>Aag
A	c.1873C>T	c.(1873-1875)Cca>Tca
T	c.1352C>T	c.(1351-1353)tCc>tTc
G	c.371G>C	c.(370-372)gGt>gCt
T		
A	c.1140C>T	c.(1138-1140)tcC>tcT
T		
T	c.2787G>A	c.(2785-2787)agG>agA
A		
A	c.183G>A	c.(181-183)acG>acA
T	c.2528C>T	c.(2527-2529)tCa>tTa
T	c.942C>T	c.(940-942)tcC>tcT
T		
T	c.105C>T	c.(103-105)tcC>tcT

C	c.440_splice	c.e4-1
A	c.4631G>A	c.(4630-4632)aGc>aAc
A	c.835G>A	c.(835-837)Gag>Aag
A	c.1186G>A	c.(1186-1188)Gga>Aga
T	c.106G>A	c.(106-108)Gat>Aat
A	c.365G>A	c.(364-366)aGa>aAa
T	c.2214G>A	c.(2212-2214)ggG>ggA
T	c.4613C>T	c.(4612-4614)cCc>cTc
A	c.649C>A	c.(649-651)Cat>Aat
A		
T	c.244C>T	c.(244-246)Ctc>Ttc
A	c.433G>A	c.(433-435)Ggg>Agg
T		
A	c.2667C>T	c.(2665-2667)ttC>ttT
T	c.502C>T	c.(502-504)Cgc>Tgc
A		
T	c.4878G>A	c.(4876-4878)ggG>ggA
T	c.739T>A	c.(739-741)Ttt>Att
A	c.183C>T	c.(181-183)atC>atT
A	c.673G>T	c.(673-675)Gaa>Taa
T	c.724C>T	c.(724-726)Cgg>Tgg
A		
T	c.967G>A	c.(967-969)Gga>Aga
A	c.976C>T	c.(976-978)Cca>Tca
T		
T	c.788C>T	c.(787-789)tCc>tTc
A	c.1623C>A	c.(1621-1623)gcC>gcA
A	c.4343C>T	c.(4342-4344)tCc>tTc
T	c.428C>T	c.(427-429)tCc>tTc
A	c.2749G>A	c.(2749-2751)Gag>Aag
A	c.1879G>A	c.(1879-1881)Gac>Aac
T	c.682G>A	c.(682-684)Gag>Aag
A	c.2697G>A	c.(2695-2697)gaG>gaA
A		
T	c.155_splice	c.e2+1
A	c.775C>T	
T	c.788C>T	c.(787-789)tCc>tTc
T		
T		
A	c.621G>A	c.(619-621)gaG>gaA
T	c.5814C>T	c.(5812-5814)ccC>ccT
A	c.4025C>T	c.(4024-4026)tCg>tTg
T	c.458C>T	c.(457-459)cCa>cTa

A	c.2216C>T	c.(2215-2217)aCc>aTc
A	c.924C>T	c.(922-924)ttC>ttT
A	c.2641G>T	c.(2641-2643)Ggg>Tgg
T	c.750G>A	c.(748-750)caG>caA
C	c.688T>C	c.(688-690)Tcc>Ccc
T	c.312C>T	c.(310-312)atC>atT
A	c.1686C>T	c.(1684-1686)tcC>tcT
T	c.2424C>T	c.(2422-2424)tcC>tcT
T	c.88C>T	c.(88-90)Cga>Tga
T	c.106G>A	c.(106-108)Gat>Aat
A	c.1448C>T	
T	c.1194C>T	c.(1192-1194)ctC>ctT
T	c.904C>T	c.(904-906)Cct>Tct
T	c.5067C>T	c.(5065-5067)gcC>gcT
A	c.581G>A	c.(580-582)cGa>cAa
A	c.1401C>T	c.(1399-1401)acC>acT
A	c.1115C>T	c.(1114-1116)tCc>tTc
A	c.249G>A	c.(247-249)aaG>aaA
T		
T	c.1338G>A	c.(1336-1338)ggG>ggA
A	c.8859C>T	c.(8857-8859)ccC>ccT
T	c.153G>A	c.(151-153)caG>caA
T	c.2763C>T	c.(2761-2763)ttC>ttT
A	c.2145C>T	c.(2143-2145)tcC>tcT
A	c.559G>A	c.(559-561)Gag>Aag
A	c.83G>A	c.(82-84)aGa>aAa
A	c.7847G>A	c.(7846-7848)gGa>gAa
A	c.1114G>A	c.(1114-1116)Gaa>Aaa
T	c.850C>T	c.(850-852)Ccc>Tcc
A	c.2727C>T	c.(2725-2727)tcC>tcT
T	c.711C>T	c.(709-711)ttC>ttT
T	c.112G>A	c.(112-114)Gag>Aag
A	c.148C>T	c.(148-150)Cgt>Tgt
G	c.719T>C	c.(718-720)gTc>gCc
A	c.479C>T	c.(478-480)tCa>tTa
A	c.1845C>T	c.(1843-1845)ggC>ggT
A	c.8332G>A	c.(8332-8334)Gga>Aga
A	c.3940C>T	c.(3940-3942)Ctt>Ttt
G		
A	c.940C>T	c.(940-942)Cgt>Tgt
T	c.108T>A	c.(106-108)tcT>tcA
A		
G	c.88A>G	c.(88-90)Aaa>Gaa

T	c.3262C>T	c.(3262-3264)Cgg>Tgg
T	c.327C>T	c.(325-327)atC>atT
T	c.1280C>T	c.(1279-1281)tCg>tTg
A	c.541C>T	c.(541-543)Cct>Tct
A	c.2259C>T	c.(2257-2259)gcC>gcT
A	c.2449G>A	c.(2449-2451)Gat>Aat
A	c.543C>T	c.(541-543)ctC>ctT
A	c.271G>A	c.(271-273)Gag>Aag
T	c.1295C>T	c.(1294-1296)cCt>cTt
A		
T	c.6382G>A	c.(6382-6384)Gaa>Aaa
T	c.5327G>A	c.(5326-5328)aGc>aAc
T		
T	c.636C>T	c.(634-636)atC>atT
T	c.344C>T	c.(343-345)cCg>cTg
G		
A	c.1208C>T	c.(1207-1209)cCc>cTc
A	c.333G>A	c.(331-333)cgG>cgA
A	c.620C>T	c.(619-621)tCc>tTc
A		
T	c.755G>A	c.(754-756)gGg>gAg
T	c.2199G>A	c.(2197-2199)ttG>ttA
A	c.50_splice	c.e1+1
A	c.440C>T	c.(439-441)tCa>tTa
A	c.700C>T	c.(700-702)Cga>Tga
T	c.454G>A	c.(454-456)Gaa>Aaa
A	c.997G>T	c.(997-999)Gga>Tga
T	c.3224G>A	c.(3223-3225)cGa>cAa
G	c.2434A>G	c.(2434-2436)Aaa>Gaa
A		
T	c.2468C>T	c.(2467-2469)cCt>cTt
A	c.208G>A	c.(208-210)Ggg>Agg
A	c.2836G>A	c.(2836-2838)Gaa>Aaa
T		
A	c.156C>T	c.(154-156)atC>atT
T	c.906C>T	c.(904-906)acC>acT
A	c.344G>A	c.(343-345)gGg>gAg
A	c.682G>T	c.(682-684)Gga>Tga
A	c.1082G>A	c.(1081-1083)aGa>aAa
T		
T	c.353G>A	c.(352-354)cGc>cAc
T		
A	c.279C>T	c.(277-279)cgC>cgT

A	c.3429G>A	c.(3427-3429)agG>agA
A	c.803G>A	
A	c.828C>T	c.(826-828)ttC>ttT
A	c.1559C>T	c.(1558-1560)tCa>tTa
A	c.124G>A	c.(124-126)Gaa>Aaa
T	c.1030G>A	c.(1030-1032)Gat>Aat
T	c.755C>T	c.(754-756)tCg>tTg
A	c.618G>A	c.(616-618)gcG>gcA
T	c.1998G>A	c.(1996-1998)cgG>cgA
T	c.4642C>T	c.(4642-4644)Ccg>Tcg
T	c.206G>T	c.(205-207)aGg>aTg
A	c.762G>A	c.(760-762)ggG>ggA
T	c.1004C>T	c.(1003-1005)tCc>tTc
A	c.345G>A	
T	c.3623C>T	c.(3622-3624)tCc>tTc
A	c.67G>A	c.(67-69)Gaa>Aaa
A	c.887G>A	c.(886-888)gGa>gAa
T	c.648C>T	c.(646-648)atC>atT
T	c.595C>T	c.(595-597)Cct>Tct
A	c.1242G>A	c.(1240-1242)acG>acA
A	c.1423G>A	c.(1423-1425)Gat>Aat
A	c.147C>T	c.(145-147)atC>atT
T	c.1235C>T	c.(1234-1236)tCc>tTc
A		
T	c.891C>T	c.(889-891)ttC>ttT
A	c.111C>T	c.(109-111)atC>atT
A	c.1333_splice	c.e10+1
A	c.8239G>A	c.(8239-8241)Gaa>Aaa
A		
C		
A	c.1853G>A	c.(1852-1854)gGc>gAc
T	c.1073_splice	c.e15-1
A	c.1732C>A	c.(1732-1734)Cat>Aat
T	c.610G>T	c.(610-612)Gac>Tac
A	c.967G>A	c.(967-969)Gaa>Aaa
T		
C	c.303C>G	c.(301-303)gcC>gcG
T	c.902C>T	c.(901-903)cCc>cTc
T	c.2509C>T	c.(2509-2511)Caa>Taa
T	c.1191G>A	c.(1189-1191)agG>agA
A	c.3072G>A	c.(3070-3072)aaG>aaA
C	c.14369C>G	c.(14368-14370)aCa>aGa
T	c.1822T>A	c.(1822-1824)Tta>Ata



T		
T	c.166C>T	c.(166-168)Ccg>Tcg
A	c.824C>T	c.(823-825)cCc>cTc
T	c.730C>T	c.(730-732)Ctg>Ttg
A		
T	c.324C>T	c.(322-324)tcC>tcT
T	c.1479C>T	c.(1477-1479)ccC>ccT
T	c.6705G>A	c.(6703-6705)cgG>cgA
T	c.1364C>T	c.(1363-1365)cCg>cTg
C	c.1767G>C	c.(1765-1767)ggG>ggC
A	c.324C>T	c.(322-324)gtC>gtT
C	c.1470G>C	c.(1468-1470)cgG>cgC
T	c.1451C>T	c.(1450-1452)tCg>tTg
A	c.361G>A	c.(361-363)Gga>Aga
A	c.1177C>T	c.(1177-1179)Cat>Tat
G	c.2505C>G	c.(2503-2505)ttC>ttG
T	c.1069C>T	c.(1069-1071)Cca>Tca
A	c.1190G>A	
A	c.1061C>T	c.(1060-1062)cCt>cTt
T	c.175C>T	c.(175-177)Cgt>Tgt
A	c.282C>T	c.(280-282)atC>atT
A	c.859G>A	c.(859-861)Gtg>Atg
A	c.211G>A	c.(211-213)Gaa>Aaa
T	c.1089C>T	c.(1087-1089)gtC>gtT
A	c.3672C>T	c.(3670-3672)ttC>ttT
T	c.280C>T	c.(280-282)Cgt>Tgt
T	c.699G>A	c.(697-699)atG>atA
A	c.7992C>T	c.(7990-7992)ttC>ttT
T	c.402G>A	c.(400-402)cgG>cgA
T	c.2606G>A	c.(2605-2607)aGa>aAa
T	c.1006_splice	c.e9+1
T		
A	c.669C>T	c.(667-669)tgC>tgT
T	c.417C>T	c.(415-417)tcC>tcT
T	c.432C>T	c.(430-432)ccC>ccT
T	c.1823C>T	c.(1822-1824)cCa>cTa
A	c.2465C>T	c.(2464-2466)aCc>aTc
A		
A	c.1758G>A	c.(1756-1758)tgG>tgA
A		
T	c.899G>T	c.(898-900)gGc>gTc
T	c.637C>T	c.(637-639)Cag>Tag
T	c.1192G>A	c.(1192-1194)Gag>Aag

T	c.227C>T	c.(226-228)cCc>cTc
T	c.1658C>A	c.(1657-1659)tCc>tAc
A	c.1288C>T	c.(1288-1290)Cct>Tct
A	c.199G>A	c.(199-201)Gat>Aat
T	c.9488G>A	c.(9487-9489)gGa>gAa
T	c.1332C>T	c.(1330-1332)atC>atT
T	c.1557C>T	c.(1555-1557)taC>taT
T	c.520C>T	c.(520-522)Cac>Tac
G	c.190A>C	c.(190-192)Aag>Cag
T	c.3610G>A	c.(3610-3612)Gga>Aga
A	c.525C>T	c.(523-525)ttC>ttT
A	c.154G>T	c.(154-156)Gat>Tat
A	c.10060C>T	c.(10060-10062)Cga>Tga
T	c.1942C>T	c.(1942-1944)Ctg>Ttg
T	c.1033_splice	c.e4-1
A		
A	c.476C>T	c.(475-477)tCc>tTc
C		
T	c.1487G>A	c.(1486-1488)gGa>gAa
A	c.1796C>T	c.(1795-1797)gCc>gTc
G	c.231A>G	c.(229-231)gcA>gcG
C	c.10622T>G	c.(10621-10623)cTt>cGt
T	c.743C>T	c.(742-744)aCt>aTt
A	c.773C>T	c.(772-774)tCc>tTc
T	c.1216C>T	c.(1216-1218)Ccc>Tcc
T	c.2589C>T	c.(2587-2589)tcC>tcT
A	c.298G>A	c.(298-300)Gat>Aat
A	c.1180G>A	c.(1180-1182)Gga>Aga
T	c.99G>A	c.(97-99)gtG>gtA
A	c.491G>A	c.(490-492)gGc>gAc
A	c.755C>T	c.(754-756)cCc>cTc
A	c.1162G>A	c.(1162-1164)Gaa>Aaa
A	c.4033C>T	c.(4033-4035)Cca>Tca
A	c.622G>A	c.(622-624)Gat>Aat
T	c.4695C>T	c.(4693-4695)ttC>ttT
C	c.28A>G	c.(28-30)Aaa>Gaa
T	c.2073C>T	c.(2071-2073)ttC>ttT
A	c.5397C>T	c.(5395-5397)gtC>gtT
G	c.5735T>C	c.(5734-5736)cTt>cCt
A	c.307G>A	c.(307-309)Ggc>Agc
A	c.1899C>T	c.(1897-1899)ccC>ccT
A	c.148G>A	c.(148-150)Gag>Aag
A	c.4G>A	c.(4-6)Gaa>Aaa

A	c.2194C>T	c.(2194-2196)Cct>Tct
A	c.1294C>T	c.(1294-1296)Cca>Tca
T	c.991C>T	c.(991-993)Cct>Tct
T	c.1287C>T	c.(1285-1287)acC>acT
A	c.2456G>A	c.(2455-2457)cGa>cAa
T	c.1282G>A	c.(1282-1284)Gag>Aag
A	c.347C>T	c.(346-348)cCc>cTc
C		
T	c.2402G>A	c.(2401-2403)gGa>gAa
T		
A	c.1086G>A	c.(1084-1086)caG>caA
A	c.483C>T	c.(481-483)ggC>ggT
G		
A	c.931C>T	c.(931-933)Ctg>Ttg
T	c.1099C>T	c.(1099-1101)Ctg>Ttg
G	c.517A>G	c.(517-519)Agt>Ggt
A	c.21G>A	c.(19-21)tgG>tgA
T	c.148G>A	c.(148-150)Gag>Aag
T	c.6982G>A	c.(6982-6984)Gca>Aca
A		
A		
A	c.454C>A	c.(454-456)Ctt>Att
A	c.1341C>T	c.(1339-1341)ctC>ctT
T	c.5004G>A	c.(5002-5004)ttG>ttA
A	c.504C>A	c.(502-504)ttC>ttA
T	c.505G>A	c.(505-507)Gaa>Aaa
A	c.6953C>T	c.(6952-6954)tCt>tTt
T	c.1828G>A	c.(1828-1830)Gag>Aag
T	c.1389C>T	c.(1387-1389)ttC>ttT
A	c.5818G>A	c.(5818-5820)Gaa>Aaa
A	c.1529G>A	c.(1528-1530)tGg>tAg
T	c.1044G>A	c.(1042-1044)atG>atA
T	c.263G>A	c.(262-264)gGg>gAg
T	c.7764G>A	c.(7762-7764)ggG>ggA
T	c.2485C>T	c.(2485-2487)Cca>Tca
C	c.2534T>G	c.(2533-2535)cTc>cGc
T	c.537C>T	c.(535-537)tcC>tcT
T	c.12242G>A	c.(12241-12243)cGa>cAa
A	c.1851G>A	c.(1849-1851)agG>agA
A	c.901C>T	c.(901-903)Ctg>Ttg
A	c.2293G>A	c.(2293-2295)Gaa>Aaa
A	c.1271C>T	c.(1270-1272)tCc>tTc
A	c.3886C>T	c.(3886-3888)Cca>Tca

A	c.394G>A	c.(394-396)Gaa>Aaa
A	c.158G>A	c.(157-159)gGg>gAg
T	c.269C>T	c.(268-270)tCc>tTc
A		
A	c.1415C>T	c.(1414-1416)aCt>aTt
A	c.10245G>A	c.(10243-10245)ctG>ctA
T	c.1038C>T	c.(1036-1038)atC>atT
T	c.1288C>T	c.(1288-1290)Caa>Taa
T	c.1397C>T	c.(1396-1398)tCc>tTc
T	c.6206A>T	c.(6205-6207)gAa>gTa
A	c.1177C>T	c.(1177-1179)Cgt>Tgt
A		
T	c.883G>A	c.(883-885)Gtg>Atg
A	c.256G>A	c.(256-258)Gaa>Aaa
T	c.1627G>A	c.(1627-1629)Gga>Aga
T	c.3343G>A	c.(3343-3345)Gaa>Aaa
T	c.237C>T	c.(235-237)ggC>ggT
T	c.395C>T	c.(394-396)cCc>cTc
A	c.259C>T	c.(259-261)Ctg>Ttg
T	c.724_splice	c.e6+1
T	c.3321C>T	c.(3319-3321)ccC>ccT
T	c.4601C>T	c.(4600-4602)tCt>tTt
T	c.482G>A	c.(481-483)cGa>cAa
T	c.1915G>A	c.(1915-1917)Gat>Aat
A	c.2367G>A	c.(2365-2367)aaG>aaA
A	c.195G>A	c.(193-195)cgG>cgA
A	c.1400C>T	c.(1399-1401)aCc>aTc
G	c.1272A>C	c.(1270-1272)aaA>aaC
T	c.145G>A	c.(145-147)Gaa>Aaa
T	c.102C>T	c.(100-102)tcC>tcT
T	c.45C>T	c.(43-45)ctC>ctT
A	c.113T>A	c.(112-114)cTt>cAt
T	c.6988C>A	c.(6988-6990)Cac>Aac
T	c.1371C>T	c.(1369-1371)atC>atT
T	c.1761C>T	c.(1759-1761)caC>caT
T	c.574G>A	c.(574-576)Gct>Act
T	c.229C>T	c.(229-231)Ctc>Ttc
A	c.1449G>A	c.(1447-1449)aaG>aaA
A	c.196G>A	c.(196-198)Gga>Aga
A	c.1347C>T	c.(1345-1347)gtC>gtT
A	c.1089G>A	c.(1087-1089)acG>acA
T	c.1981G>A	c.(1981-1983)Gaa>Aaa
A	c.3039C>T	c.(3037-3039)tcC>tcT

G		
T		
T	c.1049G>A	c.(1048-1050)gGa>gAa
T	c.2111G>A	c.(2110-2112)gGa>gAa
A	c.801C>T	c.(799-801)tcC>tcT
A	c.1351C>T	c.(1351-1353)Ccc>Tcc
G	c.617A>G	c.(616-618)gAg>gGg
A	c.2122C>T	c.(2122-2124)Ccg>Tcg
A	c.1050C>T	c.(1048-1050)tcC>tcT
T	c.12544G>A	c.(12544-12546)Gaa>Aaa
T		
A	c.5379G>A	c.(5377-5379)caG>caA
A		
C		
T	c.241_splice	c.e2+1
A	c.1788C>T	c.(1786-1788)ccC>ccT
C		
T		
T	c.1883C>T	c.(1882-1884)tCg>tTg
T	c.5377G>A	c.(5377-5379)Gat>Aat
T	c.3065G>A	c.(3064-3066)gGa>gAa
A	c.1616C>T	c.(1615-1617)tCc>tTc
T	c.468C>T	c.(466-468)gcC>gcT
T	c.11794G>A	c.(11794-11796)Gat>Aat
A	c.260C>T	c.(259-261)tCc>tTc
A	c.627G>A	c.(625-627)ccG>ccA
A	c.1293C>T	c.(1291-1293)ctC>ctT
T	c.815C>T	c.(814-816)gCc>gTc
A		
A	c.4715G>A	c.(4714-4716)gGa>gAa
T		
T	c.2716C>T	c.(2716-2718)Ctg>Ttg
T	c.2633G>A	c.(2632-2634)gGa>gAa
G	c.914T>C	c.(913-915)gTt>gCt
A	c.4483G>A	
T	c.936C>T	c.(934-936)ccC>ccT
A	c.63C>T	c.(61-63)atC>atT
A	c.1454C>T	c.(1453-1455)aCg>aTg
G		
T	c.534C>T	c.(532-534)ccC>ccT
T	c.762C>T	c.(760-762)atC>atT
T	c.8395C>T	c.(8395-8397)Ctc>Ttc
A	c.412G>A	c.(412-414)Gaa>Aaa

A	c.3218C>T	c.(3217-3219)tCc>tTc
A	c.314C>T	c.(313-315)cCc>cTc
A	c.49C>T	c.(49-51)Cct>Tct
T	c.5004G>A	c.(5002-5004)cgG>cgA
T	c.1835C>T	c.(1834-1836)gCc>gTc
A	c.940G>A	c.(940-942)Gga>Aga
A	c.1100C>T	c.(1099-1101)tCg>tTg
T		
A	c.333G>A	c.(331-333)agG>agA
T	c.1274C>T	c.(1273-1275)tCa>tTa
A	c.7609C>T	c.(7609-7611)Cgt>Tgt
T	c.2054C>T	c.(2053-2055)tCc>tTc
A	c.1409C>T	c.(1408-1410)aCc>aTc
A		
A	c.1965_splice	c.e11-1
T	c.2873C>A	c.(2872-2874)tCg>tAg
A		
T	c.274C>T	c.(274-276)Cct>Tct
G	c.571A>C	c.(571-573)Aag>Cag
T	c.721G>A	c.(721-723)Gaa>Aaa
A	c.955G>A	c.(955-957)Gtg>Atg
A	c.1766C>T	c.(1765-1767)cCc>cTc
A	c.2496C>T	c.(2494-2496)ggC>ggT
G	c.512G>C	c.(511-513)gGt>gCt
T	c.874G>T	c.(874-876)Gag>Tag
A	c.80C>T	c.(79-81)tCt>tTt
T	c.1109C>T	c.(1108-1110)cCt>cTt
A	c.466C>T	c.(466-468)Caa>Taa
A	c.566C>T	c.(565-567)tCc>tTc
T		
G		
A	c.2234G>A	c.(2233-2235)cGa>cAa
A	c.627G>A	c.(625-627)aaG>aaA
T	c.1620G>A	c.(1618-1620)gaG>gaA
A	c.594C>T	c.(592-594)atC>atT
T		
T	c.1345G>A	c.(1345-1347)Gga>Aga
T	c.709C>T	c.(709-711)Cgg>Tgg
T	c.4885C>T	c.(4885-4887)Ctg>Ttg
A	c.1366C>T	c.(1366-1368)Cca>Tca
T	c.3837C>T	c.(3835-3837)gtC>gtT
A	c.2151C>T	c.(2149-2151)atC>atT
A		

A	c.19C>T	c.(19-21)Cct>Tct
T	c.4586C>T	c.(4585-4587)tCt>tTt
T	c.10146G>A	c.(10144-10146)atG>atA
T	c.734C>T	c.(733-735)cCc>cTc
A		
T	c.398C>T	c.(397-399)tCa>tTa
A	c.35C>T	c.(34-36)cCg>cTg
A	c.997G>A	c.(997-999)Gaa>Aaa
T	c.182C>T	c.(181-183)tCg>tTg
T	c.57C>T	c.(55-57)ttC>ttT
T	c.151C>T	c.(151-153)Ccc>Tcc
T		
T	c.1205C>T	c.(1204-1206)aCc>aTc
A	c.3278G>A	c.(3277-3279)tGg>tAg
T	c.592G>A	c.(592-594)Ggg>Agg
A	c.397G>A	c.(397-399)Gag>Aag
T	c.1074C>T	c.(1072-1074)ttC>ttT
T	c.2330C>T	c.(2329-2331)tCg>tTg
A	c.2302C>T	c.(2302-2304)Cgt>Tgt
T	c.1024G>A	c.(1024-1026)Gag>Aag
T	c.467G>A	c.(466-468)cGa>cAa
A	c.1556C>T	c.(1555-1557)tCc>tTc
C	c.1135T>C	c.(1135-1137)Tcg>Ccg
A	c.614G>A	c.(613-615)gGa>gAa
C	c.559G>C	c.(559-561)Gat>Cat
T	c.201G>A	c.(199-201)ggG>ggA
A	c.911G>A	c.(910-912)gGg>gAg
A	c.47C>T	c.(46-48)cCc>cTc
T	c.3709G>A	c.(3709-3711)Gaa>Aaa
A	c.450C>T	c.(448-450)atC>atT
A	c.4974C>T	c.(4972-4974)gaC>gaT
T	c.969G>A	c.(967-969)cgG>cgA
A		
A	c.376G>A	c.(376-378)Gaa>Aaa
A	c.66G>A	c.(64-66)aaG>aaA
A	c.226G>A	c.(226-228)Gaa>Aaa
T		
T	c.447G>A	c.(445-447)aaG>aaA
T	c.626G>A	c.(625-627)cGa>cAa
C		
G	c.503T>G	c.(502-504)aTc>aGc
A	c.801C>T	c.(799-801)ggC>ggT
T	c.1473C>T	c.(1471-1473)atC>atT

T	c.481G>A	c.(481-483)Gat>Aat
T	c.514G>A	c.(514-516)Gag>Aag
A	c.493C>T	c.(493-495)Cgc>Tgc
T	c.4696C>T	c.(4696-4698)Cgg>Tgg
T	c.224C>T	c.(223-225)tCa>tTa
A		
A	c.1422G>A	c.(1420-1422)agG>agA
A	c.486G>A	c.(484-486)agG>agA
T	c.102G>A	c.(100-102)gtG>gtA
T	c.656G>A	c.(655-657)gGa>gAa
A	c.725C>T	c.(724-726)tCa>tTa
T	c.1101C>T	c.(1099-1101)ttC>ttT
A	c.1172_splice	c.e9-1
A	c.8026G>T	c.(8026-8028)Gat>Tat
T	c.103C>T	c.(103-105)Cat>Tat
A	c.1715C>T	c.(1714-1716)cCc>cTc
A	c.614C>T	c.(613-615)tCc>tTc
T	c.201C>T	c.(199-201)gcC>gcT
A	c.530C>T	c.(529-531)cCc>cTc
T	c.841C>T	c.(841-843)Cct>Tct
A	c.1602_splice	c.e10-1
T	c.1153G>A	c.(1153-1155)Gga>Aga
A	c.390C>T	c.(388-390)acC>acT
A	c.2942G>T	c.(2941-2943)aGa>aTa
A	c.705C>T	c.(703-705)ccC>ccT
A	c.1500C>T	c.(1498-1500)tcC>tcT
A	c.1736C>T	c.(1735-1737)cCt>cTt
G	c.97T>C	c.(97-99)Ttg>Ctg
A	c.10832C>T	c.(10831-10833)tCc>tTc
A	c.73C>T	c.(73-75)Cgg>Tgg
A	c.8722C>T	
A	c.1909G>A	c.(1909-1911)Gaa>Aaa
A	c.1264G>A	c.(1264-1266)Ggc>Agc
T	c.292G>A	c.(292-294)Gat>Aat
T	c.2948C>T	c.(2947-2949)cCa>cTa
A	c.842T>A	c.(841-843)tTt>tAt
A	c.476G>A	c.(475-477)gGa>gAa
T		
T	c.847C>T	c.(847-849)Cag>Tag
T	c.4125C>T	c.(4123-4125)ccC>ccT
T	c.1194C>T	c.(1192-1194)ttC>ttT
T	c.882G>A	c.(880-882)ggG>ggA
T	c.888G>A	c.(886-888)tcG>tcA



A	c.297C>T	c.(295-297)ggC>ggT
T	c.1461C>T	c.(1459-1461)ggC>ggT
T	c.324C>T	c.(322-324)atC>atT
T	c.1224G>A	c.(1222-1224)tgG>tgA
T	c.2854G>A	c.(2854-2856)Gaa>Aaa
A	c.544_splice	c.e4+1
A	c.185G>A	c.(184-186)cGa>cAa
T	c.11884C>A	c.(11884-11886)Cat>Aat
A	c.352C>T	c.(352-354)Cgt>Tgt
T	c.1288C>T	c.(1288-1290)Cct>Tct
T	c.2047C>A	c.(2047-2049)Cta>Ata
T		
T	c.2311C>T	c.(2311-2313)Ctc>Ttc
A	c.262C>T	c.(262-264)Cgc>Tgc
T	c.1387C>T	c.(1387-1389)Ccc>Tcc
T		
T	c.1200C>T	c.(1198-1200)atC>atT
C	c.933G>C	c.(931-933)gaG>gaC
C	c.1643T>C	c.(1642-1644)cTg>cCg
A	c.724G>A	c.(724-726)Gaa>Aaa
A	c.956C>T	c.(955-957)cCt>cTt
A	c.306C>T	c.(304-306)tcC>tcT
T	c.803C>T	c.(802-804)cCt>cTt
T	c.1300C>T	c.(1300-1302)Cgg>Tgg
T	c.3106G>A	c.(3106-3108)Ggg>Agg
T	c.105G>A	c.(103-105)gaG>gaA
A	c.701T>A	
A	c.1499C>T	c.(1498-1500)tCc>tTc
A	c.2052C>T	c.(2050-2052)ctC>ctT
C	c.1102G>C	c.(1102-1104)Ggg>Cgg
A	c.1539G>A	c.(1537-1539)caG>caA
T	c.2716C>T	c.(2716-2718)Cct>Tct
C		
A	c.1221C>A	c.(1219-1221)ttC>ttA
A	c.715C>T	c.(715-717)Cct>Tct
T		
T	c.1324G>A	c.(1324-1326)Gaa>Aaa
A	c.420C>T	c.(418-420)tcC>tcT
T	c.2595C>T	c.(2593-2595)atC>atT
A	c.871C>T	c.(871-873)Ccg>Tcg
T		
A		
A		

C	c.2032A>G	c.(2032-2034)Aaa>Gaa
T	c.2994C>T	c.(2992-2994)ttC>ttT
T	c.2229G>A	c.(2227-2229)gtG>gtA
A	c.682C>T	c.(682-684)Ccc>Tcc
T	c.1402C>T	c.(1402-1404)Ccc>Tcc
A	c.1136C>T	c.(1135-1137)aCt>aTt
A		
T	c.1853C>T	c.(1852-1854)gCg>gTg
T	c.157G>T	c.(157-159)Ggg>Tgg
T	c.511G>A	c.(511-513)Ggt>Agt
T	c.158C>T	c.(157-159)tCc>tTc
A		
C	c.3295G>C	c.(3295-3297)Gaa>Caa
A	c.789C>T	c.(787-789)gtC>gtT
T	c.4269C>T	c.(4267-4269)ttC>ttT
T	c.1435A>T	c.(1435-1437)Aaa>Taa
A	c.1033G>A	
T	c.7C>T	c.(7-9)Cca>Tca
T	c.1030C>T	c.(1030-1032)Caa>Taa
A	c.319G>A	c.(319-321)Ggc>Agc
A	c.55C>T	c.(55-57)Cat>Tat
A	c.428C>T	c.(427-429)gCt>gTt
T	c.349G>A	c.(349-351)Gag>Aag
A		
A	c.2165C>T	c.(2164-2166)tCc>tTc
T	c.1379C>T	c.(1378-1380)tCc>tTc
A	c.929G>A	c.(928-930)gGg>gAg
T	c.5419G>A	c.(5419-5421)Gtt>Att
A	c.1180C>T	c.(1180-1182)Cga>Tga
T	c.1428C>T	c.(1426-1428)ttC>ttT
T	c.2362A>T	c.(2362-2364)Act>Tct
T		
A	c.679_splice	c.e9+1
A	c.3121G>A	c.(3121-3123)Gaa>Aaa
A	c.233G>T	c.(232-234)gGg>gTg
A	c.1707C>T	c.(1705-1707)ctC>ctT
T	c.578C>T	c.(577-579)gCc>gTc
T	c.3G>A	c.(1-3)atG>atA
T	c.1384G>A	c.(1384-1386)Gaa>Aaa
A	c.-107_splice	c.e1-1
T	c.68A>T	c.(67-69)aAa>aTa
A	c.325_splice	c.e3-1
A		

T	c.184C>T	c.(184-186)Cat>Tat
A	c.497C>T	c.(496-498)cCt>cTt
T	c.919G>A	c.(919-921)Gat>Aat
A	c.4700C>T	c.(4699-4701)tCc>tTc
T	c.1384C>T	c.(1384-1386)Ctc>Ttc
A	c.1751C>A	c.(1750-1752)aCt>aAt
A	c.680G>A	c.(679-681)gGa>gAa
A	c.6199_splice	c.e43-1
A	c.1259G>A	c.(1258-1260)cGa>cAa
T		
T		
A	c.1125_splice	c.e12+1
T	c.569C>T	c.(568-570)cCt>cTt
A	c.555T>A	c.(553-555)ttT>ttA
A		
A	c.1072C>T	c.(1072-1074)Cac>Tac
T	c.368C>T	c.(367-369)tCg>tTg
T	c.4051C>T	c.(4051-4053)Caa>Taa
T	c.511C>T	c.(511-513)Cct>Tct
A	c.1162G>A	c.(1162-1164)Gag>Aag
T		
A	c.1662G>A	c.(1660-1662)cgG>cgA
T	c.2557C>T	c.(2557-2559)Cca>Tca
T	c.248C>T	c.(247-249)cCt>cTt
T	c.534C>T	c.(532-534)atC>atT
A	c.535G>A	c.(535-537)Gaa>Aaa
T	c.663G>A	
T	c.750G>A	c.(748-750)ggG>ggA
T	c.32C>T	c.(31-33)cCt>cTt
A	c.2515C>T	c.(2515-2517)Cgt>Tgt
T	c.3856C>T	c.(3856-3858)Ccg>Tcg
A	c.2679C>T	c.(2677-2679)gcC>gcT
A	c.1217G>A	c.(1216-1218)gGc>gAc
T	c.1478C>T	c.(1477-1479)cCc>cTc
A	c.1182C>T	c.(1180-1182)ctC>ctT
T	c.29C>T	c.(28-30)tCg>tTg
C	c.1138A>C	c.(1138-1140)Aag>Cag
A	c.560G>A	c.(559-561)gGc>gAc
T	c.448T>A	c.(448-450)Tgg>Agg
A	c.1431C>T	c.(1429-1431)tcC>tcT
T	c.1204G>A	c.(1204-1206)Ggc>Agc
T	c.2245_splice	c.e30-1
A	c.880G>A	c.(880-882)Gga>Aga

A	c.3696C>T	c.(3694-3696)ccC>ccT
T	c.5577C>T	c.(5575-5577)ccC>ccT
T	c.1425G>A	c.(1423-1425)tcG>tcA
A	c.852C>T	c.(850-852)tcC>tcT
A		
T		
A	c.3454C>T	c.(3454-3456)Ccc>Tcc
G	c.639C>G	c.(637-639)atC>atG
G	c.702A>C	c.(700-702)caA>caC
A	c.1013C>T	c.(1012-1014)cCa>cTa
A		
T	c.23178G>A	c.(23176-23178)agG>agA
A	c.1606C>T	c.(1606-1608)Cca>Tca
A	c.2412_splice	c.e10+1
T	c.3344_splice	c.e21-1
T		
T	c.6646C>T	c.(6646-6648)Ccc>Tcc
A	c.918C>T	c.(916-918)ctC>ctT
T	c.846C>T	c.(844-846)aaC>aaT
A	c.1551C>T	c.(1549-1551)ccC>ccT
A	c.792C>T	c.(790-792)gcC>gcT
A	c.916C>T	c.(916-918)Cac>Tac
A	c.928G>A	c.(928-930)Gag>Aag
A	c.900C>T	c.(898-900)atC>atT
A	c.55G>A	c.(55-57)Gac>Aac
T	c.476C>T	c.(475-477)tCc>tTc
A	c.558G>A	c.(556-558)ctG>ctA
A	c.2571G>A	c.(2569-2571)aaG>aaA
A	c.262C>T	c.(262-264)Cat>Tat
A	c.453G>A	c.(451-453)gcG>gcA
T	c.857C>T	c.(856-858)cCc>cTc
T	c.76C>T	c.(76-78)Cag>Tag
A	c.1390C>T	c.(1390-1392)Cta>Tta
A	c.184G>A	c.(184-186)Gag>Aag
A		
T	c.1836C>T	c.(1834-1836)atC>atT
C	c.449A>G	c.(448-450)aAc>aGc
A	c.1615T>A	c.(1615-1617)Tcc>Acc
A		
A		
T	c.2479G>A	c.(2479-2481)Gag>Aag
A	c.567G>A	c.(565-567)tgG>tgA
A		

T	c.348G>A	c.(346-348)aaG>aaA
A	c.756C>T	c.(754-756)ccC>ccT
A	c.1168C>T	c.(1168-1170)Cca>Tca
T	c.540C>T	c.(538-540)ttC>ttT
A	c.583C>T	c.(583-585)Ctt>Ttt
A	c.7689C>T	c.(7687-7689)ccC>ccT
T	c.154C>T	c.(154-156)Cca>Tca
G		
A	c.1024A>T	c.(1024-1026)Aag>Tag
A	c.426C>T	c.(424-426)agC>agT
T	c.467G>A	c.(466-468)gGa>gAa
A	c.97G>A	c.(97-99)Ggt>Agt
T	c.293G>A	c.(292-294)aGa>aAa
A	c.461G>A	c.(460-462)gGc>gAc
A		
T	c.741C>T	c.(739-741)tcC>tcT
A	c.123C>T	c.(121-123)gcC>gcT
T	c.300C>T	c.(298-300)ttC>ttT
A	c.6097G>A	c.(6097-6099)Gta>Ata
T	c.179G>A	c.(178-180)aGg>aAg
T	c.3205G>A	c.(3205-3207)Gag>Aag
C	c.2143G>C	c.(2143-2145)Gat>Cat
T	c.3508C>T	c.(3508-3510)Ctt>Ttt
A	c.2959C>A	c.(2959-2961)Cga>Aga
A	c.3555C>T	c.(3553-3555)tcC>tcT
A	c.458C>T	c.(457-459)cCt>cTt
A	c.1186G>A	c.(1186-1188)Gaa>Aaa
A	c.1874C>T	c.(1873-1875)tCc>tTc
A	c.280C>T	c.(280-282)Ccg>Tcg
T	c.3777G>A	c.(3775-3777)caG>caA
A	c.9814G>A	c.(9814-9816)Gaa>Aaa
T	c.8119G>A	c.(8119-8121)Gga>Aga
T		
A	c.4868C>T	c.(4867-4869)tCt>tTt
T		
T	c.23523G>A	c.(23521-23523)ggG>ggA
G		
T	c.344C>T	c.(343-345)cCg>cTg
A	c.5243C>T	c.(5242-5244)tCg>tTg
A		
A		
A	c.1583T>A	c.(1582-1584)cTc>cAc
T	c.138G>A	c.(136-138)ggG>ggA

T	c.682C>T	c.(682-684)Ccc>Tcc
T	c.1429C>T	c.(1429-1431)Ctg>Ttg
T	c.1892_splice	c.e12-1
A	c.1345G>A	c.(1345-1347)Gac>Aac
T	c.502C>T	c.(502-504)Ccg>Tcg
A	c.5647C>T	c.(5647-5649)Ctt>Ttt
A	c.1311C>T	c.(1309-1311)gcC>gcT
T	c.453G>A	c.(451-453)caG>caA
T	c.2585G>A	c.(2584-2586)tGa>tAa
T	c.3547G>A	c.(3547-3549)Gac>Aac
A	c.1936C>T	c.(1936-1938)Ccc>Tcc
T	c.269G>A	c.(268-270)aGa>aAa
G	c.1697G>C	c.(1696-1698)gGg>gCg
A		
T	c.102C>T	c.(100-102)tcC>tcT
T		
A		
A	c.1600C>T	c.(1600-1602)Cct>Tct
T	c.1146C>T	c.(1144-1146)atC>atT
T	c.1459G>A	c.(1459-1461)Gcc>Acc
A	c.1426G>A	c.(1426-1428)Gga>Aga
A	c.1169C>T	c.(1168-1170)tCg>tTg
C	c.479T>C	c.(478-480)gTg>gCg
T		
A	c.4385G>A	c.(4384-4386)aGc>aAc
A	c.309C>T	c.(307-309)gtC>gtT
A	c.1705G>A	c.(1705-1707)Ggc>Agc
A	c.247C>T	c.(247-249)Caa>Taa
T	c.5360G>A	c.(5359-5361)aGa>aAa
A	c.671C>T	c.(670-672)tCt>tTt
A		
T	c.1025G>A	c.(1024-1026)aGg>aAg
A	c.783G>A	c.(781-783)tgG>tgA
A	c.298C>T	c.(298-300)Cgc>Tgc
A	c.2839G>A	c.(2839-2841)Ggc>Agc
A	c.410_splice	c.e5-1
T	c.206C>A	c.(205-207)tCc>tAc
T	c.112C>T	c.(112-114)Ctt>Ttt
T	c.1525C>T	c.(1525-1527)Ccc>Tcc
T	c.1238G>A	
A	c.1192G>A	c.(1192-1194)Gga>Aga
A	c.2519C>T	c.(2518-2520)cCg>cTg
A	c.336C>T	c.(334-336)tcC>tcT

T	c.681G>A	c.(679-681)agG>agA
T	c.151G>A	c.(151-153)Ggg>Agg
T	c.1196G>A	c.(1195-1197)cGa>cAa
T	c.84G>A	c.(82-84)ggG>ggA
A	c.3358C>T	c.(3358-3360)Cgg>Tgg
A	c.1534C>T	c.(1534-1536)Cac>Tac
T	c.4646C>T	c.(4645-4647)tCt>tTt
A	c.598A>T	c.(598-600)Aaa>Taa
A	c.2218G>A	c.(2218-2220)Gaa>Aaa
T	c.342C>T	c.(340-342)aaC>aaT
T	c.296C>T	c.(295-297)gCc>gTc
A	c.1062C>T	c.(1060-1062)ttC>ttT
A	c.3106C>T	c.(3106-3108)Cga>Tga
A	c.738C>T	c.(736-738)ttC>ttT
A	c.840G>A	c.(838-840)ccG>ccA
A	c.249G>A	c.(247-249)tgG>tgA
T	c.751_splice	c.e8-1
A	c.1951G>A	c.(1951-1953)Gag>Aag
T	c.33204G>A	
A	c.1152G>A	c.(1150-1152)caG>caA
A	c.667G>A	c.(667-669)Gag>Aag
T		
T	c.3248C>T	c.(3247-3249)aCt>aTt
A	c.247C>T	c.(247-249)Cga>Tga
A		
A	c.596G>A	c.(595-597)gGa>gAa
T	c.301C>T	c.(301-303)Cag>Tag
T	c.6934G>A	c.(6934-6936)Gat>Aat
G		
A	c.156C>T	c.(154-156)gcC>gcT
T	c.1411G>A	c.(1411-1413)Gtg>Atg
T		
T	c.1457C>T	c.(1456-1458)cCa>cTa
T	c.2345G>A	c.(2344-2346)aGg>aAg
A	c.277C>T	c.(277-279)Ctc>Ttc
T	c.460C>T	c.(460-462)Cct>Tct
A	c.400A>T	c.(400-402)Agt>Tgt
A		
T	c.713G>A	c.(712-714)gGt>gAt
T		
T	c.439G>A	c.(439-441)Ggc>Agc
T	c.1747G>A	c.(1747-1749)Gaa>Aaa
G		

T	c.89C>T	c.(88-90)tCt>tTt
A	c.358G>A	c.(358-360)Gaa>Aaa
C	c.242A>C	c.(241-243)aAc>aCc
A	c.1627C>T	c.(1627-1629)Cca>Tca
A		
T		
G	c.3871T>C	c.(3871-3873)Tac>Cac
T	c.476G>A	c.(475-477)cGg>cAg
A	c.864C>T	c.(862-864)atC>atT
A	c.1716C>T	c.(1714-1716)ccC>ccT
T		
G	c.919A>G	c.(919-921)Aac>Gac
A	c.444C>T	c.(442-444)taC>taT
T	c.1294G>A	c.(1294-1296)Gaa>Aaa
A	c.232C>T	c.(232-234)Ctc>Ttc
A	c.313G>A	c.(313-315)Gaa>Aaa
T		
A	c.265C>T	c.(265-267)Cgg>Tgg
A	c.23C>T	c.(22-24)tCt>tTt
A	c.1861C>T	c.(1861-1863)Cct>Tct
A	c.502C>T	
A	c.660G>A	c.(658-660)gtG>gtA
A		
A	c.1492G>A	c.(1492-1494)Ggg>Agg
A	c.692C>T	c.(691-693)tCc>tTc
T	c.900C>T	c.(898-900)atC>atT
T	c.495C>T	c.(493-495)tgC>tgT
T	c.836G>T	c.(835-837)gGa>gTa
T		
T	c.423C>T	c.(421-423)ttC>ttT
A		
T	c.224C>T	c.(223-225)gCc>gTc
A	c.7313G>A	c.(7312-7314)gGa>gAa
T	c.188C>T	c.(187-189)cCc>cTc
T	c.344C>T	c.(343-345)tCc>tTc
G		
T	c.2796C>T	c.(2794-2796)atC>atT
A	c.3805C>T	c.(3805-3807)Cgt>Tgt
A	c.1348C>T	c.(1348-1350)Cgc>Tgc
T	c.2215G>A	c.(2215-2217)Gag>Aag
T	c.1437G>A	c.(1435-1437)agG>agA
T	c.744C>T	c.(742-744)tcC>tcT
T	c.152C>T	c.(151-153)cCc>cTc



T		
A	c.505C>T	c.(505-507)Ctg>Ttg
A	c.6949C>T	c.(6949-6951)Cga>Tga
T	c.558C>T	c.(556-558)atC>atT
G	c.1293C>G	c.(1291-1293)gaC>gaG
A	c.793G>A	c.(793-795)Gac>Aac
T	c.1925C>T	c.(1924-1926)gCg>gTg
A		
A	c.2811C>T	c.(2809-2811)atC>atT
T	c.346G>A	c.(346-348)Ggg>Agg
T	c.1049_splice	c.e7+1
T	c.33C>T	c.(31-33)gcC>gcT
A	c.371C>T	c.(370-372)gCt>gTt
T	c.907G>A	c.(907-909)Gag>Aag
A	c.3928G>A	c.(3928-3930)Gag>Aag
A	c.1063C>T	c.(1063-1065)Cgt>Tgt
T	c.931C>T	c.(931-933)Cag>Tag
T	c.2190C>T	c.(2188-2190)ccC>ccT
T	c.1121G>A	c.(1120-1122)cGa>cAa
A	c.3902C>T	c.(3901-3903)tCt>tTt
A	c.54G>A	c.(52-54)agG>agA
A	c.1605G>A	c.(1603-1605)aaG>aaA
T	c.1258C>T	c.(1258-1260)Cca>Tca
T	c.1140G>A	c.(1138-1140)ctG>ctA
A	c.395G>A	c.(394-396)gGg>gAg
A	c.8299_splice	c.e56-1
A	c.176C>A	c.(175-177)gCc>gAc
C	c.4119T>C	c.(4117-4119)ttT>ttC
T	c.1008C>T	c.(1006-1008)tcC>tcT
A	c.1122C>T	c.(1120-1122)atC>atT
A	c.953C>T	c.(952-954)gCc>gTc
A	c.2522C>T	c.(2521-2523)cCc>cTc
T	c.9678G>A	c.(9676-9678)gcG>gcA
A	c.645C>T	c.(643-645)ctC>ctT
A	c.2406C>T	c.(2404-2406)atC>atT
A	c.1238C>T	c.(1237-1239)gCc>gTc
G	c.161T>G	
G	c.1016T>C	c.(1015-1017)aTa>aCa
A	c.201G>A	c.(199-201)cgG>cgA
A	c.93G>A	c.(91-93)agG>agA
A		
T	c.189C>T	c.(187-189)ccC>ccT
C	c.127T>G	c.(127-129)Tct>Gct

A		
A	c.34G>A	c.(34-36)Gcc>Acc
A	c.1501G>A	c.(1501-1503)Gaa>Aaa
C	c.4382A>C	c.(4381-4383)gAt>gCt
T	c.313C>T	c.(313-315)Cgt>Tgt
A	c.1318C>T	c.(1318-1320)Ccc>Tcc
T	c.545C>T	c.(544-546)cCc>cTc
T	c.2242_splice	c.e16-1
A	c.3369G>A	c.(3367-3369)gtG>gtA
A	c.715C>T	c.(715-717)Cct>Tct
T	c.232C>T	c.(232-234)Cag>Tag
T	c.648C>T	c.(646-648)acC>acT
A	c.6907G>A	c.(6907-6909)Gat>Aat
T	c.579G>A	c.(577-579)ggG>ggA
A	c.1211G>A	c.(1210-1212)gGg>gAg
T	c.144C>T	c.(142-144)ggC>ggT
A	c.952G>A	c.(952-954)Gat>Aat
T	c.445C>T	c.(445-447)Ctg>Ttg
A	c.1481T>A	c.(1480-1482)cTg>cAg
T	c.665C>T	c.(664-666)cCa>cTa
C	c.178A>C	c.(178-180)Aac>Cac
T	c.442C>T	c.(442-444)Cct>Tct
A	c.213C>T	c.(211-213)ttC>ttT
T	c.567G>A	c.(565-567)ctG>ctA
A	c.2493C>T	c.(2491-2493)gcC>gcT
T	c.823C>T	c.(823-825)Ctc>Ttc
A	c.2767G>A	c.(2767-2769)Gag>Aag
A	c.1950G>A	c.(1948-1950)acG>acA
A	c.3219C>T	c.(3217-3219)tcC>tcT
A	c.2136C>T	c.(2134-2136)ccC>ccT
T	c.279G>A	c.(277-279)atG>atA
T	c.3646C>T	c.(3646-3648)Cgt>Tgt
T	c.1226C>T	c.(1225-1227)tCt>tTt
T	c.847C>T	c.(847-849)Cgc>Tgc
A		
G	c.201T>G	c.(199-201)aaT>aaG
T	c.4138C>T	c.(4138-4140)Cat>Tat
A	c.1417C>T	c.(1417-1419)Ccc>Tcc
T	c.803G>A	c.(802-804)cGa>cAa
T	c.790C>T	c.(790-792)Cct>Tct
T	c.1601G>A	c.(1600-1602)gGt>gAt
T	c.477G>A	c.(475-477)cgG>cgA
T	c.2408C>T	c.(2407-2409)tCc>tTc

T		
A	c.3428G>A	c.(3427-3429)aGg>aAg
A	c.5156C>T	c.(5155-5157)tCc>tTc
C	c.488T>G	c.(487-489)tTt>tGt
A	c.790G>A	c.(790-792)Gaa>Aaa
T	c.319G>A	c.(319-321)Gaa>Aaa
T	c.54C>T	c.(52-54)atC>atT
T	c.2541C>T	c.(2539-2541)ctC>ctT
A	c.1592C>T	c.(1591-1593)tCc>tTc
A	c.1022G>A	c.(1021-1023)cGa>cAa
T	c.326G>A	c.(325-327)gGc>gAc
T	c.164G>A	c.(163-165)cGc>cAc
A	c.7338C>T	c.(7336-7338)atC>atT
T	c.1388G>A	c.(1387-1389)gGa>gAa
T	c.427G>A	c.(427-429)Gga>Aga
A	c.779G>A	c.(778-780)aGt>aAt
A	c.863G>A	c.(862-864)aGg>aAg
T	c.2835G>A	c.(2833-2835)aaG>aaA
C	c.1176T>G	c.(1174-1176)tcT>tcG
T		
T	c.2449C>T	c.(2449-2451)Cat>Tat
T		
G	c.1368A>G	c.(1366-1368)gtA>gtG
A	c.972C>T	c.(970-972)gcC>gcT
A	c.420G>A	c.(418-420)aaG>aaA
A	c.16C>T	c.(16-18)Ccc>Tcc
T		
T	c.800C>T	c.(799-801)cCc>cTc
A	c.2082C>T	c.(2080-2082)tcC>tcT
A	c.2569G>A	c.(2569-2571)Gga>Aga
T	c.1085_splice	c.e8-1
T	c.406G>T	c.(406-408)Gaa>Taa
T	c.1038G>A	c.(1036-1038)gcG>gcA
A	c.642C>T	c.(640-642)gcC>gcT
T		
T	c.333C>T	c.(331-333)gcC>gcT
A	c.1605A>T	c.(1603-1605)aaA>aaT
T	c.286C>T	c.(286-288)Ctg>Ttg
A		
C	c.765T>C	c.(763-765)tcT>tcC
A	c.781G>A	c.(781-783)Gct>Act
T	c.2310A>T	c.(2308-2310)acA>acT
T	c.510C>T	c.(508-510)ttC>ttT

T	c.461G>A	c.(460-462)cGa>cAa
T		
T	c.5061C>T	c.(5059-5061)gtC>gtT
A	c.3609G>A	c.(3607-3609)aaG>aaA
T	c.1350C>T	c.(1348-1350)ttC>ttT
T	c.471G>A	c.(469-471)gtG>gtA
G	c.865T>C	
A		
A		
A	c.1295G>A	c.(1294-1296)cGc>cAc
A	c.1437C>T	c.(1435-1437)atC>atT
T	c.8847G>A	c.(8845-8847)aaG>aaA
C	c.682A>G	c.(682-684)Aga>Gga
T	c.287C>T	c.(286-288)tCc>tTc
T	c.5031C>T	c.(5029-5031)ttC>ttT
A	c.295G>A	c.(295-297)Gaa>Aaa
T	c.104C>T	c.(103-105)cCc>cTc
A	c.756C>T	c.(754-756)ctC>ctT
C	c.1354T>C	c.(1354-1356)Tcc>Ccc
T	c.280C>T	c.(280-282)Cgg>Tgg
T	c.65518G>A	c.(65518-65520)Ggg>Agg
T	c.418G>A	c.(418-420)Gag>Aag
A	c.4244C>T	c.(4243-4245)cCc>cTc
A	c.8691C>T	c.(8689-8691)gcC>gcT
A	c.893C>T	c.(892-894)tCg>tTg
T	c.2705C>T	c.(2704-2706)tCg>tTg
T	c.286G>T	c.(286-288)Gag>Tag
T	c.1580C>T	c.(1579-1581)cCc>cTc
T	c.167C>T	c.(166-168)tCc>tTc
T	c.10379G>A	c.(10378-10380)aGg>aAg
G	c.299T>C	c.(298-300)gTt>gCt
A	c.2221C>T	c.(2221-2223)Caa>Taa
G	c.315T>C	c.(313-315)tcT>tcC
G	c.191T>G	c.(190-192)cTt>cGt
A	c.3801C>T	c.(3799-3801)ttC>ttT
A	c.207C>T	c.(205-207)ggC>ggT
T	c.1332G>A	c.(1330-1332)ggG>ggA
A	c.769C>T	c.(769-771)Cag>Tag
T		
A	c.985G>T	c.(985-987)Gag>Tag
T	c.312C>T	c.(310-312)ttC>ttT
T	c.1391G>A	c.(1390-1392)aGa>aAa
T		

T		
T	c.371G>A	
T	c.323C>T	c.(322-324)tCc>tTc
G	c.1145A>G	c.(1144-1146)aAt>aGt
T	c.22C>T	c.(22-24)Cct>Tct
T	c.890C>T	c.(889-891)tCc>tTc
T	c.2003G>A	c.(2002-2004)cGa>cAa
T	c.6263C>T	c.(6262-6264)tCt>tTt
T	c.543G>A	c.(541-543)gaG>gaA
T	c.4366C>T	c.(4366-4368)Ctg>Ttg
A	c.2568C>T	c.(2566-2568)ttC>ttT
A	c.220C>T	c.(220-222)Ccc>Tcc
T	c.412C>T	c.(412-414)Cct>Tct
T	c.1484C>T	c.(1483-1485)tCa>tTa
T	c.507C>T	c.(505-507)tcC>tcT
T	c.1634A>T	c.(1633-1635)gAa>gTa
T	c.488C>T	c.(487-489)aCc>aTc
A		
T	c.1453C>T	c.(1453-1455)Cgg>Tgg
T	c.194G>A	c.(193-195)cGg>cAg
T		
A	c.623G>A	c.(622-624)cGa>cAa
T	c.2024C>T	c.(2023-2025)tCc>tTc
T	c.1983C>T	
A	c.935G>A	c.(934-936)aGt>aAt
C		
A	c.330A>T	c.(328-330)ctA>ctT
A		
C	c.2796A>G	c.(2794-2796)gaA>gaG
T	c.430G>A	c.(430-432)Ggc>Agc
T		
T	c.99C>T	c.(97-99)ttC>ttT
A	c.1144C>T	c.(1144-1146)Cgt>Tgt
A	c.116C>T	c.(115-117)cCt>cTt
A	c.856G>A	c.(856-858)Gaa>Aaa
A		
C	c.655C>G	c.(655-657)Ctg>Gtg
A		
T	c.5493G>A	c.(5491-5493)caG>caA
A	c.15231C>T	c.(15229-15231)gcC>gcT
T		
T	c.3905G>A	c.(3904-3906)cGa>cAa
A	c.1343C>T	c.(1342-1344)tCc>tTc

A	c.1194G>A	c.(1192-1194)aaG>aaA
T	c.290C>T	c.(289-291)tCc>tTc
A	c.20C>T	c.(19-21)aCc>aTc
A	c.5262C>T	c.(5260-5262)atC>atT
T	c.536G>A	c.(535-537)cGa>cAa
A	c.3486G>A	c.(3484-3486)ctG>ctA
T	c.486C>T	c.(484-486)atC>atT
A	c.1_splice	c.e1-1
T		
T	c.1170C>T	c.(1168-1170)gaC>gaT
T	c.2290G>A	c.(2290-2292)Gaa>Aaa
A	c.547G>A	c.(547-549)Gag>Aag
T	c.734G>A	c.(733-735)gGg>gAg
A	c.1032C>A	c.(1030-1032)gaC>gaA
T	c.232G>A	c.(232-234)Ggg>Agg
T	c.527G>A	c.(526-528)cGa>cAa
T	c.11494G>A	c.(11494-11496)Gaa>Aaa
T	c.567G>A	c.(565-567)acG>acA
T	c.643C>T	c.(643-645)Cga>Tga
A	c.1197C>T	c.(1195-1197)tcC>tcT
A	c.391G>A	c.(391-393)Gaa>Aaa
A	c.2637C>T	c.(2635-2637)ttC>ttT
A	c.52C>T	c.(52-54)Cat>Tat
A	c.2799C>T	c.(2797-2799)ctC>ctT
T	c.98G>A	c.(97-99)gGg>gAg
A		
T	c.1594G>A	c.(1594-1596)Gaa>Aaa
A		
A	c.2395G>A	c.(2395-2397)Gat>Aat
A		
T	c.1216G>A	c.(1216-1218)Gga>Aga
T	c.484C>T	
A	c.629C>T	c.(628-630)tCg>tTg
A	c.1845G>A	c.(1843-1845)ggG>ggA
G	c.877T>C	c.(877-879)Tgt>Cgt
T	c.673G>A	c.(673-675)Gaa>Aaa
A		
A	c.176C>T	c.(175-177)aCc>aTc
A	c.2029C>T	c.(2029-2031)Cga>Tga
T	c.789G>A	c.(787-789)agG>agA
T		
A	c.99G>A	c.(97-99)gaG>gaA
T	c.2525C>T	c.(2524-2526)tCa>tTa

T	c.856G>A	c.(856-858)Gca>Aca
T	c.655C>T	c.(655-657)Ctt>Ttt
T	c.3454C>T	c.(3454-3456)Cct>Tct
A	c.91C>T	c.(91-93)Cat>Tat
A	c.291G>A	c.(289-291)gaG>gaA
T	c.918C>T	c.(916-918)ttC>ttT
G	c.2005_splice	c.e14+1
T	c.63C>T	c.(61-63)ccC>ccT
T		
T	c.728C>T	c.(727-729)tCa>tTa
T		
G	c.968T>G	c.(967-969)aTc>aGc
A	c.5853C>T	c.(5851-5853)atC>atT
T	c.3182C>T	c.(3181-3183)tCc>tTc
T		
A		
A	c.1734_splice	c.e15-1
A	c.1887A>T	c.(1885-1887)caA>caT
A	c.76C>T	c.(76-78)Cac>Tac
T	c.676G>A	c.(676-678)Gga>Aga
A	c.628C>T	c.(628-630)Cag>Tag
A	c.594G>A	c.(592-594)ccG>ccA
A	c.1145G>A	c.(1144-1146)cGa>cAa
A		
T		
T	c.863C>T	c.(862-864)aCc>aTc
T		
A	c.1521T>A	c.(1519-1521)ctT>ctA
T	c.675G>A	c.(673-675)ctG>ctA
A		
T	c.576C>T	c.(574-576)tcC>tcT
A	c.1512C>T	c.(1510-1512)atC>atT
T		
T	c.761C>T	c.(760-762)gCt>gTt
C	c.2387G>C	c.(2386-2388)gGt>gCt
T	c.1006_splice	c.e9+1
T	c.4794C>T	c.(4792-4794)ttC>ttT
A		
A		
T	c.1324C>A	c.(1324-1326)Cct>Act
C	c.516G>C	c.(514-516)ttG>ttC
A	c.173G>A	c.(172-174)gGg>gAg
A	c.369C>T	c.(367-369)acC>acT

A		
T	c.15C>T	c.(13-15)ttC>ttT
T	c.457G>A	c.(457-459)Ggg>Agg
T	c.2445C>A	c.(2443-2445)acC>acA
A	c.1005C>T	c.(1003-1005)tcC>tcT
A	c.661C>T	c.(661-663)Ccg>Tcg
A	c.3836C>T	c.(3835-3837)cCg>cTg
T	c.6528C>T	c.(6526-6528)tcC>tcT
T	c.533C>T	c.(532-534)cCc>cTc
A	c.1336G>A	c.(1336-1338)Gat>Aat
A		
T	c.1038G>A	c.(1036-1038)ggG>ggA
A	c.105G>A	c.(103-105)agG>agA
C	c.1271A>G	c.(1270-1272)cAc>cGc
T	c.155C>T	c.(154-156)cCa>cTa
T	c.601C>T	c.(601-603)Cgt>Tgt
T	c.2300_splice	c.e24-2
T	c.2075C>T	c.(2074-2076)tCa>tTa
G	c.4733T>C	c.(4732-4734)gTt>gCt
T	c.378G>A	c.(376-378)acG>acA
T	c.1383C>T	c.(1381-1383)agC>agT
A	c.432C>T	c.(430-432)tcC>tcT
T	c.262C>T	c.(262-264)Ccc>Tcc
A	c.3253G>A	c.(3253-3255)Gat>Aat
T	c.10419C>T	c.(10417-10419)tcC>tcT
A	c.1282C>T	
A	c.1185C>T	c.(1183-1185)gcC>gcT
A		
A	c.3159C>T	c.(3157-3159)ctC>ctT
G	c.404A>G	c.(403-405)cAg>cGg
A	c.5367C>T	c.(5365-5367)gtC>gtT
A	c.251G>A	c.(250-252)gGa>gAa
C	c.2066G>C	c.(2065-2067)cGg>cCg
A	c.1380G>A	c.(1378-1380)agG>agA
T	c.2773C>T	c.(2773-2775)Caa>Taa
T	c.314C>T	c.(313-315)tCc>tTc
A	c.1826C>T	c.(1825-1827)gCc>gTc
A	c.445G>A	c.(445-447)Gaa>Aaa
A	c.751G>A	c.(751-753)Gac>Aac
T	c.348C>T	c.(346-348)gcC>gcT
T	c.1356C>T	c.(1354-1356)tcC>tcT
A	c.621G>A	c.(619-621)caG>caA
A	c.66G>A	c.(64-66)ggG>ggA



A	c.1428G>A	c.(1426-1428)ggG>ggA
A	c.218A>T	c.(217-219)gAt>gTt
T	c.1000C>T	c.(1000-1002)Ctc>Ttc
T	c.182G>T	c.(181-183)gGa>gTa
A	c.406C>T	c.(406-408)Ccc>Tcc
T		
T	c.4445G>A	c.(4444-4446)cGa>cAa
A		
T	c.1160G>T	c.(1159-1161)aGt>aTt
A	c.1187C>T	c.(1186-1188)cCa>cTa
A	c.702_splice	c.e6+1
T	c.1211C>T	c.(1210-1212)cCt>cTt
A	c.4485C>T	c.(4483-4485)tcC>tcT
A	c.3548C>T	c.(3547-3549)cCc>cTc
A	c.4738C>T	c.(4738-4740)Cga>Tga
C		
A	c.4245C>T	c.(4243-4245)ccC>ccT
T	c.514G>A	c.(514-516)Ggc>Agc
A	c.635C>T	c.(634-636)tCc>tTc
A	c.1434C>T	c.(1432-1434)ctC>ctT
T	c.2298G>A	c.(2296-2298)gaG>gaA
A		
T	c.17293G>A	
A		
T		
A	c.6632C>T	c.(6631-6633)tCc>tTc
A	c.1239C>T	c.(1237-1239)gcC>gcT
A		
A	c.2747_splice	c.e8-1
A	c.188A>T	c.(187-189)aAa>aTa
A	c.966C>T	c.(964-966)ttC>ttT
T	c.314C>T	c.(313-315)gCt>gTt
A	c.696C>T	c.(694-696)ttC>ttT
A	c.950G>A	c.(949-951)gGt>gAt
A	c.1236C>A	c.(1234-1236)ttC>ttA
A	c.3827C>T	c.(3826-3828)tCc>tTc
C	c.101G>C	c.(100-102)tGg>tCg
T	c.5941C>T	c.(5941-5943)Ccc>Tcc
A	c.628G>T	c.(628-630)Gag>Tag
T		
T	c.4203_splice	c.e25-1
A	c.535G>A	c.(535-537)Gat>Aat
T		

T		
T	c.1597C>T	c.(1597-1599)Cag>Tag
C		
T	c.1384C>T	c.(1384-1386)Ccc>Tcc
A	c.5974C>T	c.(5974-5976)Caa>Taa
T	c.250C>T	c.(250-252)Cag>Tag
T	c.522C>T	c.(520-522)ggC>ggT
A		
T	c.5022G>A	c.(5020-5022)acG>acA
A	c.2478C>T	c.(2476-2478)gtC>gtT
T	c.6209C>T	c.(6208-6210)tCc>tTc
A	c.552C>T	c.(550-552)gtC>gtT
A		
T	c.2678C>T	c.(2677-2679)cCa>cTa
T	c.2254G>T	c.(2254-2256)Gga>Tga
T	c.205C>T	c.(205-207)Cct>Tct
T	c.191C>T	c.(190-192)cCc>cTc
A	c.673C>T	c.(673-675)Cgc>Tgc
A	c.3343C>T	c.(3343-3345)Cgg>Tgg
T		
T	c.1015G>A	c.(1015-1017)Gat>Aat
T	c.1363C>T	c.(1363-1365)Ccg>Tcg
T	c.177C>T	c.(175-177)gcC>gcT
G		
T	c.3142G>A	c.(3142-3144)Gga>Aga
A	c.1344C>T	c.(1342-1344)atC>atT
A		
A	c.1516G>A	c.(1516-1518)Gaa>Aaa
T	c.212C>T	c.(211-213)tCc>tTc
T	c.852C>T	c.(850-852)ggC>ggT
T	c.189C>T	c.(187-189)gcC>gcT
A	c.2938C>T	c.(2938-2940)Cgg>Tgg
T	c.715G>A	c.(715-717)Gag>Aag
T	c.202C>T	c.(202-204)Cag>Tag
T	c.1795G>A	c.(1795-1797)Gag>Aag
A	c.780G>A	c.(778-780)ctG>ctA
C	c.870T>G	c.(868-870)gtT>gtG
A	c.242G>A	c.(241-243)gGa>gAa
A	c.453C>T	c.(451-453)ttC>ttT
T	c.1908G>A	c.(1906-1908)ggG>ggA
A	c.647C>A	c.(646-648)aCc>aAc
T	c.1904C>T	c.(1903-1905)tCg>tTg
G	c.806T>G	c.(805-807)aTc>aGc

T	c.183G>A	c.(181-183)ggG>ggA
T	c.2575G>A	c.(2575-2577)Gaa>Aaa
A	c.2952C>T	c.(2950-2952)gcC>gcT
T	c.1222C>T	c.(1222-1224)Cgt>Tgt
A	c.543G>A	c.(541-543)aaG>aaA
A		
A	c.2121G>A	c.(2119-2121)aaG>aaA
T		
A	c.419G>A	c.(418-420)cGa>cAa
A	c.223G>A	c.(223-225)Gaa>Aaa
C		
T	c.6080C>T	c.(6079-6081)tCc>tTc
A	c.445C>T	c.(445-447)Caa>Taa
T	c.1804C>T	c.(1804-1806)Cag>Tag
T	c.1216G>A	c.(1216-1218)Gaa>Aaa
A	c.1410C>T	c.(1408-1410)tcC>tcT
T	c.19G>A	c.(19-21)Gat>Aat
T	c.2431G>A	c.(2431-2433)Gac>Aac
T	c.18921G>A	c.(18919-18921)ggG>ggA
A	c.809G>A	c.(808-810)gGa>gAa
T	c.584C>T	c.(583-585)tCc>tTc
A	c.610G>A	c.(610-612)Gag>Aag
A	c.801G>A	c.(799-801)ctG>ctA
T	c.1016G>A	c.(1015-1017)cGg>cAg
T	c.272C>T	c.(271-273)tCc>tTc
T	c.1416C>T	c.(1414-1416)tcC>tcT
T	c.1500C>T	c.(1498-1500)ttC>ttT
T	c.3890_splice	c.e19+1
C	c.3733T>G	c.(3733-3735)Tac>Gac
C	c.475A>G	c.(475-477)Aat>Gat
A	c.773A>T	c.(772-774)tAc>tTc
T	c.4383C>T	c.(4381-4383)ggC>ggT
A	c.4860C>T	c.(4858-4860)tcC>tcT
T	c.7033C>T	c.(7033-7035)Caa>Taa
A	c.484G>A	c.(484-486)Gaa>Aaa
A		
T	c.468C>T	c.(466-468)tcC>tcT
C	c.362T>C	c.(361-363)gTt>gCt
T	c.845C>T	c.(844-846)tCg>tTg
C	c.2198T>G	c.(2197-2199)tTc>tGc
A	c.143G>A	c.(142-144)cGc>cAc
A	c.1364C>A	c.(1363-1365)tCa>tAa
T	c.1865G>A	c.(1864-1866)gGg>gAg

T		
T	c.223G>A	c.(223-225)Gga>Aga
T	c.3563C>T	c.(3562-3564)gCc>gTc
T	c.571C>T	c.(571-573)Cgt>Tgt
T	c.1639G>A	c.(1639-1641)Ggt>Agt
T	c.480G>A	c.(478-480)caG>caA
T	c.172C>T	c.(172-174)Cac>Tac
T	c.1583G>A	c.(1582-1584)gGa>gAa
T	c.1499C>T	c.(1498-1500)tCc>tTc
C	c.381T>C	c.(379-381)tgT>tgC
T	c.493G>A	c.(493-495)Gat>Aat
T	c.1196G>A	c.(1195-1197)gGa>gAa
T	c.164G>A	c.(163-165)gGa>gAa
T	c.547C>T	c.(547-549)Cca>Tca
A	c.3176C>T	c.(3175-3177)cCa>cTa
T	c.353C>T	c.(352-354)gCg>gTg
A	c.2283G>A	c.(2281-2283)caG>caA
T	c.1026T>A	c.(1024-1026)acT>acA
G	c.433C>G	c.(433-435)Cgc>Ggc
T	c.7977G>A	c.(7975-7977)caG>caA
A	c.1160C>T	c.(1159-1161)tCc>tTc
A	c.1185G>A	c.(1183-1185)ctG>ctA
A	c.6456C>T	c.(6454-6456)atC>atT
T	c.1241C>T	c.(1240-1242)tCg>tTg
T	c.136C>T	c.(136-138)Cct>Tct
T	c.335C>T	c.(334-336)cCg>cTg
A	c.2245C>T	c.(2245-2247)Cca>Tca
T	c.573C>T	c.(571-573)ttC>ttT
T	c.1198G>A	c.(1198-1200)Gca>Aca
T	c.1558G>A	c.(1558-1560)Gtg>Atg
T	c.11135C>T	c.(11134-11136)tCa>tTa
A	c.4258G>A	c.(4258-4260)Gac>Aac
A	c.1447G>A	c.(1447-1449)Gga>Aga
T	c.170C>T	c.(169-171)tCc>tTc
T	c.595G>A	c.(595-597)Gat>Aat
T	c.458C>T	c.(457-459)tCa>tTa
T	c.295C>T	c.(295-297)Ccc>Tcc
G		
T	c.2371G>A	c.(2371-2373)Gga>Aga
A	c.135G>A	c.(133-135)gtG>gtA
A	c.4893C>T	c.(4891-4893)atC>atT
A	c.1927C>T	c.(1927-1929)Cca>Tca
A		

C	c.1309T>C	c.(1309-1311)Ttc>Ctc
T		
T		
T		
T	c.844C>T	c.(844-846)Cat>Tat
T	c.589C>T	c.(589-591)Cgg>Tgg
T	c.978G>A	c.(976-978)ggG>ggA
T	c.5284T>A	c.(5284-5286)Ttc>Atc
T	c.5587G>A	c.(5587-5589)Gag>Aag
T	c.1368G>A	c.(1366-1368)atG>atA
A		
A	c.33C>T	c.(31-33)ttC>ttT
G	c.828A>G	c.(826-828)acA>acG
T	c.2040A>T	c.(2038-2040)gaA>gaT
A	c.2853C>T	c.(2851-2853)ttC>ttT
T	c.192C>T	c.(190-192)ccC>ccT
T	c.1151G>A	c.(1150-1152)gGg>gAg
T	c.136_splice	c.e2+1
T		
A	c.639G>A	c.(637-639)atG>atA
G	c.1015A>G	c.(1015-1017)Act>Gct
T	c.1188C>T	c.(1186-1188)tcC>tcT
T	c.759_splice	c.e2+1
A	c.1112C>T	c.(1111-1113)cCc>cTc
T		
T	c.6522C>T	c.(6520-6522)atC>atT
T	c.3757G>A	c.(3757-3759)Gat>Aat
T		
A	c.159C>T	c.(157-159)tcC>tcT
A	c.1816G>A	c.(1816-1818)Gat>Aat
A	c.1431C>T	c.(1429-1431)ttC>ttT
T	c.3461_splice	c.e29+1
T	c.1162G>A	c.(1162-1164)Gat>Aat
A	c.180C>T	
A	c.3791C>T	c.(3790-3792)cCg>cTg
T	c.1164C>T	c.(1162-1164)gtC>gtT
T		
T	c.1038C>T	c.(1036-1038)atC>atT
C		
A	c.2260C>T	c.(2260-2262)Cct>Tct
A	c.5741G>A	c.(5740-5742)gGa>gAa
A		
A	c.7712C>T	c.(7711-7713)tCa>tTa

T		
T	c.2149C>T	c.(2149-2151)Ctc>Ttc
T	c.904G>A	c.(904-906)Gat>Aat
A		
T	c.739C>T	c.(739-741)Cgg>Tgg
A	c.174C>T	c.(172-174)tcC>tcT
T	c.7137C>T	c.(7135-7137)ctC>ctT
T	c.2675G>A	c.(2674-2676)gGa>gAa
T	c.309C>T	c.(307-309)ctC>ctT
T	c.856C>T	c.(856-858)Cca>Tca
A	c.1689C>T	c.(1687-1689)ctC>ctT
A	c.777C>A	c.(775-777)tcC>tcA
A	c.2955C>T	c.(2953-2955)ttC>ttT
A	c.868G>A	c.(868-870)Gat>Aat
T	c.394G>A	c.(394-396)Gaa>Aaa
T	c.465C>T	c.(463-465)acC>acT
T	c.2230C>T	c.(2230-2232)Cgc>Tgc
C		
T		
T	c.10911G>A	c.(10909-10911)gaG>gaA
A		
T		
T	c.1091G>A	c.(1090-1092)cGa>cAa
T	c.796C>T	c.(796-798)Cct>Tct
A	c.412C>T	c.(412-414)Cgg>Tgg
A	c.864C>T	c.(862-864)atC>atT
G	c.714A>G	c.(712-714)gaA>gaG
A	c.1303G>A	c.(1303-1305)Gat>Aat
A	c.2627C>T	c.(2626-2628)gCt>gTt
A	c.99G>A	c.(97-99)ggG>ggA
A	c.612G>A	c.(610-612)caG>caA
T	c.1126C>T	c.(1126-1128)Cgt>Tgt
T		
A	c.3043C>T	c.(3043-3045)Cgt>Tgt
A	c.215G>A	c.(214-216)tGg>tAg
A	c.8121C>T	c.(8119-8121)atC>atT
A	c.721C>T	c.(721-723)Cgg>Tgg
T	c.181C>A	c.(181-183)Caa>Aaa
T	c.584G>A	c.(583-585)aGg>aAg
A	c.465G>A	c.(463-465)ccG>ccA
A	c.2144G>A	c.(2143-2145)gGa>gAa
A		
T	c.471G>A	c.(469-471)ggG>ggA

A	c.249G>T	c.(247-249)caG>caT
A	c.288C>T	c.(286-288)atC>atT
T	c.1050C>T	c.(1048-1050)tcC>tcT
T	c.1936C>T	c.(1936-1938)Cgc>Tgc
T	c.1180G>A	c.(1180-1182)Gat>Aat
A	c.291_splice	c.e3-1
A		
T	c.-36_splice	c.e1-1
G	c.1860C>G	c.(1858-1860)atC>atG
A	c.204C>T	c.(202-204)ttC>ttT
C		
A		
T	c.1378G>A	c.(1378-1380)Ggt>Agt
G	c.690T>G	c.(688-690)caT>caG
T	c.1227G>A	c.(1225-1227)atG>atA
A	c.1574C>T	c.(1573-1575)cCt>cTt
A	c.1465C>T	c.(1465-1467)Ccc>Tcc
A		
T	c.2310G>A	c.(2308-2310)gcG>gcA
A		
A	c.137C>T	c.(136-138)tCc>tTc
T	c.347G>A	c.(346-348)gGa>gAa
A	c.2189C>T	c.(2188-2190)gCc>gTc
T		
A	c.2292G>A	c.(2290-2292)ccG>ccA
C	c.1491T>G	c.(1489-1491)gaT>gaG
T	c.161C>T	c.(160-162)tCc>tTc
T	c.1002G>A	c.(1000-1002)ctG>ctA
G	c.152T>C	c.(151-153)aTt>aCt
G	c.834A>G	c.(832-834)atA>atG
T	c.757C>T	c.(757-759)Cag>Tag
A	c.3945G>A	c.(3943-3945)atG>atA
T	c.78G>A	c.(76-78)aaG>aaA
T		
A	c.3312G>A	c.(3310-3312)agG>agA
A	c.2343G>A	c.(2341-2343)tcG>tcA
T	c.17411G>A	c.(17410-17412)cGa>cAa
T	c.283G>A	c.(283-285)Gaa>Aaa
A	c.1144G>A	c.(1144-1146)Gct>Act
A		
T	c.1133G>A	c.(1132-1134)gGa>gAa
A	c.642G>A	c.(640-642)atG>atA
A	c.349G>A	c.(349-351)Gat>Aat

A		
C	c.2811T>G	c.(2809-2811)tgT>tgG
A	c.71C>A	c.(70-72)aCg>aAg
A	c.1475G>A	c.(1474-1476)aGg>aAg
A	c.672G>A	c.(670-672)gaG>gaA
A	c.864C>T	c.(862-864)atC>atT
A	c.1567C>T	c.(1567-1569)Ctg>Ttg
T	c.1851C>T	c.(1849-1851)ttC>ttT
A	c.1526G>A	c.(1525-1527)gGa>gAa
A	c.769G>A	c.(769-771)Gag>Aag
A	c.1300C>T	c.(1300-1302)Cgc>Tgc
A		
A	c.4G>A	c.(4-6)Gtt>Att
T		
A	c.5220C>T	c.(5218-5220)ctC>ctT
A	c.31939G>T	c.(31939-31941)Gaa>Taa
T	c.708C>T	c.(706-708)ttC>ttT
T	c.1769C>T	c.(1768-1770)tCg>tTg
T	c.2356C>T	c.(2356-2358)Ccc>Tcc
A	c.5151C>T	c.(5149-5151)ccC>ccT
T	c.697G>A	c.(697-699)Gac>Aac
T	c.55C>T	c.(55-57)Cga>Tga
G	c.1373G>C	c.(1372-1374)cGg>cCg
A	c.505_splice	c.e3+1
A		
T	c.598G>A	c.(598-600)Gtg>Atg
A	c.2316G>A	c.(2314-2316)ggG>ggA
C		
T	c.1994C>T	c.(1993-1995)gCc>gTc
T		
T	c.1344G>A	c.(1342-1344)ggG>ggA
A	c.1384C>T	c.(1384-1386)Ctg>Ttg
A		
A	c.1878G>A	c.(1876-1878)atG>atA
T	c.398G>A	c.(397-399)tGt>tAt
A	c.928C>T	c.(928-930)Cat>Tat
T		
A	c.3202C>T	c.(3202-3204)Cag>Tag
A	c.950T>A	c.(949-951)aTa>aAa
T	c.13947C>T	c.(13945-13947)ctC>ctT
A	c.1392C>T	c.(1390-1392)ctC>ctT
A	c.3515C>T	c.(3514-3516)tCt>tTt
A	c.885C>T	c.(883-885)atC>atT



A		
A	c.68C>T	c.(67-69)tCc>tTc
T	c.411G>A	c.(409-411)caG>caA
A	c.439C>T	c.(439-441)Cct>Tct
T	c.3089G>A	c.(3088-3090)gGa>gAa
T	c.616C>A	c.(616-618)Ctt>Att
T	c.800C>T	c.(799-801)tCc>tTc
T	c.1933C>T	c.(1933-1935)Cat>Tat
A	c.677C>T	c.(676-678)cCc>cTc
T	c.724G>A	c.(724-726)Ggc>Agc
T		
A	c.825C>T	c.(823-825)tcC>tcT
A	c.596A>T	c.(595-597)aAt>aTt
T	c.382G>A	c.(382-384)Gtt>Att
C	c.547A>G	c.(547-549)Aag>Gag
A	c.474C>T	c.(472-474)atC>atT
T	c.968C>T	c.(967-969)tCc>tTc
A	c.973C>T	c.(973-975)Cgt>Tgt
T	c.297C>T	c.(295-297)ctC>ctT
G	c.1257T>C	c.(1255-1257)ggT>ggC
T	c.607C>T	c.(607-609)Cgt>Tgt
A	c.859G>A	c.(859-861)Gga>Aga
A		
T		
T	c.334C>T	c.(334-336)Cat>Tat
A	c.646G>A	c.(646-648)Gag>Aag
T	c.744C>T	c.(742-744)ttC>ttT
C	c.2089T>C	c.(2089-2091)Ttg>Ctg
T		
A	c.105C>T	c.(103-105)ttC>ttT
A	c.1552C>T	c.(1552-1554)Cgt>Tgt
A	c.4650G>A	c.(4648-4650)agG>agA
T	c.413C>T	c.(412-414)tCa>tTa
T	c.743C>T	c.(742-744)gCt>gTt
A	c.3218G>A	c.(3217-3219)gGc>gAc
A	c.519G>A	c.(517-519)atG>atA
T	c.2842G>A	c.(2842-2844)Gat>Aat
T	c.836C>T	c.(835-837)cCc>cTc
T		
A	c.1400C>T	c.(1399-1401)cCa>cTa
A	c.1617C>A	c.(1615-1617)ttC>ttA
T		
A	c.9522C>T	c.(9520-9522)ctC>ctT

T		
A	c.897G>A	c.(895-897)agG>agA
A	c.1145G>A	c.(1144-1146)aGa>aAa
A	c.1252C>T	c.(1252-1254)Cac>Tac
A		
T	c.1548C>T	c.(1546-1548)tgC>tgT
T	c.359C>T	c.(358-360)cCt>cTt
A	c.737C>T	c.(736-738)tCc>tTc
T	c.1724C>T	c.(1723-1725)aCc>aTc
T	c.412A>T	c.(412-414)Aaa>Taa
A	c.1077G>A	c.(1075-1077)agG>agA
A	c.2618C>T	c.(2617-2619)cCt>cTt
T	c.464G>A	c.(463-465)gGa>gAa
T	c.1372G>A	c.(1372-1374)Ggg>Agg
T		
A	c.146C>T	c.(145-147)cCt>cTt
A	c.709C>T	c.(709-711)Cat>Tat
A	c.3400C>T	c.(3400-3402)Cta>Tta
T	c.137C>T	c.(136-138)gCc>gTc
A	c.2437G>A	c.(2437-2439)Gac>Aac
T	c.11004G>T	c.(11002-11004)agG>agT
A	c.1784C>T	c.(1783-1785)tCc>tTc
T	c.279G>A	c.(277-279)ggG>ggA
A	c.1154G>A	c.(1153-1155)tGg>tAg
A	c.736G>A	
A	c.74G>A	
A	c.301C>T	c.(301-303)Ctg>Ttg
T	c.19C>T	c.(19-21)Cgc>Tgc
A		
T	c.2608G>A	c.(2608-2610)Gct>Act
A	c.1333G>A	c.(1333-1335)Gat>Aat
A	c.446C>T	c.(445-447)tCt>tTt
A	c.287C>T	c.(286-288)aCc>aTc
T	c.22C>T	c.(22-24)Cct>Tct
T	c.1467C>T	c.(1465-1467)ccC>ccT
G	c.1200T>C	c.(1198-1200)aaT>aaC
A	c.1229C>T	c.(1228-1230)tCt>tTt
A	c.1818C>T	c.(1816-1818)ttC>ttT
T	c.315_splice	c.e3+1
A	c.898G>A	c.(898-900)Gtt>Att
T		
A	c.3171C>T	c.(3169-3171)ttC>ttT
A	c.5958C>T	c.(5956-5958)atC>atT

T	c.1099C>T	c.(1099-1101)Cga>Tga
A	c.870G>A	c.(868-870)gtG>gtA
T	c.1466C>T	c.(1465-1467)cCc>cTc
T	c.1287G>A	c.(1285-1287)gaG>gaA
A	c.123G>A	c.(121-123)tcG>tcA
A	c.1707C>T	c.(1705-1707)tcC>tcT
T	c.996T>A	c.(994-996)aaT>aaA
T		
T		
G		
T		
A	c.727C>T	c.(727-729)Cac>Tac
T		
T	c.213G>A	c.(211-213)aaG>aaA
A		
A	c.1137C>T	c.(1135-1137)ctC>ctT
T		
T	c.2901G>A	c.(2899-2901)aaG>aaA
T	c.125C>T	c.(124-126)tCc>tTc
G	c.1106A>G	c.(1105-1107)gAc>gGc
A	c.223G>A	c.(223-225)Gaa>Aaa
T	c.496C>T	c.(496-498)Cgt>Tgt
A	c.883G>A	c.(883-885)Gag>Aag
A	c.1647_splice	c.e9+1
T	c.4948G>A	c.(4948-4950)Gaa>Aaa
A	c.293G>A	c.(292-294)gGc>gAc
A	c.2547C>T	c.(2545-2547)gcC>gcT
A	c.234C>T	c.(232-234)atC>atT
T	c.949G>A	c.(949-951)Gaa>Aaa
T	c.326C>T	c.(325-327)cCc>cTc
A	c.825C>T	c.(823-825)ctC>ctT
A	c.688G>A	c.(688-690)Ggg>Agg
T	c.1797G>A	c.(1795-1797)cgG>cgA
A	c.3994G>A	c.(3994-3996)Gaa>Aaa
A	c.15853C>T	c.(15853-15855)Ccc>Tcc
A		
T	c.1291G>A	c.(1291-1293)Gaa>Aaa
T	c.3931C>T	c.(3931-3933)Ccg>Tcg
A		
A	c.1671G>A	c.(1669-1671)ctG>ctA
A	c.701G>A	c.(700-702)cGc>cAc
T		
T	c.164G>A	c.(163-165)gGa>gAa

A		
A	c.116C>T	c.(115-117)tCc>tTc
A		
A	c.103C>T	c.(103-105)Cct>Tct
A		
G	c.449T>G	c.(448-450)aTg>aGg
A	c.518C>T	c.(517-519)gCc>gTc
T	c.476A>T	c.(475-477)gAt>gTt
T	c.708A>T	c.(706-708)gaA>gaT
A	c.612C>T	c.(610-612)tcC>tcT
C		
T		
A	c.123C>T	c.(121-123)tcC>tcT
T		
T	c.1944C>T	c.(1942-1944)ttC>ttT
A	c.2225C>T	c.(2224-2226)tCt>tTt
C	c.737T>C	c.(736-738)gTt>gCt
T	c.193C>T	c.(193-195)Caa>Taa
T	c.300C>T	c.(298-300)ttC>ttT
A	c.814C>T	c.(814-816)Ctc>Ttc
A		
T	c.1500G>A	c.(1498-1500)agG>agA
A		
A		
T	c.1395T>A	c.(1393-1395)ctT>ctA
A	c.570G>A	c.(568-570)cgG>cgA
T	c.150C>T	c.(148-150)tcC>tcT
T	c.2871C>T	c.(2869-2871)atC>atT
A	c.490G>A	c.(490-492)Gaa>Aaa
A	c.164G>A	c.(163-165)gGa>gAa
A	c.429C>T	c.(427-429)tcC>tcT
A		
T		
T	c.546C>T	c.(544-546)ctC>ctT
A	c.381C>T	c.(379-381)gcC>gcT
A	c.136G>A	c.(136-138)Gat>Aat
A		
A	c.12652C>T	c.(12652-12654)Ctg>Ttg
T		
A	c.442G>A	c.(442-444)Ggc>Agc
A	c.2192C>T	c.(2191-2193)cCt>cTt
T	c.1211C>T	c.(1210-1212)tCc>tTc
A	c.1328G>A	c.(1327-1329)tGg>tAg

A	c.473C>T	c.(472-474)tCt>tTt
A	c.51C>T	c.(49-51)ttC>ttT
T		
T	c.1759C>T	c.(1759-1761)Cca>Tca
T	c.6336C>T	c.(6334-6336)ggC>ggT
T	c.232C>T	c.(232-234)Cag>Tag
T	c.240G>A	c.(238-240)atG>atA
T		
G	c.778T>G	c.(778-780)Ttc>Gtc
T	c.2741G>A	c.(2740-2742)cGa>cAa
T		
T	c.5980G>A	c.(5980-5982)Gaa>Aaa
G	c.371T>C	c.(370-372)gTt>gCt
A	c.1189C>T	c.(1189-1191)Cct>Tct
A	c.1255G>A	c.(1255-1257)Gat>Aat
A	c.91G>A	c.(91-93)Gaa>Aaa
A	c.823C>T	c.(823-825)Ccc>Tcc
A	c.322C>T	c.(322-324)Cct>Tct
A	c.1109G>A	c.(1108-1110)tGg>tAg
T	c.2100G>A	c.(2098-2100)ccG>ccA
T	c.461C>T	c.(460-462)tCc>tTc
A	c.289C>T	c.(289-291)Cca>Tca
A	c.488G>A	c.(487-489)gGg>gAg
A	c.4399G>A	c.(4399-4401)Gac>Aac
T		
A	c.1482G>A	c.(1480-1482)ctG>ctA
A	c.418C>T	c.(418-420)Cca>Tca
T		
A	c.162C>T	c.(160-162)atC>atT
A	c.1128C>T	c.(1126-1128)tcC>tcT
A		
A	c.192C>T	c.(190-192)acC>acT
A	c.1671G>A	c.(1669-1671)gtG>gtA
A	c.1811C>T	c.(1810-1812)cCc>cTc
G	c.1534T>C	c.(1534-1536)Ttg>Ctg
T	c.170C>T	c.(169-171)aCc>aTc
A	c.6167C>T	c.(6166-6168)cCg>cTg
T	c.1110C>T	c.(1108-1110)tcC>tcT
T		
A		
T		
T	c.855G>A	c.(853-855)atG>atA
T	c.2997C>T	c.(2995-2997)atC>atT

T	c.453G>A	c.(451-453)gcG>gcA
T	c.3235G>A	c.(3235-3237)Gaa>Aaa
T	c.188G>A	c.(187-189)cGc>cAc
C	c.1889G>C	c.(1888-1890)tGt>tCt
A	c.337G>A	c.(337-339)Gaa>Aaa
T	c.936C>T	c.(934-936)acC>acT
T	c.2087C>T	c.(2086-2088)tCc>tTc
C		
C	c.1506T>C	c.(1504-1506)ggT>ggC
A	c.10116T>A	c.(10114-10116)gaT>gaA
A	c.164C>T	c.(163-165)tCc>tTc
A		
T		
A	c.1453G>T	c.(1453-1455)Gaa>Taa
T		
A	c.4754C>T	c.(4753-4755)gCg>gTg
T	c.296C>T	c.(295-297)cCc>cTc
T	c.94C>T	c.(94-96)Ccc>Tcc
A	c.859G>A	c.(859-861)Gaa>Aaa
T		
T	c.172C>T	c.(172-174)Ccc>Tcc
T	c.384C>T	c.(382-384)aaC>aaT
C	c.584T>C	c.(583-585)gTt>gCt
A		
A	c.850C>T	c.(850-852)Cgc>Tgc
A	c.2569G>A	c.(2569-2571)Gga>Aga
C		
A		
A	c.61G>A	c.(61-63)Ggc>Agc
T		
A	c.2474G>A	c.(2473-2475)gGc>gAc
A	c.4950G>A	c.(4948-4950)acG>acA
T	c.838G>A	c.(838-840)Gcc>Acc
T	c.544C>T	c.(544-546)Cga>Tga
T	c.156C>T	c.(154-156)atC>atT
G	c.719C>G	
T	c.837C>T	c.(835-837)ttC>ttT
T	c.192C>T	c.(190-192)atC>atT
A	c.694C>T	c.(694-696)Cgc>Tgc
A	c.1276C>T	c.(1276-1278)Ccc>Tcc
A	c.944G>A	c.(943-945)gGa>gAa
A	c.328G>A	c.(328-330)Gaa>Aaa
T		

T		
T	c.87C>T	c.(85-87)tcC>tcT
T		
T		
G		
T	c.3600C>T	c.(3598-3600)gtC>gtT
A		
A		
A	c.1025G>A	c.(1024-1026)gGa>gAa
A	c.1233G>A	c.(1231-1233)ccG>ccA
A	c.4118C>T	c.(4117-4119)tCa>tTa
T	c.2240C>T	c.(2239-2241)cCc>cTc
G	c.13294A>C	c.(13294-13296)Aag>Cag
A	c.783G>A	c.(781-783)acG>acA
G	c.361C>G	c.(361-363)Ctg>Gtg
A	c.540G>A	c.(538-540)caG>caA
T	c.7264G>A	c.(7264-7266)Gac>Aac
A		
A		
T	c.1510C>T	c.(1510-1512)Cca>Tca
T	c.1690C>T	c.(1690-1692)Cag>Tag
T	c.1362C>T	c.(1360-1362)atC>atT
T	c.236G>A	c.(235-237)aGa>aAa
T		
T	c.1307G>A	c.(1306-1308)gGa>gAa
A	c.1172G>A	c.(1171-1173)gGc>gAc
G	c.3773T>C	c.(3772-3774)gTc>gCc
A	c.1037G>A	c.(1036-1038)gGg>gAg
T		
A		
A	c.636C>T	c.(634-636)atC>atT
T	c.489C>T	c.(487-489)tcC>tcT
C	c.176T>C	c.(175-177)gTt>gCt
A		
T	c.814G>A	c.(814-816)Gac>Aac
A	c.3219C>T	c.(3217-3219)gtC>gtT
T	c.230G>A	c.(229-231)gGa>gAa
A	c.721C>T	c.(721-723)Cag>Tag
A		
T	c.6978G>A	c.(6976-6978)caG>caA
T		
T	c.1821C>T	c.(1819-1821)atC>atT
A	c.2031G>A	c.(2029-2031)atG>atA

T		
A		
C		
A	c.2291C>A	c.(2290-2292)aCc>aAc
A	c.1534C>T	c.(1534-1536)Cga>Tga
T	c.1862C>T	c.(1861-1863)cCg>cTg
A	c.169A>T	c.(169-171)Aac>Tac
A		
T	c.1068G>A	c.(1066-1068)gcG>gcA
A		
T		
C	c.2T>C	c.(1-3)aTg>aCg
A	c.1190T>A	c.(1189-1191)gTa>gAa
T	c.3633G>A	c.(3631-3633)gtG>gtA
T	c.3033C>T	c.(3031-3033)ccC>ccT
T	c.935C>T	c.(934-936)aCc>aTc
A		
T	c.1740C>T	c.(1738-1740)ctC>ctT
T	c.4779G>A	c.(4777-4779)agG>agA
T	c.1524G>A	c.(1522-1524)gaG>gaA
T	c.2938G>A	c.(2938-2940)Gga>Aga
A	c.583C>T	c.(583-585)Ctg>Ttg
T	c.905C>T	c.(904-906)aCc>aTc
T	c.1060G>A	c.(1060-1062)Gaa>Aaa
A	c.11C>T	c.(10-12)tCc>tTc
T		
T	c.702C>T	c.(700-702)ttC>ttT
T		
A	c.695G>A	c.(694-696)cGc>cAc
T	c.2484C>T	c.(2482-2484)ttC>ttT
A		
A	c.854G>A	c.(853-855)aGa>aAa
A	c.1365G>A	c.(1363-1365)aaG>aaA
A	c.30C>T	c.(28-30)acC>acT
A	c.2771C>T	
A	c.594C>T	c.(592-594)tgC>tgT
A	c.304G>A	c.(304-306)Gac>Aac
T	c.3424C>T	c.(3424-3426)Cga>Tga
A	c.777C>T	c.(775-777)ttC>ttT
A	c.59C>T	c.(58-60)tCc>tTc
T	c.5702C>T	c.(5701-5703)tCc>tTc
A	c.1402G>A	c.(1402-1404)Gac>Aac
A	c.97C>T	c.(97-99)Cca>Tca



T	c.852G>A	c.(850-852)atG>atA
G	c.3025C>G	c.(3025-3027)Ctt>Gtt
A	c.363C>T	c.(361-363)atC>atT
T	c.15C>T	c.(13-15)ccC>ccT
T		
A	c.1466G>A	c.(1465-1467)aGg>aAg
A	c.327G>A	c.(325-327)atG>atA
T	c.4936A>T	c.(4936-4938)Aga>Tga
T		
T		
T	c.180G>A	c.(178-180)acG>acA
A	c.2481C>T	c.(2479-2481)gcC>gcT
A	c.2506C>T	c.(2506-2508)Cgt>Tgt
A	c.1004C>T	c.(1003-1005)gCc>gTc
A	c.2144C>T	c.(2143-2145)cCt>cTt
A	c.1483G>A	c.(1483-1485)Gtg>Atg
G	c.277A>G	c.(277-279)Att>Gtt
T	c.296G>A	c.(295-297)cGt>cAt
T		
G	c.2749A>G	c.(2749-2751)Aat>Gat
A		
A	c.2544C>T	c.(2542-2544)atC>atT
T	c.705G>A	c.(703-705)ccG>ccA
T	c.1527C>T	c.(1525-1527)gtC>gtT
A	c.959C>T	c.(958-960)cCc>cTc
A	c.1341C>T	c.(1339-1341)ttC>ttT
A		
A	c.303G>A	c.(301-303)gtG>gtA
A	c.212C>T	c.(211-213)tCc>tTc
T	c.8214G>A	c.(8212-8214)cgG>cgA
A	c.1437G>A	c.(1435-1437)tgG>tgA
T	c.581C>T	c.(580-582)tCc>tTc
T	c.717C>T	c.(715-717)acC>acT
A	c.4300G>A	c.(4300-4302)Gaa>Aaa
A	c.1218G>A	c.(1216-1218)aaG>aaA
T	c.468C>T	c.(466-468)ttC>ttT
A		
A	c.199G>A	c.(199-201)Gtg>Atg
A	c.9C>T	c.(7-9)gaC>gaT
A	c.557C>T	c.(556-558)gCc>gTc
A	c.5069C>T	c.(5068-5070)aCc>aTc
T	c.955C>T	c.(955-957)Cct>Tct
A	c.1572G>A	c.(1570-1572)ccG>ccA

T	c.3411G>A	c.(3409-3411)gaG>gaA
A	c.685C>T	c.(685-687)Cgc>Tgc
C	c.1597_splice	c.e12-1
T	c.592C>T	c.(592-594)Cac>Tac
A		
A	c.393G>A	c.(391-393)agG>agA
A	c.1571C>T	c.(1570-1572)tCt>tTt
A	c.2229_splice	c.e15+1
T		
T	c.1457T>A	c.(1456-1458)tTg>tAg
T	c.1341C>T	c.(1339-1341)ctC>ctT
A	c.822C>T	c.(820-822)tcC>tcT
T	c.202G>A	
A	c.60G>A	c.(58-60)gcG>gcA
C	c.624C>G	c.(622-624)gcC>gcG
A	c.5290G>A	c.(5290-5292)Gaa>Aaa
A	c.8235C>T	c.(8233-8235)gcC>gcT
T	c.1473C>T	c.(1471-1473)ttC>ttT
A	c.747G>A	c.(745-747)gcG>gcA
T	c.277G>A	c.(277-279)Gga>Aga
T	c.304C>T	c.(304-306)Ctg>Ttg
T	c.577G>A	c.(577-579)Gat>Aat
A	c.514G>A	c.(514-516)Gcc>Acc
A	c.378C>T	c.(376-378)ccC>ccT
T	c.988G>A	c.(988-990)Gac>Aac
G	c.3161G>C	c.(3160-3162)aGc>aCc
T	c.1145C>T	c.(1144-1146)aCc>aTc
A	c.3153G>A	c.(3151-3153)ttG>ttA
T	c.2785G>A	c.(2785-2787)Gat>Aat
T	c.1961C>T	c.(1960-1962)tCc>tTc
C		
T	c.2242G>A	c.(2242-2244)Gat>Aat
T	c.1524G>A	c.(1522-1524)caG>caA
T	c.868G>A	c.(868-870)Gaa>Aaa
A	c.465C>T	c.(463-465)ttC>ttT
T	c.909C>T	c.(907-909)gtC>gtT
A	c.1299C>T	c.(1297-1299)ggC>ggT
T		
T	c.7010G>A	
A	c.514C>T	c.(514-516)Ccc>Tcc
T		
A	c.965G>A	c.(964-966)gGc>gAc
T	c.1197G>A	c.(1195-1197)aaG>aaA

A	c.179C>T	c.(178-180)tCg>tTg
T	c.591C>T	c.(589-591)ccC>ccT
A	c.389G>A	c.(388-390)tGg>tAg
T	c.4571C>T	c.(4570-4572)tCc>tTc
A	c.1099G>A	c.(1099-1101)Gag>Aag
T	c.3389C>T	c.(3388-3390)aCc>aTc
A		
A	c.1127C>T	c.(1126-1128)tCc>tTc
A	c.7243G>A	c.(7243-7245)Gat>Aat
T	c.1781C>T	c.(1780-1782)tCc>tTc
T	c.4830G>A	c.(4828-4830)agG>agA
A	c.1013G>A	c.(1012-1014)cGc>cAc
T		
T	c.1247G>T	c.(1246-1248)aGa>aTa
T	c.1768G>A	c.(1768-1770)Gac>Aac
T	c.1578C>T	c.(1576-1578)tcC>tcT
C	c.2813T>C	c.(2812-2814)gTt>gCt
A	c.65C>T	c.(64-66)tCc>tTc
T	c.941A>T	c.(940-942)gAg>gTg
A	c.1335C>T	c.(1333-1335)gtC>gtT
T		
A	c.1686G>A	c.(1684-1686)ttG>ttA
A	c.393C>T	c.(391-393)ggC>ggT
T	c.1014C>T	c.(1012-1014)ctC>ctT
T	c.769C>T	c.(769-771)Cgc>Tgc
A	c.2581C>T	c.(2581-2583)Cgg>Tgg
T	c.171C>T	c.(169-171)acC>acT
A	c.590C>A	c.(589-591)cCc>cAc
A	c.30848C>T	c.(30847-30849)tCa>tTa
A	c.3335C>T	c.(3334-3336)tCc>tTc
A	c.633_splice	c.e10+1
T	c.716C>T	c.(715-717)aCc>aTc
A	c.1665G>A	c.(1663-1665)caG>caA
T	c.254G>A	c.(253-255)gGa>gAa
A	c.2529G>A	c.(2527-2529)gaG>gaA
A	c.1342C>T	c.(1342-1344)Ctg>Ttg
T	c.79G>A	c.(79-81)Gat>Aat
A	c.320C>T	c.(319-321)tCc>tTc
A	c.546C>T	c.(544-546)gcC>gcT
A	c.2153C>T	c.(2152-2154)cCt>cTt
T	c.1914C>T	c.(1912-1914)ttC>ttT
T	c.332C>T	c.(331-333)tCg>tTg
A	c.418C>T	c.(418-420)Ccc>Tcc

T	c.105C>T	c.(103-105)ccC>ccT
T		
A	c.2807C>T	c.(2806-2808)cCc>cTc
A	c.368G>A	c.(367-369)aGa>aAa
A	c.768G>A	c.(766-768)caG>caA
A	c.406C>T	c.(406-408)Cag>Tag
T	c.514C>T	c.(514-516)Cgt>Tgt
T	c.3548G>A	c.(3547-3549)gGc>gAc
A	c.563G>A	c.(562-564)cGa>cAa
T	c.856G>A	c.(856-858)Gat>Aat
T	c.2327C>T	c.(2326-2328)tCa>tTa
A		
T	c.964G>A	c.(964-966)Gaa>Aaa
T		
T		
A	c.3150G>A	c.(3148-3150)gaG>gaA
A	c.306C>T	c.(304-306)cgC>cgT
A	c.1186G>A	c.(1186-1188)Gtg>Atg
A	c.4762G>A	c.(4762-4764)Ggc>Agc
A	c.1731C>T	c.(1729-1731)gtC>gtT
C	c.136G>C	
A		
T		
A	c.2636C>T	c.(2635-2637)tCg>tTg
T	c.867_splice	c.e7-1
A	c.3024C>T	c.(3022-3024)atC>atT
G	c.2368A>G	c.(2368-2370)Aaa>Gaa
T	c.2532C>T	c.(2530-2532)ctC>ctT
A	c.3438_splice	c.e20-1
C	c.1269A>C	c.(1267-1269)ggA>ggC
C	c.65T>G	c.(64-66)cTg>cGg
A	c.1454C>T	c.(1453-1455)tCc>tTc
T	c.217G>A	c.(217-219)Gaa>Aaa
T	c.1751C>T	c.(1750-1752)cCc>cTc
A		
T	c.469C>A	c.(469-471)Ccc>Acc
T		
T	c.1575C>T	c.(1573-1575)ttC>ttT
T	c.2221G>A	c.(2221-2223)Gaa>Aaa
T	c.1898G>T	
T		
A	c.1688C>T	c.(1687-1689)cCa>cTa

A	c.533_splice	c.e5-1
C	c.94A>G	c.(94-96)Acc>Gcc
T	c.2773C>T	c.(2773-2775)Ctt>Ttt
A	c.3205C>T	c.(3205-3207)Ctc>Ttc
A	c.1862G>A	c.(1861-1863)gGa>gAa
A	c.1819A>T	c.(1819-1821)Act>Tct
T	c.3816C>T	c.(3814-3816)ccC>ccT
A	c.2560G>A	c.(2560-2562)Gac>Aac
T		
T	c.860C>T	c.(859-861)cCc>cTc
A		
T	c.122C>T	c.(121-123)aCc>aTc
T	c.243G>A	c.(241-243)atG>atA
T	c.809G>A	c.(808-810)gGc>gAc
T	c.1631_splice	c.e13-1
A	c.1181C>T	c.(1180-1182)tCc>tTc
G	c.1_splice	c.e1-1
A	c.19139C>T	c.(19138-19140)tCc>tTc
T	c.1239_splice	c.e10-1
A	c.4432G>A	c.(4432-4434)Gag>Aag
G	c.423T>C	c.(421-423)gcT>gcC
T	c.1725C>T	c.(1723-1725)acC>acT
A	c.81C>T	c.(79-81)gcC>gcT
A	c.1687C>T	c.(1687-1689)Cca>Tca
A	c.1678C>T	c.(1678-1680)Cct>Tct
T	c.264C>T	c.(262-264)ttC>ttT
A	c.1573G>A	c.(1573-1575)Gag>Aag
A	c.408G>A	c.(406-408)acG>acA
T		
G	c.975_splice	c.e9-1
T	c.6208C>T	c.(6208-6210)Cca>Tca
T	c.1748C>T	c.(1747-1749)tCc>tTc
T	c.3119G>A	c.(3118-3120)gGa>gAa
A	c.1436C>T	c.(1435-1437)tCt>tTt
T	c.2043G>A	c.(2041-2043)atG>atA
A	c.841G>A	c.(841-843)Gga>Aga
A	c.605T>A	c.(604-606)tTt>tAt
A	c.554C>T	c.(553-555)cCa>cTa
T	c.2598G>A	c.(2596-2598)tcG>tcA
T		
A	c.1362C>T	c.(1360-1362)aaC>aaT
A	c.1022C>T	c.(1021-1023)cCc>cTc
A	c.591C>T	c.(589-591)ctC>ctT

T	c.2493G>A	c.(2491-2493)atG>atA
T		
A	c.3135C>T	c.(3133-3135)ttC>ttT
T	c.476G>A	c.(475-477)cGa>cAa
A	c.505G>A	c.(505-507)Ggg>Agg
A	c.1944G>A	c.(1942-1944)cgG>cgA
T	c.253G>A	c.(253-255)Gga>Aga
T	c.2119C>T	c.(2119-2121)Cca>Tca
-	c.282delT	c.(280-282)gatfs
-	c.2261delC	c.(2260-2262)tctfs
-	c.1997delT	c.(1996-1998)ttafs
T	c.6702G>A	c.(6700-6702)aaG>aaA
T	c.2338C>T	c.(2338-2340)Cgg>Tgg
A	c.367G>A	c.(367-369)Ggg>Agg
C	c.8376T>C	c.(8374-8376)ctT>ctC
T	c.1430C>T	c.(1429-1431)cCc>cTc
T	c.430C>T	c.(430-432)Caa>Taa
T	c.517C>T	c.(517-519)Ctc>Ttc
T	c.1571C>T	c.(1570-1572)gCt>gTt
T	c.-19_splice	c.e2-1
T	c.498_splice	c.e5-1
T	c.354C>T	c.(352-354)ccC>ccT
T		
T	c.138C>T	c.(136-138)gtC>gtT
G	c.1553T>G	c.(1552-1554)tTt>tGt
T	c.748G>A	c.(748-750)Gag>Aag
G	c.73250T>C	c.(73249-73251)gTt>gCt
C	c.4316T>C	c.(4315-4317)tTc>tCc
A	c.1497C>T	c.(1495-1497)ttC>ttT
T	c.216C>T	c.(214-216)atC>atT
A	c.805G>A	c.(805-807)Gtc>Atc
T	c.33C>T	c.(31-33)ttC>ttT
T	c.1323C>T	c.(1321-1323)gtC>gtT
T	c.737C>T	c.(736-738)tCa>tTa
A		
T	c.238C>T	c.(238-240)Cga>Tga
A	c.3012G>A	c.(3010-3012)tcG>tcA
A	c.1134T>A	c.(1132-1134)acT>acA
A	c.4869C>T	c.(4867-4869)ttC>ttT
T	c.2235C>T	c.(2233-2235)tcC>tcT
A	c.1639G>A	c.(1639-1641)Gag>Aag
T	c.1438C>T	c.(1438-1440)Ctt>Ttt
A	c.2181C>T	c.(2179-2181)ggC>ggT

A	c.771C>T	c.(769-771)tcC>tcT
T		
T	c.2016G>A	c.(2014-2016)ccG>ccA
A	c.1069C>T	c.(1069-1071)Cct>Tct
A	c.3384G>A	c.(3382-3384)atG>atA
T	c.4434G>A	c.(4432-4434)ggG>ggA
T	c.1903G>A	c.(1903-1905)Gaa>Aaa
A	c.124C>T	c.(124-126)Cag>Tag
T	c.394G>A	c.(394-396)Ggt>Agt
A	c.263G>A	c.(262-264)gGa>gAa
C	c.95T>G	c.(94-96)gTg>gGg
A	c.569C>T	c.(568-570)tCc>tTc
A		
T	c.4453G>A	c.(4453-4455)Gaa>Aaa
A	c.322C>T	c.(322-324)Cct>Tct
T	c.540G>A	c.(538-540)aaG>aaA
T	c.305G>A	c.(304-306)gGa>gAa
T	c.2273C>T	c.(2272-2274)cCt>cTt
T	c.1083C>T	c.(1081-1083)atC>atT
A	c.546G>A	c.(544-546)aaG>aaA
A	c.775C>T	c.(775-777)Cca>Tca
A	c.1048C>T	c.(1048-1050)Cgt>Tgt
A	c.2424G>A	c.(2422-2424)gtG>gtA
A	c.770C>T	c.(769-771)tCg>tTg
A	c.771C>T	c.(769-771)tcC>tcT
A	c.655C>T	c.(655-657)Cgt>Tgt
A		
T	c.654G>A	c.(652-654)caG>caA
T	c.950C>T	c.(949-951)gCg>gTg
A	c.668C>T	c.(667-669)cCt>cTt
T	c.3635C>T	c.(3634-3636)tCc>tTc
A		
A		
A	c.164C>T	c.(163-165)tCc>tTc
T	c.1280A>T	c.(1279-1281)gAg>gTg
A	c.546C>T	c.(544-546)ttC>ttT
G	c.508C>G	c.(508-510)Cgg>Ggg
A	c.2539G>A	c.(2539-2541)Gga>Aga
A	c.1374G>A	c.(1372-1374)cgG>cgA
A	c.1758G>A	c.(1756-1758)agG>agA
T	c.431C>T	c.(430-432)cCa>cTa
A	c.577C>T	c.(577-579)Cct>Tct
G	c.869T>G	c.(868-870)aTc>aGc

T		
G	c.353C>G	c.(352-354)cCt>cGt
A	c.4739C>T	c.(4738-4740)tCt>tTt
T	c.4172G>A	c.(4171-4173)gGa>gAa
T	c.150C>T	c.(148-150)atC>atT
A	c.595C>T	c.(595-597)Ctg>Ttg
A	c.1252G>A	c.(1252-1254)Gaa>Aaa
A	c.2407C>T	c.(2407-2409)Cgg>Tgg
T		
T	c.581C>T	c.(580-582)tCa>tTa
A	c.1813C>T	c.(1813-1815)Cat>Tat
A	c.746C>T	c.(745-747)tCc>tTc
T	c.193G>A	c.(193-195)Ggc>Agc
A	c.315C>T	c.(313-315)gcC>gcT
A	c.1101C>T	c.(1099-1101)acC>acT
A	c.1855C>T	c.(1855-1857)Cag>Tag
A		
A	c.1619C>T	c.(1618-1620)cCc>cTc
A	c.846G>A	c.(844-846)tgG>tgA
A	c.2923G>A	c.(2923-2925)Gaa>Aaa
C	c.194A>G	c.(193-195)aAt>aGt
G	c.701G>C	c.(700-702)gGc>gCc
T	c.2077_splice	c.e11+1
T		
A	c.227C>T	c.(226-228)tCa>tTa
A	c.2367C>T	c.(2365-2367)tcC>tcT
T	c.393G>A	c.(391-393)cgG>cgA
T	c.738C>T	c.(736-738)ttC>ttT
T	c.3717C>T	c.(3715-3717)acC>acT
T	c.338G>A	c.(337-339)gGa>gAa
A		
T	c.1222G>A	c.(1222-1224)Gac>Aac
A		
A	c.1544C>T	c.(1543-1545)tCg>tTg
T	c.92C>T	c.(91-93)tCc>tTc
A	c.736G>A	c.(736-738)Gat>Aat
T	c.2318C>T	c.(2317-2319)tCc>tTc
A		
A	c.2804C>T	c.(2803-2805)tCt>tTt
A	c.187G>A	c.(187-189)Ggg>Agg
T	c.2495C>T	c.(2494-2496)tCc>tTc
T	c.652G>A	c.(652-654)Gaa>Aaa
A		



T	c.2441G>A	c.(2440-2442)gGc>gAc
T	c.1744G>A	c.(1744-1746)Gaa>Aaa
T		
A	c.466C>T	c.(466-468)Ctt>Ttt
T	c.1195C>T	c.(1195-1197)Caa>Taa
A	c.41C>T	c.(40-42)tCc>tTc
T	c.943G>A	c.(943-945)Gca>Aca
T	c.56_splice	c.e2-1
T	c.524G>A	c.(523-525)gGc>gAc
A	c.699C>T	c.(697-699)atC>atT
A	c.829C>T	c.(829-831)Cct>Tct
T	c.1395C>T	c.(1393-1395)atC>atT
A	c.1197G>A	c.(1195-1197)gcG>gcA
T		
T	c.193C>T	c.(193-195)Cat>Tat
T	c.82709G>A	c.(82708-82710)gGg>gAg
A	c.4353G>A	c.(4351-4353)ctG>ctA
T	c.720_splice	c.e6+1
T	c.1455C>T	c.(1453-1455)agC>agT
A	c.890G>A	c.(889-891)gGt>gAt
A	c.281C>T	c.(280-282)tCc>tTc
T	c.868C>A	c.(868-870)Ctg>Atg
A	c.1808C>T	c.(1807-1809)tCc>tTc
A	c.2094C>T	c.(2092-2094)ccC>ccT
C	c.1044G>C	c.(1042-1044)gaG>gaC
T	c.156C>T	c.(154-156)atC>atT
T	c.5383G>A	c.(5383-5385)Gag>Aag
T	c.1641C>T	c.(1639-1641)atC>atT
A	c.1053G>A	
T	c.447C>T	c.(445-447)atC>atT
A	c.356_splice	c.e1+1
T	c.851C>T	c.(850-852)tCc>tTc
A		
A	c.235G>A	c.(235-237)Gaa>Aaa
T	c.255G>A	c.(253-255)atG>atA
A	c.75G>A	c.(73-75)atG>atA
A	c.390C>T	c.(388-390)acC>acT
A		
A	c.630G>A	c.(628-630)ctG>ctA
A	c.700G>A	c.(700-702)Gcc>Acc
C	c.10740G>C	c.(10738-10740)tgG>tgC
T		
A	c.253C>T	c.(253-255)Ctc>Ttc

A	c.6211C>T	c.(6211-6213)Cca>Tca
T	c.1581C>T	c.(1579-1581)acC>acT
T	c.577G>A	c.(577-579)Gaa>Aaa
T	c.454G>A	c.(454-456)Gaa>Aaa
T	c.2174G>A	c.(2173-2175)gGg>gAg
A	c.9T>A	c.(7-9)atT>atA
A	c.1727G>A	
C	c.1159A>G	c.(1159-1161)Aaa>Gaa
T	c.2835G>A	c.(2833-2835)atG>atA
A	c.3628G>A	c.(3628-3630)Gat>Aat
A	c.3794C>T	
A	c.334C>T	c.(334-336)Cca>Tca
T		
T		
A	c.710C>T	c.(709-711)cCt>cTt
A	c.10987G>A	c.(10987-10989)Gat>Aat
T	c.454G>A	c.(454-456)Gat>Aat
A	c.1643C>T	c.(1642-1644)tCc>tTc
T	c.2496C>T	c.(2494-2496)atC>atT
T	c.4763G>A	c.(4762-4764)cGg>cAg
A	c.750C>T	c.(748-750)ttC>ttT
A	c.3716G>A	c.(3715-3717)gGc>gAc
T	c.4586G>A	c.(4585-4587)cGa>cAa
T	c.656G>A	c.(655-657)gGa>gAa
T	c.651G>A	c.(649-651)gtG>gtA
A	c.374C>A	c.(373-375)gCc>gAc
A	c.1529G>A	c.(1528-1530)gGa>gAa
A	c.948C>T	c.(946-948)ttC>ttT
A	c.1734_splice	c.e22+1
A	c.282G>A	c.(280-282)ccG>ccA
A	c.1062G>A	c.(1060-1062)caG>caA
A	c.947C>T	c.(946-948)cCt>cTt
T		
A	c.635C>T	c.(634-636)tCc>tTc
T	c.187C>T	c.(187-189)Ctt>Ttt
A	c.829G>A	c.(829-831)Gtt>Att
A	c.1643C>T	c.(1642-1644)cCg>cTg
A	c.1511C>T	c.(1510-1512)tCg>tTg
A	c.982C>T	c.(982-984)Ccc>Tcc
A	c.80C>T	c.(79-81)tCt>tTt
A	c.1284G>A	c.(1282-1284)aaG>aaA
T	c.1493G>A	c.(1492-1494)cGa>cAa
T	c.647C>T	c.(646-648)tCt>tTt

A	c.1580C>T	c.(1579-1581)tCa>tTa
T		
A	c.1951C>T	c.(1951-1953)Ctg>Ttg
T	c.570C>T	c.(568-570)tcC>tcT
A	c.148C>T	c.(148-150)Cag>Tag
A	c.6434G>A	c.(6433-6435)cGa>cAa
A	c.2199C>T	c.(2197-2199)ttC>ttT
A	c.1941G>A	c.(1939-1941)ccG>ccA
T	c.540C>A	c.(538-540)ttC>ttA
T	c.62C>T	c.(61-63)tCa>tTa
T	c.1032C>T	c.(1030-1032)ttC>ttT
A		
A	c.721C>T	c.(721-723)Cac>Tac
A	c.1082C>T	c.(1081-1083)cCc>cTc
A	c.537C>T	c.(535-537)ttC>ttT
T	c.2598C>T	c.(2596-2598)ggC>ggT
A	c.1277G>A	c.(1276-1278)gGg>gAg
T	c.8C>T	c.(7-9)cCc>cTc
A	c.3233C>T	c.(3232-3234)tCc>tTc
T	c.2434G>A	c.(2434-2436)Gaa>Aaa
A	c.1372G>A	c.(1372-1374)Gga>Aga
A		
T		
A	c.1761G>A	c.(1759-1761)ggG>ggA
T	c.6330C>T	c.(6328-6330)ttC>ttT
T	c.104C>T	c.(103-105)aCt>aTt
T	c.550C>T	c.(550-552)Cat>Tat
T	c.90G>A	c.(88-90)aaG>aaA
T	c.729G>A	c.(727-729)ccG>ccA
A		
T	c.11021G>A	c.(11020-11022)gGa>gAa
A	c.4406C>T	c.(4405-4407)cCc>cTc
C		
T	c.313G>A	c.(313-315)Gaa>Aaa
A	c.967G>A	c.(967-969)Gag>Aag
A	c.502G>A	c.(502-504)Ggg>Agg
T	c.323C>T	c.(322-324)gCc>gTc
A	c.348G>A	c.(346-348)ctG>ctA
T	c.831G>A	c.(829-831)tgG>tgA
T	c.2289C>T	c.(2287-2289)atC>atT
T	c.441C>T	c.(439-441)ggC>ggT
C	c.569A>G	c.(568-570)cAg>cGg
A	c.692G>A	c.(691-693)gGa>gAa

A	c.1099G>A	c.(1099-1101)Gag>Aag
T	c.10056C>T	
T	c.18C>T	c.(16-18)acC>acT
T		
A	c.19394C>T	c.(19393-19395)tCa>tTa
T	c.7421G>A	c.(7420-7422)gGa>gAa
T	c.1515C>T	c.(1513-1515)gtC>gtT
A	c.261C>T	c.(259-261)ttC>ttT
T	c.945G>A	c.(943-945)tgG>tgA
T	c.424C>T	c.(424-426)Cag>Tag
A	c.9071G>A	c.(9070-9072)gGa>gAa
A	c.1173C>T	c.(1171-1173)atC>atT
A		
T		
T	c.752G>A	c.(751-753)aGa>aAa
T	c.167G>A	c.(166-168)gGa>gAa
A	c.90G>A	c.(88-90)gaG>gaA
A	c.262G>A	c.(262-264)Gga>Aga
A	c.187C>T	c.(187-189)Ctg>Ttg
A	c.540C>T	c.(538-540)ttC>ttT
A	c.457_splice	c.e4+1
T	c.666G>A	c.(664-666)tcG>tcA
T	c.1051C>T	c.(1051-1053)Ctc>Ttc
A	c.1120C>T	c.(1120-1122)Ctg>Ttg
A	c.364C>T	c.(364-366)Cgt>Tgt
A	c.1354C>T	c.(1354-1356)Cct>Tct
T	c.932C>T	c.(931-933)gCc>gTc
T		
A	c.981C>A	c.(979-981)atC>atA
T	c.884G>A	c.(883-885)gGa>gAa
T	c.1823G>A	c.(1822-1824)tGa>tAa
T	c.730C>T	c.(730-732)Cat>Tat
A	c.735C>T	c.(733-735)atC>atT
A	c.2757G>A	c.(2755-2757)cgG>cgA
A	c.1276G>A	c.(1276-1278)Gac>Aac
A		
A	c.267G>A	c.(265-267)aaG>aaA
T	c.384C>T	
A	c.917C>T	c.(916-918)tCa>tTa
T	c.1290C>T	c.(1288-1290)gtC>gtT
A		
T	c.750C>T	c.(748-750)atC>atT
G	c.694A>G	c.(694-696)Aaa>Gaa

G	c.34A>C	c.(34-36)Ata>Cta
A	c.1606C>T	c.(1606-1608)Ccc>Tcc
T	c.396T>A	c.(394-396)taT>taA
A	c.2347C>T	c.(2347-2349)Cgt>Tgt
T	c.37_splice	c.e2-1
T	c.5569G>A	c.(5569-5571)Gaa>Aaa
A	c.2425G>A	c.(2425-2427)Gga>Aga
A	c.1797G>A	c.(1795-1797)cgG>cgA
A	c.1505C>T	c.(1504-1506)tCc>tTc
C		
A	c.5285G>A	c.(5284-5286)gGc>gAc
T		
A		
T	c.3614C>T	c.(3613-3615)cCc>cTc
T	c.5227C>T	c.(5227-5229)Cac>Tac
T		
A	c.713C>T	c.(712-714)tCa>tTa
T	c.220C>T	c.(220-222)Cct>Tct
A	c.1062G>A	c.(1060-1062)atG>atA
T	c.258C>T	c.(256-258)ctC>ctT
T	c.4740G>A	c.(4738-4740)tgG>tgA
C	c.3162A>C	c.(3160-3162)ccA>ccC
A	c.5449G>A	c.(5449-5451)Gac>Aac
T	c.1339C>T	c.(1339-1341)Ccg>Tcg
A	c.157G>A	c.(157-159)Gag>Aag
T	c.885C>T	c.(883-885)atC>atT
A	c.95G>A	c.(94-96)gGg>gAg
T	c.1504G>A	c.(1504-1506)Gac>Aac
T		
A	c.9855C>T	c.(9853-9855)atC>atT
T	c.4670G>A	c.(4669-4671)gGa>gAa
A	c.2519C>T	c.(2518-2520)gCc>gTc
T	c.1264G>A	c.(1264-1266)Gat>Aat
T	c.804C>T	c.(802-804)gcC>gcT
A	c.1271G>A	c.(1270-1272)gGg>gAg
T	c.2078G>A	c.(2077-2079)aGg>aAg
T	c.533C>T	c.(532-534)tCc>tTc
T	c.944C>T	c.(943-945)tCa>tTa
T	c.4788C>T	c.(4786-4788)ggC>ggT
A	c.740C>A	c.(739-741)cCc>cAc
T	c.314C>T	c.(313-315)gCc>gTc
A		
T	c.483T>A	c.(481-483)taT>taA

A	c.8515G>A	c.(8515-8517)Gga>Aga
T	c.1565G>A	c.(1564-1566)gGc>gAc
T	c.625C>T	c.(625-627)Cgg>Tgg
A	c.567C>T	c.(565-567)atC>atT
A	c.1012G>T	c.(1012-1014)Gaa>Taa
T	c.1145G>A	c.(1144-1146)gGa>gAa
A	c.100G>A	c.(100-102)Ggc>Agc
T	c.1376G>A	c.(1375-1377)gGa>gAa
A	c.674T>A	c.(673-675)aTt>aAt
T		
A	c.588C>T	c.(586-588)gcC>gcT
T	c.1838C>T	c.(1837-1839)cCc>cTc
A	c.955G>A	c.(955-957)Gaa>Aaa
C		
A	c.3831C>T	c.(3829-3831)tcC>tcT
A	c.566C>T	c.(565-567)cCc>cTc
T	c.508G>A	c.(508-510)Gaa>Aaa
C	c.8383A>G	c.(8383-8385)Aac>Gac
T	c.1050C>T	c.(1048-1050)ccC>ccT
A	c.792G>A	c.(790-792)gtG>gtA
A	c.1896G>A	c.(1894-1896)ggG>ggA
A	c.1605C>T	c.(1603-1605)tgC>tgT
T	c.1266C>T	c.(1264-1266)ccC>ccT
A	c.1107C>T	c.(1105-1107)atC>atT
T	c.3952G>A	c.(3952-3954)Gag>Aag
T	c.562G>A	c.(562-564)Gaa>Aaa
G		
A	c.1098C>T	c.(1096-1098)ttC>ttT
T	c.1999G>A	c.(1999-2001)Gaa>Aaa
T	c.478G>A	c.(478-480)Gga>Aga
A		
T	c.1105G>A	c.(1105-1107)Gat>Aat
T		
T	c.258C>T	c.(256-258)ctC>ctT
T	c.1028G>A	c.(1027-1029)gGa>gAa
A	c.1939G>A	c.(1939-1941)Gga>Aga
A	c.2377G>A	c.(2377-2379)Gga>Aga
T	c.1033C>T	c.(1033-1035)Ccc>Tcc
T	c.29G>A	c.(28-30)cGg>cAg
A	c.4056C>T	c.(4054-4056)tcC>tcT
T	c.2428C>T	c.(2428-2430)Ctg>Ttg
T		
A	c.2690C>T	c.(2689-2691)tCt>tTt

A	c.3043G>A	c.(3043-3045)Gaa>Aaa
T	c.2852C>T	c.(2851-2853)cCt>cTt
T	c.517C>T	c.(517-519)Cgg>Tgg
T	c.1413C>T	c.(1411-1413)ttC>ttT
T	c.1464C>T	c.(1462-1464)ttC>ttT
A	c.454C>T	c.(454-456)Cga>Tga
T	c.812C>T	c.(811-813)tCt>tTt
A	c.658G>A	c.(658-660)Gaa>Aaa
T	c.982G>A	c.(982-984)Gaa>Aaa
T	c.6931C>T	c.(6931-6933)Ctg>Ttg
T	c.4G>A	c.(4-6)Gaa>Aaa
A	c.510C>T	c.(508-510)taC>taT
T	c.1733G>A	c.(1732-1734)gGc>gAc
T		
T	c.2009G>A	c.(2008-2010)gGa>gAa
T		
A	c.143G>A	c.(142-144)gGg>gAg
T	c.101_splice	c.e4-1
T	c.6861C>T	c.(6859-6861)tgC>tgT
T	c.1783C>T	c.(1783-1785)Cac>Tac
A	c.94G>A	c.(94-96)Gaa>Aaa
A	c.3270G>A	c.(3268-3270)agG>agA
T	c.666C>T	c.(664-666)ttC>ttT
T	c.610C>T	c.(610-612)Cgt>Tgt
T	c.1628C>T	c.(1627-1629)tCc>tTc
T	c.760G>A	c.(760-762)Gaa>Aaa
T	c.1387G>A	c.(1387-1389)Gag>Aag
A	c.832C>T	c.(832-834)Cac>Tac
A		
T	c.60G>A	c.(58-60)aaG>aaA
T	c.598G>A	c.(598-600)Gaa>Aaa
A	c.136G>A	c.(136-138)Gaa>Aaa
A	c.463G>A	c.(463-465)Gat>Aat
A	c.660C>T	c.(658-660)tcC>tcT
T	c.1509C>T	c.(1507-1509)taC>taT
C	c.820T>C	c.(820-822)Ttc>Ctc
G	c.378G>C	c.(376-378)acG>acC
A	c.9078C>T	c.(9076-9078)tcC>tcT
T	c.642C>T	c.(640-642)ttC>ttT
T	c.1334C>T	c.(1333-1335)tCc>tTc
T	c.938G>A	c.(937-939)cGa>cAa
A	c.51C>T	c.(49-51)ttC>ttT
A	c.367C>T	c.(367-369)Ccc>Tcc

A	c.249G>A	c.(247-249)ggG>ggA
A	c.926C>T	c.(925-927)cCg>cTg
A	c.1873C>T	c.(1873-1875)Cct>Tct
T	c.793G>A	c.(793-795)Ggg>Agg
A		
T	c.942G>A	c.(940-942)gtG>gtA
T		
A	c.897C>T	c.(895-897)atC>atT
A	c.156C>T	c.(154-156)ttC>ttT
T		
A	c.1242G>A	c.(1240-1242)gtG>gtA
T	c.630C>T	c.(628-630)ttC>ttT
A	c.574C>T	c.(574-576)Cca>Tca
A	c.894C>T	c.(892-894)ttC>ttT
T		
A	c.204_splice	c.e2+1
T	c.3G>A	c.(1-3)atG>atA
A	c.1702A>T	c.(1702-1704)Atg>Ttg
A	c.1148C>T	c.(1147-1149)cCc>cTc
T	c.891C>T	c.(889-891)tcC>tcT
T	c.154C>T	c.(154-156)Cat>Tat
T	c.730C>T	c.(730-732)Cct>Tct
T		
A	c.57G>A	c.(55-57)ggG>ggA
A		
T	c.174G>A	c.(172-174)atG>atA
T	c.259G>A	c.(259-261)Gat>Aat
A	c.318C>T	c.(316-318)ttC>ttT
C	c.56A>G	c.(55-57)cAa>cGa
T	c.127C>T	c.(127-129)Ctc>Ttc
A		
A	c.4345C>T	c.(4345-4347)Cgg>Tgg
A	c.1915C>T	c.(1915-1917)Ctt>Ttt
T	c.1737C>T	c.(1735-1737)ttC>ttT
A	c.133G>A	c.(133-135)Gag>Aag
A	c.797G>A	c.(796-798)gGg>gAg
T	c.581C>T	c.(580-582)cCc>cTc
T	c.1499C>T	c.(1498-1500)tCa>tTa
A	c.3088G>A	c.(3088-3090)Gaa>Aaa
T	c.3862C>T	c.(3862-3864)Ccc>Tcc
T	c.4473C>T	c.(4471-4473)atC>atT
T		
A	c.6135C>T	c.(6133-6135)ttC>ttT



A	c.1010G>T	c.(1009-1011)aGg>aTg
T	c.1113G>A	c.(1111-1113)tgG>tgA
T	c.3619C>T	c.(3619-3621)Ccc>Tcc
T	c.1006C>T	c.(1006-1008)Cca>Tca
A	c.2788G>A	c.(2788-2790)Gtt>Att
T	c.1257C>T	c.(1255-1257)ctC>ctT
T	c.1408C>T	c.(1408-1410)Cgt>Tgt
T	c.1302G>A	c.(1300-1302)ggG>ggA
A	c.4G>T	c.(4-6)Gga>Tga
T	c.1785C>T	c.(1783-1785)gtC>gtT
T	c.1833C>T	c.(1831-1833)gcC>gcT
A	c.2540G>A	c.(2539-2541)gGa>gAa
T		
T		
C	c.976A>G	c.(976-978)Atg>Gtg
A	c.1477C>T	c.(1477-1479)Cgg>Tgg
T		
T	c.663C>T	c.(661-663)atC>atT
T	c.87C>T	c.(85-87)ctC>ctT
A	c.1618C>T	c.(1618-1620)Ccc>Tcc
A	c.1513G>A	c.(1513-1515)Gac>Aac
A		
A		
T	c.10336G>A	c.(10336-10338)Gga>Aga
A	c.1295C>T	c.(1294-1296)cCt>cTt
A	c.1353C>T	c.(1351-1353)ctC>ctT
A	c.1000G>A	c.(1000-1002)Gaa>Aaa
T	c.198C>T	c.(196-198)ttC>ttT
A	c.1803C>T	c.(1801-1803)ttC>ttT
A	c.566G>T	c.(565-567)tGc>tTc
A	c.1442C>T	c.(1441-1443)cCc>cTc
T	c.1922C>T	c.(1921-1923)tCa>tTa
A	c.85G>A	c.(85-87)Gga>Aga
T	c.11010C>T	c.(11008-11010)acC>acT
T		
T	c.4705G>A	c.(4705-4707)Gat>Aat
T	c.345C>T	c.(343-345)ttC>ttT
A		
T		
T		
A	c.4073C>T	c.(4072-4074)cCt>cTt
T	c.877C>T	c.(877-879)Cag>Tag
A	c.830A>T	c.(829-831)tAt>tTt

A	c.79G>A	c.(79-81)Gga>Aga
T	c.5656G>A	c.(5656-5658)Gaa>Aaa
T	c.2168T>A	c.(2167-2169)cTt>cAt
A	c.486_splice	c.e4+1
T	c.3179G>A	c.(3178-3180)cGa>cAa
A	c.106G>A	c.(106-108)Gag>Aag
T	c.3918C>T	c.(3916-3918)ttC>ttT
T	c.1016C>T	c.(1015-1017)cCc>cTc
T	c.600G>A	c.(598-600)gtG>gtA
A	c.2009C>T	c.(2008-2010)cCg>cTg
T	c.2589G>T	c.(2587-2589)ttG>ttT
T	c.834G>A	c.(832-834)tgG>tgA
T	c.1665G>A	c.(1663-1665)gaG>gaA
A	c.311C>A	c.(310-312)tCc>tAc
A	c.699C>T	c.(697-699)ttC>ttT
A	c.270C>T	c.(268-270)tcC>tcT
A	c.5977G>A	c.(5977-5979)Gga>Aga
G	c.443C>G	c.(442-444)cCc>cGc
T		
T	c.1845C>T	c.(1843-1845)ttC>ttT
C		
T	c.2206C>T	c.(2206-2208)Ccg>Tcg
A	c.1619C>T	c.(1618-1620)cCg>cTg
T	c.3206G>A	
T	c.87_splice	c.e2-1
T	c.523G>A	c.(523-525)Gac>Aac
T	c.205C>T	c.(205-207)Ccc>Tcc
A		
T	c.988C>T	
A	c.808_splice	c.e7+1
A	c.497C>T	c.(496-498)cCc>cTc
A	c.1255C>T	c.(1255-1257)Cca>Tca
T	c.1163C>T	c.(1162-1164)gCc>gTc
T	c.970G>A	c.(970-972)Ggc>Agc
T	c.475G>A	c.(475-477)Gaa>Aaa
A	c.885C>T	c.(883-885)tcC>tcT
A	c.399C>T	c.(397-399)ctC>ctT
T	c.1102G>A	c.(1102-1104)Gag>Aag
T	c.3765C>T	c.(3763-3765)acC>acT
T	c.230C>T	c.(229-231)cCc>cTc
T		
A	c.1743G>A	c.(1741-1743)atG>atA
T	c.754G>A	c.(754-756)Gaa>Aaa

A	c.2381G>A	c.(2380-2382)gGg>gAg
T	c.739G>A	c.(739-741)Gac>Aac
T	c.1964G>A	c.(1963-1965)gGa>gAa
A	c.1306G>A	c.(1306-1308)Ggc>Agc
A	c.876G>A	c.(874-876)atG>atA
A	c.190C>T	c.(190-192)Ccc>Tcc
T	c.3G>A	c.(1-3)atG>atA
A	c.2456G>A	c.(2455-2457)aGg>aAg
A	c.1086G>A	c.(1084-1086)ccG>ccA
A	c.1263C>T	c.(1261-1263)ttC>ttT
A		
C	c.431A>G	c.(430-432)cAa>cGa
T	c.1857G>A	c.(1855-1857)ctG>ctA
A	c.2016C>T	c.(2014-2016)ccC>ccT
T	c.1511C>T	c.(1510-1512)tCg>tTg
T		
T	c.2816C>T	c.(2815-2817)tCt>tTt
A	c.183A>T	c.(181-183)caA>caT
T	c.2351G>A	c.(2350-2352)gGa>gAa
T	c.4741G>A	c.(4741-4743)Gag>Aag
A	c.196C>T	c.(196-198)Cga>Tga
A	c.707G>A	c.(706-708)aGg>aAg
T	c.54G>T	c.(52-54)ttG>ttT
T	c.1551C>T	c.(1549-1551)gcC>gcT
T	c.1610_splice	c.e13-1
A	c.1565C>T	c.(1564-1566)cCa>cTa
A	c.489C>T	c.(487-489)ttC>ttT
A	c.96G>A	c.(94-96)gaG>gaA
T	c.663C>T	c.(661-663)acC>acT
T	c.3418C>T	c.(3418-3420)Cac>Tac
T	c.428C>T	c.(427-429)cCc>cTc
T	c.587C>T	c.(586-588)aCc>aTc
A		
T	c.4061_splice	c.e33+1
T	c.1880C>T	c.(1879-1881)gCc>gTc
T	c.474G>A	c.(472-474)agG>agA
A	c.56G>A	c.(55-57)aGc>aAc
T	c.942C>T	c.(940-942)ttC>ttT
T	c.667C>T	c.(667-669)Cat>Tat
C		
A		
A	c.1054C>T	c.(1054-1056)Cga>Tga
T	c.2599C>T	c.(2599-2601)Cgt>Tgt

A	c.17876C>T	c.(17875-17877)tCc>tTc
T	c.467C>T	c.(466-468)gCt>gTt
T		
A	c.1186G>A	c.(1186-1188)Gag>Aag
T	c.1139G>A	c.(1138-1140)gGg>gAg
A	c.2294C>T	c.(2293-2295)tCt>tTt
A	c.714C>T	c.(712-714)atC>atT
A	c.1791C>T	c.(1789-1791)ttC>ttT
A	c.1299C>T	c.(1297-1299)atC>atT
T	c.3755C>T	c.(3754-3756)tCc>tTc
T	c.1803C>T	c.(1801-1803)acC>acT
A	c.510G>A	c.(508-510)caG>caA
T	c.508C>T	c.(508-510)Cat>Tat
A		
A	c.3658G>A	c.(3658-3660)Ggg>Agg
T	c.932G>A	c.(931-933)aGc>aAc
A	c.854C>A	c.(853-855)tCg>tAg
T	c.1346G>A	c.(1345-1347)gGa>gAa
T	c.1779G>A	c.(1777-1779)tgG>tgA
A	c.613G>A	c.(613-615)Gtg>Atg
T	c.1409C>T	c.(1408-1410)tCc>tTc
T	c.1109C>T	c.(1108-1110)tCg>tTg
T	c.1707C>T	c.(1705-1707)ttC>ttT
T	c.126C>T	c.(124-126)aaC>aaT
T	c.1347C>T	c.(1345-1347)acC>acT
T	c.1444_splice	c.e12+1
A	c.1149C>T	c.(1147-1149)ttC>ttT
A	c.464G>A	c.(463-465)gGa>gAa
T	c.1950C>T	c.(1948-1950)tcC>tcT
G	c.573T>C	c.(571-573)ggT>ggC
A	c.1997C>T	c.(1996-1998)tCt>tTt
T	c.1218C>T	c.(1216-1218)ttC>ttT
A	c.1563G>A	c.(1561-1563)gcG>gcA
T	c.65365G>A	c.(65365-65367)Ggg>Agg
A	c.7657C>T	c.(7657-7659)Caa>Taa
G	c.782A>G	c.(781-783)aAc>aGc
A	c.8164C>T	c.(8164-8166)Ccc>Tcc
A		
A	c.1125G>A	c.(1123-1125)gtG>gtA
T	c.144C>T	c.(142-144)aaC>aaT
T	c.3754C>T	c.(3754-3756)Ccc>Tcc
T	c.1123C>T	c.(1123-1125)Ccg>Tcg
A	c.1184C>T	c.(1183-1185)cCa>cTa

T	c.688_splice	c.e7+1
T	c.2364C>T	c.(2362-2364)atC>atT
A	c.999C>T	c.(997-999)atC>atT
A		
A	c.2506C>T	c.(2506-2508)Cat>Tat
A	c.66C>T	c.(64-66)gaC>gaT
T	c.738C>T	c.(736-738)ttC>ttT
A	c.3817G>A	c.(3817-3819)Gaa>Aaa
A	c.3205C>T	c.(3205-3207)Ccc>Tcc
A		
A	c.1630C>T	c.(1630-1632)Cac>Tac
T	c.1662C>T	c.(1660-1662)atC>atT
A	c.2431G>A	c.(2431-2433)Gat>Aat
T	c.534C>T	c.(532-534)ttC>ttT
A	c.1274G>A	c.(1273-1275)gGg>gAg
A	c.3213G>A	c.(3211-3213)acG>acA
A	c.2577G>A	c.(2575-2577)acG>acA
A	c.213C>T	c.(211-213)ttC>ttT
T	c.1681C>T	c.(1681-1683)Ctt>Ttt
A	c.3215G>A	c.(3214-3216)aGa>aAa
A	c.1600C>T	c.(1600-1602)Cgt>Tgt
A	c.1158C>T	c.(1156-1158)ctC>ctT
A		
T	c.796G>A	c.(796-798)Gag>Aag
A	c.1085G>A	c.(1084-1086)gGg>gAg
T		
T	c.969C>T	c.(967-969)atC>atT
T	c.192C>T	c.(190-192)gtC>gtT
A	c.1084G>A	c.(1084-1086)Gaa>Aaa
A	c.680C>T	c.(679-681)cCc>cTc
A	c.610G>A	c.(610-612)Gaa>Aaa
T	c.56G>A	c.(55-57)gGg>gAg
T	c.11437C>T	c.(11437-11439)Ccc>Tcc
T	c.10C>T	c.(10-12)Ccc>Tcc
T	c.190G>A	c.(190-192)Gat>Aat
A		
C	c.517T>C	c.(517-519)Tat>Cat
A	c.1748T>A	c.(1747-1749)aTt>aAt
T	c.1797C>T	c.(1795-1797)tcC>tcT
T	c.941C>T	
T	c.1154C>T	c.(1153-1155)tCc>tTc
T	c.3881G>A	c.(3880-3882)aGa>aAa
A	c.4420C>A	c.(4420-4422)Cat>Aat

T	c.361C>T	c.(361-363)Cgc>Tgc
A	c.604C>T	c.(604-606)Cct>Tct
C	c.3267G>C	c.(3265-3267)aaG>aaC
C	c.7474G>C	c.(7474-7476)Gac>Cac
A		
A	c.3654C>T	c.(3652-3654)atC>atT
T	c.3939G>A	c.(3937-3939)ctG>ctA
T	c.1184G>A	c.(1183-1185)gGc>gAc
T	c.171C>T	c.(169-171)ccC>ccT
G	c.171T>C	c.(169-171)agT>agC
T	c.1252G>A	c.(1252-1254)Gga>Aga
T	c.9794G>A	c.(9793-9795)gGa>gAa
G	c.2322A>G	c.(2320-2322)ctA>ctG
A	c.1491C>T	c.(1489-1491)gcC>gcT
A	c.5383C>T	c.(5383-5385)Cct>Tct
A	c.2395C>T	c.(2395-2397)Ccc>Tcc
T	c.569C>T	c.(568-570)tCa>tTa
T	c.1751C>T	c.(1750-1752)cCc>cTc
T	c.870C>T	c.(868-870)gtC>gtT
T	c.631C>T	c.(631-633)Cgg>Tgg
G	c.3504G>C	c.(3502-3504)tgG>tgC
T	c.1042G>A	c.(1042-1044)Gat>Aat
A	c.145C>T	c.(145-147)Ctt>Ttt
T	c.150C>T	c.(148-150)ttC>ttT
T	c.148C>T	c.(148-150)Cca>Tca
A	c.210C>T	c.(208-210)ttC>ttT
A	c.1221T>A	c.(1219-1221)ttT>ttA
A	c.1618C>T	c.(1618-1620)Ccg>Tcg
A	c.1846G>A	c.(1846-1848)Gag>Aag
A	c.1052C>T	c.(1051-1053)tCc>tTc
A		
A	c.801C>T	c.(799-801)tcC>tcT
T	c.1080C>T	c.(1078-1080)tcC>tcT
T	c.1699G>A	c.(1699-1701)Gaa>Aaa
T	c.3785C>T	c.(3784-3786)cCg>cTg
T		
A	c.1185C>T	c.(1183-1185)ttC>ttT
T	c.-82_splice	c.e2-1
A	c.1190A>T	c.(1189-1191)aAc>aTc
A		
A	c.1658C>T	c.(1657-1659)tCc>tTc
T	c.42978_splice	c.e2452+1
G	c.1593T>G	c.(1591-1593)ccT>ccG

T	c.39G>A	c.(37-39)gaG>gaA
A	c.333G>A	c.(331-333)tgG>tgA
T	c.375G>A	c.(373-375)cgG>cgA
T	c.1128G>A	c.(1126-1128)atG>atA
A	c.2787G>A	c.(2785-2787)aaG>aaA
T	c.697C>T	c.(697-699)Ctg>Ttg
C	c.2390T>G	c.(2389-2391)gTa>gGa
A	c.1238C>T	c.(1237-1239)tCc>tTc
T	c.546G>A	c.(544-546)caG>caA
T	c.1136G>A	c.(1135-1137)gGc>gAc
T	c.920G>A	c.(919-921)aGa>aAa
T	c.1524C>T	c.(1522-1524)ttC>ttT
T	c.1245G>A	c.(1243-1245)tcG>tcA
A		
A	c.754G>A	c.(754-756)Gac>Aac
T	c.467C>T	c.(466-468)cCt>cTt
T	c.1040C>T	c.(1039-1041)cCt>cTt
T		
G	c.3246A>G	c.(3244-3246)gtA>gtG
A	c.1257G>A	c.(1255-1257)ctG>ctA
A	c.4164C>T	c.(4162-4164)atC>atT
T	c.16678_splice	c.e584+1
A		
T	c.1323A>T	c.(1321-1323)aaA>aaT
G		
T	c.5042C>T	c.(5041-5043)cCc>cTc
A	c.1759G>A	c.(1759-1761)Gga>Aga
T	c.100G>A	c.(100-102)Gag>Aag
T	c.435G>A	c.(433-435)ggG>ggA
T		
T	c.2691C>T	c.(2689-2691)atC>atT
A	c.2876C>T	c.(2875-2877)gCc>gTc
A		
A	c.30299C>T	c.(30298-30300)tCa>tTa
T	c.840C>T	c.(838-840)acC>acT
T		
T	c.1750_splice	c.e20-1
A	c.2011G>A	c.(2011-2013)Ggt>Agt
T	c.772_splice	c.e10-1
A		
T	c.1833G>A	c.(1831-1833)tcG>tcA
A	c.1617G>A	c.(1615-1617)ctG>ctA
A	c.1885G>A	c.(1885-1887)Gat>Aat

T	c.537G>A	c.(535-537)ttG>ttA
A	c.550G>A	c.(550-552)Gag>Aag
A	c.478C>T	c.(478-480)Ctg>Ttg
A		
G	c.400A>G	c.(400-402)Aaa>Gaa
T	c.500G>A	c.(499-501)aGg>aAg
T	c.849C>T	c.(847-849)tcC>tcT
A	c.925C>T	c.(925-927)Ccg>Tcg
A	c.610G>A	c.(610-612)Gga>Aga
A	c.1561C>T	c.(1561-1563)Cac>Tac
T	c.6541G>A	c.(6541-6543)Gag>Aag
T	c.610C>T	c.(610-612)Ccg>Tcg
T	c.1368C>T	c.(1366-1368)gtC>gtT
T	c.970C>T	c.(970-972)Cct>Tct
T	c.1092C>T	c.(1090-1092)atC>atT
A	c.864C>T	c.(862-864)ttC>ttT
T	c.3990G>A	c.(3988-3990)ccG>ccA
A	c.765G>A	c.(763-765)gtG>gtA
A	c.666C>T	c.(664-666)ctC>ctT
T	c.448G>A	c.(448-450)Gac>Aac
T		
T	c.427C>T	c.(427-429)Ctc>Ttc
A	c.1783C>T	c.(1783-1785)Cat>Tat
T	c.7114G>A	c.(7114-7116)Gac>Aac
A	c.190C>T	c.(190-192)Cat>Tat
T	c.620G>A	c.(619-621)gGa>gAa
T		
T	c.1257G>A	c.(1255-1257)gtG>gtA
T	c.554C>T	c.(553-555)tCc>tTc
T	c.1403C>T	c.(1402-1404)tCa>tTa
A	c.2263G>A	c.(2263-2265)Gaa>Aaa
G	c.1510T>C	c.(1510-1512)Ttg>Ctg
T		
A	c.1206C>T	c.(1204-1206)gaC>gaT
A	c.642C>T	c.(640-642)ttC>ttT
A	c.3925C>T	c.(3925-3927)Cgt>Tgt
A	c.1688C>T	c.(1687-1689)tCc>tTc
A	c.3938C>T	c.(3937-3939)tCa>tTa
A	c.1652G>A	c.(1651-1653)tGg>tAg
T	c.1060G>A	c.(1060-1062)Gaa>Aaa
T	c.337C>T	c.(337-339)Cct>Tct
A	c.747C>T	c.(745-747)tcC>tcT
A	c.2929G>A	c.(2929-2931)Gga>Aga



A	c.1035G>A	c.(1033-1035)gtG>gtA
T	c.2658G>A	c.(2656-2658)atG>atA
T	c.202C>T	c.(202-204)Cct>Tct
T		
G	c.496G>C	c.(496-498)Ggg>Cgg
A	c.1360C>T	c.(1360-1362)Cag>Tag
T	c.518C>T	c.(517-519)cCc>cTc
G	c.733G>C	c.(733-735)Gtg>Ctg
T	c.1858C>T	
A	c.502G>A	c.(502-504)Gag>Aag
A	c.993G>A	c.(991-993)aaG>aaA
A	c.4833G>A	c.(4831-4833)agG>agA
A	c.835C>T	c.(835-837)Ccg>Tcg
T	c.2067C>T	c.(2065-2067)gtC>gtT
A	c.717C>T	c.(715-717)ttC>ttT
A	c.1817G>A	
A	c.204C>A	c.(202-204)acC>acA
A		
A	c.4294G>A	c.(4294-4296)Gac>Aac
T	c.382G>A	c.(382-384)Ggt>Agt
T	c.1101G>A	c.(1099-1101)ttG>ttA
A	c.384C>T	c.(382-384)gcC>gcT
G	c.1292A>G	c.(1291-1293)aAg>aGg
T	c.830G>A	c.(829-831)cGa>cAa
C	c.272T>C	c.(271-273)gTg>gCg
T		
A	c.233G>A	c.(232-234)aGg>aAg
T	c.844C>T	c.(844-846)Cgt>Tgt
C	c.1780T>C	c.(1780-1782)Ttg>Ctg
T	c.61C>T	c.(61-63)Cct>Tct
A		
A	c.111C>T	c.(109-111)ttC>ttT
T	c.44G>A	c.(43-45)tGg>tAg
A	c.631C>T	c.(631-633)Cgt>Tgt
A	c.238G>A	c.(238-240)Gaa>Aaa
T	c.30G>A	c.(28-30)cgG>cgA
A	c.488C>T	c.(487-489)tCc>tTc
A	c.793C>T	c.(793-795)Cct>Tct
T	c.1320C>T	c.(1318-1320)atC>atT
A	c.4345C>T	c.(4345-4347)Ccc>Tcc
A	c.800C>T	c.(799-801)gCt>gTt
T	c.1820C>T	c.(1819-1821)cCa>cTa
T		

A	c.448C>T	c.(448-450)Cgc>Tgc
A	c.1741G>A	c.(1741-1743)Gag>Aag
T	c.1430C>T	c.(1429-1431)aCc>aTc
T	c.2081C>T	c.(2080-2082)tCt>tTt
A	c.306G>A	c.(304-306)tgG>tgA
T		
T	c.1131G>A	c.(1129-1131)caG>caA
A	c.150G>A	c.(148-150)agG>agA
T	c.2679C>T	c.(2677-2679)ttC>ttT
A		
T	c.1813C>T	c.(1813-1815)Cca>Tca
A	c.84C>T	c.(82-84)atC>atT
A	c.349G>A	c.(349-351)Gaa>Aaa
T	c.2086C>T	c.(2086-2088)Cca>Tca
A	c.2631C>T	c.(2629-2631)tcC>tcT
A	c.3069C>T	c.(3067-3069)ttC>ttT
T	c.841C>A	c.(841-843)Cct>Act
A	c.150C>T	c.(148-150)gaC>gaT
A		
A	c.939C>T	c.(937-939)ttC>ttT
A	c.1106C>T	c.(1105-1107)tCa>tTa
A	c.12972C>T	c.(12970-12972)taC>taT
T	c.164G>A	c.(163-165)gGa>gAa
T	c.3425C>T	c.(3424-3426)tCt>tTt
A	c.1061C>T	c.(1060-1062)cCt>cTt
A	c.3068C>T	c.(3067-3069)cCc>cTc
T	c.1790G>A	c.(1789-1791)gGg>gAg
A	c.561C>T	c.(559-561)atC>atT
T	c.33C>T	c.(31-33)tcC>tcT
A	c.221C>T	c.(220-222)aCc>aTc
T	c.427G>A	c.(427-429)Gat>Aat
A	c.1519C>T	c.(1519-1521)Cct>Tct
A	c.4065C>T	c.(4063-4065)gcC>gcT
A	c.7828G>A	c.(7828-7830)Gaa>Aaa
T	c.5214C>T	c.(5212-5214)gcC>gcT
A	c.791G>A	c.(790-792)cGa>cAa
A	c.298G>A	c.(298-300)Gat>Aat
A	c.318G>A	c.(316-318)caG>caA
C		
T	c.2256G>A	c.(2254-2256)ggG>ggA
T	c.12117C>T	c.(12115-12117)atC>atT
T	c.797_splice	c.e6-1
A	c.3294C>T	c.(3292-3294)tcC>tcT

G	c.576T>C	c.(574-576)gaT>gaC
A	c.860C>T	c.(859-861)tCc>tTc
T	c.1542G>A	c.(1540-1542)aaG>aaA
A	c.385G>A	c.(385-387)Gga>Aga
A	c.3163C>T	c.(3163-3165)Cca>Tca
T	c.234C>T	c.(232-234)ctC>ctT
T	c.1941A>T	c.(1939-1941)ggA>ggT
T	c.7177G>A	c.(7177-7179)Gaa>Aaa
A	c.22805C>T	c.(22804-22806)aCc>aTc
A	c.3052A>T	c.(3052-3054)Agc>Tgc
C		
T	c.292C>T	c.(292-294)Cgt>Tgt
T	c.286C>T	c.(286-288)Cga>Tga
T	c.1072C>T	c.(1072-1074)Cat>Tat
A	c.1933C>T	c.(1933-1935)Cag>Tag
A	c.4317C>T	c.(4315-4317)ctC>ctT
A	c.688C>T	c.(688-690)Cct>Tct
A	c.1071C>T	c.(1069-1071)gtC>gtT
T	c.506C>T	c.(505-507)gCc>gTc
A	c.909G>A	c.(907-909)gtG>gtA
C		
T	c.62C>T	c.(61-63)tCt>tTt
A	c.1360C>T	c.(1360-1362)Ctt>Ttt
A	c.2135G>A	c.(2134-2136)cGg>cAg
T	c.636_splice	c.e7+1
T		
A		
A		
A	c.2216C>T	c.(2215-2217)tCg>tTg
A	c.6107C>T	c.(6106-6108)tCt>tTt
T	c.118C>T	c.(118-120)Ccc>Tcc
T	c.1220C>T	c.(1219-1221)tCg>tTg
T	c.44G>A	c.(43-45)gGa>gAa
A	c.56C>T	c.(55-57)tCt>tTt
A	c.1410G>A	c.(1408-1410)ctG>ctA
G	c.659T>C	c.(658-660)cTg>cCg
T	c.112C>T	c.(112-114)Ccg>Tcg
A	c.1770C>T	c.(1768-1770)ttC>ttT
T	c.921G>A	c.(919-921)caG>caA
T	c.605G>A	c.(604-606)gGc>gAc
A	c.3184G>A	c.(3184-3186)Gag>Aag
T	c.743G>A	c.(742-744)tGg>tAg
T	c.1038C>T	c.(1036-1038)ttC>ttT

A	c.4755G>A	c.(4753-4755)ccG>ccA
A	c.2268G>A	c.(2266-2268)agG>agA
T	c.2088C>T	c.(2086-2088)tcC>tcT
T	c.8230C>T	c.(8230-8232)Cga>Tga
A	c.635C>T	c.(634-636)tCa>tTa
A	c.2901G>A	c.(2899-2901)ggG>ggA
A	c.663C>T	c.(661-663)atC>atT
A		
G	c.7957A>G	c.(7957-7959)Aat>Gat
T	c.183G>A	c.(181-183)gtG>gtA
C	c.375T>G	c.(373-375)gaT>gaG
A	c.87G>A	c.(85-87)tgG>tgA
T	c.103C>T	c.(103-105)Ccc>Tcc
T	c.6906G>A	c.(6904-6906)ggG>ggA
T	c.607C>T	c.(607-609)Ctg>Ttg
C	c.817A>G	c.(817-819)Act>Gct
A	c.717G>T	c.(715-717)gtG>gtT
T		
A	c.595G>A	c.(595-597)Gag>Aag
A	c.369C>T	c.(367-369)ttC>ttT
T	c.1740C>T	c.(1738-1740)ggC>ggT
A	c.3925G>A	c.(3925-3927)Gag>Aag
A	c.452C>T	c.(451-453)tCc>tTc
A	c.2556C>T	c.(2554-2556)atC>atT
A	c.277G>A	c.(277-279)Gaa>Aaa
A		
T		
A	c.2061C>T	c.(2059-2061)acC>acT
T		
T		
T	c.1060C>A	c.(1060-1062)Cct>Act
T	c.1795C>T	c.(1795-1797)Cac>Tac
T	c.1851G>A	c.(1849-1851)ctG>ctA
T	c.2618C>T	c.(2617-2619)tCc>tTc
T	c.19894C>T	c.(19894-19896)Ccc>Tcc
T	c.148C>T	c.(148-150)Cct>Tct
T	c.1005C>T	c.(1003-1005)tcC>tcT
T	c.174C>T	c.(172-174)atC>atT
A	c.1117C>T	
T	c.701C>T	c.(700-702)tCc>tTc
T	c.455G>A	c.(454-456)gGc>gAc
T	c.347G>A	c.(346-348)gGa>gAa
A	c.1188G>A	c.(1186-1188)caG>caA

A	c.3524G>A	c.(3523-3525)gGa>gAa
A	c.1891C>T	c.(1891-1893)Cct>Tct
A	c.1039C>T	c.(1039-1041)Ctg>Ttg
T	c.67C>T	c.(67-69)Ccc>Tcc
T		
T	c.420G>A	c.(418-420)tgG>tgA
A	c.503G>A	c.(502-504)cGg>cAg
T	c.191C>T	c.(190-192)cCc>cTc
A		
T	c.477G>A	c.(475-477)ggG>ggA
T	c.267G>A	c.(265-267)ggG>ggA
T	c.1852G>A	c.(1852-1854)Gga>Aga
T	c.950G>A	c.(949-951)cGa>cAa
A	c.430_splice	c.e4+1
A	c.681G>A	c.(679-681)tgG>tgA
T	c.1461G>A	c.(1459-1461)atG>atA
T	c.6534G>A	c.(6532-6534)atG>atA
A	c.235G>A	c.(235-237)Ggt>Agt
T		
T	c.1068G>A	
T	c.2155G>A	c.(2155-2157)Gaa>Aaa
A	c.23630C>T	c.(23629-23631)tCc>tTc
A	c.28_splice	c.e3-1
T	c.205G>A	c.(205-207)Gag>Aag
T	c.558C>T	c.(556-558)atC>atT
T	c.162C>T	c.(160-162)ttC>ttT
A	c.12378C>T	c.(12376-12378)ttC>ttT
T	c.5704G>A	c.(5704-5706)Gga>Aga
A	c.2426G>A	c.(2425-2427)aGa>aAa
T	c.1774G>A	c.(1774-1776)Gaa>Aaa
T	c.2483G>A	c.(2482-2484)gGa>gAa
T	c.5780G>A	c.(5779-5781)aGa>aAa
A	c.2846C>T	c.(2845-2847)cCt>cTt
T	c.2474C>T	c.(2473-2475)tCc>tTc
T	c.801C>T	c.(799-801)atC>atT
A	c.1547C>T	c.(1546-1548)cCa>cTa
T	c.1492G>A	c.(1492-1494)Ggc>Agc
T	c.87_splice	c.e2-1
T	c.1268C>T	c.(1267-1269)tCc>tTc
A		
A	c.954C>T	c.(952-954)ttC>ttT
T		
T		

T	c.329G>A	c.(328-330)gGa>gAa
A	c.1213G>A	c.(1213-1215)Gat>Aat
A	c.3469C>T	c.(3469-3471)Cag>Tag
A	c.2283C>T	c.(2281-2283)atC>atT
T	c.590G>A	c.(589-591)gGg>gAg
A	c.934G>A	c.(934-936)Gga>Aga
T	c.2051C>T	c.(2050-2052)aCa>aTa
A	c.144C>T	c.(142-144)atC>atT
A	c.298C>T	c.(298-300)Ctc>Ttc
T	c.225C>T	c.(223-225)tcC>tcT
A	c.1929C>T	c.(1927-1929)ggC>ggT
T	c.726C>T	c.(724-726)ttC>ttT
A	c.5012G>A	
T	c.581C>T	c.(580-582)cCt>cTt
T	c.2190C>T	c.(2188-2190)ttC>ttT
G	c.211T>C	c.(211-213)Tct>Cct
A	c.232G>A	c.(232-234)Ggg>Agg
A	c.1307G>A	c.(1306-1308)aGg>aAg
T	c.1498G>A	c.(1498-1500)Gcc>Acc
A	c.1139G>A	c.(1138-1140)gGa>gAa
A	c.201C>T	c.(199-201)ccC>ccT
T	c.54C>T	c.(52-54)ttC>ttT
G	c.859A>C	c.(859-861)Ata>Cta
T	c.1561C>T	c.(1561-1563)Cct>Tct
T	c.5079G>A	c.(5077-5079)tgG>tgA
T	c.1678G>A	c.(1678-1680)Gag>Aag
T	c.1492G>A	c.(1492-1494)Gac>Aac
T	c.2269G>A	c.(2269-2271)Gcc>Acc
A	c.2070C>T	c.(2068-2070)ctC>ctT
T	c.499C>T	c.(499-501)Ctt>Ttt
A	c.423C>T	c.(421-423)ttC>ttT
A	c.823_splice	c.e3-1
G	c.11767A>G	c.(11767-11769)Aaa>Gaa
A	c.34C>T	c.(34-36)Cag>Tag
T	c.891C>T	c.(889-891)atC>atT
A	c.78C>T	c.(76-78)atC>atT
T	c.1389C>T	c.(1387-1389)ttC>ttT
A	c.670C>T	c.(670-672)Ccc>Tcc
A	c.3019C>T	c.(3019-3021)Cgg>Tgg
T	c.5449G>A	c.(5449-5451)Gat>Aat
T	c.2525G>A	c.(2524-2526)cGa>cAa
A		
A	c.1906C>T	c.(1906-1908)Cat>Tat

A	c.461G>A	c.(460-462)aGt>aAt
T		
A	c.357G>A	c.(355-357)ctG>ctA
A	c.434C>T	c.(433-435)tCc>tTc
A	c.1106C>T	c.(1105-1107)tCc>tTc
A	c.1338G>A	c.(1336-1338)gaG>gaA
T	c.982C>T	c.(982-984)Ccc>Tcc
A	c.15269C>T	c.(15268-15270)cCt>cTt
A	c.1634G>A	c.(1633-1635)cGa>cAa
A	c.276C>T	c.(274-276)atC>atT
A	c.1701C>T	c.(1699-1701)gcC>gcT
A		
A	c.838C>T	c.(838-840)Cag>Tag
T	c.3418C>T	c.(3418-3420)Cag>Tag
T	c.3140C>T	c.(3139-3141)cCa>cTa
A		
T	c.2522C>T	c.(2521-2523)tCa>tTa
T	c.7258C>T	c.(7258-7260)Cgt>Tgt
A	c.1211_splice	c.e7-1
T	c.2926C>T	c.(2926-2928)Cag>Tag
T	c.507G>A	c.(505-507)caG>caA
A	c.2796C>T	c.(2794-2796)gtC>gtT
T		
A		
T	c.117G>A	c.(115-117)ggG>ggA
T	c.19426G>A	c.(19426-19428)Gat>Aat
G		
T	c.4512C>T	
A	c.751C>T	c.(751-753)Cat>Tat
A	c.988G>A	c.(988-990)Gag>Aag
T		
A	c.2500C>T	c.(2500-2502)Cat>Tat
A	c.1061C>T	c.(1060-1062)tCc>tTc
A	c.451C>T	c.(451-453)Cat>Tat
T	c.346C>T	c.(346-348)Cgg>Tgg
T		
T	c.5308G>A	c.(5308-5310)Ggc>Agc
C	c.1888_splice	c.e18-1
T	c.133G>A	c.(133-135)Gaa>Aaa
A	c.1368G>A	c.(1366-1368)agG>agA
A	c.313C>T	c.(313-315)Cag>Tag
A	c.2353T>A	c.(2353-2355)Ttc>Atc
T	c.590C>T	c.(589-591)aCc>aTc

T	c.780C>T	c.(778-780)gtC>gtT
T	c.664C>T	c.(664-666)Ccc>Tcc
T	c.364G>A	c.(364-366)Gac>Aac
A	c.3G>A	c.(1-3)atG>atA
T	c.1068C>T	c.(1066-1068)ggC>ggT
T	c.282C>T	c.(280-282)ttC>ttT
A	c.2150C>T	c.(2149-2151)cCt>cTt
T	c.873C>T	c.(871-873)gtC>gtT
A	c.649G>A	c.(649-651)Ggg>Agg
T	c.1105C>T	c.(1105-1107)Cga>Tga
T	c.162C>T	c.(160-162)tcC>tcT
T	c.1564G>A	c.(1564-1566)Ggc>Agc
A		
A	c.3088C>T	c.(3088-3090)Ctc>Ttc
T	c.1273_splice	c.e9-1
T	c.910G>A	c.(910-912)Gag>Aag
T	c.922G>A	c.(922-924)Gaa>Aaa
A	c.2387C>T	c.(2386-2388)tCc>tTc
A	c.16841C>T	c.(16840-16842)tCc>tTc
C	c.2050A>C	c.(2050-2052)Aca>Cca
C	c.2110_splice	c.e11+1
T	c.324C>T	c.(322-324)ttC>ttT
A		
T	c.4036G>A	c.(4036-4038)Gag>Aag
A	c.1545C>T	c.(1543-1545)atC>atT
A	c.813C>T	c.(811-813)ccC>ccT
T	c.15804G>A	c.(15802-15804)acG>acA
T	c.1711G>A	c.(1711-1713)Gga>Aga
T	c.1995C>T	c.(1993-1995)ttC>ttT
T	c.541C>T	c.(541-543)Cgt>Tgt
T	c.1467G>A	c.(1465-1467)gtG>gtA
T	c.1828G>A	c.(1828-1830)Gag>Aag
T	c.330C>T	c.(328-330)ccC>ccT
T	c.182C>T	c.(181-183)tCg>tTg
A	c.1347T>A	c.(1345-1347)gcT>gcA
A	c.651G>A	c.(649-651)aaG>aaA
A	c.2512C>T	c.(2512-2514)Cat>Tat
T	c.562C>T	c.(562-564)Cgt>Tgt
A	c.222C>T	c.(220-222)atC>atT
C	c.481T>C	c.(481-483)Tct>Cct
A	c.1477G>A	c.(1477-1479)Gaa>Aaa
G	c.25A>G	c.(25-27)Aga>Gga
T	c.4495C>T	c.(4495-4497)Ctg>Ttg



A	c.311C>T	c.(310-312)cCt>cTt
T	c.295C>T	c.(295-297)Cca>Tca
A	c.7C>T	c.(7-9)Cag>Tag
A	c.1651C>T	c.(1651-1653)Cca>Tca
A	c.338C>T	c.(337-339)cCc>cTc
T	c.636_splice	c.e7+1
A	c.364C>T	c.(364-366)Ctc>Ttc
A	c.2139G>A	c.(2137-2139)atG>atA
A	c.1896G>A	c.(1894-1896)atG>atA
A	c.1507C>T	c.(1507-1509)Cag>Tag
A	c.8174C>T	c.(8173-8175)cCc>cTc
A	c.3495C>T	c.(3493-3495)ttC>ttT
A	c.322C>T	c.(322-324)Cga>Tga
T	c.754C>T	c.(754-756)Cat>Tat
T	c.1340C>T	c.(1339-1341)cCg>cTg
A	c.2481G>A	c.(2479-2481)caG>caA
T		
A		
A	c.501G>A	c.(499-501)gtG>gtA
A	c.1292G>A	c.(1291-1293)aGg>aAg
T	c.1930G>A	c.(1930-1932)Gaa>Aaa
T		
A	c.804C>T	c.(802-804)acC>acT
T	c.707C>T	c.(706-708)gCt>gTt
A	c.1483C>T	c.(1483-1485)Cgc>Tgc
T	c.898A>T	c.(898-900)Act>Tct
T	c.2984G>A	c.(2983-2985)aGc>aAc
A	c.41G>A	c.(40-42)cGa>cAa
T	c.582C>T	c.(580-582)ccC>ccT
T	c.4C>A	c.(4-6)Cca>Aca
T	c.1096C>T	c.(1096-1098)Ccc>Tcc
T	c.1040C>T	c.(1039-1041)tCc>tTc
A		
A	c.647C>T	c.(646-648)tCt>tTt
C		
A	c.684C>T	c.(682-684)ttC>ttT
T	c.278C>A	c.(277-279)tCa>tAa
T	c.4674C>T	c.(4672-4674)gtC>gtT
T	c.1183G>A	c.(1183-1185)Ggc>Agc
T	c.174C>T	c.(172-174)gcC>gcT
A	c.24G>A	c.(22-24)caG>caA
T	c.2280C>T	c.(2278-2280)ttC>ttT
T	c.1143G>A	c.(1141-1143)ctG>ctA

T	c.833C>T	c.(832-834)cCt>cTt
T	c.20996C>A	c.(20995-20997)cCt>cAt
T	c.1742C>T	c.(1741-1743)tCt>tTt
A	c.433C>T	c.(433-435)Cag>Tag
A	c.897C>T	c.(895-897)agC>agT
T	c.8848C>T	c.(8848-8850)Ccc>Tcc
T	c.674G>A	c.(673-675)aGg>aAg
A	c.1806C>T	c.(1804-1806)ttC>ttT
T	c.738C>T	c.(736-738)acC>acT
A	c.1093_splice	c.e8+1
T	c.12778C>T	c.(12778-12780)Ccc>Tcc
T	c.425C>T	c.(424-426)tCc>tTc
T	c.2739C>T	c.(2737-2739)ttC>ttT
T	c.1801_splice	c.e21-1
T	c.5894C>T	c.(5893-5895)cCt>cTt
A	c.4046C>T	c.(4045-4047)cCc>cTc
A	c.689G>A	c.(688-690)gGg>gAg
A	c.1019C>T	c.(1018-1020)tCa>tTa
A	c.356_splice	c.e1+1
T	c.739G>A	c.(739-741)Gat>Aat
T	c.538_splice	c.e7-1
T	c.2337C>T	c.(2335-2337)gcC>gcT
T	c.1421C>T	c.(1420-1422)cCa>cTa
T	c.464C>T	c.(463-465)tCc>tTc
A	c.947C>T	c.(946-948)tCg>tTg
T		
T		
T	c.3G>A	c.(1-3)atG>atA
A	c.1256C>T	c.(1255-1257)tCc>tTc
T	c.418_splice	c.e7-1
G	c.1243C>G	c.(1243-1245)Cga>Gga
T	c.170C>T	c.(169-171)tCc>tTc
A	c.1646G>A	c.(1645-1647)cGa>cAa
T	c.2716G>T	c.(2716-2718)Gag>Tag
T	c.1816G>A	c.(1816-1818)Gat>Aat
T	c.3369C>T	c.(3367-3369)ttC>ttT
C	c.2275T>C	c.(2275-2277)Ttc>Ctc
T	c.540G>A	c.(538-540)ggG>ggA
A	c.748G>A	c.(748-750)Gac>Aac
T	c.1044C>T	c.(1042-1044)aaC>aaT
A	c.757C>A	c.(757-759)Cgc>Agc
T	c.3152C>T	c.(3151-3153)cCt>cTt
A		

A		
T	c.1528G>A	c.(1528-1530)Gaa>Aaa
T	c.446C>T	c.(445-447)cCc>cTc
T	c.274G>A	c.(274-276)Gag>Aag
T	c.82710G>A	c.(82708-82710)ggG>ggA
A	c.946C>T	c.(946-948)Cct>Tct
T	c.1380G>A	c.(1378-1380)caG>caA
T	c.6650C>T	c.(6649-6651)cCg>cTg
T	c.1309C>T	c.(1309-1311)Cag>Tag
A	c.184C>T	c.(184-186)Ctt>Ttt
T	c.788T>A	c.(787-789)tTt>tAt
A	c.255C>T	c.(253-255)atC>atT
A	c.3293C>T	c.(3292-3294)aCc>aTc
T	c.6389G>A	c.(6388-6390)gGa>gAa
T	c.72G>A	c.(70-72)atG>atA
T	c.553C>T	c.(553-555)Ccc>Tcc
T	c.1173G>A	c.(1171-1173)taG>taA
T		
T	c.589C>A	c.(589-591)Ctt>Att
A	c.52G>A	c.(52-54)Gga>Aga
T	c.1197C>T	c.(1195-1197)ctC>ctT
A	c.63G>A	c.(61-63)gtG>gtA
A	c.1532G>A	c.(1531-1533)gGg>gAg
A	c.636C>T	c.(634-636)ttC>ttT
A	c.1092G>A	c.(1090-1092)ctG>ctA
A	c.2575C>T	c.(2575-2577)Cgc>Tgc
A	c.1564G>A	c.(1564-1566)Ggg>Agg
G	c.676C>G	c.(676-678)Cta>Gta
T	c.303C>T	c.(301-303)ttC>ttT
A	c.816G>A	c.(814-816)agG>agA
A	c.6G>A	c.(4-6)ggG>ggA
A	c.122G>A	c.(121-123)tGg>tAg
A	c.166C>T	c.(166-168)Ccc>Tcc
A	c.2230C>T	c.(2230-2232)Cct>Tct
A	c.6268C>T	c.(6268-6270)Ctg>Ttg
T	c.372C>T	c.(370-372)gtC>gtT
A	c.309C>T	c.(307-309)ttC>ttT
A	c.819C>T	c.(817-819)atC>atT
T	c.153C>T	c.(151-153)atC>atT
A	c.591C>T	c.(589-591)ttC>ttT
T	c.1287C>T	c.(1285-1287)tcC>tcT
T	c.834G>A	c.(832-834)ctG>ctA
A	c.184C>T	c.(184-186)Ctt>Ttt

G	c.1457A>G	c.(1456-1458)tAt>tGt
A		
T	c.5142C>T	c.(5140-5142)agC>agT
T	c.4870G>A	c.(4870-4872)Gat>Aat
T	c.966C>T	c.(964-966)ctC>ctT
T		
T	c.892C>T	c.(892-894)Cct>Tct
T	c.900C>T	c.(898-900)ctC>ctT
T	c.661C>T	c.(661-663)Cga>Tga
A	c.3157C>T	c.(3157-3159)Cca>Tca
T	c.399C>T	c.(397-399)cgC>cgT
A	c.1076G>A	c.(1075-1077)aGg>aAg
T		
A	c.856G>A	c.(856-858)Ggt>Agt
A	c.831C>T	c.(829-831)ttC>ttT
T		
A	c.637G>A	c.(637-639)Gaa>Aaa
T	c.768G>A	c.(766-768)acG>acA
A	c.95G>A	c.(94-96)gGa>gAa
A	c.1424G>A	c.(1423-1425)gGa>gAa
T	c.1530C>T	c.(1528-1530)tcC>tcT
A	c.225G>A	c.(223-225)gaG>gaA
A	c.2806C>T	c.(2806-2808)Cga>Tga
T	c.6144C>T	c.(6142-6144)ctC>ctT
A	c.1357C>T	c.(1357-1359)Cgt>Tgt
A	c.178G>A	c.(178-180)Gag>Aag
T	c.5949C>T	c.(5947-5949)ttC>ttT
A	c.652C>T	c.(652-654)Cgt>Tgt
A	c.2917C>T	c.(2917-2919)Cac>Tac
T	c.2750C>T	c.(2749-2751)tCg>tTg
A	c.1778G>A	c.(1777-1779)gGg>gAg
T	c.799G>A	c.(799-801)Gca>Aca
A	c.1130C>T	c.(1129-1131)cCc>cTc
A	c.779G>A	c.(778-780)cGa>cAa
T	c.1317C>T	c.(1315-1317)atC>atT
T	c.697G>A	c.(697-699)Gaa>Aaa
T	c.2156C>T	c.(2155-2157)aCc>aTc
A	c.9102C>T	c.(9100-9102)atC>atT
A		
T	c.1465C>T	c.(1465-1467)Cgg>Tgg
A	c.214C>T	c.(214-216)Cga>Tga
A	c.408C>T	c.(406-408)ttC>ttT
A	c.5834C>T	c.(5833-5835)tCc>tTc

T	c.2769G>A	c.(2767-2769)ggG>ggA
A	c.841G>A	c.(841-843)Gga>Aga
A	c.849G>A	c.(847-849)ggG>ggA
A		
T	c.838G>A	c.(838-840)Gtt>Att
T	c.1011C>T	c.(1009-1011)ctC>ctT
T	c.43715G>A	
T	c.709G>A	c.(709-711)Gga>Aga
T	c.3288G>A	c.(3286-3288)aaG>aaA
T	c.1513G>A	c.(1513-1515)Gga>Aga
T	c.770C>T	c.(769-771)tCc>tTc
A		
A	c.722C>T	c.(721-723)tCc>tTc
T	c.1915G>A	c.(1915-1917)Gag>Aag
T		
C	c.1073G>C	c.(1072-1074)aGg>aCg
T	c.1663C>T	c.(1663-1665)Cat>Tat
T	c.3186C>T	c.(3184-3186)caC>caT
T	c.2992C>T	c.(2992-2994)Cca>Tca
A	c.175C>T	c.(175-177)Ccc>Tcc
A	c.984C>T	c.(982-984)ttC>ttT
T		
G		
T	c.2555C>T	c.(2554-2556)cCc>cTc
T	c.1305G>A	c.(1303-1305)ggG>ggA
A	c.435C>T	c.(433-435)gcC>gcT
T	c.821G>A	c.(820-822)aGg>aAg
T	c.189G>A	c.(187-189)gtG>gtA
A	c.26430C>T	c.(26428-26430)gcC>gcT
T	c.295G>A	c.(295-297)Gag>Aag
T	c.2207C>T	c.(2206-2208)cCg>cTg
T		
A	c.795C>T	c.(793-795)ttC>ttT
T	c.2473G>A	c.(2473-2475)Gat>Aat
A	c.4757G>A	c.(4756-4758)aGg>aAg
A	c.1812G>A	c.(1810-1812)ctG>ctA
A	c.557G>A	c.(556-558)cGa>cAa
T	c.209G>A	c.(208-210)gGa>gAa
T		
T	c.1364C>T	c.(1363-1365)aCc>aTc
T	c.2499C>T	c.(2497-2499)acC>acT
A	c.3557G>A	c.(3556-3558)cGa>cAa
T	c.5327G>A	c.(5326-5328)gGg>gAg

T	c.2496G>A	c.(2494-2496)caG>caA
T	c.49C>T	c.(49-51)Ccc>Tcc
G		
T		
T	c.3065G>A	c.(3064-3066)gGt>gAt
T	c.2675G>A	c.(2674-2676)cGa>cAa
T	c.388G>A	c.(388-390)Gac>Aac
A		
T	c.2426G>A	c.(2425-2427)gGa>gAa
T	c.63C>T	c.(61-63)gcC>gcT
T	c.310C>T	c.(310-312)Ccc>Tcc
A		
A	c.28118C>T	c.(28117-28119)cCt>cTt
T	c.42C>T	c.(40-42)ctC>ctT
A	c.417G>A	c.(415-417)tgG>tgA
T	c.33C>T	c.(31-33)atC>atT
A	c.1853G>A	c.(1852-1854)gGa>gAa
T	c.2198C>T	c.(2197-2199)tCc>tTc
A	c.1164A>T	c.(1162-1164)ctA>ctT
T	c.993C>T	c.(991-993)atC>atT
A	c.268G>A	c.(268-270)Gga>Aga
A	c.449C>T	c.(448-450)gCc>gTc
T	c.401G>A	c.(400-402)gGg>gAg
A	c.1400G>A	c.(1399-1401)aGa>aAa
A	c.633G>A	c.(631-633)cgG>cgA
T	c.507C>T	c.(505-507)gcC>gcT
A	c.4289G>A	c.(4288-4290)gGa>gAa
A	c.2508C>T	c.(2506-2508)ttC>ttT
T	c.1645T>A	c.(1645-1647)Ttc>Atc
T	c.48C>T	c.(46-48)taC>taT
A	c.2550C>T	c.(2548-2550)ctC>ctT
T	c.2323G>A	c.(2323-2325)Gaa>Aaa
T	c.3756C>T	c.(3754-3756)tcC>tcT
A		
A	c.671G>A	c.(670-672)gGa>gAa
T	c.1431C>T	c.(1429-1431)ccC>ccT
A		
T	c.279C>T	c.(277-279)aaC>aaT
T	c.2467G>A	c.(2467-2469)Gga>Aga
T		
A	c.379G>A	c.(379-381)Gag>Aag
A	c.629G>A	c.(628-630)gGa>gAa
A	c.782C>T	c.(781-783)tCt>tTt

A	c.1097G>A	c.(1096-1098)cGa>cAa
A	c.87C>T	c.(85-87)tcC>tcT
T	c.1911G>A	c.(1909-1911)agG>agA
A	c.1780C>T	c.(1780-1782)Cgt>Tgt
A	c.636C>T	c.(634-636)ctC>ctT
T	c.3145G>A	c.(3145-3147)Gtg>Atg
A	c.7443G>A	c.(7441-7443)atG>atA
A	c.216C>T	c.(214-216)ttC>ttT
A	c.782C>T	c.(781-783)tCc>tTc
T	c.2774G>A	c.(2773-2775)gGt>gAt
A	c.761T>A	c.(760-762)cTa>cAa
A	c.7241G>A	c.(7240-7242)gGa>gAa
T	c.1104G>A	c.(1102-1104)aaG>aaA
A	c.1029C>T	c.(1027-1029)atC>atT
A	c.179G>A	c.(178-180)aGa>aAa
T	c.43C>T	c.(43-45)Ctg>Ttg
T		
T	c.60G>A	c.(58-60)ggG>ggA
A	c.529G>A	c.(529-531)Gct>Act
A	c.998C>T	c.(997-999)gCc>gTc
A	c.259C>T	c.(259-261)Cgt>Tgt
T	c.329C>T	c.(328-330)tCg>tTg
A	c.370C>T	c.(370-372)Cag>Tag
T	c.3695C>T	c.(3694-3696)cCg>cTg
T	c.696C>T	c.(694-696)ttC>ttT
T	c.50079G>A	
A	c.1308G>A	c.(1306-1308)ctG>ctA
C	c.1007A>G	c.(1006-1008)aAg>aGg
A	c.4343_splice	c.e20-1
A	c.503G>A	c.(502-504)gGg>gAg
T	c.2907_splice	c.e24-1
G	c.2808G>C	c.(2806-2808)caG>caC
A	c.10350C>T	
T	c.505C>T	c.(505-507)Cat>Tat
A	c.168C>T	c.(166-168)ctC>ctT
A	c.3863C>T	c.(3862-3864)cCa>cTa
T	c.928G>A	c.(928-930)Gaa>Aaa
A	c.864C>T	c.(862-864)atC>atT
A	c.759G>A	c.(757-759)ctG>ctA
A	c.315G>A	c.(313-315)gaG>gaA
T	c.595C>T	c.(595-597)Cag>Tag
T		
A	c.193G>A	c.(193-195)Ggc>Agc

A	c.108G>A	c.(106-108)aaG>aaA
A	c.851C>T	c.(850-852)tCt>tTt
T	c.220C>T	c.(220-222)Cct>Tct
G	c.356A>G	c.(355-357)aAc>aGc
T	c.1060C>T	c.(1060-1062)Cgg>Tgg
A	c.480G>T	c.(478-480)ctG>ctT
T	c.5893C>T	c.(5893-5895)Cct>Tct
T	c.1251C>T	c.(1249-1251)atC>atT
T	c.913G>A	c.(913-915)Gaa>Aaa
T	c.450C>T	c.(448-450)ttC>ttT
A	c.135G>T	c.(133-135)aaG>aaT
A	c.541C>T	c.(541-543)Cgt>Tgt
A	c.1373G>A	c.(1372-1374)gGa>gAa
T	c.661G>A	c.(661-663)Gaa>Aaa
G	c.242_splice	c.e3-1
T	c.503G>A	c.(502-504)cGa>cAa
T	c.16G>A	c.(16-18)Gat>Aat
A	c.732G>A	c.(730-732)acG>acA
A	c.2028C>T	c.(2026-2028)ttC>ttT
T	c.143C>T	c.(142-144)aCc>aTc
A	c.102C>T	c.(100-102)gcC>gcT
A		
A	c.847G>A	c.(847-849)Gag>Aag
A	c.914C>T	c.(913-915)tCc>tTc
A	c.513C>T	c.(511-513)ttC>ttT
T	c.5295G>A	c.(5293-5295)caG>caA
T	c.237C>T	c.(235-237)tcC>tcT
T	c.881G>A	c.(880-882)gGc>gAc
A	c.660C>T	c.(658-660)ctC>ctT
T	c.2556C>T	c.(2554-2556)ccC>ccT
T	c.894G>A	c.(892-894)gaG>gaA
A	c.294G>A	c.(292-294)agG>agA
A		
A	c.1294C>T	c.(1294-1296)Cgt>Tgt
G		
T	c.1848C>T	c.(1846-1848)ggC>ggT
T	c.16C>T	c.(16-18)Ctc>Ttc
T	c.72C>T	c.(70-72)gtC>gtT
G	c.682G>C	c.(682-684)Gag>Cag
A	c.688C>T	c.(688-690)Ctg>Ttg
A	c.1091C>T	c.(1090-1092)tCc>tTc
A	c.1474G>A	c.(1474-1476)Gag>Aag
T	c.910C>T	c.(910-912)Cag>Tag



A	c.881G>T	c.(880-882)gGa>gTa
T	c.602C>T	c.(601-603)tCt>tTt
T	c.1273G>A	c.(1273-1275)Gaa>Aaa
A	c.447G>A	c.(445-447)atG>atA
T	c.117C>T	c.(115-117)ttC>ttT
T	c.2411C>T	c.(2410-2412)gCc>gTc
T	c.1749T>A	c.(1747-1749)caT>caA
A	c.663C>T	c.(661-663)ctC>ctT
A	c.1585C>T	c.(1585-1587)Ccg>Tcg
T	c.1161C>T	
T		
A	c.151G>A	c.(151-153)Gga>Aga
A	c.567C>T	c.(565-567)ttC>ttT
T	c.127C>T	c.(127-129)Cca>Tca
T	c.376G>A	c.(376-378)Gac>Aac
T	c.1293C>T	c.(1291-1293)atC>atT
A		
A	c.241G>A	c.(241-243)Gaa>Aaa
A	c.424C>T	c.(424-426)Ccc>Tcc
T	c.2881C>T	c.(2881-2883)Ctt>Ttt
T	c.13078C>T	c.(13078-13080)Cca>Tca
T	c.65C>T	c.(64-66)tCg>tTg
A	c.975C>T	c.(973-975)ggC>ggT
T	c.39C>T	c.(37-39)ttC>ttT
A	c.463G>A	c.(463-465)Gga>Aga
T	c.2737C>T	c.(2737-2739)Cag>Tag
A		
G	c.2342_splice	c.e24-2
T	c.8764G>A	c.(8764-8766)Gat>Aat
A		
T	c.871C>T	c.(871-873)Ctc>Ttc
A	c.1972G>A	c.(1972-1974)Ggg>Agg
T		
G	c.3775_splice	c.e24-1
A	c.2392G>A	c.(2392-2394)Gac>Aac
T	c.3482G>A	c.(3481-3483)aGg>aAg
A	c.650G>A	c.(649-651)gGg>gAg
T	c.210G>A	c.(208-210)acG>acA
T	c.1441C>T	c.(1441-1443)Ccc>Tcc
T	c.1456C>T	c.(1456-1458)Cag>Tag
A	c.1655C>T	c.(1654-1656)gCc>gTc
A	c.637C>T	c.(637-639)Cct>Tct
T		

A	c.733G>A	c.(733-735)Gaa>Aaa
T	c.3718G>A	c.(3718-3720)Gaa>Aaa
T	c.715G>A	c.(715-717)Gga>Aga
A	c.1707C>T	c.(1705-1707)gtC>gtT
A	c.513C>T	c.(511-513)ttC>ttT
A	c.1882G>A	c.(1882-1884)Gaa>Aaa
A	c.262G>A	c.(262-264)Ggc>Agc
T	c.1791G>A	c.(1789-1791)ggG>ggA
T	c.17077G>A	c.(17077-17079)Gag>Aag
A	c.876C>T	c.(874-876)atC>atT
T	c.278C>T	c.(277-279)aCc>aTc
A	c.1120C>T	c.(1120-1122)Cat>Tat
T	c.1568C>T	c.(1567-1569)tCc>tTc
A	c.217G>A	c.(217-219)Ggt>Agt
A	c.312C>T	c.(310-312)ttC>ttT
T	c.655G>A	c.(655-657)Gag>Aag
T		
A	c.5292C>T	c.(5290-5292)atC>atT
T	c.236C>T	c.(235-237)tCc>tTc
A	c.741C>T	c.(739-741)atC>atT
T		
T	c.780C>T	c.(778-780)ttC>ttT
G	c.2398C>G	c.(2398-2400)Ctg>Gtg
T	c.72G>A	c.(70-72)cgG>cgA
A	c.482C>T	c.(481-483)gCc>gTc
A	c.2477C>T	c.(2476-2478)tCc>tTc
C	c.190A>G	c.(190-192)Ata>Gta
A		
A	c.1302C>T	c.(1300-1302)atC>atT
A	c.1302C>T	c.(1300-1302)ttC>ttT
A		
A	c.3282G>A	c.(3280-3282)aaG>aaA
A	c.312C>T	c.(310-312)tcC>tcT
A	c.586G>A	c.(586-588)Gaa>Aaa
A	c.828G>T	c.(826-828)ttG>ttT
T	c.784G>A	c.(784-786)Gga>Aga
T	c.107C>T	c.(106-108)aCt>aTt
A	c.2649C>T	c.(2647-2649)ccC>ccT
T	c.1684G>A	c.(1684-1686)Gag>Aag
T	c.5508G>A	c.(5506-5508)atG>atA
T	c.668G>A	c.(667-669)gGc>gAc
T	c.3663C>T	c.(3661-3663)ggC>ggT
A	c.2932G>A	c.(2932-2934)Gaa>Aaa

T	c.330G>A	c.(328-330)gcG>gcA
T	c.1588G>A	c.(1588-1590)Gag>Aag
T		
A	c.2192G>A	c.(2191-2193)gGa>gAa
A	c.283G>A	c.(283-285)Gaa>Aaa
A	c.1875C>T	c.(1873-1875)gcC>gcT
A		
T	c.5046G>A	c.(5044-5046)atG>atA
T	c.7837G>A	c.(7837-7839)Gag>Aag
T	c.1310C>T	c.(1309-1311)cCc>cTc
T	c.91C>T	c.(91-93)Cca>Tca
A		
T	c.-74_splice	c.e1-1
A		
T	c.901C>T	c.(901-903)Ctg>Ttg
T	c.825C>T	c.(823-825)ttC>ttT
T	c.984C>T	c.(982-984)ttC>ttT
A	c.908G>A	c.(907-909)cGa>cAa
T	c.2149C>T	c.(2149-2151)Ccc>Tcc
A	c.4696G>A	c.(4696-4698)Gaa>Aaa
T	c.264G>A	c.(262-264)gtG>gtA
G	c.1657A>G	c.(1657-1659)Acc>Gcc
T	c.341G>A	c.(340-342)aGa>aAa
T	c.1720G>A	c.(1720-1722)Gag>Aag
A	c.2541G>A	c.(2539-2541)atG>atA
T	c.626C>T	c.(625-627)gCt>gTt
T	c.36T>A	c.(34-36)taT>taA
A	c.1696C>T	c.(1696-1698)Cat>Tat
A	c.528A>T	c.(526-528)gaA>gaT
T	c.1117G>A	c.(1117-1119)Gag>Aag
T	c.211G>A	c.(211-213)Gag>Aag
A		
T	c.691G>A	c.(691-693)Ggc>Agc
T	c.5157C>T	c.(5155-5157)ctC>ctT
T	c.542C>T	c.(541-543)tCc>tTc
T	c.645C>T	c.(643-645)ttC>ttT
A	c.803C>T	c.(802-804)aCc>aTc
A	c.289G>A	c.(289-291)Gaa>Aaa
T	c.899C>T	c.(898-900)aCt>aTt
T	c.2051G>A	c.(2050-2052)aGg>aAg
T	c.615C>T	c.(613-615)gtC>gtT
T		
A	c.5C>T	c.(4-6)cCa>cTa

A		
T	c.1948G>T	c.(1948-1950)Gag>Tag
T		
A	c.106C>T	c.(106-108)Cgc>Tgc
A	c.263G>A	c.(262-264)aGt>aAt
A	c.2584G>A	c.(2584-2586)Gaa>Aaa
A	c.10953C>T	c.(10951-10953)ttC>ttT
T	c.347A>T	c.(346-348)cAa>cTa
T	c.244C>T	c.(244-246)Cgt>Tgt
T	c.1162G>A	c.(1162-1164)Gaa>Aaa
C	c.1390T>C	c.(1390-1392)Tac>Cac
A	c.1432C>T	
T	c.1302C>T	c.(1300-1302)tcC>tcT
A	c.3582C>T	c.(3580-3582)atC>atT
T		
A	c.212C>T	c.(211-213)cCc>cTc
T	c.2876G>T	c.(2875-2877)tGg>tTg
A	c.1511C>T	c.(1510-1512)tCc>tTc
A	c.518C>T	c.(517-519)tCc>tTc
T	c.1266G>A	c.(1264-1266)aaG>aaA
A	c.1122C>T	c.(1120-1122)ttC>ttT
A	c.2836C>T	c.(2836-2838)Ccc>Tcc
T		
A	c.1257C>T	c.(1255-1257)ttC>ttT
T		
T	c.11011C>T	c.(11011-11013)Caa>Taa
A	c.840G>A	c.(838-840)ggG>ggA
A	c.871G>A	c.(871-873)Gat>Aat
A		
A	c.442G>A	c.(442-444)Gac>Aac
T	c.3633C>T	c.(3631-3633)gcC>gcT
A	c.924G>A	c.(922-924)gaG>gaA
T		
T		
T	c.568G>A	c.(568-570)Gag>Aag
A	c.506C>T	c.(505-507)gCc>gTc
A	c.123C>T	c.(121-123)ctC>ctT
T	c.1880C>T	c.(1879-1881)cCc>cTc
T	c.3250G>A	c.(3250-3252)Gag>Aag
A	c.4409C>T	c.(4408-4410)tCg>tTg
C	c.1193A>G	c.(1192-1194)tAt>tGt
A	c.285C>T	c.(283-285)ttC>ttT
A	c.4199C>T	c.(4198-4200)tCc>tTc

A	c.1048C>T	c.(1048-1050)Ccg>Tcg
T		
T	c.3034C>T	c.(3034-3036)Cgc>Tgc
A	c.5773C>T	c.(5773-5775)Cga>Tga
A	c.1207C>T	c.(1207-1209)Cca>Tca
T	c.1067C>T	c.(1066-1068)tCg>tTg
A		
A	c.319G>A	c.(319-321)Gga>Aga
A	c.5697C>T	c.(5695-5697)ttC>ttT
A	c.1581_splice	c.e13-1
T	c.2101G>A	c.(2101-2103)Gga>Aga
T	c.1740C>T	c.(1738-1740)gtC>gtT
A	c.1282G>A	c.(1282-1284)Gac>Aac
T	c.426C>T	c.(424-426)ttC>ttT
A	c.1841G>A	c.(1840-1842)cGa>cAa
T	c.4G>A	c.(4-6)Gga>Aga
T	c.1944C>T	c.(1942-1944)atC>atT
A	c.559C>T	c.(559-561)Cac>Tac
T	c.465C>A	c.(463-465)ccC>ccA
A	c.580G>A	c.(580-582)Gaa>Aaa
T	c.1536C>T	c.(1534-1536)ctC>ctT
G	c.4345G>C	c.(4345-4347)Gac>Cac
T	c.830C>T	c.(829-831)tCg>tTg
T	c.802C>T	c.(802-804)Cat>Tat
T	c.2809G>A	c.(2809-2811)Gaa>Aaa
A	c.453C>T	c.(451-453)atC>atT
T	c.1140G>A	c.(1138-1140)cgG>cgA
G	c.1787T>G	c.(1786-1788)gTg>gGg
T	c.443C>T	c.(442-444)cCc>cTc
A	c.487C>T	c.(487-489)Cgt>Tgt
A	c.341G>A	c.(340-342)aGg>aAg
A	c.258C>T	c.(256-258)ctC>ctT
T	c.919G>A	c.(919-921)Gag>Aag
A	c.186C>T	c.(184-186)atC>atT
T	c.3598C>T	c.(3598-3600)Ccg>Tcg
T	c.1741G>A	c.(1741-1743)Ggg>Agg
T		
T	c.842C>T	c.(841-843)cCc>cTc
A		
A	c.3227G>T	c.(3226-3228)aGa>aTa
A	c.459C>T	c.(457-459)atC>atT
A	c.1465C>T	c.(1465-1467)Cca>Tca
T	c.827G>A	c.(826-828)gGg>gAg

T	c.3351C>T	c.(3349-3351)ctC>ctT
T	c.447C>T	c.(445-447)ccC>ccT
T	c.941C>T	c.(940-942)tCa>tTa
A	c.7004G>A	c.(7003-7005)gGa>gAa
T	c.2072C>T	c.(2071-2073)tCa>tTa
A	c.562C>T	c.(562-564)Cgg>Tgg
T	c.823C>T	c.(823-825)Ctg>Ttg
T		
A	c.11110G>A	c.(11110-11112)Gat>Aat
A	c.673G>A	c.(673-675)Gac>Aac
A	c.867C>T	c.(865-867)ctC>ctT
T	c.690G>A	c.(688-690)gtG>gtA
T	c.2368G>A	c.(2368-2370)Gag>Aag
A	c.959C>T	c.(958-960)tCc>tTc
A	c.446_splice	c.e5-1
T	c.557C>T	c.(556-558)tCa>tTa
A	c.519C>T	c.(517-519)tcC>tcT
A	c.663C>T	c.(661-663)atC>atT
T	c.1446G>A	c.(1444-1446)gaG>gaA
A	c.188C>T	c.(187-189)tCa>tTa
T	c.2257G>A	c.(2257-2259)Gaa>Aaa
T	c.225C>T	c.(223-225)ttC>ttT
A	c.15290C>T	c.(15289-15291)tCa>tTa
T	c.841G>A	c.(841-843)Gat>Aat
T	c.3421G>A	c.(3421-3423)Gaa>Aaa
A	c.1723G>A	c.(1723-1725)Gaa>Aaa
T	c.2264C>T	c.(2263-2265)tCc>tTc
T		
A		
A	c.8927G>A	c.(8926-8928)aGa>aAa
T	c.600C>T	c.(598-600)tcC>tcT
A	c.619G>A	c.(619-621)Gga>Aga
A	c.84G>A	c.(82-84)agG>agA
T	c.3312C>T	c.(3310-3312)gtC>gtT
A	c.9304C>T	c.(9304-9306)Cct>Tct
T	c.1323C>T	c.(1321-1323)gcC>gcT
A	c.1336C>T	c.(1336-1338)Ccc>Tcc
T	c.35G>A	c.(34-36)gGa>gAa
G	c.2154G>C	c.(2152-2154)gaG>gaC
A	c.133C>T	c.(133-135)Cag>Tag
T	c.5692C>T	c.(5692-5694)Cca>Tca
A	c.1946C>T	c.(1945-1947)tCa>tTa
T	c.266G>A	c.(265-267)cGa>cAa

A	c.875C>T	c.(874-876)gCc>gTc
T	c.2474G>A	c.(2473-2475)aGg>aAg
A	c.1089G>A	c.(1087-1089)tgG>tgA
A	c.319G>A	c.(319-321)Gcc>Acc
T	c.353G>A	c.(352-354)gGa>gAa
A	c.2066G>A	c.(2065-2067)gGa>gAa
A	c.2190G>A	c.(2188-2190)atG>atA
A	c.1122C>T	c.(1120-1122)atC>atT
T	c.1848G>A	c.(1846-1848)gaG>gaA
A		
A	c.1504G>A	c.(1504-1506)Gag>Aag
A	c.4654G>A	c.(4654-4656)Gag>Aag
A	c.942C>T	c.(940-942)atC>atT
A	c.1276G>A	c.(1276-1278)Ggg>Agg
A	c.1560C>T	c.(1558-1560)ggC>ggT
T	c.2425G>A	c.(2425-2427)Gga>Aga
T	c.383C>T	
A	c.3682G>A	c.(3682-3684)Gaa>Aaa
A	c.3001G>A	c.(3001-3003)Gaa>Aaa
T	c.2803G>A	c.(2803-2805)Gag>Aag
A	c.2197G>A	c.(2197-2199)Gga>Aga
T	c.1397C>T	c.(1396-1398)tCa>tTa
C	c.642T>C	c.(640-642)tcT>tcC
A	c.986C>T	c.(985-987)cCc>cTc
T	c.1117C>T	c.(1117-1119)Ccc>Tcc
A	c.222G>A	c.(220-222)tgG>tgA
T	c.589G>A	c.(589-591)Gaa>Aaa
T	c.766G>A	c.(766-768)Gaa>Aaa
T	c.383C>T	c.(382-384)tCc>tTc
A	c.550C>T	c.(550-552)Cgc>Tgc
A	c.644C>T	c.(643-645)cCg>cTg
T	c.1633G>A	c.(1633-1635)Gaa>Aaa
T	c.1156C>T	c.(1156-1158)Ccg>Tcg
T	c.2669C>T	c.(2668-2670)cCt>cTt
A	c.90T>A	c.(88-90)aaT>aaA
A	c.4782C>T	c.(4780-4782)ccC>ccT
A	c.58G>A	c.(58-60)Gaa>Aaa
A	c.808C>T	c.(808-810)Ctg>Ttg
A	c.550G>A	c.(550-552)Gaa>Aaa
A	c.548G>A	c.(547-549)gGc>gAc
A	c.16954G>A	c.(16954-16956)Gaa>Aaa
T	c.863T>A	c.(862-864)tTt>tAt
T	c.671C>T	c.(670-672)gCt>gTt

T	c.9206G>A	c.(9205-9207)aGa>aAa
A	c.1092G>T	c.(1090-1092)acG>acT
A	c.3025G>A	c.(3025-3027)Gaa>Aaa
A		
T	c.1174C>T	c.(1174-1176)Cca>Tca
T	c.760C>T	c.(760-762)Ctg>Ttg
T		
T	c.1786C>T	c.(1786-1788)Ctg>Ttg
T	c.1195G>A	c.(1195-1197)Gtg>Atg
A	c.194C>T	c.(193-195)tCc>tTc
T	c.916C>T	c.(916-918)Cgc>Tgc
T	c.1554C>T	c.(1552-1554)ttC>ttT
T	c.572C>T	c.(571-573)gCc>gTc
A	c.13783G>A	c.(13783-13785)Gaa>Aaa
A	c.659C>T	c.(658-660)aCc>aTc
A	c.6169G>A	c.(6169-6171)Ggt>Agt
A	c.3842C>T	c.(3841-3843)tCc>tTc
A	c.484C>T	c.(484-486)Cgt>Tgt
A	c.2756G>A	c.(2755-2757)aGa>aAa
A	c.1254C>T	c.(1252-1254)ctC>ctT
A	c.1084G>A	c.(1084-1086)Gac>Aac
T		
T	c.3252G>A	c.(3250-3252)ttG>ttA
T	c.825_splice	c.e7+1
A	c.1929C>T	c.(1927-1929)ctC>ctT
T	c.1305G>A	c.(1303-1305)tgG>tgA
T	c.646C>T	c.(646-648)Cag>Tag
T	c.172C>T	c.(172-174)Cct>Tct
T	c.1974G>A	c.(1972-1974)tgG>tgA
A	c.576C>T	c.(574-576)tcC>tcT
T	c.1338C>T	c.(1336-1338)atC>atT
T	c.4203G>A	c.(4201-4203)tgG>tgA
T	c.3336C>T	c.(3334-3336)ccC>ccT
T	c.319C>T	c.(319-321)Cct>Tct
T	c.9281C>T	c.(9280-9282)cCa>cTa
T	c.517G>A	c.(517-519)Gga>Aga
T		
T	c.2385C>T	c.(2383-2385)ttC>ttT
T	c.1917G>A	c.(1915-1917)gaG>gaA
A	c.601G>A	c.(601-603)Gat>Aat
T	c.750C>T	c.(748-750)atC>atT
T	c.758C>A	c.(757-759)gCa>gAa



T		
A	c.75G>A	c.(73-75)caG>caA
A	c.1171C>T	c.(1171-1173)Ctc>Ttc
A	c.1384G>A	c.(1384-1386)Gac>Aac
T	c.1093_splice	c.e8+1
T	c.474T>A	c.(472-474)aaT>aaA
A	c.647C>T	c.(646-648)tCc>tTc
A	c.1809C>T	c.(1807-1809)tcC>tcT
A	c.1155G>A	c.(1153-1155)ggG>ggA
G		
A	c.595C>T	c.(595-597)Ccc>Tcc
A	c.376C>T	c.(376-378)Ccg>Tcg
T	c.5018G>A	c.(5017-5019)gGg>gAg
T		
T	c.125C>T	c.(124-126)cCa>cTa
A	c.9049C>T	c.(9049-9051)Cgg>Tgg
T	c.187C>T	c.(187-189)Cga>Tga
T	c.1030C>T	c.(1030-1032)Cct>Tct
A	c.782T>A	c.(781-783)tTt>tAt
T	c.15C>T	c.(13-15)tcC>tcT
T		
T	c.438C>T	c.(436-438)atC>atT
A	c.829G>A	c.(829-831)Gac>Aac
T		
T	c.653C>T	c.(652-654)aCc>aTc
T		
A	c.723A>T	c.(721-723)ccA>ccT
T	c.7494C>T	c.(7492-7494)atC>atT
A		
T	c.466C>T	c.(466-468)Ctt>Ttt
T	c.314G>A	c.(313-315)gGc>gAc
T	c.146G>A	c.(145-147)gGa>gAa
T	c.1100C>T	c.(1099-1101)tCc>tTc
A		
T	c.2318C>T	c.(2317-2319)tCc>tTc
A	c.2631C>T	c.(2629-2631)taC>taT
T	c.303C>T	c.(301-303)ccC>ccT
A	c.300C>T	c.(298-300)caC>caT
A	c.1805C>T	c.(1804-1806)tCc>tTc
T	c.464A>T	c.(463-465)gAt>gTt
A	c.3958G>A	c.(3958-3960)Gtc>Atc
T	c.1261G>A	c.(1261-1263)Gaa>Aaa
A	c.2853C>T	

T	c.142A>T	c.(142-144)Aag>Tag
C		
A	c.368C>T	c.(367-369)tCc>tTc
T	c.126C>A	c.(124-126)atC>atA
A	c.302C>T	c.(301-303)tCg>tTg
T		
A	c.904G>A	c.(904-906)Ggc>Agc
T	c.4484_splice	c.e28+1
T	c.208C>T	c.(208-210)Ctg>Ttg
T	c.3069G>A	c.(3067-3069)gaG>gaA
T	c.626C>T	c.(625-627)tCc>tTc
T	c.807G>A	c.(805-807)agG>agA
T	c.1573G>A	c.(1573-1575)Gga>Aga
T	c.1009G>A	c.(1009-1011)Gag>Aag
A	c.4414G>A	c.(4414-4416)Gag>Aag
A	c.1208C>T	c.(1207-1209)cCa>cTa
T	c.773G>A	c.(772-774)cGa>cAa
A	c.690G>A	c.(688-690)gtG>gtA
A	c.3023G>A	c.(3022-3024)gGa>gAa
G		
A		
T	c.1231G>A	c.(1231-1233)Gaa>Aaa
T	c.394G>A	c.(394-396)Gat>Aat
T	c.3318C>T	c.(3316-3318)tcC>tcT
A	c.739C>A	c.(739-741)Ccc>Acc
A	c.5642C>T	c.(5641-5643)tCt>tTt
C	c.2864G>C	c.(2863-2865)gGa>gCa
T		
A	c.2250C>T	c.(2248-2250)gcC>gcT
T	c.302C>T	c.(301-303)cCc>cTc
A	c.1061C>T	c.(1060-1062)cCt>cTt
A	c.1719G>A	c.(1717-1719)aaG>aaA
T	c.1852G>A	c.(1852-1854)Gaa>Aaa
T	c.363C>T	c.(361-363)ttC>ttT
A	c.575C>T	c.(574-576)tCc>tTc
C	c.224G>C	c.(223-225)gGa>gCa
A		
T	c.10977C>T	c.(10975-10977)ttC>ttT
A	c.331C>T	c.(331-333)Cag>Tag
A	c.294G>A	c.(292-294)ggG>ggA
C	c.2093A>G	c.(2092-2094)cAt>cGt
A	c.429C>T	c.(427-429)gtC>gtT
A	c.3210C>T	c.(3208-3210)tcC>tcT

T	c.328C>T	c.(328-330)Ctg>Ttg
T		
T	c.807G>A	c.(805-807)gaG>gaA
A	c.1387G>A	c.(1387-1389)Ggg>Agg
T	c.2000G>A	c.(1999-2001)cGa>cAa
A	c.1586C>T	c.(1585-1587)cCg>cTg
T		
T		
T		
A	c.755C>T	c.(754-756)tCt>tTt
T	c.1021C>T	c.(1021-1023)Cct>Tct
T	c.1003G>A	c.(1003-1005)Gag>Aag
T	c.2191G>A	c.(2191-2193)Gga>Aga
A	c.5094G>A	c.(5092-5094)gaG>gaA
A	c.985_splice	c.e13+1
A	c.609G>A	c.(607-609)caG>caA
A		
T	c.826G>A	c.(826-828)Gag>Aag
A	c.2721G>A	c.(2719-2721)ggG>ggA
A	c.1355A>T	c.(1354-1356)aAa>aTa
A	c.99C>T	c.(97-99)ttC>ttT
T	c.512G>A	c.(511-513)gGa>gAa
A	c.138C>T	c.(136-138)tcC>tcT
T	c.2744C>T	c.(2743-2745)cCa>cTa
A	c.2051C>T	c.(2050-2052)tCt>tTt
T	c.300C>T	c.(298-300)atC>atT
G	c.942A>G	c.(940-942)ggA>ggG
T	c.18100C>A	c.(18100-18102)Cag>Aag
T	c.1699C>T	c.(1699-1701)Ctg>Ttg
T	c.1024C>T	c.(1024-1026)Ccc>Tcc
A	c.1715C>T	c.(1714-1716)tCa>tTa
A	c.600C>T	c.(598-600)ttC>ttT
A	c.84G>A	c.(82-84)agG>agA
A	c.105G>A	c.(103-105)gaG>gaA
A	c.332C>T	c.(331-333)tCg>tTg
T	c.1497G>A	c.(1495-1497)agG>agA
A	c.46C>T	c.(46-48)Cgc>Tgc
T	c.1876C>T	c.(1876-1878)Cag>Tag
T	c.1564C>T	c.(1564-1566)Ccg>Tcg
A	c.1116C>T	c.(1114-1116)ttC>ttT
T	c.538_splice	c.e7-1
T	c.4G>A	c.(4-6)Gat>Aat
T	c.140C>T	c.(139-141)cCt>cTt

T	c.2034G>A	c.(2032-2034)ggG>ggA
T	c.961C>T	c.(961-963)Cat>Tat
T	c.4835G>A	c.(4834-4836)tGg>tAg
T	c.352C>T	c.(352-354)Cga>Tga
T	c.9175G>A	c.(9175-9177)Gaa>Aaa
T	c.288G>A	c.(286-288)atG>atA
G		
A	c.2792G>A	c.(2791-2793)gGa>gAa
T	c.1881C>T	c.(1879-1881)gcC>gcT
A	c.3576G>A	c.(3574-3576)ggG>ggA
T	c.3101G>A	c.(3100-3102)gGg>gAg
A	c.999G>A	c.(997-999)ggG>ggA
A	c.1143C>T	c.(1141-1143)gcC>gcT
T	c.3378G>A	c.(3376-3378)agG>agA
T	c.890C>T	c.(889-891)tCc>tTc
T		
T	c.938C>T	c.(937-939)tCa>tTa
T	c.408C>T	c.(406-408)atC>atT
T	c.1341G>A	c.(1339-1341)gtG>gtA
A	c.1872C>T	c.(1870-1872)acC>acT
G	c.1169T>C	c.(1168-1170)aTg>aCg
T	c.2944G>A	c.(2944-2946)Gaa>Aaa
T	c.275C>T	c.(274-276)tCc>tTc
A	c.3867G>A	c.(3865-3867)ctG>ctA
T	c.1836C>T	
-	c.270_275delCACCTC	c.(268-276)atcacctcc>atc
CC	c.381_382insGG	c.(379-384)aggatgfs
C	c.9057_9058insC	c.(9055-9060)gctcccfS
-	c.4729delA	c.(4729-4731)accfs
A		
T	c.754G>A	c.(754-756)Gga>Aga
A	c.1258G>A	c.(1258-1260)Gat>Aat
A	c.1165C>T	c.(1165-1167)Cgt>Tgt
A	c.281C>T	c.(280-282)tCt>tTt
T	c.845C>T	c.(844-846)cCa>cTa
T	c.1533C>T	c.(1531-1533)ttC>ttT
A	c.729C>T	c.(727-729)gtC>gtT
T		
A	c.495C>T	c.(493-495)ctC>ctT
C	c.228G>C	c.(226-228)gcG>gcC
A		
A	c.879C>T	c.(877-879)ctC>ctT
T	c.4671G>A	c.(4669-4671)agG>agA

T	c.943G>A	c.(943-945)Gaa>Aaa
T		
T	c.279C>T	c.(277-279)ttC>ttT
T		
A		
T	c.30G>A	c.(28-30)ggG>ggA
T	c.547C>T	c.(547-549)Ctt>Ttt
T		
G	c.6141T>C	c.(6139-6141)ttT>ttC
T		
A	c.990T>A	c.(988-990)taT>taA
A	c.289C>T	c.(289-291)Cga>Tga
T	c.884G>A	c.(883-885)aGc>aAc
T	c.308C>T	c.(307-309)cCt>cTt
T	c.2002G>A	
A		
C	c.3332T>C	c.(3331-3333)gTt>gCt
T	c.121C>T	c.(121-123)Cca>Tca
T	c.2013C>T	c.(2011-2013)ttC>ttT
T	c.2727C>T	c.(2725-2727)tcC>tcT
A	c.423C>T	c.(421-423)atC>atT
T	c.1067C>T	c.(1066-1068)gCt>gTt
T	c.753C>T	c.(751-753)ttC>ttT
T	c.25641G>A	c.(25639-25641)agG>agA
C	c.1268T>G	c.(1267-1269)gTc>gGc
A		
A	c.2669G>A	c.(2668-2670)tGa>tAa
A	c.606G>A	c.(604-606)ggG>ggA
A	c.94G>A	c.(94-96)Gag>Aag
G	c.434T>G	c.(433-435)cTc>cGc
T	c.1051C>A	c.(1051-1053)Ctt>Att
A	c.754G>A	c.(754-756)Ggg>Agg
C	c.3625C>G	c.(3625-3627)Ccc>Gcc
T	c.681C>T	c.(679-681)tcC>tcT
T	c.612C>T	c.(610-612)gcC>gcT
T	c.947G>A	c.(946-948)tGg>tAg
T	c.461G>A	c.(460-462)gGa>gAa
C	c.650A>G	c.(649-651)gAc>gGc
A		
T	c.6491C>T	c.(6490-6492)aCc>aTc
G	c.315A>G	c.(313-315)caA>caG
A	c.124G>A	c.(124-126)Gaa>Aaa

T	c.302C>T	c.(301-303)cCc>cTc
T	c.1882C>T	c.(1882-1884)Cct>Tct
T	c.7434G>A	c.(7432-7434)ggG>ggA
T	c.257G>A	c.(256-258)tGg>tAg
T	c.1608G>A	c.(1606-1608)cgG>cgA
T		
T	c.1654G>A	c.(1654-1656)Gtg>Atg
T	c.349G>A	c.(349-351)Gaa>Aaa
A	c.177C>T	c.(175-177)taC>taT
A	c.503G>A	c.(502-504)aGa>aAa
T	c.1165C>T	
A		
T	c.60C>T	c.(58-60)tcC>tcT
T		
T	c.2101G>A	c.(2101-2103)Gct>Act
A		
A	c.641C>T	c.(640-642)tCa>tTa
T	c.1560G>A	c.(1558-1560)agG>agA
T	c.920C>T	c.(919-921)cCc>cTc
A		
T		
A		
A	c.176G>A	c.(175-177)aGt>aAt
G	c.1124T>C	c.(1123-1125)aTa>aCa
A	c.865G>A	c.(865-867)Gaa>Aaa
A	c.7331C>T	c.(7330-7332)cCt>cTt
A	c.303G>A	c.(301-303)tgG>tgA
T	c.2257C>T	c.(2257-2259)Caa>Taa
T		
T	c.49C>T	c.(49-51)Cca>Tca
T	c.1056G>A	c.(1054-1056)cgG>cgA
G	c.12230_splice	c.e77-1
A	c.829G>A	c.(829-831)Gag>Aag
T		
C	c.384T>G	c.(382-384)taT>taG
A	c.16G>A	c.(16-18)Gag>Aag
A	c.796C>T	c.(796-798)Cca>Tca
A	c.752C>T	
T	c.2181G>A	c.(2179-2181)gtG>gtA
A	c.3049C>T	c.(3049-3051)Ccc>Tcc
T	c.1166C>T	c.(1165-1167)tCc>tTc
T	c.1800_splice	c.e12-1
T	c.166C>T	c.(166-168)Cat>Tat

T	c.1637G>A	c.(1636-1638)gGc>gAc
A	c.669G>A	c.(667-669)aaG>aaA
T	c.561C>T	c.(559-561)gcC>gcT
A	c.2093G>A	c.(2092-2094)gGc>gAc
A	c.678C>T	c.(676-678)tcC>tcT
A	c.15125C>T	c.(15124-15126)tCc>tTc
T	c.1844C>T	c.(1843-1845)cCc>cTc
A		
A	c.63G>A	c.(61-63)ggG>ggA
T	c.1333C>T	c.(1333-1335)Cat>Tat
A	c.1117G>A	c.(1117-1119)Gat>Aat
T	c.195G>T	c.(193-195)caG>caT
A	c.425G>A	c.(424-426)gGa>gAa
A	c.477C>T	c.(475-477)ccC>ccT
T		
T	c.2488C>T	c.(2488-2490)Cgg>Tgg
A	c.6655C>T	c.(6655-6657)Ccg>Tcg
A	c.5122G>A	c.(5122-5124)Gga>Aga
A		
T	c.1211_splice	c.e8+1
T	c.55413G>A	c.(55411-55413)aaG>aaA
T		
T		
A	c.849C>T	c.(847-849)tcC>tcT
A	c.657C>T	c.(655-657)atC>atT
A		
A	c.591C>T	c.(589-591)ttC>ttT
T		
A		
T		
A	c.467G>A	c.(466-468)cGa>cAa
T	c.3002G>A	c.(3001-3003)tGg>tAg
T	c.2450C>T	c.(2449-2451)cCc>cTc
T	c.4001C>T	c.(4000-4002)tCg>tTg
T	c.575C>T	c.(574-576)tCt>tTt
T	c.1322C>T	c.(1321-1323)tCc>tTc
T	c.17704G>A	c.(17704-17706)Gag>Aag
A	c.268G>A	c.(268-270)Gag>Aag
A	c.252C>T	c.(250-252)atC>atT
A	c.52C>T	c.(52-54)Ctg>Ttg
T	c.464_splice	c.e4-1
T		
A	c.2775C>T	c.(2773-2775)atC>atT

T	c.2389G>A	c.(2389-2391)Gaa>Aaa
C		
A	c.608G>A	c.(607-609)gGa>gAa
T		
T		
A	c.584G>A	c.(583-585)gGa>gAa
T		
A	c.436G>A	c.(436-438)Gat>Aat
A		
T	c.1877C>T	c.(1876-1878)cCt>cTt
T	c.486G>A	c.(484-486)gcG>gcA
T	c.2974C>T	c.(2974-2976)Cac>Tac
G	c.1240T>C	c.(1240-1242)Tta>Cta
A	c.5076C>T	c.(5074-5076)agC>agT
A	c.1306G>A	c.(1306-1308)Gat>Aat
A	c.1731C>T	c.(1729-1731)ttC>ttT
A	c.1444T>A	c.(1444-1446)Ttc>Atc
A	c.3951C>T	c.(3949-3951)tcC>tcT
A	c.256C>T	c.(256-258)Ccc>Tcc
A	c.40C>T	c.(40-42)Cgc>Tgc
T	c.328C>T	c.(328-330)Cct>Tct
A	c.592G>A	c.(592-594)Gat>Aat
A	c.1406C>T	c.(1405-1407)cCa>cTa
A		
A		
A	c.760G>A	c.(760-762)Gat>Aat
T	c.392G>A	c.(391-393)gGa>gAa
A		
T	c.184G>A	c.(184-186)Gga>Aga
C	c.1888A>C	c.(1888-1890)Atg>Ctg
A	c.888C>T	c.(886-888)tcC>tcT
C	c.910A>G	c.(910-912)Aag>Gag
A	c.595C>T	c.(595-597)Cga>Tga
T	c.12570C>T	c.(12568-12570)ctC>ctT
A	c.3316C>T	c.(3316-3318)Cac>Tac
G		
A		
T	c.136C>T	c.(136-138)Ccc>Tcc
A	c.574C>T	c.(574-576)Cta>Tta
A		
T	c.370G>A	c.(370-372)Gac>Aac
A	c.16G>A	
T	c.1519_splice	c.e8+1



A		
A	c.913G>A	c.(913-915)Ggc>Agc
T	c.229G>A	c.(229-231)Gaa>Aaa
A	c.1131G>A	c.(1129-1131)agG>agA
A	c.1390C>T	c.(1390-1392)Cga>Tga
A	c.996G>A	c.(994-996)cgG>cgA
T	c.6705G>A	c.(6703-6705)ggG>ggA
A	c.53C>T	c.(52-54)tCt>tTt
T		
A	c.580G>A	c.(580-582)Gat>Aat
T	c.2940G>A	c.(2938-2940)ctG>ctA
A	c.1677G>A	c.(1675-1677)tgG>tgA
A	c.840C>T	c.(838-840)atC>atT
G	c.884C>G	
A	c.6567C>T	c.(6565-6567)acC>acT
T		
T	c.661C>T	c.(661-663)Ctc>Ttc
T	c.2216G>A	c.(2215-2217)gGa>gAa
A	c.932C>T	c.(931-933)gCc>gTc
T	c.484C>T	c.(484-486)Ctg>Ttg
A	c.132C>T	c.(130-132)gtC>gtT
A	c.1577G>A	c.(1576-1578)aGg>aAg
A	c.159G>A	c.(157-159)agG>agA
T	c.1397C>T	c.(1396-1398)cCt>cTt
A	c.1038C>T	c.(1036-1038)tcC>tcT
A		
C	c.1462T>C	c.(1462-1464)Ttt>Ctt
A	c.1216C>T	c.(1216-1218)Cgg>Tgg
A	c.1008C>T	c.(1006-1008)atC>atT
T		
T	c.2054C>T	c.(2053-2055)tCc>tTc
A	c.2137G>A	c.(2137-2139)Gag>Aag
T	c.1001G>A	c.(1000-1002)aGc>aAc
A	c.1292G>A	c.(1291-1293)tGt>tAt
A		
C	c.1243A>G	c.(1243-1245)Ata>Gta
A	c.1251C>T	c.(1249-1251)ttC>ttT
T	c.460G>A	c.(460-462)Gga>Aga
C	c.-41_splice	c.e2-1
C		
A	c.1844C>T	c.(1843-1845)cCc>cTc
A	c.349C>T	c.(349-351)Ctt>Ttt
T	c.1801C>T	c.(1801-1803)Ctc>Ttc

A	c.2792G>A	c.(2791-2793)gGa>gAa
A	c.387C>T	c.(385-387)atC>atT
T	c.2121C>T	c.(2119-2121)ttC>ttT
T	c.472G>A	c.(472-474)Gcc>Acc
T	c.1435G>A	c.(1435-1437)Gag>Aag
T		
T	c.1916C>T	c.(1915-1917)tCg>tTg
T	c.824G>A	c.(823-825)gGa>gAa
A	c.483G>A	c.(481-483)caG>caA
A	c.1237G>T	c.(1237-1239)Gct>Tct
T		
T		
T	c.466C>T	c.(466-468)Ctt>Ttt
A	c.1476C>T	c.(1474-1476)ctC>ctT
T		
A	c.298C>T	c.(298-300)Ccc>Tcc
A		
A	c.742G>A	c.(742-744)Gat>Aat
A	c.2647C>T	c.(2647-2649)Cct>Tct
T	c.228G>A	c.(226-228)atG>atA
C	c.4449C>G	c.(4447-4449)ctC>ctG
A	c.2793C>T	c.(2791-2793)atC>atT
A	c.1437C>T	c.(1435-1437)tcC>tcT
A		
A		
T	c.1998G>A	c.(1996-1998)ctG>ctA
T	c.2427G>A	c.(2425-2427)gaG>gaA
T		
A	c.1108C>T	c.(1108-1110)Cag>Tag
T	c.2941G>A	c.(2941-2943)Gtg>Atg
A	c.2151C>T	c.(2149-2151)ctC>ctT
T		
T		
T	c.3208C>T	c.(3208-3210)Cca>Tca
A	c.2617G>A	c.(2617-2619)Gac>Aac
A		
A		
A	c.987G>A	c.(985-987)agG>agA
A	c.100G>A	c.(100-102)Gaa>Aaa
T	c.3310G>A	c.(3310-3312)Gag>Aag
T	c.1074C>T	c.(1072-1074)ccC>ccT
A	c.13G>A	c.(13-15)Gag>Aag
T	c.81G>A	c.(79-81)atG>atA

A	c.529A>T	c.(529-531)Aac>Tac
A	c.868C>T	c.(868-870)Cct>Tct
T	c.330G>A	c.(328-330)ctG>ctA
T	c.1812C>T	c.(1810-1812)tcC>tcT
A	c.559C>T	c.(559-561)Cct>Tct
A		
A	c.968G>A	c.(967-969)aGg>aAg
A	c.1870C>T	c.(1870-1872)Ccc>Tcc
A	c.3879C>T	c.(3877-3879)gtC>gtT
T	c.109C>T	c.(109-111)Ccc>Tcc
A	c.426C>T	
A	c.12010C>T	c.(12010-12012)Ccg>Tcg
T	c.963C>T	c.(961-963)ctC>ctT
A	c.481C>T	c.(481-483)Ctt>Ttt
T	c.444C>T	c.(442-444)atC>atT
T	c.20C>T	c.(19-21)cCc>cTc
A		
T	c.1162G>A	c.(1162-1164)Gag>Aag
A	c.1475C>A	c.(1474-1476)cCa>cAa
T		
T	c.370G>A	c.(370-372)Gat>Aat
A	c.1066G>A	c.(1066-1068)Gaa>Aaa
T	c.241G>A	c.(241-243)Gat>Aat
A	c.1786C>T	c.(1786-1788)Cct>Tct
T	c.80G>A	c.(79-81)cGg>cAg
A	c.34G>A	c.(34-36)Gaa>Aaa
C	c.3653T>G	c.(3652-3654)aTt>aGt
A		
T	c.13G>A	c.(13-15)Gag>Aag
A	c.999C>T	c.(997-999)ttC>ttT
T	c.440G>A	c.(439-441)gGa>gAa
T	c.156C>T	c.(154-156)ttC>ttT
C		
A	c.70C>T	c.(70-72)Cct>Tct
T	c.694C>T	c.(694-696)Cac>Tac
A		
T	c.255C>T	c.(253-255)tcC>tcT
A		
T	c.618G>A	c.(616-618)ctG>ctA
T	c.1921G>A	c.(1921-1923)Gaa>Aaa
T	c.5101G>A	c.(5101-5103)Gag>Aag
G	c.1103A>G	c.(1102-1104)aAa>aGa

A	c.1933C>T	c.(1933-1935)Cgt>Tgt
T	c.1060G>A	c.(1060-1062)Gag>Aag
T	c.34506G>A	c.(34504-34506)caG>caA
T		
A	c.430G>A	c.(430-432)Gaa>Aaa
T	c.807A>T	c.(805-807)ttA>ttT
T	c.4884G>A	c.(4882-4884)aaG>aaA
A	c.2000C>T	c.(1999-2001)tCc>tTc
T		
A	c.1011G>A	c.(1009-1011)gtG>gtA
A	c.407C>T	c.(406-408)tCc>tTc
T	c.1268C>T	c.(1267-1269)tCc>tTc
T	c.456C>T	c.(454-456)ccC>ccT
T	c.706C>T	c.(706-708)Cca>Tca
A	c.57G>A	c.(55-57)ctG>ctA
T	c.3778G>A	c.(3778-3780)Gtt>Att
A		
A	c.749C>T	
A	c.458A>T	c.(457-459)tAt>tTt
A	c.244C>T	c.(244-246)Ccc>Tcc
T	c.2273C>T	c.(2272-2274)tCc>tTc
A	c.964G>A	c.(964-966)Gcc>Acc
A	c.1718G>A	c.(1717-1719)aGa>aAa
A		
T		
A	c.872G>A	c.(871-873)gGa>gAa
C	c.3084A>G	c.(3082-3084)ggA>ggG
T		
A	c.1036C>T	c.(1036-1038)Ccg>Tcg
C	c.203T>G	c.(202-204)cTt>cGt
T	c.2041C>T	c.(2041-2043)Ccg>Tcg
C	c.12514T>C	c.(12514-12516)Tca>Cca
A	c.2344G>A	c.(2344-2346)Gga>Aga
T	c.656T>A	
T	c.108C>T	c.(106-108)ccC>ccT
T		
T	c.1559G>A	c.(1558-1560)cGg>cAg
A		
T	c.1684G>A	c.(1684-1686)Ggt>Agt
A	c.1589C>T	c.(1588-1590)cCc>cTc
A	c.1005C>T	c.(1003-1005)ctC>ctT
A	c.7374C>T	
T	c.2230G>A	c.(2230-2232)Gac>Aac

A	c.2389C>T	c.(2389-2391)Cca>Tca
C	c.1751A>G	c.(1750-1752)cAc>cGc
T		
A	c.2291C>T	c.(2290-2292)tCg>tTg
A	c.251G>A	
A	c.517G>A	c.(517-519)Gac>Aac
A	c.2568C>T	
A	c.917G>A	c.(916-918)cGt>cAt
T	c.2424C>T	
T	c.2446G>A	c.(2446-2448)Gga>Aga
A		
A	c.306C>T	c.(304-306)tgC>tgT
G		
T	c.7332C>T	c.(7330-7332)acC>acT
T		
T	c.10208G>A	
T	c.342G>A	c.(340-342)atG>atA
A		
T	c.1735G>A	c.(1735-1737)Ggg>Agg
T	c.2500C>T	c.(2500-2502)Cgc>Tgc
T	c.1433C>T	c.(1432-1434)aCc>aTc
T	c.53C>T	c.(52-54)tCc>tTc
A		
A		
A	c.137G>A	c.(136-138)gGg>gAg
A	c.674C>T	c.(673-675)cCc>cTc
T	c.285C>T	c.(283-285)ccC>ccT
T	c.654A>T	c.(652-654)gaA>gaT
A	c.473C>T	c.(472-474)cCt>cTt
T		
T	c.368G>A	c.(367-369)gGa>gAa
A	c.1461G>A	c.(1459-1461)gcG>gcA
A		
T	c.812C>T	c.(811-813)tCc>tTc
A	c.316A>T	c.(316-318)Aag>Tag
A	c.1757C>T	c.(1756-1758)tCt>tTt
A	c.1465G>A	c.(1465-1467)Gat>Aat
T		
T	c.356G>A	c.(355-357)gGg>gAg
A	c.771C>T	c.(769-771)gcC>gcT
A		
A	c.1439C>T	c.(1438-1440)tCc>tTc
T		

A	c.811C>T	c.(811-813)Cat>Tat
T		
A		
A		
T		
T	c.156C>T	c.(154-156)acC>acT
C		
T	c.541C>T	c.(541-543)Ctg>Ttg
T	c.2697C>T	c.(2695-2697)ggC>ggT
T	c.1504C>T	c.(1504-1506)Ctc>Ttc
T	c.587C>T	c.(586-588)tCt>tTt
T		
T	c.12869C>T	c.(12868-12870)cCc>cTc
A	c.198G>A	c.(196-198)agG>agA
A	c.1149C>T	c.(1147-1149)ccC>ccT
T	c.34499G>A	c.(34498-34500)aGg>aAg
A	c.2934G>A	c.(2932-2934)tcG>tcA
A	c.987C>T	c.(985-987)gcC>gcT
T	c.259T>A	c.(259-261)Ttc>Atc
A	c.207C>T	c.(205-207)ggC>ggT
T	c.1502_splice	c.e14-1
T	c.6420C>T	c.(6418-6420)tcC>tcT
T	c.867G>A	c.(865-867)agG>agA
T	c.1545C>T	c.(1543-1545)ctC>ctT
A	c.3403C>T	c.(3403-3405)Cga>Tga
T		
A	c.33C>T	c.(31-33)atC>atT
T	c.572G>A	c.(571-573)cGa>cAa
T		
A	c.723G>A	c.(721-723)aaG>aaA
A		
T	c.887C>T	c.(886-888)aCg>aTg
T	c.2695C>T	c.(2695-2697)Ctt>Ttt
T	c.-86_splice	c.e1-1
T	c.968C>T	c.(967-969)cCc>cTc
A	c.793C>T	c.(793-795)Cat>Tat
T	c.1446G>A	c.(1444-1446)gaG>gaA
A	c.1334C>T	c.(1333-1335)cCt>cTt
A	c.952C>T	c.(952-954)Cct>Tct
T	c.1215C>T	c.(1213-1215)tcC>tcT
T	c.247G>A	c.(247-249)Gga>Aga
C	c.303G>C	c.(301-303)caG>caC
G	c.255T>C	c.(253-255)tcT>tcC

T	c.3715C>T	c.(3715-3717)Ccc>Tcc
T	c.1464G>A	c.(1462-1464)agG>agA
A	c.344G>A	c.(343-345)gGc>gAc
A		
G	c.1890T>G	c.(1888-1890)aaT>aaG
A	c.908C>T	c.(907-909)gCt>gTt
A	c.5155C>T	c.(5155-5157)Caa>Taa
T	c.3316G>A	c.(3316-3318)Gaa>Aaa
T	c.6900C>T	c.(6898-6900)ccC>ccT
T		
A		
T	c.16G>A	c.(16-18)Gag>Aag
A	c.462G>A	c.(460-462)agG>agA
A	c.166G>A	c.(166-168)Ggc>Agc
A	c.225G>A	
T	c.2030C>T	c.(2029-2031)tCc>tTc
A		
A	c.60G>A	c.(58-60)agG>agA
T	c.1213G>A	c.(1213-1215)Ggc>Agc
T	c.800C>T	c.(799-801)tCc>tTc
T	c.620C>T	c.(619-621)tCg>tTg
A		
T	c.414G>A	c.(412-414)atG>atA
A	c.986G>A	c.(985-987)gGa>gAa
A	c.2198C>T	c.(2197-2199)tCc>tTc
A		
A	c.1475G>A	c.(1474-1476)gGa>gAa
A		
T	c.1032G>A	c.(1030-1032)gcG>gcA
A		
T	c.182C>T	c.(181-183)aCc>aTc
A	c.2763G>A	c.(2761-2763)atG>atA
T	c.219C>T	c.(217-219)ttC>ttT
A	c.533A>T	c.(532-534)aAt>aTt
A	c.445C>T	c.(445-447)Cag>Tag
T	c.871G>A	c.(871-873)Gat>Aat
A	c.3667G>T	c.(3667-3669)Gcc>Tcc
T		
A		
A	c.46G>A	c.(46-48)Gcc>Acc
T	c.614_splice	c.e6-1
T	c.32039G>A	c.(32038-32040)aGa>aAa
A	c.961C>T	c.(961-963)Cct>Tct

A	c.2876C>T	c.(2875-2877)tCt>tTt
A	c.666C>T	c.(664-666)tcC>tcT
A		
A	c.1979C>T	c.(1978-1980)aCc>aTc
T		
A	c.1615C>T	c.(1615-1617)Cca>Tca
T		
A	c.196C>T	
A	c.1861C>T	c.(1861-1863)Cct>Tct
A	c.1462T>A	c.(1462-1464)Tcc>Acc
G	c.307A>C	c.(307-309)Agc>Cgc
A	c.718C>T	c.(718-720)Cgt>Tgt
A	c.3195C>T	c.(3193-3195)ttC>ttT
T	c.517G>A	c.(517-519)Ggt>Agt
T	c.1696G>A	c.(1696-1698)Gaa>Aaa
T	c.428G>A	c.(427-429)cGa>cAa
T		
A	c.1351G>A	c.(1351-1353)Gaa>Aaa
A	c.976G>A	c.(976-978)Gag>Aag
A	c.880G>A	c.(880-882)Gga>Aga
A	c.1425G>A	c.(1423-1425)cgG>cgA
A	c.1632G>A	c.(1630-1632)tgG>tgA
A	c.995G>A	c.(994-996)cGg>cAg
G	c.433T>C	c.(433-435)Tta>Cta
A	c.1046G>A	c.(1045-1047)gGa>gAa
T		
T	c.4301C>T	c.(4300-4302)cCc>cTc
A	c.1637G>A	c.(1636-1638)gGg>gAg
A	c.345C>T	c.(343-345)ccC>ccT
A	c.1298C>T	c.(1297-1299)cCc>cTc
T	c.1693G>A	c.(1693-1695)Gaa>Aaa
A	c.2011G>A	c.(2011-2013)Gaa>Aaa
T	c.793G>A	c.(793-795)Gaa>Aaa
T	c.1387C>T	c.(1387-1389)Ctt>Ttt
A	c.1078C>T	c.(1078-1080)Ctt>Ttt
A	c.712G>A	c.(712-714)Gac>Aac
G	c.1470A>G	c.(1468-1470)gaA>gaG
A	c.7509C>T	c.(7507-7509)ttC>ttT
A	c.1510G>A	c.(1510-1512)Gag>Aag
A	c.368G>A	c.(367-369)gGg>gAg
A	c.1991T>A	c.(1990-1992)gTg>gAg
T	c.852C>T	c.(850-852)ttC>ttT
A	c.3150G>A	c.(3148-3150)cgG>cgA



T		
A	c.3481G>A	c.(3481-3483)Gag>Aag
T	c.570C>T	c.(568-570)atC>atT
T	c.3749G>A	c.(3748-3750)gGa>gAa
A	c.291G>A	c.(289-291)ctG>ctA
A	c.7257C>T	c.(7255-7257)ttC>ttT
A	c.1353C>T	c.(1351-1353)ccC>ccT
A		
T		
T		
T	c.4772C>T	c.(4771-4773)cCt>cTt
A		
C	c.1059T>C	c.(1057-1059)gtT>gtC
T	c.1132C>T	c.(1132-1134)Ctc>Ttc
T	c.4629G>A	c.(4627-4629)ggG>ggA
T	c.3024C>T	c.(3022-3024)ttC>ttT
A	c.347C>T	c.(346-348)tCt>tTt
A	c.4954C>T	c.(4954-4956)Cct>Tct
T	c.427C>T	c.(427-429)Cga>Tga
T	c.88C>T	c.(88-90)Cct>Tct
A		
A	c.107C>T	c.(106-108)tCc>tTc
T	c.517C>T	c.(517-519)Cgg>Tgg
A		
T	c.91G>A	c.(91-93)Gag>Aag
A		
A	c.16G>A	c.(16-18)Gaa>Aaa
A	c.600C>T	c.(598-600)ttC>ttT
C		
G	c.419T>C	c.(418-420)gTt>gCt
T	c.333G>T	c.(331-333)ctG>ctT
T		
A	c.841G>A	c.(841-843)Gat>Aat
T	c.592C>T	c.(592-594)Ccc>Tcc
A	c.4G>A	c.(4-6)Gga>Aga
A	c.848_splice	c.e4+1
T	c.2171G>A	c.(2170-2172)aGa>aAa
T	c.249G>A	c.(247-249)gcG>gcA
A	c.1397G>A	c.(1396-1398)aGa>aAa
T	c.941C>T	c.(940-942)gCc>gTc
A	c.297C>T	c.(295-297)acC>acT
T		
A		

A	c.304G>A	c.(304-306)Ggg>Agg
T	c.555G>A	c.(553-555)gaG>gaA
T		
T	c.164C>T	c.(163-165)cCc>cTc
A	c.1336C>T	c.(1336-1338)Cct>Tct
T	c.268C>T	c.(268-270)Ccc>Tcc
T	c.415C>T	c.(415-417)Cag>Tag
T	c.659G>A	c.(658-660)gGc>gAc
T	c.1493C>T	c.(1492-1494)gCt>gTt
A	c.1551C>T	c.(1549-1551)ctC>ctT
T	c.63G>A	c.(61-63)gtG>gtA
A	c.254C>T	c.(253-255)tCg>tTg
A	c.298G>A	c.(298-300)Gcc>Acc
A		
A	c.836G>A	c.(835-837)gGc>gAc
A	c.1863C>T	c.(1861-1863)gcC>gcT
T	c.3383G>A	c.(3382-3384)gGg>gAg
T	c.1067C>T	c.(1066-1068)tCg>tTg
T		
A	c.3492C>T	c.(3490-3492)ctC>ctT
A	c.2486C>T	c.(2485-2487)gCc>gTc
T	c.59C>T	c.(58-60)tCc>tTc
T		
A	c.2101C>T	c.(2101-2103)Ctc>Ttc
A	c.224G>A	c.(223-225)gGg>gAg
T	c.948G>A	c.(946-948)tgG>tgA
A	c.1806G>A	c.(1804-1806)gaG>gaA
A	c.685G>A	c.(685-687)Gag>Aag
T	c.1731C>T	c.(1729-1731)tcC>tcT
T	c.868G>A	c.(868-870)Gag>Aag
T	c.1146C>T	c.(1144-1146)atC>atT
T	c.270C>T	c.(268-270)atC>atT
T	c.1681G>A	c.(1681-1683)Gga>Aga
A	c.3798C>T	c.(3796-3798)ttC>ttT
A		
G	c.948C>G	c.(946-948)gcC>gcG
C	c.9606T>G	c.(9604-9606)agT>agG
A	c.98G>A	c.(97-99)aGg>aAg
T	c.41125G>A	c.(41125-41127)Gaa>Aaa
T		
T	c.504C>T	c.(502-504)ttC>ttT
T		
A	c.168C>T	c.(166-168)tcC>tcT

T	c.967C>T	c.(967-969)Ccc>Tcc
T	c.1775C>T	c.(1774-1776)cCc>cTc
A	c.24C>T	c.(22-24)agC>agT
T		
T		
A	c.3157C>A	c.(3157-3159)Cag>Aag
T	c.871C>T	c.(871-873)Cct>Tct
T	c.1570C>T	c.(1570-1572)Cga>Tga
T	c.2172G>A	c.(2170-2172)ggG>ggA
A	c.1631C>T	c.(1630-1632)tCc>tTc
T	c.1820A>T	c.(1819-1821)cAg>cTg
A	c.1432G>A	c.(1432-1434)Gaa>Aaa
T	c.1369C>T	c.(1369-1371)Cag>Tag
T	c.1228C>T	c.(1228-1230)Cgg>Tgg
T	c.117C>T	c.(115-117)tcC>tcT
A	c.439G>A	c.(439-441)Gaa>Aaa
T	c.10184C>T	c.(10183-10185)tCg>tTg
T	c.1311G>A	c.(1309-1311)tcG>tcA
A		
A	c.6223G>A	c.(6223-6225)Gga>Aga
T	c.1518C>T	c.(1516-1518)acC>acT
A		
T	c.867G>A	c.(865-867)aaG>aaA
A	c.149C>T	c.(148-150)tCt>tTt
A	c.1990G>A	c.(1990-1992)Gtg>Atg
T	c.1056G>A	c.(1054-1056)atG>atA
T	c.225G>A	c.(223-225)agG>agA
A	c.1587G>A	c.(1585-1587)ccG>ccA
A		
T	c.513G>A	
A	c.1261G>A	c.(1261-1263)Gaa>Aaa
A		
A	c.2853C>A	c.(2851-2853)gcC>gcA
A	c.462C>T	c.(460-462)ttC>ttT
A	c.1102_splice	c.e20-1
T	c.3808G>A	c.(3808-3810)Gat>Aat
A		
A	c.1032C>T	c.(1030-1032)atC>atT
T	c.40435G>A	c.(40435-40437)Gaa>Aaa
G	c.2859_splice	c.e27-1
A	c.2112G>A	c.(2110-2112)agG>agA
T	c.341G>A	c.(340-342)tGg>tAg
A	c.322C>T	c.(322-324)Ccc>Tcc

A	c.440G>A	c.(439-441)gGa>gAa
T	c.354G>A	c.(352-354)agG>agA
G		
A	c.216C>T	c.(214-216)atC>atT
A	c.2164G>T	c.(2164-2166)Gag>Tag
T		
A	c.2078C>T	c.(2077-2079)tCg>tTg
A		
A	c.2115G>A	c.(2113-2115)gaG>gaA
A	c.279G>A	c.(277-279)atG>atA
A	c.1063G>A	c.(1063-1065)Gga>Aga
A	c.1676G>A	c.(1675-1677)aGg>aAg
T	c.1334C>T	c.(1333-1335)cCa>cTa
G	c.1471A>G	c.(1471-1473)Aaa>Gaa
A		
G	c.1024A>G	c.(1024-1026)Aaa>Gaa
A	c.1454C>T	c.(1453-1455)gCt>gTt
A	c.1471G>A	c.(1471-1473)Gag>Aag
T	c.877C>T	c.(877-879)Cgt>Tgt
T	c.680C>T	c.(679-681)tCc>tTc
T	c.1062C>T	c.(1060-1062)ttC>ttT
G	c.37G>C	c.(37-39)Ggt>Cgt
T	c.902C>T	c.(901-903)cCc>cTc
T	c.1537G>A	c.(1537-1539)Gaa>Aaa
A	c.8286C>T	c.(8284-8286)ttC>ttT
A	c.879C>T	c.(877-879)atC>atT
T	c.130C>T	c.(130-132)Cct>Tct
T	c.2310G>A	c.(2308-2310)acG>acA
T	c.211C>T	c.(211-213)Cgg>Tgg
T	c.765_splice	c.e13+1
A	c.1707C>T	c.(1705-1707)ttC>ttT
T	c.433C>T	c.(433-435)Cga>Tga
A	c.2863G>A	c.(2863-2865)Gat>Aat
G	c.1007T>C	c.(1006-1008)gTc>gCc
T	c.1150C>T	c.(1150-1152)Cct>Tct
A	c.128A>T	c.(127-129)aAt>aTt
G		
T	c.1190C>T	c.(1189-1191)cCg>cTg
C	c.983A>C	c.(982-984)aAa>aCa
T	c.6095C>T	c.(6094-6096)cCc>cTc
A	c.5301G>A	c.(5299-5301)atG>atA
T	c.3595G>A	c.(3595-3597)Gac>Aac
T	c.1696G>A	c.(1696-1698)Gaa>Aaa

A	c.574G>A	c.(574-576)Gaa>Aaa
A	c.2514C>T	c.(2512-2514)ttC>ttT
T	c.516C>T	c.(514-516)gcC>gcT
T	c.4628G>A	c.(4627-4629)gGg>gAg
A	c.974G>A	c.(973-975)cGa>cAa
G	c.2987A>C	c.(2986-2988)aAc>aCc
T	c.2882C>T	c.(2881-2883)cCt>cTt
A	c.801C>T	c.(799-801)ttC>ttT
A	c.2399C>T	c.(2398-2400)aCg>aTg
T	c.1776T>A	c.(1774-1776)gtT>gtA
A	c.512G>A	c.(511-513)aGc>aAc
A	c.497G>A	c.(496-498)gGa>gAa
A	c.357C>A	c.(355-357)gcC>gcA
T		
A	c.184G>A	c.(184-186)Gtt>Att
T	c.757C>T	c.(757-759)Cgc>Tgc
A	c.207G>A	c.(205-207)atG>atA
A		
T	c.989A>T	c.(988-990)tAt>tTt
C		
A	c.3977C>T	c.(3976-3978)tCa>tTa
A		
-	c.912delT	c.(910-912)cgtfs
G	c.301_302insC	c.(301-303)gaafs
-	c.1520delC	c.(1519-1521)tcafs
-	c.2367delT	c.(2365-2367)cctfs
-	delGCTCAAATGCAAGATGC/3063)ctgctcaaatgcaagatgcatttcga	
-	c.343_348delAAAGAC	c.(343-348)aaagacdel
A	c.501_502insA	c.(499-504)agtaaafs
-	c.372delC	c.(370-372)ttcfs
-	c.818_827delAAGTCGTCAC	c.(817-828)gaagtcgtcaccfs
-	c.575delC	c.(574-576)tcafs
-	93_4907delAAAGCCATATTA(4891-4908)ttaaagccatattatgca>t	
-	c.2262_2268delAGACTAC	c.(2260-2268)cgagactacfs
-	c.259delG	c.(259-261)gtgfs
-	c.4212delA	c.(4210-4212)atafs
-	c.350_351delGC	c.(349-351)cgcfcs
C	c.1941T>C	c.(1939-1941)atT>atC
T	c.715G>A	c.(715-717)Gga>Aga
A	c.420C>T	c.(418-420)ttC>ttT
T	c.10563C>T	c.(10561-10563)ctC>ctT
T	c.2596G>A	c.(2596-2598)Gaa>Aaa
A	c.228G>A	c.(226-228)ttG>ttA

A	c.668C>T	c.(667-669)cCt>cTt
A	c.1537G>A	c.(1537-1539)Gga>Aga
C	c.2416T>C	c.(2416-2418)Ttc>Ctc
T	c.397G>A	c.(397-399)Gag>Aag
A	c.3036G>A	c.(3034-3036)aaG>aaA
T	c.498C>T	c.(496-498)ccC>ccT
A		
T	c.5420G>A	c.(5419-5421)gGa>gAa
T	c.241C>T	c.(241-243)Ctt>Ttt
T	c.1913G>A	c.(1912-1914)cGa>cAa
A		
A	c.4471G>A	c.(4471-4473)Gga>Aga
A		
T	c.344C>T	c.(343-345)cCg>cTg
T	c.3738C>A	c.(3736-3738)acC>acA
T	c.1372C>T	c.(1372-1374)Cct>Tct
T		
T	c.1670C>T	c.(1669-1671)gCc>gTc
A		
T	c.1136C>T	c.(1135-1137)tCt>tTt
T	c.3154C>T	c.(3154-3156)Ctc>Ttc
A		
A	c.415C>T	c.(415-417)Ccc>Tcc
A	c.3168C>T	
T	c.670C>T	c.(670-672)Ccc>Tcc
T	c.531G>A	c.(529-531)gaG>gaA
T	c.1970G>A	c.(1969-1971)gGg>gAg
T		
T	c.1705G>A	c.(1705-1707)Ggt>Agt
T	c.1325G>A	c.(1324-1326)gGg>gAg
A	c.1804G>A	c.(1804-1806)Gaa>Aaa
T	c.976G>A	c.(976-978)Gac>Aac
A	c.1826C>T	c.(1825-1827)tCt>tTt
T	c.908G>A	c.(907-909)tGg>tAg
T	c.1126C>T	c.(1126-1128)Caa>Taa
T	c.502G>A	c.(502-504)Gaa>Aaa
T	c.961G>A	c.(961-963)Gtt>Att
T	c.597G>A	c.(595-597)caG>caA
A	c.12224C>T	c.(12223-12225)tCa>tTa
T	c.243C>T	c.(241-243)ttC>ttT
A	c.282C>T	c.(280-282)atC>atT
T	c.4603C>T	c.(4603-4605)Ccg>Tcg

T	c.5917C>T	c.(5917-5919)Cca>Tca
A	c.322G>A	c.(322-324)Gat>Aat
T	c.1621G>A	c.(1621-1623)Gaa>Aaa
A		
A	c.562_splice	c.e4+1
T	c.4417G>A	c.(4417-4419)Gat>Aat
A	c.3813C>T	c.(3811-3813)ctC>ctT
A	c.1490G>A	c.(1489-1491)gGa>gAa
A	c.129G>A	c.(127-129)agG>agA
T	c.12C>T	c.(10-12)gcC>gcT
A	c.1580T>A	c.(1579-1581)tTt>tAt
T	c.705G>A	c.(703-705)agG>agA
A	c.363C>T	c.(361-363)ttC>ttT
T	c.5786C>T	c.(5785-5787)tCc>tTc
A	c.236C>T	c.(235-237)tCt>tTt
T	c.241C>T	c.(241-243)Ctt>Ttt
T	c.1430G>A	c.(1429-1431)tGg>tAg
A	c.1244G>A	c.(1243-1245)cGg>cAg
G	c.2428T>C	c.(2428-2430)Ttc>Ctc
T	c.596C>T	c.(595-597)cCt>cTt
A	c.64654C>T	c.(64654-64656)Ctt>Ttt
A	c.1704C>T	c.(1702-1704)ccC>ccT
A	c.271G>A	c.(271-273)Ggg>Agg
A	c.140C>T	c.(139-141)cCc>cTc
A	c.2065G>A	c.(2065-2067)Gaa>Aaa
A	c.382C>T	c.(382-384)Cgt>Tgt
T	c.1389C>T	
A		
T	c.1327G>A	c.(1327-1329)Gga>Aga
A	c.803C>T	c.(802-804)tCc>tTc
A	c.81C>T	c.(79-81)caC>caT
A	c.1129G>A	c.(1129-1131)Gaa>Aaa
T		
T	c.635G>A	c.(634-636)gGc>gAc
T	c.29G>A	c.(28-30)gGg>gAg
T	c.413C>T	c.(412-414)tCt>tTt
A	c.871G>A	c.(871-873)Gaa>Aaa
T	c.663C>T	c.(661-663)atC>atT
T	c.809G>A	c.(808-810)gGa>gAa
T	c.204C>T	c.(202-204)ccC>ccT
A	c.9333C>T	c.(9331-9333)gtC>gtT
T	c.827C>T	c.(826-828)tCc>tTc
T	c.526C>T	c.(526-528)Ctc>Ttc

A	c.1448C>T	c.(1447-1449)gCc>gTc
A	c.1385C>T	c.(1384-1386)tCc>tTc
T	c.2645G>A	c.(2644-2646)gGa>gAa
A	c.1941G>A	c.(1939-1941)aaG>aaA
A	c.808C>T	c.(808-810)Ctc>Ttc
A	c.615G>A	c.(613-615)caG>caA
T	c.174C>T	c.(172-174)gtC>gtT
A	c.1811A>T	c.(1810-1812)aAa>aTa
A	c.18949G>A	c.(18949-18951)Gga>Aga
T	c.1581C>T	c.(1579-1581)ttC>ttT
A	c.521G>A	c.(520-522)cGa>cAa
T	c.3225C>T	c.(3223-3225)ccC>ccT
T	c.1217G>A	c.(1216-1218)aGg>aAg
A	c.1876C>T	c.(1876-1878)Cct>Tct
A		
A	c.2287_splice	c.e18-1
T	c.6766C>T	c.(6766-6768)Cat>Tat
A	c.2289G>A	c.(2287-2289)ctG>ctA
A	c.1939C>T	c.(1939-1941)Ccg>Tcg
A	c.13545C>T	c.(13543-13545)ttC>ttT
T		
T	c.538C>T	c.(538-540)Cca>Tca
T	c.1866G>A	c.(1864-1866)gtG>gtA
T	c.1114C>T	c.(1114-1116)Cta>Tta
A	c.261C>T	c.(259-261)atC>atT
A	c.797C>T	c.(796-798)cCc>cTc
T	c.240G>A	c.(238-240)aaG>aaA
T	c.151C>T	c.(151-153)Cag>Tag
A	c.263C>T	c.(262-264)tCc>tTc
A	c.1081C>T	c.(1081-1083)Cct>Tct
A	c.28G>A	c.(28-30)Gat>Aat
T	c.125_splice	c.e1+1
T	c.1813G>A	c.(1813-1815)Gaa>Aaa
T	c.3002G>A	c.(3001-3003)aGa>aAa
T	c.118C>T	c.(118-120)Cct>Tct
A	c.1103G>A	c.(1102-1104)aGa>aAa
T		
A	c.1909G>A	c.(1909-1911)Gaa>Aaa
C		
T		
T	c.515C>T	c.(514-516)cCg>cTg
T		
T		



T	c.3098G>A	c.(3097-3099)gGg>gAg
T		
A	c.1737G>A	c.(1735-1737)ttG>ttA
T	c.1089G>A	c.(1087-1089)aaG>aaA
A		
T	c.270C>T	c.(268-270)atC>atT
A		
G	c.1229T>C	c.(1228-1230)tTg>tCg
T	c.3548_splice	c.e11-1
A	c.1611G>A	c.(1609-1611)gaG>gaA
A	c.720G>A	c.(718-720)agG>agA
A	c.1213G>A	c.(1213-1215)Gaa>Aaa
T		
T	c.3G>A	c.(1-3)atG>atA
T	c.263C>T	c.(262-264)cCt>cTt
T	c.52C>T	c.(52-54)Cat>Tat
T	c.693G>A	c.(691-693)caG>caA
T	c.668G>A	c.(667-669)gGa>gAa
T	c.1306C>T	c.(1306-1308)Cac>Tac
A	c.805C>T	c.(805-807)Cgt>Tgt
T		
A		
A	c.181C>T	c.(181-183)Cga>Tga
A	c.1798C>T	c.(1798-1800)Cgc>Tgc
A	c.245C>T	c.(244-246)tCt>tTt
A	c.1722G>A	c.(1720-1722)gaG>gaA
A	c.2511G>A	c.(2509-2511)acG>acA
A	c.417G>A	
T		
G	c.1569T>G	c.(1567-1569)tgT>tgG
T	c.333G>A	c.(331-333)gaG>gaA
C	c.585T>G	c.(583-585)atT>atG
A	c.1869C>T	c.(1867-1869)atC>atT
T		
T	c.2938C>T	c.(2938-2940)Ccc>Tcc
T	c.8840C>T	c.(8839-8841)cCc>cTc
T	c.4854G>A	c.(4852-4854)agG>agA
A	c.961C>T	c.(961-963)Cca>Tca
T	c.338C>T	c.(337-339)tCt>tTt
A	c.367C>T	c.(367-369)Cac>Tac
A	c.765C>T	c.(763-765)ttC>ttT
T	c.1714C>T	c.(1714-1716)Cct>Tct
A		

T	c.877C>T	c.(877-879)Cgt>Tgt
A	c.6351C>A	c.(6349-6351)gcC>gcA
A	c.2015G>A	c.(2014-2016)gGt>gAt
T	c.360C>T	c.(358-360)tcC>tcT
A	c.728G>A	c.(727-729)cGa>cAa
A	c.919C>T	c.(919-921)Ctc>Ttc
T		
A	c.1361C>T	c.(1360-1362)gCc>gTc
T	c.5220C>T	c.(5218-5220)ccC>ccT
C	c.423T>G	c.(421-423)ccT>ccG
T		
T	c.257G>A	c.(256-258)gGa>gAa
A	c.662G>A	c.(661-663)aGa>aAa
A	c.244G>A	c.(244-246)Gag>Aag
A	c.780C>T	c.(778-780)ttC>ttT
T	c.579C>T	c.(577-579)atC>atT
T	c.627C>T	c.(625-627)ttC>ttT
T		
C	c.799G>C	c.(799-801)Gga>Cga
A	c.1373G>A	c.(1372-1374)gGa>gAa
T	c.127G>A	c.(127-129)Gcc>Acc
A	c.17153C>T	
C		
A	c.169_splice	c.e5-1
T	c.148G>A	c.(148-150)Gaa>Aaa
A	c.1709C>T	c.(1708-1710)cCc>cTc
T	c.709T>A	
A		
A		
C	c.482A>G	c.(481-483)gAg>gGg
A	c.886_splice	c.e7-1
A		
T	c.2545C>T	c.(2545-2547)Ctg>Ttg
T	c.426G>A	c.(424-426)atG>atA
G	c.1954T>C	c.(1954-1956)Tac>Cac
A	c.714C>T	c.(712-714)ctC>ctT
T	c.1266C>T	c.(1264-1266)tcC>tcT
T	c.240G>A	c.(238-240)atG>atA
A	c.500C>T	c.(499-501)tCa>tTa
A	c.1068G>A	c.(1066-1068)cgG>cgA
T	c.2984G>A	c.(2983-2985)aGa>aAa
A	c.1680C>T	c.(1678-1680)ctC>ctT
A		

G		
T		
A	c.124C>T	c.(124-126)Ctg>Ttg
A		
A	c.201G>A	c.(199-201)atG>atA
A		
A	c.15758C>T	c.(15757-15759)tCt>tTt
A	c.373C>T	c.(373-375)Cgc>Tgc
A		
T		
A		
T		
T	c.742C>T	c.(742-744)Ctc>Ttc
T	c.7528T>A	c.(7528-7530)Tta>Ata
T	c.13275G>A	c.(13273-13275)acG>acA
T	c.2667G>A	c.(2665-2667)acG>acA
A	c.552G>A	c.(550-552)tgG>tgA
T		
T		
T	c.3148T>A	c.(3148-3150)Tat>Aat
T	c.1243G>A	c.(1243-1245)Gac>Aac
T		
T	c.2605C>T	c.(2605-2607)Cat>Tat
T		
A		
T	c.1564G>A	c.(1564-1566)Gaa>Aaa
A		
T	c.501G>A	c.(499-501)gtG>gtA
T	c.853C>T	c.(853-855)Cag>Tag
A	c.79G>A	c.(79-81)Gaa>Aaa
T	c.3031G>A	c.(3031-3033)Gaa>Aaa
A	c.865C>T	c.(865-867)Cgt>Tgt
T	c.561C>T	c.(559-561)ttC>ttT
T		
A	c.1147G>A	c.(1147-1149)Gag>Aag
G	c.1739T>C	c.(1738-1740)aTg>aCg
A		
A	c.2400G>A	c.(2398-2400)gcG>gcA
T	c.1500C>T	c.(1498-1500)tcC>tcT
T	c.280G>A	c.(280-282)Gaa>Aaa
A	c.4811_splice	c.e12+1
T	c.1898C>T	c.(1897-1899)aCc>aTc

A	c.1124G>A	c.(1123-1125)cGg>cAg
A		
A		
A	c.125C>T	c.(124-126)tCc>tTc
T	c.1853C>T	c.(1852-1854)tCa>tTa
A	c.1352C>T	c.(1351-1353)cCg>cTg
A	c.451G>A	c.(451-453)Gag>Aag
A	c.1855C>T	c.(1855-1857)Cca>Tca
C	c.1059A>C	c.(1057-1059)gcA>gcC
T	c.2137G>A	c.(2137-2139)Gaa>Aaa
A	c.368C>T	c.(367-369)cCt>cTt
T	c.1062G>A	c.(1060-1062)gaG>gaA
T	c.127C>T	c.(127-129)Ccg>Tcg
A	c.928G>A	c.(928-930)Gag>Aag
G	c.5062T>C	c.(5062-5064)Ttc>Ctc
A	c.1973T>A	c.(1972-1974)tTt>tAt
T	c.2996C>T	c.(2995-2997)tCg>tTg
A	c.3523C>T	
T		
A	c.1471C>A	c.(1471-1473)Cga>Aga
T		
A	c.805C>T	c.(805-807)Ccc>Tcc
A	c.5006C>T	c.(5005-5007)gCc>gTc
T		
T	c.877G>A	c.(877-879)Gat>Aat
A	c.867C>T	c.(865-867)tcC>tcT
T	c.3882C>T	c.(3880-3882)ttC>ttT
A	c.605C>T	c.(604-606)tCc>tTc
T	c.3186C>T	c.(3184-3186)aaC>aaT
A	c.994G>A	c.(994-996)Gaa>Aaa
A	c.2121G>T	c.(2119-2121)cgG>cgT
T		
C	c.5333C>G	c.(5332-5334)tCt>tGt
A		
T	c.969G>T	c.(967-969)gtG>gtT
A		
T	c.250C>T	c.(250-252)Ccc>Tcc
A	c.5577C>T	c.(5575-5577)tcC>tcT
A	c.3041G>A	c.(3040-3042)gGa>gAa
T	c.1619G>A	c.(1618-1620)gGa>gAa
T	c.138G>A	c.(136-138)gaG>gaA
T		
A	c.3493G>A	c.(3493-3495)Gga>Aga

A	c.394G>A	c.(394-396)Gat>Aat
T	c.397G>A	c.(397-399)Gag>Aag
A		
A	c.738G>A	c.(736-738)aaG>aaA
A	c.1713C>T	c.(1711-1713)atC>atT
T	c.1152C>T	c.(1150-1152)atC>atT
A	c.2094G>T	c.(2092-2094)aaG>aaT
A	c.2253G>A	c.(2251-2253)aaG>aaA
G	c.804C>G	c.(802-804)ctC>ctG
A	c.404C>T	c.(403-405)cCc>cTc
T	c.982C>T	c.(982-984)Ctc>Ttc
C	c.295T>C	c.(295-297)Tat>Cat
A	c.1066G>A	c.(1066-1068)Gtg>Atg
G		
A	c.182G>A	c.(181-183)cGa>cAa
A	c.506G>A	c.(505-507)cGg>cAg
T	c.1396G>A	c.(1396-1398)Gga>Aga
A	c.57C>T	c.(55-57)atC>atT
A	c.620G>A	c.(619-621)gGa>gAa
T	c.187G>A	c.(187-189)Gtt>Att
A	c.711C>T	c.(709-711)ttC>ttT
A	c.473C>T	c.(472-474)gCc>gTc
A	c.1147G>A	c.(1147-1149)Gag>Aag
A	c.3406G>A	c.(3406-3408)Gaa>Aaa
C	c.4998T>C	c.(4996-4998)ctT>ctC
A	c.1184A>T	c.(1183-1185)aAt>aTt
A		
T	c.287C>T	c.(286-288)cCg>cTg
A		
C	c.356A>C	c.(355-357)aAg>aCg
A	c.545C>A	c.(544-546)tCt>tAt
A	c.57G>A	c.(55-57)caG>caA
A	c.966C>T	c.(964-966)tcC>tcT
G	c.1431G>C	c.(1429-1431)gaG>gaC
T	c.1910G>A	c.(1909-1911)gGg>gAg
T	c.739G>A	c.(739-741)Gaa>Aaa
A	c.605G>A	c.(604-606)aGg>aAg
T	c.170G>A	c.(169-171)cGa>cAa
A	c.2840G>A	c.(2839-2841)gGa>gAa
T	c.2686G>A	c.(2686-2688)Gat>Aat
A	c.288C>T	c.(286-288)ccC>ccT
T	c.279C>T	c.(277-279)acC>acT
A	c.438G>A	c.(436-438)agG>agA

A	c.639G>A	c.(637-639)gtG>gtA
T	c.762T>A	c.(760-762)gtT>gtA
T		
A	c.255C>T	c.(253-255)tcC>tcT
A	c.2650G>A	c.(2650-2652)Gaa>Aaa
A	c.1516G>A	c.(1516-1518)Gat>Aat
A	c.2423C>A	c.(2422-2424)tCg>tAg
T	c.1192G>A	c.(1192-1194)Gaa>Aaa
A	c.555_splice	c.e6-1
A	c.130C>T	c.(130-132)Cgc>Tgc
A	c.378C>T	c.(376-378)ttC>ttT
A	c.4945C>T	c.(4945-4947)Cat>Tat
T	c.621C>T	c.(619-621)gcC>gcT
T	c.1489C>A	
T	c.1231C>T	c.(1231-1233)Cat>Tat
A	c.698G>A	c.(697-699)aGc>aAc
T		
G		
A	c.288C>T	c.(286-288)tcC>tcT
A	c.2129C>T	c.(2128-2130)cCc>cTc
T	c.19G>A	c.(19-21)Ggc>Agc
G	c.1466T>C	c.(1465-1467)cTt>cCt
T	c.1291G>A	c.(1291-1293)Gac>Aac
A	c.1660C>T	c.(1660-1662)Ctg>Ttg
A	c.3797G>A	c.(3796-3798)gGa>gAa
A	c.4178G>A	c.(4177-4179)cGa>cAa
A	c.3705G>A	c.(3703-3705)atG>atA
T	c.2452C>T	c.(2452-2454)Ccc>Tcc
T	c.1103C>T	c.(1102-1104)tCc>tTc
T	c.-2609_splice	c.e1-1
T	c.1712C>T	c.(1711-1713)tCc>tTc
T	c.2083G>A	c.(2083-2085)Gag>Aag
A	c.120G>A	c.(118-120)caG>caA
A	c.701C>T	c.(700-702)tCt>tTt
A	c.62C>T	c.(61-63)tCg>tTg
T	c.45C>T	c.(43-45)gcC>gcT
T	c.226C>T	c.(226-228)Ctg>Ttg
A	c.5175C>T	c.(5173-5175)gtC>gtT
A	c.3474C>T	c.(3472-3474)tcC>tcT
A		
A	c.1273G>A	c.(1273-1275)Gat>Aat
A	c.3607C>T	c.(3607-3609)Cct>Tct
A	c.164G>A	c.(163-165)gGg>gAg

T	c.589C>T	c.(589-591)Cac>Tac
C		
T	c.172C>T	c.(172-174)Ctg>Ttg
T	c.548C>T	c.(547-549)cCa>cTa
T	c.3046G>A	c.(3046-3048)Gaa>Aaa
C	c.212T>C	c.(211-213)gTg>gCg
A	c.18099C>T	c.(18097-18099)tcC>tcT
T		
T	c.1312G>A	c.(1312-1314)Gaa>Aaa
T	c.1375G>A	c.(1375-1377)Gac>Aac
T		
T	c.1131C>T	c.(1129-1131)gcC>gcT
T	c.588G>A	c.(586-588)ctG>ctA
A	c.625C>A	c.(625-627)Caa>Aaa
T	c.229G>A	c.(229-231)Ggg>Agg
T	c.2074C>T	c.(2074-2076)Cct>Tct
A	c.795G>A	c.(793-795)tgG>tgA
A		
T	c.1928G>A	c.(1927-1929)cGa>cAa
A	c.935G>A	c.(934-936)gGa>gAa
T		
G	c.139A>G	c.(139-141)Agg>Ggg
T	c.1634G>T	c.(1633-1635)aGc>aTc
A	c.454G>A	c.(454-456)Gag>Aag
A	c.133G>A	c.(133-135)Gag>Aag
T		
A		
T	c.17363G>A	c.(17362-17364)aGg>aAg
T	c.487C>T	c.(487-489)Ccc>Tcc
T	c.600C>T	c.(598-600)tcC>tcT
A	c.3584C>T	c.(3583-3585)tCc>tTc
A	c.3520_splice	c.e24-1
T		
T	c.202C>T	c.(202-204)Cca>Tca
A	c.2550G>A	c.(2548-2550)aaG>aaA
C	c.610G>C	c.(610-612)Gga>Cga
A		
T	c.537G>A	c.(535-537)tcG>tcA
A	c.3220C>T	c.(3220-3222)Cag>Tag
A	c.3208G>A	c.(3208-3210)Gaa>Aaa
A	c.5948C>T	c.(5947-5949)tCc>tTc
A		
T	c.194C>T	c.(193-195)tCc>tTc

T	c.1348C>T	c.(1348-1350)Ctc>Ttc
A	c.4130C>T	c.(4129-4131)cCt>cTt
T	c.841C>T	c.(841-843)Ctt>Ttt
A	c.1523G>A	c.(1522-1524)gGc>gAc
T	c.590C>T	c.(589-591)tCc>tTc
T		
A	c.1121C>T	c.(1120-1122)tCt>tTt
A	c.618C>T	c.(616-618)ttC>ttT
A	c.3189C>T	c.(3187-3189)ttC>ttT
A	c.2998G>A	c.(2998-3000)Gaa>Aaa
T		
T	c.1357C>A	c.(1357-1359)Cag>Aag
T	c.1185C>T	c.(1183-1185)caC>caT
A	c.754G>A	c.(754-756)Gac>Aac
A	c.122G>A	c.(121-123)gGa>gAa
T	c.34G>A	c.(34-36)Gga>Aga
T	c.432G>A	c.(430-432)atG>atA
C	c.290T>G	c.(289-291)aTg>aGg
A	c.1868C>T	c.(1867-1869)tCc>tTc
A	c.1847G>A	c.(1846-1848)gGa>gAa
T		
A	c.6376G>A	c.(6376-6378)Gac>Aac
T	c.391G>A	c.(391-393)Gat>Aat
A	c.582G>A	c.(580-582)gaG>gaA
T	c.1116G>A	
A	c.15571C>T	c.(15571-15573)Ctg>Ttg
A	c.164C>T	c.(163-165)cCt>cTt
T	c.252G>T	c.(250-252)gaG>gaT
T	c.1221G>A	c.(1219-1221)tgG>tgA
T	c.964C>T	c.(964-966)Cct>Tct
T	c.1606C>T	c.(1606-1608)Cct>Tct
T	c.864C>T	c.(862-864)ccC>ccT
A	c.672C>T	c.(670-672)tcC>tcT
T		
T	c.2386G>A	c.(2386-2388)Gat>Aat
A	c.1210C>T	c.(1210-1212)Cca>Tca
A	c.655C>T	c.(655-657)Ccc>Tcc
T	c.699C>T	c.(697-699)gtC>gtT
A	c.1204G>A	c.(1204-1206)Gag>Aag
A	c.1788C>T	c.(1786-1788)agC>agT
T	c.1490G>A	c.(1489-1491)tGg>tAg
T	c.162C>T	c.(160-162)ttC>ttT
C	c.4123C>G	c.(4123-4125)Ccc>Gcc



A	c.300C>T	c.(298-300)ttC>ttT
T		
T		
A	c.2394A>T	c.(2392-2394)ttA>ttT
A		
A	c.635C>T	c.(634-636)cCa>cTa
G	c.1496A>C	c.(1495-1497)aAa>aCa
A	c.986_splice	c.e9-1
A	c.1010_splice	c.e3-1
A		
T	c.1701G>A	c.(1699-1701)gaG>gaA
A		
A	c.1639G>A	
T	c.275T>A	c.(274-276)tTt>tAt
A	c.7833C>T	c.(7831-7833)ttC>ttT
A	c.1268_splice	c.e7+1
A	c.1924G>A	c.(1924-1926)Gga>Aga
A	c.2446C>T	c.(2446-2448)Cct>Tct
A	c.3354C>T	c.(3352-3354)tcC>tcT
T		
A		
A	c.1683C>T	c.(1681-1683)tcC>tcT
A	c.312G>A	c.(310-312)agG>agA
G	c.1636A>G	c.(1636-1638)Act>Gct
A		
T	c.955G>A	c.(955-957)Gaa>Aaa
G		
T		
A	c.380C>T	c.(379-381)gCt>gTt
T		
T		
T	c.875C>T	c.(874-876)tCc>tTc
T	c.2969C>T	c.(2968-2970)tCc>tTc
T	c.984C>T	c.(982-984)atC>atT
G	c.1438G>C	c.(1438-1440)Gtc>Ctc
T	c.6783C>T	c.(6781-6783)ttC>ttT
A	c.1685G>A	c.(1684-1686)gGa>gAa
T		
G	c.736C>G	c.(736-738)Ctt>Gtt
A	c.3790T>A	c.(3790-3792)Ttt>Att
A	c.1490C>T	
A	c.1888C>T	c.(1888-1890)Cgg>Tgg
T	c.1387C>T	c.(1387-1389)Ccc>Tcc

T		
T		
T	c.745C>T	c.(745-747)Cgg>Tgg
A	c.2603C>T	c.(2602-2604)tCc>tTc
A	c.2621G>T	c.(2620-2622)tGg>tTg
T	c.148G>A	c.(148-150)Gac>Aac
G	c.8401A>C	c.(8401-8403)Aac>Cac
A	c.601G>A	c.(601-603)Gaa>Aaa
T		
T	c.1957C>T	c.(1957-1959)Ctg>Ttg
A		
A	c.1358C>T	c.(1357-1359)tCc>tTc
T	c.847G>A	c.(847-849)Ggc>Agc
A	c.959C>T	c.(958-960)cCc>cTc
A	c.1938G>A	
T	c.5267C>T	c.(5266-5268)cCc>cTc
A	c.382G>A	c.(382-384)Gat>Aat
A		
C		
T		
A		
A	c.4251C>T	c.(4249-4251)ctC>ctT
T	c.1647G>A	c.(1645-1647)atG>atA
A		
T		
T	c.335G>A	c.(334-336)aGa>aAa
T		
A	c.47C>T	c.(46-48)tCc>tTc
A	c.268C>T	
C	c.219G>C	c.(217-219)agG>agC
A	c.1105G>A	c.(1105-1107)Gga>Aga
T	c.576C>A	c.(574-576)agC>agA
T	c.1349C>T	c.(1348-1350)cCc>cTc
T		
T	c.1879G>A	c.(1879-1881)Ggg>Agg
A	c.897C>T	c.(895-897)ttC>ttT
A	c.4171C>T	c.(4171-4173)Ccc>Tcc
A	c.1840G>A	c.(1840-1842)Gac>Aac
A	c.940C>T	c.(940-942)Cac>Tac
A	c.139C>T	c.(139-141)Cgt>Tgt
A	c.2470G>A	c.(2470-2472)Gaa>Aaa
T	c.614C>T	c.(613-615)tCc>tTc
T	c.-112_splice	c.e1-1

A	c.1442G>A	c.(1441-1443)cGa>cAa
T	c.6609G>A	c.(6607-6609)ctG>ctA
T	c.1222C>T	c.(1222-1224)Cct>Tct
T	c.2283C>T	c.(2281-2283)ccC>ccT
A	c.57T>A	c.(55-57)ttT>ttA
T	c.371G>A	c.(370-372)gGg>gAg
T	c.680G>A	c.(679-681)gGg>gAg
A	c.941C>T	c.(940-942)cCt>cTt
T		
T	c.839C>T	c.(838-840)tCc>tTc
A	c.2031T>A	c.(2029-2031)ttT>ttA
T		
A		
T	c.1537G>A	c.(1537-1539)Gag>Aag
T	c.216G>A	c.(214-216)atG>atA
G	c.2319T>C	c.(2317-2319)ctT>ctC
A	c.672G>A	c.(670-672)gaG>gaA
A	c.1460G>A	c.(1459-1461)gGa>gAa
A	c.1060G>A	c.(1060-1062)Gaa>Aaa
T	c.2446A>T	c.(2446-2448)Act>Tct
T	c.3014T>A	c.(3013-3015)cTt>cAt
A	c.930C>T	c.(928-930)ggC>ggT
A	c.1157C>T	c.(1156-1158)tCc>tTc
A	c.981_splice	c.e11-1
A	c.538G>A	c.(538-540)Gaa>Aaa
T	c.337G>A	c.(337-339)Gat>Aat
A	c.1329G>A	c.(1327-1329)caG>caA
T	c.3225C>A	c.(3223-3225)caC>caA
T		
A	c.33G>A	c.(31-33)gaG>gaA
A		
A	c.1454G>A	c.(1453-1455)gGg>gAg
A	c.540C>T	c.(538-540)ccC>ccT
A	c.38G>A	c.(37-39)gGg>gAg
T	c.761C>T	c.(760-762)tCc>tTc
C	c.345A>G	c.(343-345)gtA>gtG
T	c.1050C>T	c.(1048-1050)tcC>tcT
T	c.1998C>T	c.(1996-1998)ccC>ccT
T	c.2665C>T	c.(2665-2667)Ccc>Tcc
T	c.1265C>T	c.(1264-1266)tCc>tTc
T	c.852G>T	c.(850-852)agG>agT
A	c.4077C>T	c.(4075-4077)atC>atT
T	c.573C>T	c.(571-573)ttC>ttT

T	c.60951G>A	c.(60949-60951)tcG>tcA
G	c.1420A>G	c.(1420-1422)Act>Gct
A	c.118C>T	c.(118-120)Cac>Tac
G	c.1315T>C	c.(1315-1317)Ttt>Ctt
T	c.782G>A	c.(781-783)gGa>gAa
A	c.549G>A	c.(547-549)tgG>tgA
A		
T	c.307C>T	c.(307-309)Cac>Tac
T	c.789C>T	c.(787-789)atC>atT
A	c.5110G>A	c.(5110-5112)Gag>Aag
A	c.1053C>T	c.(1051-1053)ttC>ttT
T	c.1187A>T	c.(1186-1188)aAc>aTc
T	c.2553C>T	c.(2551-2553)gcC>gcT
G	c.1940A>G	c.(1939-1941)gAt>gGt
T	c.1756C>T	c.(1756-1758)Ctt>Ttt
T	c.1846G>A	c.(1846-1848)Ggc>Agc
T	c.396G>A	c.(394-396)gaG>gaA
A	c.962C>T	c.(961-963)aCc>aTc
A	c.960C>T	c.(958-960)gtC>gtT
T	c.2559G>A	c.(2557-2559)ggG>ggA
C	c.734C>G	c.(733-735)aCc>aGc
A		
A	c.372C>T	c.(370-372)tcC>tcT
A		
T	c.213A>T	
T	c.1247C>T	c.(1246-1248)aCc>aTc
A	c.787C>A	c.(787-789)Cgg>Agg
T		
T	c.795C>T	c.(793-795)atC>atT
G	c.2452A>C	c.(2452-2454)Aga>Cga
A	c.3100G>A	c.(3100-3102)Ggc>Agc
T	c.1389C>T	c.(1387-1389)ttC>ttT
A		
A	c.882C>T	
A	c.1957G>A	c.(1957-1959)Gag>Aag
A	c.94G>A	c.(94-96)Gcc>Acc
A		
A		
T	c.1576G>A	c.(1576-1578)Gaa>Aaa
C	c.5794C>G	c.(5794-5796)Cag>Gag
A	c.1646_splice	c.e18-1
T	c.2154C>T	c.(2152-2154)ttC>ttT
A	c.1154C>T	c.(1153-1155)cCa>cTa

G		
A	c.3099G>A	c.(3097-3099)acG>acA
A	c.272G>A	c.(271-273)cGa>cAa
T		
A	c.917C>T	c.(916-918)tCt>tTt
T	c.442C>T	c.(442-444)Ccg>Tcg
A	c.4G>A	c.(4-6)Gag>Aag
T	c.2094C>T	c.(2092-2094)ttC>ttT
A	c.124G>A	c.(124-126)Gaa>Aaa
T	c.310G>A	c.(310-312)Gag>Aag
A	c.1564G>A	c.(1564-1566)Gac>Aac
T	c.1583G>A	c.(1582-1584)gGg>gAg
T	c.1654G>A	c.(1654-1656)Gaa>Aaa
A	c.447C>T	c.(445-447)tcC>tcT
T	c.665C>T	c.(664-666)cCt>cTt
T		
A	c.428G>A	c.(427-429)gGa>gAa
A		
A	c.162G>A	c.(160-162)aaG>aaA
G	c.875A>G	c.(874-876)cAa>cGa
T	c.1218C>T	c.(1216-1218)tcC>tcT
A	c.1001G>A	c.(1000-1002)aGa>aAa
T	c.724G>A	c.(724-726)Gaa>Aaa
A	c.1315C>T	c.(1315-1317)Ccc>Tcc
A		
T		
A	c.3057C>T	c.(3055-3057)ccC>ccT
T	c.1239C>T	c.(1237-1239)gcC>gcT
A	c.599C>T	
T	c.672G>A	c.(670-672)gaG>gaA
T	c.94G>A	c.(94-96)Gaa>Aaa
T	c.2537C>T	c.(2536-2538)gCt>gTt
T	c.388G>A	c.(388-390)Gag>Aag
A	c.23148C>T	c.(23146-23148)ttC>ttT
A	c.1045G>A	c.(1045-1047)Gac>Aac
A	c.326G>A	c.(325-327)gGa>gAa
T	c.578G>A	c.(577-579)gGa>gAa
A	c.3082G>A	c.(3082-3084)Gag>Aag
A	c.2346G>A	c.(2344-2346)ggG>ggA
A		
T	c.2048G>A	c.(2047-2049)aGg>aAg
T	c.35C>T	c.(34-36)tCg>tTg

A	c.2351G>A	c.(2350-2352)gGa>gAa
A	c.1721G>A	c.(1720-1722)cGa>cAa
C		
A	c.1722G>A	c.(1720-1722)aaG>aaA
T	c.31005G>A	c.(31003-31005)aaG>aaA
A		
T		
T	c.3820C>T	c.(3820-3822)Cag>Tag
T	c.2245G>A	
G	c.441T>G	c.(439-441)taT>taG
T		
G	c.3512A>C	c.(3511-3513)gAg>gCg
A	c.366C>T	c.(364-366)ctC>ctT
T	c.1144G>A	c.(1144-1146)Gga>Aga
T	c.1595G>A	c.(1594-1596)gGa>gAa
A	c.1666T>A	c.(1666-1668)Ttc>Atc
T		
A	c.194G>A	c.(193-195)gGc>gAc
T	c.1585C>T	c.(1585-1587)Caa>Taa
T	c.99G>T	c.(97-99)ctG>ctT
A	c.265C>T	c.(265-267)Ccc>Tcc
A	c.1012C>T	c.(1012-1014)Cta>Tta
A	c.366C>T	c.(364-366)tcC>tcT
A	c.1645G>A	c.(1645-1647)Gaa>Aaa
A	c.11672C>T	c.(11671-11673)tCt>tTt
T	c.34C>T	c.(34-36)Cct>Tct
T	c.150C>T	c.(148-150)gaC>gaT
A	c.1131C>T	c.(1129-1131)ttC>ttT
A	c.381G>A	c.(379-381)ttG>ttA
A	c.3814G>A	c.(3814-3816)Gaa>Aaa
A	c.1545G>A	c.(1543-1545)ctG>ctA
G	c.1439A>C	c.(1438-1440)gAa>gCa
A	c.369C>T	c.(367-369)atC>atT
T		
T	c.183C>T	c.(181-183)ttC>ttT
A	c.254C>T	c.(253-255)tCc>tTc
T	c.736G>A	c.(736-738)Gag>Aag
T	c.834G>A	c.(832-834)gtG>gtA
A	c.1885G>A	c.(1885-1887)Gag>Aag
A		
A	c.2479_splice	c.e21-1
T	c.1576C>A	c.(1576-1578)Caa>Aaa

T		
T	c.2120G>A	c.(2119-2121)aGg>aAg
T	c.715G>A	c.(715-717)Gga>Aga
T	c.591C>T	c.(589-591)tcC>tcT
T	c.2214C>T	c.(2212-2214)ttC>ttT
G	c.387G>C	c.(385-387)cgG>cgC
A	c.335G>A	c.(334-336)gGa>gAa
G	c.2212A>C	c.(2212-2214)Aac>Cac
T		
A	c.526G>A	c.(526-528)Gaa>Aaa
A	c.679C>T	c.(679-681)Cac>Tac
A	c.1018G>A	c.(1018-1020)Gct>Act
T	c.1503C>T	c.(1501-1503)acC>acT
C	c.1292T>G	c.(1291-1293)tTt>tGt
T		
A	c.654C>T	c.(652-654)atC>atT
T		
A	c.604G>A	c.(604-606)Gaa>Aaa
T		
A	c.7664G>A	c.(7663-7665)gGa>gAa
G	c.64655T>C	c.(64654-64656)cTt>cCt
A	c.3472C>T	c.(3472-3474)Cga>Tga
A	c.1026C>T	c.(1024-1026)ccC>ccT
T	c.346G>A	c.(346-348)Gaa>Aaa
T	c.450C>T	c.(448-450)ccC>ccT
T	c.1371C>T	c.(1369-1371)atC>atT
T		
T	c.511C>T	c.(511-513)Ccc>Tcc
T	c.472C>T	c.(472-474)Cgt>Tgt
T	c.882C>T	c.(880-882)gaC>gaT
A	c.2944G>A	c.(2944-2946)Gaa>Aaa
A	c.2398C>T	c.(2398-2400)Cca>Tca
T	c.1505G>A	c.(1504-1506)gGa>gAa
C	c.187C>G	c.(187-189)Cta>Gta
T	c.1429G>A	c.(1429-1431)Gga>Aga
T	c.227C>T	c.(226-228)tCg>tTg
A		
T	c.214G>A	c.(214-216)Gaa>Aaa
G	c.643T>C	c.(643-645)Tcc>Ccc
G	c.2447T>C	c.(2446-2448)cTt>cCt
T	c.79G>A	c.(79-81)Gac>Aac
T	c.728G>A	c.(727-729)aGg>aAg
T	c.1577G>A	c.(1576-1578)gGa>gAa

A	c.420G>A	c.(418-420)ccG>ccA
A	c.228C>T	c.(226-228)atC>atT
A	c.1603G>A	c.(1603-1605)Gac>Aac
T		
C	c.3027C>G	c.(3025-3027)ccC>ccG
T	c.308G>A	c.(307-309)gGc>gAc
T	c.2832G>A	c.(2830-2832)ggG>ggA
T	c.671G>A	c.(670-672)tGg>tAg
T		
T	c.509G>A	c.(508-510)cGa>cAa
A	c.1912C>T	c.(1912-1914)Cca>Tca
T	c.48G>A	c.(46-48)gcG>gcA
A	c.81C>T	c.(79-81)gcC>gcT
T	c.851T>A	c.(850-852)cTt>cAt
T		
T	c.815C>T	c.(814-816)tCc>tTc
T	c.168G>A	c.(166-168)ggG>ggA
A	c.1043C>T	c.(1042-1044)tCc>tTc
T	c.3319G>A	c.(3319-3321)Gac>Aac
T	c.1896_splice	c.e15+1
T	c.142C>T	c.(142-144)Cta>Tta
T	c.939G>A	c.(937-939)gcG>gcA
T	c.937G>A	c.(937-939)Gtg>Atg
A	c.518G>A	c.(517-519)gGg>gAg
A	c.229G>A	c.(229-231)Gag>Aag
T		
A	c.1496G>A	c.(1495-1497)aGg>aAg
T	c.2221C>T	c.(2221-2223)Ccg>Tcg
T	c.423G>A	c.(421-423)tcG>tcA
A	c.1627C>T	c.(1627-1629)Cgc>Tgc
A	c.6004G>A	c.(6004-6006)Ggc>Agc
A	c.277C>T	c.(277-279)Ccc>Tcc
A	c.1010G>A	c.(1009-1011)cGg>cAg
T	c.975G>A	c.(973-975)tgG>tgA
A	c.723C>T	c.(721-723)ttC>ttT
G	c.873G>C	c.(871-873)atG>atC
T	c.10513C>T	c.(10513-10515)Ccc>Tcc
T		
A	c.1507C>T	c.(1507-1509)Ctt>Ttt
T	c.303G>A	c.(301-303)gaG>gaA
T	c.368C>T	c.(367-369)gCc>gTc
A	c.829G>A	c.(829-831)Gag>Aag
A	c.738G>A	c.(736-738)agG>agA



T	c.668G>A	c.(667-669)aGa>aAa
T	c.934C>T	c.(934-936)Ctt>Ttt
C	c.417T>C	c.(415-417)ggT>ggC
A	c.464C>T	c.(463-465)tCc>tTc
T	c.727G>A	c.(727-729)Gag>Aag
A	c.1500G>A	c.(1498-1500)cgG>cgA
A	c.1169C>T	c.(1168-1170)cCt>cTt
A	c.1317G>A	c.(1315-1317)ccG>ccA
T	c.111C>T	c.(109-111)tcC>tcT
A	c.645C>T	c.(643-645)gcC>gcT
T	c.412C>T	c.(412-414)Ctg>Ttg
A		
A	c.927G>A	c.(925-927)acG>acA
A	c.171C>T	
A	c.232G>A	c.(232-234)Gag>Aag
T	c.90G>A	c.(88-90)ctG>ctA
A	c.2932C>T	c.(2932-2934)Cga>Tga
A	c.581A>T	c.(580-582)aAc>aTc
A	c.478G>A	c.(478-480)Gta>Ata
G	c.1376T>C	c.(1375-1377)gTt>gCt
A		
T	c.1063G>A	c.(1063-1065)Gac>Aac
A		
A	c.5005C>T	c.(5005-5007)Cgc>Tgc
A	c.38C>T	c.(37-39)tCg>tTg
A	c.345G>A	c.(343-345)caG>caA
A	c.965G>A	c.(964-966)gGg>gAg
A		
T	c.1955G>A	c.(1954-1956)cGa>cAa
C	c.851A>G	c.(850-852)gAt>gGt
A		
T		
C	c.647A>C	c.(646-648)aAg>aCg
A		
A	c.2041G>A	c.(2041-2043)Gaa>Aaa
T	c.117G>A	c.(115-117)atG>atA
T	c.6482C>T	c.(6481-6483)cCc>cTc
T		
A	c.605C>T	c.(604-606)tCc>tTc
T		
C	c.1480_splice	c.e17-1
T	c.1359C>T	c.(1357-1359)atC>atT
T	c.2634C>T	c.(2632-2634)atC>atT

T	c.1183G>A	c.(1183-1185)Gag>Aag
G	c.1005T>G	
A	c.233C>T	c.(232-234)tCc>tTc
T	c.395C>T	c.(394-396)cCc>cTc
T	c.1293G>A	c.(1291-1293)caG>caA
T	c.363C>T	c.(361-363)tcC>tcT
C	c.1741A>G	c.(1741-1743)Aaa>Gaa
T	c.90C>T	c.(88-90)ctC>ctT
T	c.1280C>T	c.(1279-1281)tCg>tTg
T	c.1999C>T	c.(1999-2001)Cgg>Tgg
A		
A	c.1840C>T	c.(1840-1842)Caa>Taa
A	c.440C>T	c.(439-441)cCt>cTt
T	c.736C>T	c.(736-738)Ctc>Ttc
A	c.1106G>A	c.(1105-1107)gGa>gAa
T	c.303_splice	c.e2+1
A	c.5750C>T	c.(5749-5751)cCt>cTt
A	c.908C>T	c.(907-909)cCg>cTg
A	c.22C>T	c.(22-24)Cga>Tga
T	c.3281G>A	c.(3280-3282)cGa>cAa
A	c.1606G>A	c.(1606-1608)Gaa>Aaa
A	c.681G>A	c.(679-681)gtG>gtA
T	c.538G>A	c.(538-540)Gga>Aga
T	c.2018C>T	c.(2017-2019)cCt>cTt
A	c.870G>A	c.(868-870)agG>agA
T	c.3447G>A	c.(3445-3447)aaG>aaA
T	c.872T>A	c.(871-873)aTg>aAg
C		
T	c.1001G>A	c.(1000-1002)cGg>cAg
A	c.315C>T	c.(313-315)tcC>tcT
T	c.534C>T	c.(532-534)ttC>ttT
T	c.220G>A	c.(220-222)Gag>Aag
T	c.3094G>A	c.(3094-3096)Gaa>Aaa
T	c.2008G>A	c.(2008-2010)Gat>Aat
T	c.-62_splice	c.e1-1
A	c.1014C>T	c.(1012-1014)ctC>ctT
T	c.1038G>A	c.(1036-1038)gtG>gtA
T	c.2110G>T	c.(2110-2112)Ggc>Tgc
T	c.931C>T	c.(931-933)Cag>Tag
T	c.594C>T	c.(592-594)atC>atT
A	c.322G>A	c.(322-324)Gat>Aat
A	c.1176G>A	c.(1174-1176)ggG>ggA
G	c.3292A>G	c.(3292-3294)Aaa>Gaa

T	c.127G>A	c.(127-129)Gac>Aac
G	c.315T>C	c.(313-315)ctT>ctC
T	c.1037G>A	c.(1036-1038)gGc>gAc
T		
T	c.2869G>A	c.(2869-2871)Gaa>Aaa
T	c.166G>A	c.(166-168)Gaa>Aaa
A	c.609C>T	c.(607-609)tcC>tcT
T	c.1151C>T	c.(1150-1152)cCc>cTc
T	c.1150C>T	c.(1150-1152)Ccc>Tcc
C	c.199T>G	c.(199-201)Tcc>Gcc
A	c.21228C>T	c.(21226-21228)tcC>tcT
A		
C	c.711A>G	c.(709-711)ccA>ccG
G	c.1402G>C	c.(1402-1404)Gac>Cac
G	c.1092C>G	c.(1090-1092)taC>taG
A	c.76C>T	c.(76-78)Ctg>Ttg
A	c.453G>T	c.(451-453)agG>agT
C	c.704A>C	c.(703-705)cAc>cCc
A	c.23149C>T	c.(23149-23151)Cat>Tat
A	c.1452G>A	c.(1450-1452)agG>agA
A	c.1321C>A	c.(1321-1323)Cct>Act
T	c.163C>T	c.(163-165)Ccg>Tcg
T	c.326C>T	c.(325-327)cCg>cTg
A	c.14024G>A	c.(14023-14025)gGa>gAa
A	c.204C>T	c.(202-204)atC>atT
T	c.1577C>T	c.(1576-1578)gCc>gTc
A		
T		
T	c.22093G>A	
T	c.764G>A	c.(763-765)cGg>cAg
T	c.927G>A	c.(925-927)aaG>aaA
A	c.2197C>T	c.(2197-2199)Cta>Tta
A	c.2010C>T	c.(2008-2010)tcC>tcT
T	c.844G>A	c.(844-846)Gat>Aat
T	c.3939C>T	c.(3937-3939)tcC>tcT
A	c.1231C>T	c.(1231-1233)Ctt>Ttt
A		
T	c.482C>T	c.(481-483)cCt>cTt
A	c.894G>A	c.(892-894)ctG>ctA
A	c.882C>T	c.(880-882)tcC>tcT
A	c.2540G>A	c.(2539-2541)gGa>gAa
C	c.152T>C	c.(151-153)tTa>tCa

C	c.763C>G	c.(763-765)Cca>Gca
T	c.433C>T	c.(433-435)Cct>Tct
T	c.225C>T	c.(223-225)ccC>ccT
T	c.22C>T	c.(22-24)Cag>Tag
A	c.343G>A	c.(343-345)Gtg>Atg
T	c.20C>T	c.(19-21)tCa>tTa
A	c.695G>A	c.(694-696)gGc>gAc
T	c.949C>T	
A	c.787C>T	c.(787-789)Cct>Tct
A	c.1071C>T	c.(1069-1071)tcC>tcT
A		
A		
T	c.410G>A	c.(409-411)gGa>gAa
T	c.1287G>A	c.(1285-1287)aaG>aaA
T	c.72C>T	c.(70-72)ctC>ctT
T	c.158C>T	c.(157-159)cCt>cTt
A	c.2075C>T	c.(2074-2076)gCc>gTc
A	c.1830G>A	c.(1828-1830)gtG>gtA
T	c.2486C>A	c.(2485-2487)tCc>tAc
A	c.1328C>T	c.(1327-1329)tCc>tTc
A	c.3243C>T	c.(3241-3243)gtC>gtT
A	c.146C>T	c.(145-147)tCc>tTc
C	c.747A>G	c.(745-747)caA>caG
T		
A	c.4137G>A	c.(4135-4137)gtG>gtA
A	c.263C>T	c.(262-264)tCa>tTa
A	c.534C>T	c.(532-534)ctC>ctT
T	c.797G>A	c.(796-798)gGa>gAa
A	c.110C>T	c.(109-111)tCg>tTg
A	c.2153C>A	c.(2152-2154)tCc>tAc
A	c.5994G>A	c.(5992-5994)aaG>aaA
A		
A	c.242G>A	c.(241-243)gGt>gAt
A	c.252C>T	c.(250-252)atC>atT
T	c.15759T>A	c.(15757-15759)tcT>tcA
A	c.814G>A	c.(814-816)Gga>Aga
A		
A	c.2272C>T	c.(2272-2274)Cct>Tct
A	c.2170C>T	c.(2170-2172)Ctt>Ttt
T		
A		
A	c.1026G>A	c.(1024-1026)atG>atA
T	c.309C>T	c.(307-309)ttC>ttT

T	c.669C>T	c.(667-669)ttC>ttT
A		
A	c.1553C>T	c.(1552-1554)aCc>aTc
A	c.614G>A	c.(613-615)gGg>gAg
A	c.1022G>A	c.(1021-1023)gGa>gAa
T	c.509C>T	c.(508-510)cCt>cTt
A	c.81G>A	c.(79-81)gtG>gtA
T	c.247G>A	c.(247-249)Gag>Aag
A		
A	c.900G>A	c.(898-900)caG>caA
T		
T	c.163C>T	c.(163-165)Cga>Tga
A	c.1059C>T	c.(1057-1059)tcC>tcT
T	c.576C>T	c.(574-576)acC>acT
A	c.4491G>A	c.(4489-4491)ggG>ggA
T		
A	c.800C>T	c.(799-801)cCt>cTt
T	c.2167C>T	c.(2167-2169)Caa>Taa
T	c.405G>A	c.(403-405)ggG>ggA
T	c.244C>T	c.(244-246)Ctt>Ttt
T	c.1856_splice	c.e20-1
C	c.5817T>G	c.(5815-5817)atT>atG
T	c.1291C>T	c.(1291-1293)Ctt>Ttt
G	c.1065T>C	c.(1063-1065)ttT>ttC
T	c.264G>A	c.(262-264)acG>acA
A	c.948C>T	c.(946-948)ttC>ttT
T		
T	c.846C>A	c.(844-846)ccC>ccA
T	c.280C>T	c.(280-282)Cag>Tag
T	c.353G>A	c.(352-354)gGg>gAg
A	c.538C>T	c.(538-540)Cca>Tca
A	c.574G>A	c.(574-576)Gaa>Aaa
T		
T	c.319C>T	c.(319-321)Ctg>Ttg
A	c.601G>A	c.(601-603)Gaa>Aaa
T	c.613G>A	c.(613-615)Gaa>Aaa
T	c.1230G>A	c.(1228-1230)agG>agA
T	c.396G>A	c.(394-396)agG>agA
C	c.1395T>C	c.(1393-1395)cgT>cgC
A	c.16106G>A	c.(16105-16107)gGa>gAa
A	c.66G>A	c.(64-66)ctG>ctA
T	c.2450G>A	c.(2449-2451)cGa>cAa
A	c.588C>T	c.(586-588)gaC>gaT

T		
T	c.5346G>A	c.(5344-5346)cgG>cgA
A	c.1843C>T	c.(1843-1845)Ctg>Ttg
C	c.1657T>C	c.(1657-1659)Ttg>Ctg
A	c.814G>A	c.(814-816)Gag>Aag
A	c.26C>T	c.(25-27)tCc>tTc
T	c.216C>A	c.(214-216)ctC>ctA
C	c.18351A>C	c.(18349-18351)atA>atC
A	c.395C>T	c.(394-396)cCc>cTc
A	c.16G>A	c.(16-18)Ggg>Agg
A	c.1431C>T	c.(1429-1431)ctC>ctT
T	c.645C>T	c.(643-645)ttC>ttT
T	c.2151G>A	c.(2149-2151)aaG>aaA
A	c.48C>T	c.(46-48)ttC>ttT
C	c.414T>C	c.(412-414)ggT>ggC
A	c.818C>T	c.(817-819)cCt>cTt
A		
T	c.2016C>T	c.(2014-2016)acC>acT
T	c.9963C>T	c.(9961-9963)ttC>ttT
A	c.4564G>A	c.(4564-4566)Gat>Aat
T	c.1179C>T	c.(1177-1179)gcC>gcT
A	c.317C>T	c.(316-318)tCa>tTa
T	c.76C>T	c.(76-78)Cct>Tct
T	c.4212C>T	c.(4210-4212)acC>acT
A	c.43C>T	c.(43-45)Cgg>Tgg
T	c.2947C>T	c.(2947-2949)Ccg>Tcg
A	c.904C>T	c.(904-906)Ccc>Tcc
A	c.175G>A	c.(175-177)Gac>Aac
T		
G	c.100T>C	c.(100-102)Ttg>Ctg
T	c.2294C>T	c.(2293-2295)tCc>tTc
T		
T	c.663C>T	c.(661-663)ctC>ctT
A	c.1972C>T	c.(1972-1974)Cta>Tta
A	c.2101C>T	c.(2101-2103)Cct>Tct
A	c.455C>T	c.(454-456)cCt>cTt
T	c.1019C>T	c.(1018-1020)tCa>tTa
T	c.22405G>A	c.(22405-22407)Gag>Aag
A	c.4873G>A	c.(4873-4875)Gat>Aat
A	c.1612C>T	c.(1612-1614)Cct>Tct
A	c.974G>A	c.(973-975)aGa>aAa
T	c.2764G>A	c.(2764-2766)Gag>Aag
A	c.536C>T	c.(535-537)gCc>gTc

A	c.1399G>A	c.(1399-1401)Gaa>Aaa
T		
A	c.122C>T	c.(121-123)tCc>tTc
T	c.7627C>T	c.(7627-7629)Cga>Tga
A		
T	c.565G>A	c.(565-567)Gaa>Aaa
A		
T	c.747C>T	c.(745-747)aaC>aaT
A	c.1351C>T	c.(1351-1353)Ccg>Tcg
T	c.281C>T	c.(280-282)tCc>tTc
C	c.1636A>G	c.(1636-1638)Aaa>Gaa
T	c.1278G>A	c.(1276-1278)caG>caA
T	c.1879G>A	c.(1879-1881)Gag>Aag
A	c.250C>T	c.(250-252)Cca>Tca
T	c.1720G>A	c.(1720-1722)Gcc>Acc
A	c.600C>T	c.(598-600)acC>acT
A	c.499G>A	c.(499-501)Gag>Aag
A		
T	c.3896G>A	c.(3895-3897)gGa>gAa
T	c.1730C>T	c.(1729-1731)cCt>cTt
A	c.4198C>T	c.(4198-4200)Cat>Tat
A	c.3111C>T	c.(3109-3111)atC>atT
A	c.663G>A	c.(661-663)cgG>cgA
T	c.1772C>T	c.(1771-1773)cCc>cTc
A	c.654C>T	c.(652-654)ccC>ccT
T		
A		
T	c.535C>T	c.(535-537)Cac>Tac
T	c.909C>T	c.(907-909)caC>caT
A	c.210_splice	c.e4-1
C	c.1562A>G	c.(1561-1563)gAc>gGc
A	c.920C>T	c.(919-921)tCa>tTa
A	c.899G>A	c.(898-900)cGt>cAt
T		
T	c.5800C>T	c.(5800-5802)Cgt>Tgt
A	c.1793C>T	c.(1792-1794)cCc>cTc
A		
C		
A	c.851G>A	c.(850-852)aGg>aAg
T	c.396_splice	c.e3+1
T	c.1683C>T	c.(1681-1683)atC>atT
A	c.2883G>A	c.(2881-2883)gaG>gaA
T	c.4051C>T	c.(4051-4053)Cat>Tat

T	c.933C>T	c.(931-933)gcC>gcT
A	c.1387G>A	c.(1387-1389)Gac>Aac
A	c.213G>A	c.(211-213)caG>caA
T	c.1088G>A	c.(1087-1089)gGa>gAa
T	c.4611G>A	c.(4609-4611)aaG>aaA
A	c.180C>T	c.(178-180)agC>agT
T	c.898T>A	c.(898-900)Ttt>Att
A	c.137G>A	c.(136-138)cGa>cAa
A	c.3263C>T	c.(3262-3264)cCt>cTt
T	c.240C>T	c.(238-240)aaC>aaT
A	c.5477C>T	c.(5476-5478)tCc>tTc
A	c.421C>T	c.(421-423)Cag>Tag
T	c.644C>T	c.(643-645)tCg>tTg
A	c.523C>T	c.(523-525)Ctc>Ttc
T	c.2763T>A	c.(2761-2763)aaT>aaA
A	c.6293G>A	c.(6292-6294)gGg>gAg
A		
A	c.215G>A	c.(214-216)gGa>gAa
A	c.2093G>A	c.(2092-2094)gGg>gAg
C	c.244T>C	c.(244-246)Ttg>Ctg
T	c.678C>T	c.(676-678)taC>taT
T	c.88C>T	c.(88-90)Ccc>Tcc
A	c.1147A>T	c.(1147-1149)Aaa>Taa
T	c.346G>A	c.(346-348)Gct>Act
A	c.3244C>T	c.(3244-3246)Cat>Tat
A	c.308C>T	c.(307-309)tCc>tTc
A		
A	c.1168C>T	c.(1168-1170)Cac>Tac
A	c.1168G>A	c.(1168-1170)Ggc>Agc
T	c.160C>T	c.(160-162)Caa>Taa
A		
T	c.1272C>T	c.(1270-1272)ttC>ttT
A	c.153G>A	c.(151-153)ccG>ccA
T	c.1491G>A	c.(1489-1491)tgG>tgA
A	c.536C>T	c.(535-537)cCt>cTt
T	c.2818G>A	c.(2818-2820)Gat>Aat
T	c.481G>A	c.(481-483)Gga>Aga
A	c.1218G>A	c.(1216-1218)atG>atA
T	c.836C>T	c.(835-837)tCc>tTc
T	c.1939C>T	c.(1939-1941)Ctg>Ttg
T	c.463C>T	c.(463-465)Cat>Tat
A		
A	c.36G>A	c.(34-36)agG>agA



T	c.2180_splice	c.e19+1
A	c.37A>T	c.(37-39)Aag>Tag
A	c.573C>T	c.(571-573)ggC>ggT
A	c.1000C>T	c.(1000-1002)Cat>Tat
T		
T	c.432C>T	c.(430-432)ccC>ccT
A		
T		
A	c.575_splice	c.e7+1
T	c.94G>A	c.(94-96)Gaa>Aaa
T	c.1948C>T	c.(1948-1950)Ctt>Ttt
C	c.769T>C	c.(769-771)Tcc>Ccc
T	c.76G>A	c.(76-78)Gat>Aat
A	c.1092_splice	c.e12-1
A		
A	c.2401G>A	c.(2401-2403)Gag>Aag
T	c.1729C>T	c.(1729-1731)Cct>Tct
A	c.1454G>A	c.(1453-1455)gGa>gAa
A	c.549C>T	c.(547-549)atC>atT
T	c.104G>A	c.(103-105)cGa>cAa
A	c.371C>T	c.(370-372)tCt>tTt
A	c.1177G>A	c.(1177-1179)Gat>Aat
T	c.2388C>T	c.(2386-2388)atC>atT
T	c.996C>T	c.(994-996)ttC>ttT
T	c.112G>A	c.(112-114)Gaa>Aaa
T	c.463C>T	c.(463-465)Cat>Tat
T	c.52G>A	c.(52-54)Gaa>Aaa
A	c.616_splice	c.e7-1
A	c.831G>A	c.(829-831)agG>agA
A		
T	c.831G>A	c.(829-831)tgG>tgA
A	c.257G>A	c.(256-258)gGa>gAa
A		
A	c.357G>A	c.(355-357)gtG>gtA
T	c.1756C>T	c.(1756-1758)Ccg>Tcg
A	c.674C>T	c.(673-675)tCc>tTc
A	c.2973C>T	c.(2971-2973)ccC>ccT
A	c.6326G>A	c.(6325-6327)gGt>gAt
A		
T	c.465G>A	c.(463-465)cgG>cgA
T	c.1276G>A	c.(1276-1278)Gaa>Aaa
T	c.345G>A	c.(343-345)ctG>ctA
A		

A		
T	c.99C>T	c.(97-99)ctC>ctT
A	c.5476G>T	c.(5476-5478)Gag>Tag
A	c.340G>A	c.(340-342)Gga>Aga
A	c.1708C>T	c.(1708-1710)Cgc>Tgc
C	c.3509C>G	c.(3508-3510)tCc>tGc
T	c.437G>A	c.(436-438)cGa>cAa
T	c.237C>T	c.(235-237)acC>acT
T		
A	c.920C>T	c.(919-921)cCc>cTc
T	c.1510A>T	c.(1510-1512)Agc>Tgc
T	c.3535_splice	c.e15-1
T		
A		
A	c.1240G>T	c.(1240-1242)Gag>Tag
A	c.1239C>T	c.(1237-1239)ttC>ttT
A	c.59G>A	c.(58-60)cGa>cAa
A	c.10015G>A	c.(10015-10017)Gaa>Aaa
T	c.282C>T	c.(280-282)tcC>tcT
T	c.216C>T	c.(214-216)ccC>ccT
A	c.1412G>A	c.(1411-1413)gGa>gAa
A	c.4160C>T	c.(4159-4161)tCt>tTt
T	c.5308C>T	c.(5308-5310)Cat>Tat
A	c.261A>T	c.(259-261)aaA>aaT
C	c.217G>C	
T		
A	c.1251C>T	c.(1249-1251)gaC>gaT
A	c.474C>T	c.(472-474)ttC>ttT
A	c.13267G>T	c.(13267-13269)Gac>Tac
T	c.823C>T	c.(823-825)Cgt>Tgt
A	c.802C>T	c.(802-804)Cat>Tat
A	c.1913C>T	c.(1912-1914)cCa>cTa
A	c.3G>A	c.(1-3)atG>atA
A	c.3431C>T	c.(3430-3432)gCt>gTt
A		
T	c.307G>A	c.(307-309)Gaa>Aaa
A		
G	c.483_splice	c.e6+2
A	c.255C>T	c.(253-255)ctC>ctT
T		
T	c.676C>T	c.(676-678)Cgt>Tgt
T	c.1773C>T	c.(1771-1773)ccC>ccT
A	c.1645_splice	c.e17+1

A	c.2980C>T	c.(2980-2982)Cgg>Tgg
T		
T	c.203C>T	c.(202-204)cCc>cTc
A	c.1541G>A	
T	c.426C>T	c.(424-426)ctC>ctT
T	c.1486G>A	c.(1486-1488)Gat>Aat
T	c.3234C>T	c.(3232-3234)atC>atT
A	c.730G>A	c.(730-732)Gag>Aag
C	c.660T>G	
T		
A	c.702G>A	c.(700-702)agG>agA
T	c.1360C>T	c.(1360-1362)Cct>Tct
A		
A	c.981C>A	c.(979-981)ctC>ctA
T	c.1175C>T	c.(1174-1176)cCa>cTa
A		
T	c.613C>T	c.(613-615)Ctg>Ttg
T		
G		
C	c.530_splice	c.e3+2
A	c.486C>T	c.(484-486)ctC>ctT
T	c.6772G>A	c.(6772-6774)Ggg>Agg
A	c.3627G>A	c.(3625-3627)tcG>tcA
T	c.115_splice	c.e2+1
T	c.441C>T	c.(439-441)gtC>gtT
A	c.1411G>A	c.(1411-1413)Gag>Aag
A	c.247G>A	c.(247-249)Gaa>Aaa
T	c.801T>A	c.(799-801)ccT>ccA
T	c.729C>T	c.(727-729)ctC>ctT
T	c.605C>T	c.(604-606)tCg>tTg
T	c.212C>T	c.(211-213)cCg>cTg
T	c.944G>A	c.(943-945)cGa>cAa
A	c.123C>T	c.(121-123)tcC>tcT
T	c.617G>A	c.(616-618)gGg>gAg
A		
G	c.638C>G	c.(637-639)cCc>cGc
A		
G	c.306T>G	c.(304-306)agT>agG
A	c.312A>T	c.(310-312)aaA>aaT
A	c.6691G>A	c.(6691-6693)Gaa>Aaa
T	c.1357C>T	c.(1357-1359)Ccc>Tcc
A		
A	c.1416C>T	c.(1414-1416)ccC>ccT

A	c.338C>T	c.(337-339)tCc>tTc
T	c.385G>A	c.(385-387)Gta>Ata
T	c.166C>T	c.(166-168)Cgg>Tgg
C	c.453C>G	c.(451-453)acC>acG
C		
T		
A	c.518G>A	c.(517-519)gGa>gAa
A	c.347G>A	c.(346-348)gGg>gAg
A	c.1162C>T	c.(1162-1164)Ctg>Ttg
A	c.328C>T	c.(328-330)Ctt>Ttt
A	c.818C>T	c.(817-819)tCc>tTc
T	c.1087G>A	c.(1087-1089)Gga>Aga
T		
T	c.5404C>T	c.(5404-5406)Cca>Tca
A	c.2058C>T	c.(2056-2058)acC>acT
C	c.796A>G	c.(796-798)Acc>Gcc
C	c.871T>C	c.(871-873)Tcc>Ccc
T		
A	c.669G>A	c.(667-669)gtG>gtA
T	c.2901G>A	c.(2899-2901)aaG>aaA
A	c.373C>T	c.(373-375)Cag>Tag
T	c.79G>A	c.(79-81)Gaa>Aaa
T	c.1682G>A	c.(1681-1683)gGa>gAa
A		
T	c.1961G>A	c.(1960-1962)gGg>gAg
T		
T	c.620G>A	c.(619-621)tGg>tAg
T	c.1009G>A	c.(1009-1011)Gaa>Aaa
A	c.534C>T	c.(532-534)atC>atT
T		
T	c.4717T>A	c.(4717-4719)Ttg>Atg
A	c.3023G>A	c.(3022-3024)aGa>aAa
A	c.181G>A	c.(181-183)Ggg>Agg
A	c.532C>T	c.(532-534)Cag>Tag
T	c.1401G>A	c.(1399-1401)ggG>ggA
T	c.505C>T	c.(505-507)Cgg>Tgg
A		
A	c.827C>T	c.(826-828)cCa>cTa
T	c.2803G>A	c.(2803-2805)Ggt>Agt
A	c.1049G>A	c.(1048-1050)gGc>gAc
T	c.39G>A	c.(37-39)gaG>gaA
A	c.738C>T	c.(736-738)tgC>tgT
A	c.1194G>A	c.(1192-1194)acG>acA

T		
A		
A	c.2323C>T	c.(2323-2325)Ctc>Ttc
A	c.1329G>A	
A	c.3307C>T	c.(3307-3309)Cac>Tac
A	c.406C>T	c.(406-408)Cct>Tct
A	c.2298G>A	c.(2296-2298)aaG>aaA
T	c.2644G>A	c.(2644-2646)Gat>Aat
A	c.981_splice	c.e11-1
T	c.1240G>A	c.(1240-1242)Gtg>Atg
A	c.1813G>A	c.(1813-1815)Gag>Aag
T	c.139G>A	c.(139-141)Gcc>Acc
T	c.867C>T	c.(865-867)ggC>ggT
A	c.678C>T	c.(676-678)ctC>ctT
A		
A	c.768C>T	c.(766-768)ctC>ctT
T	c.336C>T	c.(334-336)atC>atT
T	c.1783C>T	c.(1783-1785)Cca>Tca
A	c.1888C>T	c.(1888-1890)Cct>Tct
A		
T	c.1681G>A	c.(1681-1683)Gga>Aga
T	c.1087G>A	c.(1087-1089)Gag>Aag
T	c.1725G>A	c.(1723-1725)ctG>ctA
T	c.1219C>T	c.(1219-1221)Cca>Tca
A		
A	c.687G>A	c.(685-687)aaG>aaA
T	c.633C>T	
G	c.1008A>G	c.(1006-1008)cgA>cgG
T	c.4495G>A	c.(4495-4497)Gaa>Aaa
T	c.599G>A	c.(598-600)gGa>gAa
G	c.806T>C	c.(805-807)tTc>tCc
C	c.2160T>C	c.(2158-2160)agT>agC
T	c.1734G>A	c.(1732-1734)agG>agA
T	c.2188C>T	c.(2188-2190)Cgt>Tgt
G	c.1311A>G	c.(1309-1311)gaA>gaG
A	c.751C>T	c.(751-753)Cct>Tct
T	c.307G>A	c.(307-309)Ggc>Agc
A	c.545G>A	c.(544-546)gGa>gAa
T	c.1873G>T	c.(1873-1875)Gag>Tag
T		
A	c.676G>A	c.(676-678)Ggc>Agc
A	c.544C>T	c.(544-546)Cct>Tct
A	c.7C>T	

T	c.223G>A	c.(223-225)Gaa>Aaa
A	c.564C>T	c.(562-564)ttC>ttT
A	c.360C>T	
A	c.1726A>T	c.(1726-1728)Aaa>Taa
T	c.1199C>T	c.(1198-1200)tCc>tTc
T		
A	c.264C>T	c.(262-264)tcC>tcT
A	c.1379C>T	c.(1378-1380)tCt>tTt
T		
A		
A	c.2446G>A	c.(2446-2448)Gcc>Acc
A	c.749C>T	c.(748-750)cCt>cTt
T	c.437C>T	c.(436-438)cCg>cTg
A	c.1573G>A	c.(1573-1575)Gga>Aga
T	c.2593G>A	c.(2593-2595)Gag>Aag
A	c.1080G>A	c.(1078-1080)gaG>gaA
A		
T		
G		
T	c.1538G>A	c.(1537-1539)aGa>aAa
A	c.2133G>A	c.(2131-2133)cgG>cgA
T	c.2119C>T	c.(2119-2121)Cca>Tca
T	c.2345C>T	c.(2344-2346)cCc>cTc
A	c.610G>A	c.(610-612)Gcc>Acc
A	c.1244C>A	c.(1243-1245)cCc>cAc
A	c.263G>A	c.(262-264)cGa>cAa
G		
T		
A	c.1867G>A	c.(1867-1869)Ggt>Agt
A	c.553G>A	c.(553-555)Gtg>Atg
T		
A	c.166C>T	c.(166-168)Cgt>Tgt
A	c.1096G>T	c.(1096-1098)Gcc>Tcc
G	c.364T>C	c.(364-366)Tat>Cat
T		
A	c.1053C>T	c.(1051-1053)tcC>tcT
A	c.1261C>T	c.(1261-1263)Cat>Tat
T	c.1260G>A	c.(1258-1260)ggG>ggA
A	c.3598C>T	c.(3598-3600)Ccc>Tcc
A	c.821C>T	c.(820-822)cCt>cTt
T	c.1615G>A	c.(1615-1617)Gac>Aac
T		
A	c.851G>A	

T	c.4561G>A	c.(4561-4563)Gag>Aag
A		
T	c.10038C>T	c.(10036-10038)ctC>ctT
T	c.1205C>T	c.(1204-1206)cCt>cTt
A	c.6008G>A	c.(6007-6009)aGg>aAg
A	c.1320C>T	c.(1318-1320)gtC>gtT
T	c.4261G>A	c.(4261-4263)Gga>Aga
T		
A	c.518G>A	c.(517-519)gGa>gAa
A	c.210C>T	c.(208-210)ctC>ctT
C	c.633A>G	c.(631-633)gcA>gcG
T	c.1100G>A	c.(1099-1101)aGg>aAg
T		
A	c.305G>A	c.(304-306)cGg>cAg
T	c.1383C>T	c.(1381-1383)atC>atT
T	c.1377G>A	c.(1375-1377)cgG>cgA
A	c.206G>A	c.(205-207)gGa>gAa
T	c.107G>A	c.(106-108)aGt>aAt
G	c.1055G>C	c.(1054-1056)gGc>gCc
T	c.2344C>T	c.(2344-2346)Cga>Tga
T	c.3006C>T	c.(3004-3006)tcC>tcT
T		
T	c.858C>T	c.(856-858)tcC>tcT
T	c.731C>T	c.(730-732)tCc>tTc
T	c.2658C>T	c.(2656-2658)acC>acT
A		
A	c.345G>A	c.(343-345)caG>caA
T	c.370G>A	c.(370-372)Gga>Aga
T		
T	c.132C>T	c.(130-132)atC>atT
C	c.1108_splice	c.e6-1
T	c.2781G>A	c.(2779-2781)gtG>gtA
A	c.2136C>T	c.(2134-2136)atC>atT
T		
G	c.712T>C	c.(712-714)Ttc>Ctc
T	c.1230G>A	c.(1228-1230)ggG>ggA
T	c.3358G>A	c.(3358-3360)Gtt>Att
A	c.1070C>T	c.(1069-1071)gCg>gTg
A		
A	c.1655C>T	c.(1654-1656)tCc>tTc
T	c.360_splice	c.e3+1
A	c.55C>A	c.(55-57)Ctg>Atg
C	c.36T>C	c.(34-36)ttT>ttC

C	c.1218G>C	c.(1216-1218)aaG>aaC
A	c.550G>A	c.(550-552)Ggt>Agt
A	c.1328C>T	c.(1327-1329)tCc>tTc
G		
A	c.1255C>T	c.(1255-1257)Cgg>Tgg
A		
A	c.1028G>A	c.(1027-1029)cGa>cAa
T	c.1319C>T	c.(1318-1320)gCc>gTc
T	c.241G>A	c.(241-243)Gcc>Acc
A	c.658C>T	c.(658-660)Cct>Tct
T	c.972C>T	c.(970-972)gaC>gaT
A	c.3510C>T	c.(3508-3510)tcC>tcT
T	c.224C>T	c.(223-225)gCc>gTc
T	c.96C>T	c.(94-96)ttC>ttT
T	c.1578C>T	c.(1576-1578)gcC>gcT
T	c.2310C>T	c.(2308-2310)gtC>gtT
C	c.660A>G	c.(658-660)ctA>ctG
T	c.807G>A	c.(805-807)gaG>gaA
A	c.803G>A	c.(802-804)gGa>gAa
A		
T	c.468C>T	c.(466-468)ctC>ctT
T	c.573C>T	c.(571-573)ccC>ccT
A	c.5611C>T	c.(5611-5613)Cct>Tct
A	c.1380C>T	c.(1378-1380)caC>caT
A		
C	c.3021A>C	c.(3019-3021)aaA>aaC
T	c.724G>A	c.(724-726)Gaa>Aaa
T	c.981C>T	c.(979-981)atC>atT
T	c.3246_splice	c.e26-1
A	c.1267G>A	c.(1267-1269)Gag>Aag
A		
A	c.2057C>T	c.(2056-2058)aCc>aTc
T	c.178C>T	c.(178-180)Cct>Tct
T		
A	c.5983C>T	c.(5983-5985)Cta>Tta
A	c.1384G>A	c.(1384-1386)Gta>Ata
A	c.546C>T	c.(544-546)ttC>ttT
T	c.2280G>A	c.(2278-2280)aaG>aaA
T	c.483G>A	
A	c.2707C>T	c.(2707-2709)Ccc>Tcc
A	c.556G>A	c.(556-558)Ggc>Agc
T		
T	c.2066C>T	c.(2065-2067)cCc>cTc



T	c.51C>T	c.(49-51)ctC>ctT
T		
A		
A	c.996G>A	c.(994-996)taG>taA
A	c.1515G>A	c.(1513-1515)gtG>gtA
A		
A	c.492C>T	c.(490-492)ttC>ttT
T	c.735G>A	c.(733-735)aaG>aaA
T		
T	c.318C>T	c.(316-318)ccC>ccT
A	c.715A>T	c.(715-717)Ata>Tta
A		
A	c.1865G>A	c.(1864-1866)gGa>gAa
T		
A	c.163G>A	c.(163-165)Ggg>Agg
T	c.5865C>T	c.(5863-5865)acC>acT
T	c.147C>T	c.(145-147)ccC>ccT
A		
A	c.84C>T	c.(82-84)atC>atT
A		
A		
T		
T	c.1324C>T	c.(1324-1326)Cgc>Tgc
A	c.1416G>A	c.(1414-1416)gcG>gcA
C		
A	c.441G>A	c.(439-441)cgG>cgA
A	c.1500G>A	c.(1498-1500)aaG>aaA
T	c.3015A>T	c.(3013-3015)gcA>gcT
A	c.12G>A	c.(10-12)atG>atA
A	c.575_splice	c.e7+1
G	c.2568_splice	c.e20+1
A		
T	c.783C>T	c.(781-783)gcC>gcT
T	c.517G>A	c.(517-519)Gaa>Aaa
T	c.869G>A	c.(868-870)cGg>cAg
G	c.1444T>G	c.(1444-1446)Tac>Gac
T	c.2490G>A	c.(2488-2490)aaG>aaA
T	c.396G>A	c.(394-396)atG>atA
A		
T		
A		
A	c.1153C>T	c.(1153-1155)Cca>Tca

A	c.195C>T	c.(193-195)acC>acT
A	c.346G>A	c.(346-348)Gag>Aag
A	c.798G>A	c.(796-798)ctG>ctA
T	c.741C>T	c.(739-741)tcC>tcT
A		
A		
T	c.2366G>A	c.(2365-2367)cGa>cAa
G	c.917A>G	c.(916-918)aAa>aGa
T	c.5345G>A	c.(5344-5346)cGg>cAg
T	c.90G>A	c.(88-90)tgG>tgA
T	c.506_splice	c.e3+1
T	c.2165C>T	c.(2164-2166)tCg>tTg
A		
A	c.1188G>A	c.(1186-1188)ccG>ccA
A	c.100T>A	c.(100-102)Ttc>Atc
T	c.1005G>A	c.(1003-1005)gaG>gaA
T	c.240C>T	c.(238-240)tcC>tcT
T	c.559G>A	c.(559-561)Ggc>Agc
T	c.1026C>T	c.(1024-1026)atC>atT
T	c.369C>T	c.(367-369)atC>atT
A	c.3999C>T	c.(3997-3999)ccC>ccT
A	c.2574C>T	c.(2572-2574)ttC>ttT
A	c.3754C>T	c.(3754-3756)Cct>Tct
T	c.3765C>T	c.(3763-3765)acC>acT
T	c.975A>T	c.(973-975)agA>agT
T	c.1008G>A	c.(1006-1008)agG>agA
A	c.2632C>T	c.(2632-2634)Ctg>Ttg
A	c.6266C>T	c.(6265-6267)tCc>tTc
A	c.1887G>A	c.(1885-1887)atG>atA
A		
T	c.1572C>T	c.(1570-1572)atC>atT
A	c.517G>A	c.(517-519)Gga>Aga
A	c.2515C>T	c.(2515-2517)Ccg>Tcg
C	c.4112C>G	c.(4111-4113)cCg>cGg
A	c.345C>T	c.(343-345)atC>atT
T	c.218C>T	c.(217-219)gCc>gTc
T	c.7697G>A	c.(7696-7698)tGg>tAg
A		
T	c.3602G>A	c.(3601-3603)aGg>aAg
A		
A	c.1839G>A	c.(1837-1839)gtG>gtA
T	c.983C>T	c.(982-984)cCa>cTa
A	c.3289G>A	c.(3289-3291)Gac>Aac

A	c.4124C>T	c.(4123-4125)cCc>cTc
A	c.720G>A	c.(718-720)agG>agA
T	c.4210G>A	c.(4210-4212)Gaa>Aaa
A		
A	c.682C>T	c.(682-684)Cgt>Tgt
A	c.699C>T	c.(697-699)tcC>tcT
A	c.60G>T	c.(58-60)gaG>gaT
A	c.81G>A	c.(79-81)tcG>tcA
A		
A	c.2215C>T	c.(2215-2217)Ctg>Ttg
T	c.1925C>A	c.(1924-1926)gCt>gAt
T	c.11331C>T	c.(11329-11331)atC>atT
A		
A	c.2614G>A	c.(2614-2616)Gaa>Aaa
A	c.1817G>A	c.(1816-1818)gGg>gAg
T	c.2661G>A	c.(2659-2661)ggG>ggA
A	c.1114G>A	c.(1114-1116)Gga>Aga
T	c.696C>T	c.(694-696)ttC>ttT
T		
A	c.1824G>A	c.(1822-1824)aaG>aaA
T		
A	c.2371T>A	c.(2371-2373)Ttc>Atc
T	c.494G>A	c.(493-495)tGg>tAg
A	c.2283A>T	c.(2281-2283)cgA>cgT
T	c.194C>T	c.(193-195)gCc>gTc
A	c.688C>T	c.(688-690)Ccc>Tcc
G	c.295G>C	c.(295-297)Gat>Cat
T		
A	c.799G>A	c.(799-801)Gcc>Acc
A	c.379G>A	c.(379-381)Gaa>Aaa
A	c.1084G>A	c.(1084-1086)Gac>Aac
T	c.3913G>A	c.(3913-3915)Gat>Aat
A	c.1656C>T	c.(1654-1656)ttC>ttT
A		
A	c.1350C>T	c.(1348-1350)tcC>tcT
A	c.7766C>T	c.(7765-7767)cCc>cTc
A		
A	c.8915G>A	c.(8914-8916)cGg>cAg
T	c.134G>A	c.(133-135)gGa>gAa
T		
A	c.7343C>A	c.(7342-7344)tCa>tAa
T	c.72C>T	c.(70-72)atC>atT
T		

T	c.1076G>A	c.(1075-1077)cGa>cAa
T	c.1359C>T	
A	c.990G>A	c.(988-990)ggG>ggA
A		
T	c.771C>T	c.(769-771)ttC>ttT
A	c.5086G>A	c.(5086-5088)Gaa>Aaa
A	c.780C>T	c.(778-780)atC>atT
T	c.889C>T	c.(889-891)Cct>Tct
T	c.896C>T	c.(895-897)tCc>tTc
C	c.1444A>G	c.(1444-1446)Aat>Gat
T	c.4731T>A	c.(4729-4731)ctT>ctA
T	c.3024C>T	c.(3022-3024)atC>atT
T	c.128C>T	c.(127-129)cCg>cTg
A	c.2606C>T	c.(2605-2607)aCc>aTc
T		
G	c.1144A>C	
A	c.805G>A	c.(805-807)Gag>Aag
A	c.1198C>T	c.(1198-1200)Cgt>Tgt
T	c.978G>A	c.(976-978)acG>acA
T		
T		
T	c.853G>A	c.(853-855)Gag>Aag
T	c.46G>A	c.(46-48)Gat>Aat
A	c.78G>A	c.(76-78)ccG>ccA
T		
A	c.3151C>T	c.(3151-3153)Cag>Tag
T	c.385T>A	c.(385-387)Tac>Aac
T	c.3789G>A	c.(3787-3789)gtG>gtA
G	c.7522A>C	c.(7522-7524)Aaa>Caa
A	c.963C>T	c.(961-963)acC>acT
A	c.20C>T	c.(19-21)tCg>tTg
A	c.3862G>A	c.(3862-3864)Gat>Aat
A		
A		
A	c.1344C>T	c.(1342-1344)ccC>ccT
G	c.213G>C	c.(211-213)gcG>gcC
A	c.81C>T	c.(79-81)aaC>aaT
A	c.172C>T	c.(172-174)Cct>Tct
T	c.299G>A	c.(298-300)gGg>gAg
T	c.860G>A	c.(859-861)cGa>cAa
T	c.1240C>T	c.(1240-1242)Cac>Tac
T		
T		

A	c.1742G>A	c.(1741-1743)aGa>aAa
A		
T	c.606C>T	c.(604-606)gtC>gtT
T	c.498C>T	c.(496-498)ttC>ttT
A	c.3722C>T	c.(3721-3723)tCc>tTc
T		
T		
A	c.3779_splice	c.e25-1
A	c.182G>A	c.(181-183)cGg>cAg
A	c.389C>T	c.(388-390)tCc>tTc
T	c.361C>T	c.(361-363)Cgt>Tgt
A		
T	c.948C>T	
T		
T		
T	c.1992G>A	c.(1990-1992)tgG>tgA
G	c.1971_splice	c.e2-1
T	c.766G>A	c.(766-768)Gac>Aac
T	c.1492C>T	c.(1492-1494)Ctg>Ttg
T	c.2727G>A	
A		
A	c.280T>A	c.(280-282)Tac>Aac
T	c.471C>T	c.(469-471)ttC>ttT
T	c.438C>T	c.(436-438)tcC>tcT
T	c.6659C>T	c.(6658-6660)aCc>aTc
A	c.1905C>T	c.(1903-1905)ttC>ttT
T	c.1244C>T	c.(1243-1245)tCa>tTa
G		
T	c.577G>A	c.(577-579)Gaa>Aaa
T	c.1103C>T	c.(1102-1104)aCc>aTc
A	c.195C>T	c.(193-195)atC>atT
A	c.813G>A	c.(811-813)ctG>ctA
C		
T	c.1310C>T	c.(1309-1311)cCa>cTa
T	c.3562C>T	c.(3562-3564)Cgg>Tgg
T	c.882G>A	c.(880-882)atG>atA
A		
A	c.1393C>T	c.(1393-1395)Cca>Tca
T	c.1009C>T	c.(1009-1011)Ccc>Tcc
A	c.277C>T	c.(277-279)Ctg>Ttg
A		
T	c.476C>T	c.(475-477)tCt>tTt
A	c.170G>A	c.(169-171)tGc>tAc

C	c.1810A>G	c.(1810-1812)Aag>Gag
C	c.791T>C	c.(790-792)tTt>tCt
A		
A	c.739G>A	c.(739-741)Gag>Aag
A	c.169G>A	c.(169-171)Gga>Aga
T		
T	c.618G>A	c.(616-618)ggG>ggA
T	c.1171C>T	c.(1171-1173)Ccg>Tcg
T	c.931G>A	c.(931-933)Gaa>Aaa
A	c.679C>T	c.(679-681)Cca>Tca
A	c.130C>T	c.(130-132)Cgg>Tgg
A	c.4045C>T	c.(4045-4047)Cgt>Tgt
A	c.1859G>A	c.(1858-1860)gGg>gAg
C	c.1196C>G	c.(1195-1197)gCc>gGc
G	c.68A>G	c.(67-69)cAa>cGa
T	c.1002C>T	c.(1000-1002)atC>atT
T	c.3123C>T	c.(3121-3123)ttC>ttT
T	c.1172C>T	c.(1171-1173)tCt>tTt
T	c.1702C>T	c.(1702-1704)Cat>Tat
T	c.6129G>A	c.(6127-6129)atG>atA
T	c.785C>T	c.(784-786)tCg>tTg
A	c.584C>T	
A	c.32G>A	c.(31-33)gGg>gAg
T	c.961G>A	c.(961-963)Gaa>Aaa
A	c.1197C>T	c.(1195-1197)gcC>gcT
C	c.5436T>G	c.(5434-5436)gaT>gaG
T	c.181G>A	c.(181-183)Gcc>Acc
T		
A		
A	c.108G>A	c.(106-108)tcG>tcA
A		
A		
A	c.1138G>A	c.(1138-1140)Gga>Aga
T	c.3516C>T	c.(3514-3516)ctC>ctT
A		
T	c.178C>T	c.(178-180)Cac>Tac
T	c.702G>A	c.(700-702)agG>agA
A	c.692C>T	c.(691-693)tCa>tTa
C	c.1018T>C	c.(1018-1020)Ttg>Ctg
A	c.5885G>A	c.(5884-5886)gGg>gAg
A	c.510C>T	c.(508-510)acC>acT
T	c.3100A>T	c.(3100-3102)Aac>Tac
T	c.1176C>T	c.(1174-1176)gtC>gtT

A	c.2562G>A	c.(2560-2562)agG>agA
T	c.1379C>T	c.(1378-1380)cCt>cTt
T	c.2055C>T	c.(2053-2055)atC>atT
A	c.1487T>A	c.(1486-1488)tTt>tAt
A		
T	c.601C>T	c.(601-603)Ctg>Ttg
A	c.963G>A	c.(961-963)atG>atA
T		
A		
T		
G	c.3362T>C	c.(3361-3363)gTt>gCt
T	c.1425G>A	c.(1423-1425)ctG>ctA
T	c.265C>T	c.(265-267)Ctg>Ttg
T	c.50C>T	c.(49-51)cCc>cTc
T	c.2372C>T	c.(2371-2373)tCa>tTa
T	c.10899G>A	c.(10897-10899)tgG>tgA
A	c.1516G>A	c.(1516-1518)Ggc>Agc
T	c.976C>T	c.(976-978)Ccc>Tcc
T	c.191C>T	c.(190-192)tCc>tTc
T	c.938C>T	c.(937-939)cCg>cTg
T	c.3250C>T	c.(3250-3252)Cca>Tca
T	c.910C>T	c.(910-912)Cgc>Tgc
T	c.349G>A	c.(349-351)Ggg>Agg
T	c.856G>A	c.(856-858)Gag>Aag
T	c.1016G>A	
A	c.1011C>T	c.(1009-1011)atC>atT
T	c.9980G>A	c.(9979-9981)aGa>aAa
T	c.3380C>T	c.(3379-3381)tCa>tTa
T	c.425C>T	c.(424-426)cCt>cTt
T		
A	c.43454G>T	c.(43453-43455)gGa>gTa
A	c.3845C>T	c.(3844-3846)cCa>cTa
T	c.384C>T	c.(382-384)atC>atT
T	c.844C>T	c.(844-846)Cgt>Tgt
T	c.1287C>T	c.(1285-1287)agC>agT
A	c.284C>T	c.(283-285)tCa>tTa
A	c.551G>A	c.(550-552)tGg>tAg
T	c.293G>A	c.(292-294)cGg>cAg
A		
A	c.1447C>T	
A	c.1263C>T	c.(1261-1263)ttC>ttT
A	c.1107C>T	c.(1105-1107)ttC>ttT
T	c.1983C>T	c.(1981-1983)ttC>ttT

A		
T	c.3074G>A	c.(3073-3075)gGa>gAa
A		
A	c.2397C>T	c.(2395-2397)atC>atT
T	c.715G>A	c.(715-717)Gag>Aag
A	c.7136G>A	c.(7135-7137)gGa>gAa
A	c.6832G>A	c.(6832-6834)Gag>Aag
A	c.4538C>T	c.(4537-4539)tCc>tTc
A	c.1597C>T	c.(1597-1599)Cga>Tga
T	c.2903G>A	c.(2902-2904)aGt>aAt
T	c.253G>A	c.(253-255)Gat>Aat
T	c.1301C>T	c.(1300-1302)gCc>gTc
A	c.65C>T	c.(64-66)cCc>cTc
T	c.198C>T	c.(196-198)ttC>ttT
A		
G	c.859_splice	c.e10-1
A	c.1261C>T	c.(1261-1263)Cat>Tat
T	c.331C>T	c.(331-333)Cag>Tag
A	c.30292C>T	c.(30292-30294)Cct>Tct
T	c.3895G>A	c.(3895-3897)Gga>Aga
C		
T	c.544G>A	c.(544-546)Gaa>Aaa
T	c.204C>T	c.(202-204)atC>atT
A	c.4472G>A	c.(4471-4473)gGa>gAa
A	c.1067C>T	c.(1066-1068)tCc>tTc
T	c.207C>T	c.(205-207)ctC>ctT
A		
T	c.70G>A	c.(70-72)Gat>Aat
T	c.637C>T	c.(637-639)Ccc>Tcc
C	c.2479T>C	c.(2479-2481)Tcg>Ccg
T		
T	c.268C>T	c.(268-270)Cca>Tca
A	c.955C>T	c.(955-957)Cga>Tga
A	c.169C>T	c.(169-171)Ctg>Ttg
A	c.692C>T	c.(691-693)aCc>aTc
T	c.1465G>A	c.(1465-1467)Gac>Aac
A	c.33C>T	c.(31-33)gtC>gtT
A	c.675C>T	c.(673-675)atC>atT
G		
A		
A	c.2126_splice	c.e29-1
A	c.344C>T	c.(343-345)tCg>tTg
A	c.5840C>T	c.(5839-5841)cCg>cTg



A	c.1352C>T	
A	c.2974G>A	c.(2974-2976)Gag>Aag
A	c.994G>A	c.(994-996)Gag>Aag
A	c.547G>A	c.(547-549)Gaa>Aaa
A	c.42069C>T	c.(42067-42069)atC>atT
A		
T		
T		
C	c.2664A>G	c.(2662-2664)gcA>gcG
C	c.536_splice	c.e4+1
C	c.882T>G	c.(880-882)aaT>aaG
T		
A	c.8942G>A	c.(8941-8943)aGg>aAg
A		
T	c.5864C>T	c.(5863-5865)aCc>aTc
A	c.200C>T	c.(199-201)tCc>tTc
A		
A	c.2492G>A	c.(2491-2493)cGa>cAa
A		
A	c.4237C>T	c.(4237-4239)Ccc>Tcc
A	c.134G>A	c.(133-135)cGa>cAa
A	c.1268_splice	c.e7+1
A	c.2906C>T	c.(2905-2907)tCc>tTc
A	c.2230C>T	c.(2230-2232)Ccc>Tcc
T	c.524G>A	c.(523-525)aGg>aAg
T		
T	c.2916G>A	c.(2914-2916)acG>acA
A	c.190C>T	c.(190-192)Cac>Tac
T	c.3905G>A	c.(3904-3906)cGa>cAa
C		
T	c.1031C>T	c.(1030-1032)tCg>tTg
T	c.1717C>T	c.(1717-1719)Cga>Tga
T		
A		
A	c.315G>A	c.(313-315)ggG>ggA
T	c.1195G>A	c.(1195-1197)Gcg>Acg
A	c.9104C>T	c.(9103-9105)tCt>tTt
A	c.1093G>A	c.(1093-1095)Gaa>Aaa
T	c.420C>T	c.(418-420)aaC>aaT
A	c.62C>A	c.(61-63)aCa>aAa
T		
C	c.323A>G	c.(322-324)gAa>gGa
T	c.1228_splice	c.e7+1

T	c.218C>T	c.(217-219)tCc>tTc
A	c.495C>T	c.(493-495)ttC>ttT
T		
T	c.1511G>A	c.(1510-1512)gGa>gAa
A	c.558G>A	c.(556-558)cgG>cgA
G	c.1037T>G	c.(1036-1038)gTg>gGg
T	c.61_splice	c.e1+1
C		
C	c.253G>C	c.(253-255)Gga>Cga
A		
T	c.769C>T	c.(769-771)Cca>Tca
A	c.678C>T	c.(676-678)tcC>tcT
T	c.2069C>T	c.(2068-2070)tCc>tTc
T	c.4602C>T	c.(4600-4602)tcC>tcT
A		
T	c.1391G>A	c.(1390-1392)tGg>tAg
T	c.144G>A	c.(142-144)aaG>aaA
T		
T	c.1417C>T	c.(1417-1419)Caa>Taa
T	c.471G>A	c.(469-471)aaG>aaA
G	c.430A>G	c.(430-432)Aca>Gca
A	c.2355G>A	c.(2353-2355)cgG>cgA
T	c.4992G>A	c.(4990-4992)cgG>cgA
A	c.453C>T	c.(451-453)ttC>ttT
A	c.2519C>T	c.(2518-2520)gCc>gTc
A	c.2889C>T	c.(2887-2889)ctC>ctT
T	c.1070G>A	c.(1069-1071)cGa>cAa
A		
T	c.1731G>A	c.(1729-1731)tgG>tgA
A	c.594C>T	c.(592-594)acC>acT
A	c.925G>A	c.(925-927)Gtg>Atg
A	c.3591C>T	c.(3589-3591)tcC>tcT
A	c.310C>T	c.(310-312)Ccc>Tcc
G	c.749T>G	c.(748-750)cTc>cGc
T	c.578C>T	c.(577-579)cCa>cTa
T		
A	c.1954G>A	c.(1954-1956)Gat>Aat
T	c.294C>A	c.(292-294)atC>atA
A	c.1480_splice	c.e17-1
T	c.1113C>T	c.(1111-1113)agC>agT
A		
A	c.644C>T	c.(643-645)gCc>gTc
A	c.911G>A	c.(910-912)gGa>gAa

A		
T		
T	c.982C>T	c.(982-984)Cca>Tca
A	c.1979C>T	c.(1978-1980)tCt>tTt
A		
T	c.3678C>T	c.(3676-3678)ttC>ttT
A	c.1972C>T	c.(1972-1974)Cgt>Tgt
T	c.2622G>A	c.(2620-2622)tgG>tgA
T	c.1196C>T	c.(1195-1197)cCt>cTt
T	c.192T>A	c.(190-192)tgT>tgA
T	c.3539G>T	c.(3538-3540)cGg>cTg
A	c.363C>T	c.(361-363)ctC>ctT
A	c.555C>T	c.(553-555)atC>atT
A		
A	c.1093C>T	c.(1093-1095)Ctt>Ttt
G	c.1905A>G	
T	c.4310G>A	c.(4309-4311)gGg>gAg
T	c.852C>T	c.(850-852)ccC>ccT
C		
T	c.130G>A	c.(130-132)Gga>Aga
A		
T	c.1008C>T	c.(1006-1008)gcC>gcT
A	c.188G>A	c.(187-189)gGa>gAa
A		
T		
T	c.309G>A	c.(307-309)tgG>tgA
T	c.1689G>A	c.(1687-1689)acG>acA
A		
T	c.160C>T	c.(160-162)Cct>Tct
G	c.2800_splice	c.e19-2
T	c.417G>A	c.(415-417)agG>agA
A	c.1814C>T	c.(1813-1815)tCc>tTc
A	c.2776G>A	c.(2776-2778)Ggg>Agg
T	c.136C>T	c.(136-138)Cct>Tct
A	c.1152G>A	c.(1150-1152)aaG>aaA
A	c.3208G>A	c.(3208-3210)Gat>Aat
T	c.1318C>T	c.(1318-1320)Cga>Tga
A	c.454C>T	c.(454-456)Ctt>Ttt
A		
A	c.287C>T	c.(286-288)gCc>gTc
A	c.1540G>A	c.(1540-1542)Ggg>Agg
T		
A	c.162G>A	c.(160-162)gaG>gaA

T	c.575C>T	c.(574-576)tCt>tTt
A	c.6036C>T	c.(6034-6036)ttC>ttT
A	c.1741G>A	c.(1741-1743)Gaa>Aaa
T	c.2743C>T	c.(2743-2745)Cag>Tag
A	c.754G>A	c.(754-756)Gat>Aat
T	c.1468C>T	c.(1468-1470)Cct>Tct
T		
A	c.158_splice	c.e2-1
A	c.1569C>T	c.(1567-1569)ttC>ttT
G	c.10278A>G	c.(10276-10278)ccA>ccG
A	c.97455C>T	c.(97453-97455)ttC>ttT
G	c.318T>C	c.(316-318)ggT>ggC
T	c.4003C>T	c.(4003-4005)Cca>Tca
T	c.531C>T	c.(529-531)atC>atT
A	c.65C>T	
A	c.4574G>A	c.(4573-4575)gGa>gAa
T	c.374G>A	c.(373-375)cGa>cAa
T	c.434C>T	c.(433-435)cCc>cTc
T	c.1479C>T	c.(1477-1479)ttC>ttT
T	c.13193C>T	c.(13192-13194)cCa>cTa
A	c.1897C>T	c.(1897-1899)Cgt>Tgt
A	c.1058C>T	c.(1057-1059)tCt>tTt
C		
A	c.1399G>A	c.(1399-1401)Gaa>Aaa
T	c.370C>T	c.(370-372)Cct>Tct
T	c.5328G>A	c.(5326-5328)atG>atA
T	c.835C>T	c.(835-837)Cga>Tga
A		
T	c.2695G>A	c.(2695-2697)Gga>Aga
T	c.468C>T	c.(466-468)tcC>tcT
T		
A	c.300G>A	c.(298-300)atG>atA
T		
A	c.1269G>A	c.(1267-1269)aaG>aaA
T	c.66C>T	c.(64-66)tcC>tcT
A	c.1404G>T	c.(1402-1404)caG>caT
T	c.7776G>A	c.(7774-7776)cgG>cgA
T	c.1281G>A	c.(1279-1281)caG>caA
T	c.48C>T	c.(46-48)tcC>tcT
T		
A	c.1750G>A	c.(1750-1752)Gag>Aag
T		
A	c.2635G>A	c.(2635-2637)Gaa>Aaa

A	c.95C>T	c.(94-96)tCc>tTc
T	c.1241C>T	c.(1240-1242)tCg>tTg
A	c.5737C>T	c.(5737-5739)Cgc>Tgc
T	c.81C>T	c.(79-81)ttC>ttT
A	c.3057G>A	c.(3055-3057)gaG>gaA
T	c.3365G>A	c.(3364-3366)cGg>cAg
T	c.790_splice	c.e9+1
T	c.920C>T	c.(919-921)cCa>cTa
T	c.1217C>T	c.(1216-1218)tCc>tTc
T	c.34852C>T	
T	c.1104G>A	c.(1102-1104)gtG>gtA
T	c.1455G>A	c.(1453-1455)gaG>gaA
T	c.70G>T	c.(70-72)Gca>Tca
A	c.39C>T	c.(37-39)ttC>ttT
T	c.2037G>A	c.(2035-2037)gtG>gtA
T	c.399C>T	c.(397-399)atC>atT
A	c.165C>T	c.(163-165)agC>agT
T		
T	c.290G>A	c.(289-291)gGt>gAt
A	c.501G>A	c.(499-501)tgG>tgA
A		
A	c.15902C>T	c.(15901-15903)tCa>tTa
A	c.1050C>T	c.(1048-1050)ctC>ctT
A	c.253G>A	c.(253-255)Gga>Aga
T	c.382G>A	c.(382-384)Ggt>Agt
A	c.3363G>A	c.(3361-3363)agG>agA
T	c.2487C>T	c.(2485-2487)ctC>ctT
G	c.977C>G	c.(976-978)cCc>cGc
T	c.544C>T	c.(544-546)Ccc>Tcc
A	c.292G>A	c.(292-294)Gac>Aac
A	c.1870C>T	c.(1870-1872)Cgt>Tgt
A	c.551G>A	
C	c.229A>G	c.(229-231)Aag>Gag
A	c.1412_splice	c.e12-1
A	c.1017G>A	c.(1015-1017)gtG>gtA
T	c.486G>A	c.(484-486)ggG>ggA
A	c.125C>T	c.(124-126)tCc>tTc
T	c.2754C>T	c.(2752-2754)ttC>ttT
A	c.6972G>A	c.(6970-6972)tgG>tgA
A	c.208C>T	c.(208-210)Ccc>Tcc
T	c.2109G>A	c.(2107-2109)tgG>tgA
T	c.981C>T	c.(979-981)aaC>aaT
T	c.1169G>A	c.(1168-1170)cGa>cAa

T	c.99G>A	c.(97-99)ctG>ctA
A		
T	c.1154G>A	c.(1153-1155)cGa>cAa
T	c.1449C>T	c.(1447-1449)taC>taT
A	c.1031C>T	c.(1030-1032)tCg>tTg
A	c.1093C>T	c.(1093-1095)Cct>Tct
A	c.1544C>T	c.(1543-1545)tCc>tTc
T		
A	c.812C>T	c.(811-813)cCt>cTt
T	c.30G>A	c.(28-30)caG>caA
T	c.1488G>A	c.(1486-1488)gtG>gtA
A	c.2426C>A	c.(2425-2427)tCc>tAc
A	c.1225G>A	c.(1225-1227)Gac>Aac
A	c.1870C>T	c.(1870-1872)Cct>Tct
T	c.799G>T	c.(799-801)Gag>Tag
A	c.15C>T	c.(13-15)ctC>ctT
T	c.1360C>T	c.(1360-1362)Ccc>Tcc
T	c.1519C>T	c.(1519-1521)Ctt>Ttt
A	c.1347G>A	c.(1345-1347)gtG>gtA
A	c.95G>A	c.(94-96)gGa>gAa
A	c.861G>A	c.(859-861)cgG>cgA
A	c.979G>A	c.(979-981)Gag>Aag
A	c.5083C>T	c.(5083-5085)Cct>Tct
A	c.139_splice	c.e3+1
C	c.994A>G	c.(994-996)Atc>Gtc
T	c.801C>T	c.(799-801)atC>atT
A	c.613C>T	c.(613-615)Ctt>Ttt
T	c.574C>T	c.(574-576)Cat>Tat
T	c.1670C>T	c.(1669-1671)tCt>tTt
T		
A	c.1346C>T	c.(1345-1347)cCt>cTt
A	c.789G>A	c.(787-789)tgG>tgA
T	c.53474_splice	c.e3364-1
A	c.3315G>A	c.(3313-3315)ctG>ctA
T	c.99G>A	c.(97-99)acG>acA
A	c.974_splice	c.e4-1
A	c.663G>A	c.(661-663)ggG>ggA
A	c.564C>T	c.(562-564)ttC>ttT
T	c.462C>T	c.(460-462)ttC>ttT
A	c.330C>T	c.(328-330)atC>atT
T	c.1103C>T	c.(1102-1104)cCt>cTt
A	c.1457G>A	c.(1456-1458)aGg>aAg
T	c.322C>T	c.(322-324)Cca>Tca

G	c.1272A>G	c.(1270-1272)caA>caG
T	c.869C>T	c.(868-870)cCc>cTc
A	c.1436C>T	c.(1435-1437)gCc>gTc
T	c.2212C>T	c.(2212-2214)Cgt>Tgt
A	c.473_splice	c.e3-1
A		
T	c.472C>T	c.(472-474)Cca>Tca
A	c.392G>A	c.(391-393)gGa>gAa
T	c.3071G>A	
T	c.2708C>T	c.(2707-2709)tCc>tTc
T	c.654C>T	c.(652-654)tcC>tcT
T	c.106C>T	c.(106-108)Ctc>Ttc
A		
T	c.6357G>A	c.(6355-6357)acG>acA
A	c.1533C>A	c.(1531-1533)gtC>gtA
A	c.810G>A	c.(808-810)agG>agA
T	c.56868G>A	c.(56866-56868)ctG>ctA
T	c.456C>T	c.(454-456)ttC>ttT
A		
T		
A		
A	c.724C>T	
C		
A	c.170C>T	c.(169-171)cCc>cTc
T		
T		
T	c.7258G>A	c.(7258-7260)Gaa>Aaa
A	c.1858G>A	c.(1858-1860)Gac>Aac
A	c.818G>A	c.(817-819)cGa>cAa
T	c.1414G>A	c.(1414-1416)Ggt>Agt
T	c.1654G>A	c.(1654-1656)Gat>Aat
T	c.453G>A	c.(451-453)tgG>tgA
A		
A	c.661G>A	c.(661-663)Gaa>Aaa
T	c.1502C>T	c.(1501-1503)cCa>cTa
T	c.115C>T	c.(115-117)Cct>Tct
A	c.1150G>A	c.(1150-1152)Gaa>Aaa
T		
T	c.3707C>T	c.(3706-3708)cCc>cTc
A	c.524G>A	c.(523-525)gGa>gAa
A	c.638C>T	c.(637-639)cCc>cTc
A	c.89C>T	c.(88-90)cCg>cTg
T	c.1439C>T	c.(1438-1440)tCc>tTc

T	c.545C>T	c.(544-546)tCt>tTt
A	c.61C>T	c.(61-63)Cct>Tct
T	c.220G>A	c.(220-222)Gac>Aac
G	c.229A>G	c.(229-231)Aat>Gat
A		
T		
T	c.444C>T	c.(442-444)gtC>gtT
T	c.421C>T	c.(421-423)Ccg>Tcg
A	c.334C>T	c.(334-336)Cct>Tct
T	c.217G>A	c.(217-219)Gtg>Atg
A	c.180G>A	c.(178-180)gaG>gaA
A	c.1569_splice	c.e13-1
T	c.904G>A	c.(904-906)Gaa>Aaa
T	c.21C>T	c.(19-21)acC>acT
T	c.768G>A	c.(766-768)tgG>tgA
T	c.2162G>A	c.(2161-2163)aGa>aAa
A		
T	c.832C>T	c.(832-834)Caa>Taa
T	c.489C>T	c.(487-489)atC>atT
A	c.2287G>A	c.(2287-2289)Gaa>Aaa
A	c.1271G>A	c.(1270-1272)gGc>gAc
A	c.578C>T	c.(577-579)cCc>cTc
A	c.24838C>T	c.(24838-24840)Cct>Tct
G	c.2284A>G	c.(2284-2286)Aag>Gag
T	c.2026C>T	c.(2026-2028)Cgt>Tgt
T	c.446C>T	c.(445-447)cCa>cTa
T	c.422C>T	c.(421-423)tCc>tTc
A	c.3101G>A	c.(3100-3102)gGc>gAc
T	c.274G>A	c.(274-276)Gaa>Aaa
A	c.3204C>T	c.(3202-3204)gcC>gcT
T	c.911C>T	c.(910-912)tCg>tTg
T	c.996G>A	c.(994-996)gtG>gtA
A		
A	c.1344C>T	c.(1342-1344)gtC>gtT
A	c.7238C>T	c.(7237-7239)tCt>tTt
T	c.4036G>A	c.(4036-4038)Gac>Aac
T	c.1582C>T	c.(1582-1584)Cct>Tct
A		
A	c.1399G>A	c.(1399-1401)Gaa>Aaa
A		
T	c.3016C>T	c.(3016-3018)Cag>Tag
T	c.177G>A	c.(175-177)ggG>ggA
A	c.2514A>T	c.(2512-2514)gaA>gaT



A		
A	c.222G>T	c.(220-222)ggG>ggT
A	c.1219G>A	c.(1219-1221)Gag>Aag
A	c.739C>T	c.(739-741)Cca>Tca
T		
A	c.2074G>A	c.(2074-2076)Gga>Aga
A		
T	c.5021G>A	c.(5020-5022)aGa>aAa
A	c.86G>A	c.(85-87)aGg>aAg
G	c.150T>G	c.(148-150)gcT>gcG
T	c.3518G>A	c.(3517-3519)tGa>tAa
T	c.1007C>T	c.(1006-1008)tCa>tTa
A	c.286C>T	c.(286-288)Ctg>Ttg
A	c.16322C>T	c.(16321-16323)tCa>tTa
A	c.9501C>T	c.(9499-9501)ttC>ttT
A	c.2660T>A	c.(2659-2661)aTt>aAt
G	c.3541A>G	c.(3541-3543)Agc>Ggc
T	c.531C>T	c.(529-531)ccC>ccT
A		
A	c.3236G>A	c.(3235-3237)cGa>cAa
T	c.403G>A	c.(403-405)Gaa>Aaa
A	c.874G>A	c.(874-876)Gat>Aat
A	c.838G>A	c.(838-840)Gaa>Aaa
A		
A	c.2401G>A	c.(2401-2403)Gac>Aac
G	c.782T>C	c.(781-783)aTa>aCa
C	c.202G>C	c.(202-204)Gag>Cag
T	c.660C>T	c.(658-660)ttC>ttT
A		
A	c.139G>A	c.(139-141)Gaa>Aaa
T	c.14G>A	c.(13-15)gGg>gAg
A		
A		
T	c.554G>A	c.(553-555)gGa>gAa
A	c.4049C>T	c.(4048-4050)cCc>cTc
T	c.1095C>T	c.(1093-1095)tcC>tcT
A		
T		
A	c.7643G>A	c.(7642-7644)cGa>cAa
T	c.2602G>A	c.(2602-2604)Gaa>Aaa
T	c.504G>T	c.(502-504)aaG>aaT
T	c.1350G>A	c.(1348-1350)ttG>ttA

T	c.438G>A	c.(436-438)aaG>aaA
A	c.474G>A	c.(472-474)tgG>tgA
A	c.2652C>T	
A	c.1140C>T	c.(1138-1140)atC>atT
T		
A	c.524G>A	c.(523-525)cGg>cAg
A	c.1739C>T	c.(1738-1740)tCc>tTc
A	c.288C>T	c.(286-288)atC>atT
T		
T	c.945C>T	c.(943-945)ttC>ttT
A	c.1373C>T	c.(1372-1374)cCt>cTt
T	c.129G>A	c.(127-129)tgG>tgA
A	c.13692G>A	c.(13690-13692)tcG>tcA
A	c.3178C>T	c.(3178-3180)Cgt>Tgt
A	c.2226C>T	c.(2224-2226)tcC>tcT
G	c.-51_splice	c.e1-1
A	c.2931C>T	c.(2929-2931)ctC>ctT
T	c.157C>T	c.(157-159)Ctg>Ttg
A	c.5380G>A	c.(5380-5382)Gag>Aag
A	c.370G>A	c.(370-372)Gaa>Aaa
A		
A	c.1214C>T	c.(1213-1215)cCc>cTc
T	c.423C>T	c.(421-423)atC>atT
A		
A	c.1167G>A	c.(1165-1167)gaG>gaA
A	c.15C>T	c.(13-15)ttC>ttT
T		
T	c.1997C>T	c.(1996-1998)cCc>cTc
T	c.375C>T	c.(373-375)ccC>ccT
A	c.1017G>A	
A	c.1820C>T	c.(1819-1821)tCc>tTc
T		
T	c.216G>A	c.(214-216)caG>caA
T	c.1029C>T	c.(1027-1029)ttC>ttT
T	c.281C>T	c.(280-282)cCc>cTc
T	c.1125_splice	c.e4+1
T	c.598C>T	c.(598-600)Cct>Tct
T	c.18569C>T	c.(18568-18570)tCc>tTc
A		
T	c.975C>T	c.(973-975)tcC>tcT
G		
T	c.1947G>A	c.(1945-1947)ggG>ggA
T	c.548G>A	c.(547-549)cGg>cAg

A	c.627C>T	c.(625-627)ttC>ttT
A	c.1675C>T	c.(1675-1677)Cat>Tat
A	c.3243C>T	c.(3241-3243)ttC>ttT
T		
A	c.1497G>A	c.(1495-1497)agG>agA
A		
A	c.262G>A	c.(262-264)Gaa>Aaa
A	c.946C>T	c.(946-948)Cca>Tca
T	c.184C>T	c.(184-186)Cgt>Tgt
T	c.157G>A	c.(157-159)Gga>Aga
T	c.1177G>A	c.(1177-1179)Gac>Aac
T	c.1325C>T	c.(1324-1326)tCa>tTa
A	c.643C>T	c.(643-645)Ctc>Ttc
A	c.447C>T	c.(445-447)ttC>ttT
T	c.1086C>T	c.(1084-1086)ttC>ttT
T	c.871G>A	c.(871-873)Gat>Aat
A	c.1332C>T	c.(1330-1332)tcC>tcT
T		
A		
A	c.2395G>A	c.(2395-2397)Gaa>Aaa
T	c.767G>A	c.(766-768)gGa>gAa
A	c.3498C>T	c.(3496-3498)tcC>tcT
T		
A	c.300C>T	c.(298-300)ctC>ctT
A	c.361C>T	c.(361-363)Ctt>Ttt
T	c.386C>T	c.(385-387)tCc>tTc
A		
A	c.432G>A	c.(430-432)ggG>ggA
T	c.768_splice	c.e3+1
T	c.1491G>A	c.(1489-1491)ttG>ttA
T		
A		
A		
T	c.11738C>T	c.(11737-11739)aCc>aTc
T	c.5827C>T	c.(5827-5829)Cca>Tca
A	c.2041C>T	c.(2041-2043)Cgc>Tgc
A		
A	c.191C>T	c.(190-192)cCt>cTt
T		
T	c.805C>T	c.(805-807)Cta>Tta
A	c.170C>T	c.(169-171)gCt>gTt
A	c.35G>A	c.(34-36)gGg>gAg
A	c.1309G>T	c.(1309-1311)Gag>Tag

A		
A	c.183G>A	c.(181-183)aaG>aaA
A	c.345A>T	c.(343-345)caA>caT
A	c.1446G>A	c.(1444-1446)ggG>ggA
A	c.1553C>T	c.(1552-1554)cCg>cTg
T	c.1629C>T	c.(1627-1629)ttC>ttT
T	c.370G>A	c.(370-372)Gac>Aac
A		
A		
T	c.1384C>T	c.(1384-1386)Cgc>Tgc
T	c.822G>A	c.(820-822)caG>caA
A	c.44G>A	c.(43-45)aGg>aAg
A	c.1870G>A	c.(1870-1872)Gag>Aag
T	c.2046C>T	c.(2044-2046)ttC>ttT
A	c.420G>A	c.(418-420)gtG>gtA
A	c.3729C>T	c.(3727-3729)gcC>gcT
A	c.1125C>A	c.(1123-1125)tcC>tcA
A	c.187G>A	c.(187-189)Gga>Aga
T	c.61C>T	c.(61-63)Cgg>Tgg
T	c.118G>A	c.(118-120)Gga>Aga
A		
T	c.819C>T	c.(817-819)atC>atT
A		
A	c.1189C>T	c.(1189-1191)Cag>Tag
A		
T	c.1250G>A	c.(1249-1251)gGa>gAa
T	c.3286C>T	c.(3286-3288)Cct>Tct
T	c.5239G>A	c.(5239-5241)Ggg>Agg
T	c.962C>T	c.(961-963)cCc>cTc
A	c.957C>A	c.(955-957)acC>acA
A	c.472C>T	c.(472-474)Ccg>Tcg
A		
T	c.121G>A	c.(121-123)Gaa>Aaa
A	c.3714C>T	c.(3712-3714)caC>caT
T	c.3476C>T	c.(3475-3477)tCc>tTc
A		
T	c.160C>T	c.(160-162)Cgt>Tgt
T	c.546C>T	c.(544-546)ttC>ttT
T	c.555C>T	c.(553-555)atC>atT
A	c.1440G>A	c.(1438-1440)ctG>ctA
A	c.991C>T	c.(991-993)Cca>Tca
T	c.542C>T	c.(541-543)tCg>tTg
A	c.165_splice	c.e3-1

A	c.1865_splice	c.e14-1
T	c.3794_splice	c.e15-1
A	c.38G>A	c.(37-39)tGg>tAg
T	c.2968G>A	c.(2968-2970)Ggc>Agc
A	c.4884_splice	c.e18+1
A	c.931C>T	c.(931-933)Cct>Tct
A	c.274G>A	c.(274-276)Gga>Aga
T	c.711G>A	c.(709-711)gtG>gtA
T	c.3922G>A	c.(3922-3924)Ggc>Agc
T	c.433G>A	c.(433-435)Gcc>Acc
T		
T		
T	c.434C>T	c.(433-435)tCt>tTt
T	c.331C>T	c.(331-333)Cgc>Tgc
A	c.174C>T	c.(172-174)ccC>ccT
T	c.179C>T	c.(178-180)cCc>cTc
C	c.713T>C	c.(712-714)aTg>aCg
T	c.2161C>T	c.(2161-2163)Ctc>Ttc
G	c.487T>G	c.(487-489)Tta>Gta
A	c.265G>A	c.(265-267)Gag>Aag
A	c.607G>A	c.(607-609)Gaa>Aaa
A	c.110C>T	c.(109-111)cCc>cTc
T	c.2042C>A	c.(2041-2043)cCg>cAg
T	c.2679G>A	c.(2677-2679)gaG>gaA
A	c.1583C>T	c.(1582-1584)cCt>cTt
T	c.355G>A	c.(355-357)Gaa>Aaa
A	c.2049G>T	c.(2047-2049)ctG>ctT
A	c.975C>T	c.(973-975)gtC>gtT
A	c.3190G>A	c.(3190-3192)Gga>Aga
A	c.2752C>T	c.(2752-2754)Cct>Tct
A	c.286G>A	c.(286-288)Gga>Aga
A	c.3523C>T	
A	c.1099T>A	c.(1099-1101)Ttg>Atg
A	c.3013C>T	c.(3013-3015)Ctt>Ttt
T		
A	c.1116C>T	c.(1114-1116)atC>atT
T	c.521G>A	c.(520-522)gGa>gAa
A	c.248C>T	c.(247-249)tCc>tTc
A	c.1790C>T	c.(1789-1791)tCc>tTc
A	c.1052C>T	c.(1051-1053)cCc>cTc
A	c.1376C>T	c.(1375-1377)tCc>tTc
A	c.358G>A	c.(358-360)Gag>Aag
A	c.1794C>T	c.(1792-1794)atC>atT

T		
T	c.550G>A	c.(550-552)Gaa>Aaa
T	c.874C>T	c.(874-876)Cct>Tct
A	c.1074G>A	c.(1072-1074)aaG>aaA
A		
A	c.1196G>A	c.(1195-1197)tGg>tAg
T	c.245C>T	c.(244-246)tCc>tTc
A	c.9564C>T	c.(9562-9564)ttC>ttT
T	c.1293C>T	c.(1291-1293)acC>acT
C		
A		
A		
T	c.5815G>A	c.(5815-5817)Gag>Aag
T	c.709C>T	c.(709-711)Cat>Tat
A	c.603C>T	c.(601-603)atC>atT
G	c.1621A>C	c.(1621-1623)Aac>Cac
A	c.1404C>T	c.(1402-1404)gaC>gaT
A	c.793G>A	c.(793-795)Gga>Aga
T	c.3815G>A	c.(3814-3816)gGg>gAg
A	c.2597C>T	c.(2596-2598)tCg>tTg
T	c.156C>T	c.(154-156)ccC>ccT
T	c.799C>T	c.(799-801)Ctt>Ttt
A		
T		
T	c.2108G>A	c.(2107-2109)tGg>tAg
A	c.423G>A	c.(421-423)cgG>cgA
T	c.1222G>A	c.(1222-1224)Gac>Aac
C		
T	c.2946C>T	c.(2944-2946)atC>atT
T		
T	c.686G>A	c.(685-687)aGa>aAa
T	c.1305C>T	c.(1303-1305)ttC>ttT
A	c.843C>T	c.(841-843)ccC>ccT
T	c.720G>A	c.(718-720)agG>agA
A	c.858C>T	c.(856-858)ttC>ttT
A	c.210_splice	c.e2+1
A		
A	c.585C>T	c.(583-585)atC>atT
A	c.1707C>T	c.(1705-1707)ttC>ttT
T	c.2803C>T	c.(2803-2805)Cga>Tga
A	c.632C>T	c.(631-633)cCa>cTa
A		
A		

A	c.1730G>A	c.(1729-1731)gGa>gAa
T	c.715C>T	c.(715-717)Cca>Tca
T	c.1243C>T	c.(1243-1245)Cca>Tca
A	c.260C>T	c.(259-261)cCc>cTc
T	c.2323C>T	c.(2323-2325)Cat>Tat
T	c.76898G>A	c.(76897-76899)tGg>tAg
A	c.126G>A	c.(124-126)gtG>gtA
A	c.1496C>T	c.(1495-1497)tCt>tTt
A	c.311C>T	c.(310-312)tCc>tTc
A	c.2944C>T	c.(2944-2946)Cga>Tga
T	c.340C>T	c.(340-342)Ctg>Ttg
A	c.5211C>T	c.(5209-5211)tcC>tcT
A	c.4320G>A	c.(4318-4320)tgG>tgA
A	c.1427_splice	c.e7-1
A	c.522C>T	c.(520-522)aaC>aaT
A		
A	c.2561G>A	c.(2560-2562)aGg>aAg
A		
T	c.1012C>T	c.(1012-1014)Cta>Tta
T		
T	c.1727C>T	c.(1726-1728)cCc>cTc
T	c.199G>A	c.(199-201)Gag>Aag
T	c.2202C>T	c.(2200-2202)atC>atT
A		
C	c.31T>G	c.(31-33)Tgc>Ggc
A	c.3167C>T	c.(3166-3168)tCc>tTc
A	c.1037C>T	c.(1036-1038)gCt>gTt
T	c.7184C>T	c.(7183-7185)cCt>cTt
T	c.816C>T	c.(814-816)atC>atT
T	c.49C>T	c.(49-51)Ccc>Tcc
T	c.269C>T	c.(268-270)cCc>cTc
T	c.1116C>T	c.(1114-1116)atC>atT
A		
T	c.75C>T	c.(73-75)tcC>tcT
G	c.3561T>G	c.(3559-3561)tcT>tcG
T		
A	c.86G>T	c.(85-87)tGc>tTc
A	c.204C>T	c.(202-204)tcC>tcT
T	c.-33_splice	c.e1-1
T	c.5191C>T	
T		
C	c.356A>G	c.(355-357)aAg>aGg
A	c.563_splice	c.e5+1

A	c.3260G>A	c.(3259-3261)gGg>gAg
T	c.551C>T	c.(550-552)cCc>cTc
T	c.228G>A	c.(226-228)aaG>aaA
T	c.273C>T	c.(271-273)atC>atT
A	c.626C>T	c.(625-627)cCg>cTg
T	c.873C>T	c.(871-873)ttC>ttT
T	c.531G>A	c.(529-531)agG>agA
A		
T	c.505C>T	c.(505-507)Cgt>Tgt
T		
A	c.999G>A	c.(997-999)gaG>gaA
T	c.1109C>A	c.(1108-1110)tCt>tAt
T	c.168G>A	c.(166-168)acG>acA
A	c.1242G>A	c.(1240-1242)ctG>ctA
A	c.698C>T	c.(697-699)tCc>tTc
A	c.546C>T	c.(544-546)ttC>ttT
T	c.3372C>T	c.(3370-3372)tcC>tcT
T	c.3653G>A	c.(3652-3654)aGa>aAa
A	c.9145G>A	c.(9145-9147)Gag>Aag
A		
A	c.21277C>T	c.(21277-21279)Ccc>Tcc
T		
A	c.316G>A	c.(316-318)Gat>Aat
T	c.426G>A	c.(424-426)ggG>ggA
T	c.5250G>A	c.(5248-5250)agG>agA
A		
T	c.2055_splice	c.e22-1
A	c.289C>T	c.(289-291)Cag>Tag
T	c.590G>T	c.(589-591)gGa>gTa
A	c.1342C>T	c.(1342-1344)Ccg>Tcg
T	c.278G>A	c.(277-279)gGa>gAa
T	c.951G>T	c.(949-951)ctG>ctT
A	c.1923C>T	c.(1921-1923)ttC>ttT
G		
A	c.1051C>T	c.(1051-1053)Ccc>Tcc
T	c.2303C>T	c.(2302-2304)tCc>tTc
T	c.16C>T	c.(16-18)Cgc>Tgc
A	c.3028C>T	c.(3028-3030)Cgc>Tgc
A		
T	c.94C>T	c.(94-96)Cca>Tca
C	c.3627A>G	
T	c.3806G>A	c.(3805-3807)cGc>cAc
T	c.114G>A	c.(112-114)aaG>aaA



T		
T	c.535T>A	c.(535-537)Tac>Aac
T	c.13570G>A	c.(13570-13572)Gat>Aat
A	c.606C>T	c.(604-606)tcC>tcT
T	c.507C>T	c.(505-507)tcC>tcT
T		
T	c.3745G>A	c.(3745-3747)Gaa>Aaa
A	c.457C>T	c.(457-459)Cat>Tat
A	c.1181G>A	c.(1180-1182)gGg>gAg
A	c.582G>A	c.(580-582)aaG>aaA
A	c.1717C>T	c.(1717-1719)Cga>Tga
T	c.31332G>A	c.(31330-31332)gaG>gaA
T	c.197C>T	c.(196-198)tCg>tTg
A	c.11700C>T	c.(11698-11700)gcC>gcT
T		
A	c.11300C>T	c.(11299-11301)tCc>tTc
A	c.929G>T	c.(928-930)aGg>aTg
T	c.282G>A	c.(280-282)acG>acA
T	c.87C>T	c.(85-87)taC>taT
A	c.410C>T	c.(409-411)tCc>tTc
T	c.988G>A	c.(988-990)Gat>Aat
T	c.1106C>T	c.(1105-1107)cCc>cTc
A	c.843G>A	c.(841-843)tcG>tcA
A	c.3481C>T	c.(3481-3483)Ctt>Ttt
A	c.535C>T	c.(535-537)Cca>Tca
T		
A	c.1378C>T	c.(1378-1380)Ccg>Tcg
A		
T	c.3784C>T	c.(3784-3786)Ctt>Ttt
A	c.2054C>T	c.(2053-2055)cCa>cTa
T	c.1672G>A	c.(1672-1674)Gaa>Aaa
T	c.814C>T	c.(814-816)Cct>Tct
A	c.871_splice	c.e11-1
T	c.544C>T	c.(544-546)Cag>Tag
T	c.384G>A	c.(382-384)aaG>aaA
T	c.2924C>T	c.(2923-2925)gCc>gTc
G		
T	c.574C>T	
T	c.915G>A	c.(913-915)gaG>gaA
A	c.7546_splice	c.e11+1
A		
A	c.1803G>A	c.(1801-1803)gtG>gtA
T	c.3719C>T	c.(3718-3720)cCa>cTa

A	c.373_splice	c.e8-1
A	c.620C>T	c.(619-621)cCc>cTc
T	c.756C>T	c.(754-756)ttC>ttT
T	c.2395C>T	c.(2395-2397)Ctg>Ttg
T	c.2016C>T	c.(2014-2016)taC>taT
T	c.415G>A	c.(415-417)Gaa>Aaa
T		
A	c.1728G>A	c.(1726-1728)agG>agA
T	c.1969A>T	c.(1969-1971)Aac>Tac
A		
T	c.322G>T	c.(322-324)Gag>Tag
A	c.676G>T	c.(676-678)Gag>Tag
T	c.1106G>T	c.(1105-1107)aGg>aTg
A		
T		
T	c.150C>T	c.(148-150)gtC>gtT
A	c.91G>A	c.(91-93)Gaa>Aaa
T	c.1703C>T	c.(1702-1704)tCt>tTt
A	c.895C>T	c.(895-897)Ccc>Tcc
T	c.1441G>A	c.(1441-1443)Gaa>Aaa
T	c.1823G>A	c.(1822-1824)gGa>gAa
A	c.1255C>T	c.(1255-1257)Ctt>Ttt
T	c.1373C>T	c.(1372-1374)tCa>tTa
A	c.2823C>T	c.(2821-2823)ttC>ttT
C		
T	c.223C>A	c.(223-225)Ctg>Atg
A	c.3056G>A	c.(3055-3057)gGa>gAa
T		
A	c.171G>T	c.(169-171)gaG>gaT
T	c.1231A>T	c.(1231-1233)Aga>Tga
A	c.3403C>T	c.(3403-3405)Cgg>Tgg
A	c.1028C>T	c.(1027-1029)cCa>cTa
C	c.1983A>G	c.(1981-1983)aaA>aaG
T	c.1855C>T	c.(1855-1857)Cag>Tag
T		
A	c.2262G>A	c.(2260-2262)cgG>cgA
T	c.1381C>T	c.(1381-1383)Cct>Tct
A	c.1115G>A	c.(1114-1116)gGa>gAa
T	c.352G>A	c.(352-354)Ggg>Agg
A		
T	c.1802C>T	c.(1801-1803)cCa>cTa
A	c.893G>A	c.(892-894)cGg>cAg

A	c.220C>T	c.(220-222)Cct>Tct
T		
A	c.1953G>A	c.(1951-1953)acG>acA
A		
T	c.2496G>A	c.(2494-2496)ggG>ggA
A	c.393C>T	c.(391-393)tcC>tcT
T	c.230G>A	c.(229-231)gGg>gAg
T	c.1025C>T	c.(1024-1026)cCc>cTc
A	c.1821G>A	c.(1819-1821)ggG>ggA
T		
T	c.694C>T	c.(694-696)Cct>Tct
A		
T	c.615G>A	c.(613-615)caG>caA
T	c.732C>T	c.(730-732)acC>acT
A	c.2471C>T	c.(2470-2472)cCc>cTc
T	c.1430C>T	c.(1429-1431)tCt>tTt
T	c.1241C>T	c.(1240-1242)tCg>tTg
A	c.930C>T	c.(928-930)gcC>gcT
T	c.385G>A	c.(385-387)Gag>Aag
T	c.10884C>T	c.(10882-10884)atC>atT
T	c.578C>T	c.(577-579)tCt>tTt
A	c.1729G>A	c.(1729-1731)Gtg>Atg
A	c.389T>A	c.(388-390)aTt>aAt
A	c.17G>A	c.(16-18)gGg>gAg
T	c.1153C>T	c.(1153-1155)Cta>Tta
T	c.2614C>T	c.(2614-2616)Cgg>Tgg
T		
T	c.352C>T	c.(352-354)Cag>Tag
T		
A	c.789C>T	c.(787-789)ttC>ttT
A		
T	c.683C>T	c.(682-684)cCg>cTg
T	c.615G>A	c.(613-615)gtG>gtA
A	c.240C>T	c.(238-240)ttC>ttT
A		
A	c.278G>A	c.(277-279)gGg>gAg
G	c.5208A>G	c.(5206-5208)ggA>ggG
A		
A	c.220G>A	c.(220-222)Gtc>Atc
T	c.930C>T	c.(928-930)tcC>tcT
A	c.2318T>A	c.(2317-2319)tTt>tAt
C	c.3949T>C	c.(3949-3951)Tta>Cta
T		

T		
A	c.477C>T	c.(475-477)gtC>gtT
T	c.211C>T	c.(211-213)Ccg>Tcg
A	c.3236C>T	c.(3235-3237)tCc>tTc
T	c.1537C>T	c.(1537-1539)Cga>Tga
A		
A	c.21G>A	c.(19-21)tcG>tcA
T		
T	c.1599C>T	c.(1597-1599)tcC>tcT
T	c.1323C>T	c.(1321-1323)ctC>ctT
T	c.357C>T	c.(355-357)ttC>ttT
T	c.1311C>T	c.(1309-1311)ccC>ccT
A	c.2317G>A	c.(2317-2319)Gat>Aat
T	c.668C>T	c.(667-669)cCt>cTt
T		
T		
T	c.643G>A	c.(643-645)Gat>Aat
G	c.540A>G	c.(538-540)acA>acG
T		
A		
A	c.1780C>T	c.(1780-1782)Cgt>Tgt
T	c.1916G>A	c.(1915-1917)gGa>gAa
A	c.324C>T	c.(322-324)tcC>tcT
C		
T	c.1489C>T	c.(1489-1491)Ccc>Tcc
T		
A		
T	c.1896G>A	
A	c.898C>T	c.(898-900)Ctt>Ttt
T	c.1152C>T	c.(1150-1152)ccC>ccT
T		
A	c.2141G>A	c.(2140-2142)gGg>gAg
A	c.762G>A	c.(760-762)atG>atA
T		
A		
T	c.469C>A	c.(469-471)Cag>Aag
T	c.2957G>A	c.(2956-2958)gGa>gAa
C	c.694T>G	c.(694-696)Tcc>Gcc
A	c.1840G>A	c.(1840-1842)Gag>Aag
T	c.1302G>A	c.(1300-1302)gtG>gtA
T		
T		
G	c.440A>G	c.(439-441)tAt>tGt

C	c.131A>C	c.(130-132)aAa>aCa
A	c.328G>A	c.(328-330)Gag>Aag
T	c.9363C>T	c.(9361-9363)atC>atT
A	c.2119_splice	c.e9+1
T	c.34G>A	c.(34-36)Gac>Aac
T	c.439G>A	c.(439-441)Gga>Aga
T	c.560G>A	c.(559-561)gGc>gAc
A	c.613G>A	c.(613-615)Ggg>Agg
A	c.87G>A	c.(85-87)agG>agA
A	c.364G>A	c.(364-366)Gat>Aat
T	c.1490C>T	c.(1489-1491)cCc>cTc
T	c.2040G>A	c.(2038-2040)atG>atA
T		
A	c.587T>A	c.(586-588)aTg>aAg
A	c.1596C>T	c.(1594-1596)gtC>gtT
T	c.1325C>T	c.(1324-1326)tCt>tTt
T	c.1113C>T	c.(1111-1113)gcC>gcT
T	c.412_splice	c.e3-1
T	c.37C>T	c.(37-39)Ccc>Tcc
T	c.1126C>T	c.(1126-1128)Cat>Tat
T	c.117G>A	c.(115-117)cgG>cgA
A	c.1511G>A	c.(1510-1512)tGg>tAg
T	c.6179C>T	c.(6178-6180)gCc>gTc
A	c.238C>A	c.(238-240)Cct>Act
T	c.1583C>T	c.(1582-1584)cCa>cTa
T	c.1507G>A	c.(1507-1509)Gaa>Aaa
T	c.289G>A	c.(289-291)Ggt>Agt
T	c.573C>T	c.(571-573)tgC>tgT
G		
A	c.2074C>T	c.(2074-2076)Cga>Tga
T	c.1003G>A	c.(1003-1005)Gac>Aac
T	c.208_splice	c.e3-1
A	c.956G>A	c.(955-957)cGg>cAg
T	c.1399G>A	c.(1399-1401)Gat>Aat
A	c.1540C>T	c.(1540-1542)Cct>Tct
A	c.2058C>T	c.(2056-2058)ctC>ctT
A		
A	c.620G>A	c.(619-621)gGa>gAa
T	c.667G>A	c.(667-669)Gga>Aga
T		
A	c.937T>A	c.(937-939)Tct>Act
T	c.299C>T	c.(298-300)cCc>cTc
T	c.548C>T	c.(547-549)tCc>tTc

A		
A	c.190G>A	c.(190-192)Gac>Aac
A		
T	c.402C>T	c.(400-402)acC>acT
C	c.215T>C	c.(214-216)cTg>cCg
A	c.4035G>A	c.(4033-4035)atG>atA
T	c.552C>T	c.(550-552)ccC>ccT
A		
G	c.1551A>G	c.(1549-1551)gaA>gaG
A	c.4536G>A	c.(4534-4536)ctG>ctA
A	c.1975C>T	c.(1975-1977)Cca>Tca
T	c.1300C>T	c.(1300-1302)Cag>Tag
A	c.3504G>A	c.(3502-3504)gaG>gaA
T	c.364C>T	c.(364-366)Cag>Tag
T		
T	c.756C>T	c.(754-756)atC>atT
T	c.1418C>T	c.(1417-1419)cCg>cTg
A	c.2138G>A	c.(2137-2139)gGg>gAg
A	c.2289C>T	c.(2287-2289)ttC>ttT
A	c.909C>T	c.(907-909)gcC>gcT
T	c.261G>A	c.(259-261)ggG>ggA
T	c.1870C>T	c.(1870-1872)Ctg>Ttg
T	c.2488C>T	c.(2488-2490)Cca>Tca
T		
A	c.515C>T	c.(514-516)cCc>cTc
A	c.529T>A	
T	c.47C>T	c.(46-48)cCc>cTc
T	c.424C>T	c.(424-426)Cct>Tct
A	c.431C>T	
T	c.351C>T	c.(349-351)ttC>ttT
G		
A	c.794C>T	c.(793-795)cCc>cTc
A	c.709C>T	c.(709-711)Ccc>Tcc
A	c.1310G>A	c.(1309-1311)gGa>gAa
A	c.1365G>A	c.(1363-1365)aaG>aaA
T	c.3234C>T	c.(3232-3234)atC>atT
C	c.201C>G	c.(199-201)gcC>gcG
T	c.1406G>A	c.(1405-1407)gGa>gAa
G	c.563T>C	c.(562-564)cTa>cCa
A	c.49_splice	c.e2-1
T	c.3777C>T	c.(3775-3777)atC>atT
T	c.1243C>T	c.(1243-1245)Ctt>Ttt
A	c.651C>T	c.(649-651)ccC>ccT

A	c.1546C>T	c.(1546-1548)Cct>Tct
T	c.103C>T	c.(103-105)Caa>Taa
T	c.616G>A	c.(616-618)Gat>Aat
C		
A	c.2754G>A	c.(2752-2754)gtG>gtA
A	c.3222G>A	c.(3220-3222)ggG>ggA
A		
A	c.2768C>T	
T	c.133C>T	c.(133-135)Ccc>Tcc
A	c.3738G>A	c.(3736-3738)aaG>aaA
T		
T	c.550C>T	c.(550-552)Cat>Tat
T	c.45G>A	c.(43-45)ctG>ctA
A	c.256C>T	c.(256-258)Ctg>Ttg
A		
T	c.4285G>A	c.(4285-4287)Gga>Aga
A	c.23G>A	c.(22-24)cGa>cAa
A	c.1896C>T	c.(1894-1896)atC>atT
T	c.919C>T	c.(919-921)Cta>Tta
A	c.1396C>T	c.(1396-1398)Cca>Tca
A	c.1780C>T	c.(1780-1782)Ctg>Ttg
A		
A	c.389C>T	c.(388-390)cCc>cTc
A	c.500C>T	c.(499-501)cCc>cTc
A	c.353C>T	c.(352-354)tCc>tTc
T		
G	c.3043T>G	c.(3043-3045)Tct>Gct
T	c.1749C>T	c.(1747-1749)atC>atT
A		
C	c.13271A>C	c.(13270-13272)aAg>aCg
T		
T	c.2273C>T	c.(2272-2274)tCt>tTt
A	c.1172C>T	c.(1171-1173)tCc>tTc
C	c.2023C>G	c.(2023-2025)Ccc>Gcc
C	c.305T>G	c.(304-306)cTc>cGc
T		
A	c.407G>A	c.(406-408)gGa>gAa
A	c.2437C>T	c.(2437-2439)Cag>Tag
A	c.3124G>A	c.(3124-3126)Ggc>Agc
T	c.243G>A	c.(241-243)acG>acA
T	c.1625C>T	c.(1624-1626)tCc>tTc
A	c.816G>A	c.(814-816)aaG>aaA
T	c.765C>T	c.(763-765)gcC>gcT

T	c.387G>A	c.(385-387)ctG>ctA
T		
A		
A	c.258C>T	c.(256-258)gtC>gtT
A		
T		
A	c.6726G>A	c.(6724-6726)ggG>ggA
C	c.100C>G	c.(100-102)Cca>Gca
T	c.1239_splice	c.e13-1
A	c.207C>T	c.(205-207)atC>atT
A	c.2214G>A	c.(2212-2214)atG>atA
T	c.679C>T	c.(679-681)Ctc>Ttc
T	c.7960G>A	c.(7960-7962)Gag>Aag
A	c.3293C>T	c.(3292-3294)tCc>tTc
T	c.1182C>T	c.(1180-1182)ccC>ccT
A	c.7701A>T	c.(7699-7701)gaA>gaT
A		
T	c.100_splice	c.e3-1
A		
A	c.444C>T	c.(442-444)gcC>gcT
A		
A	c.1739C>T	c.(1738-1740)cCg>cTg
A	c.217G>A	c.(217-219)Gga>Aga
C	c.1438T>C	c.(1438-1440)Tcc>Ccc
A	c.1546G>A	c.(1546-1548)Ggg>Agg
T		
A	c.1366C>T	c.(1366-1368)Cat>Tat
T	c.909G>T	c.(907-909)tgG>tgT
A	c.1290G>A	c.(1288-1290)ggG>ggA
A	c.1620C>T	c.(1618-1620)ttC>ttT
T	c.1732C>T	c.(1732-1734)Ccg>Tcg
T		
T	c.256G>A	c.(256-258)Gag>Aag
A	c.520G>A	c.(520-522)Gat>Aat
T	c.118G>A	c.(118-120)Gag>Aag
A	c.124G>A	c.(124-126)Gaa>Aaa
A	c.10472G>A	c.(10471-10473)gGg>gAg
A	c.1375C>T	c.(1375-1377)Ctg>Ttg
T	c.875C>T	c.(874-876)cCc>cTc
A	c.2762C>T	c.(2761-2763)cCc>cTc
T	c.178G>A	c.(178-180)Gac>Aac
A	c.304G>A	c.(304-306)Gaa>Aaa
C	c.164A>G	c.(163-165)aAg>aGg



A	c.7690C>T	c.(7690-7692)Cag>Tag
A	c.1149C>T	c.(1147-1149)atC>atT
A	c.1462G>A	c.(1462-1464)Gag>Aag
C	c.4619A>G	c.(4618-4620)gAa>gGa
T	c.1978C>T	c.(1978-1980)Cct>Tct
A	c.816G>A	c.(814-816)ggG>ggA
T		
A		
T	c.2100C>T	c.(2098-2100)tcC>tcT
T	c.1165G>A	c.(1165-1167)Gaa>Aaa
A		
T	c.1245C>T	c.(1243-1245)ccC>ccT
C	c.3233T>C	c.(3232-3234)tTt>tCt
A	c.833G>A	c.(832-834)cGa>cAa
T	c.2796C>T	c.(2794-2796)acC>acT
A	c.93G>A	c.(91-93)aaG>aaA
T	c.2278A>T	c.(2278-2280)Ata>Tta
T	c.838G>A	c.(838-840)Gat>Aat
A	c.90G>A	c.(88-90)atG>atA
A	c.1865C>T	c.(1864-1866)cCc>cTc
T		
A	c.2448C>T	c.(2446-2448)ctC>ctT
G	c.936A>G	c.(934-936)aaA>aaG
A	c.84C>T	c.(82-84)ttC>ttT
A		
T	c.1402G>A	c.(1402-1404)Gaa>Aaa
T	c.343G>A	c.(343-345)Gaa>Aaa
T	c.30C>T	c.(28-30)ctC>ctT
A	c.871G>A	c.(871-873)Gat>Aat
C	c.6178A>G	c.(6178-6180)Ata>Gta
A	c.780C>T	c.(778-780)ctC>ctT
C	c.2427T>C	c.(2425-2427)caT>caC
T	c.285G>A	c.(283-285)gaG>gaA
T	c.635C>T	c.(634-636)tCg>tTg
T	c.28095G>A	c.(28093-28095)atG>atA
T	c.19386G>A	c.(19384-19386)ccG>ccA
T	c.300G>A	c.(298-300)gcG>gcA
A	c.885G>A	c.(883-885)cgG>cgA
G		
T	c.129_splice	c.e2-1
A	c.443C>T	c.(442-444)tCa>tTa
T	c.1141G>A	c.(1141-1143)Gaa>Aaa
A	c.274G>A	c.(274-276)Gag>Aag

T	c.2854C>T	c.(2854-2856)Ctg>Ttg
T	c.7014C>T	c.(7012-7014)ttC>ttT
G	c.279T>C	c.(277-279)gtT>gtC
T	c.2187C>T	c.(2185-2187)ctC>ctT
T		
T	c.735C>T	c.(733-735)gtC>gtT
T	c.583C>T	c.(583-585)Cag>Tag
A	c.4365C>T	c.(4363-4365)tcC>tcT
T	c.2092G>A	c.(2092-2094)Gag>Aag
A	c.907_splice	c.e9+1
G	c.390C>G	c.(388-390)ttC>ttG
G	c.1700A>C	c.(1699-1701)aAg>aGg
A	c.1887_splice	c.e15+1
G		
A	c.290G>A	c.(289-291)gGa>gAa
A		
C	c.2796A>C	c.(2794-2796)caA>caC
A	c.1234C>T	c.(1234-1236)Cga>Tga
T	c.1502C>T	c.(1501-1503)tCc>tTc
A	c.1123G>A	c.(1123-1125)Gaa>Aaa
C	c.1750G>C	c.(1750-1752)Gac>Cac
A	c.639G>A	c.(637-639)atG>atA
G	c.2422A>C	c.(2422-2424)Ata>Cta
A	c.1550T>A	c.(1549-1551)tTc>tAc
A	c.345C>T	
A	c.1770G>A	c.(1768-1770)caG>caA
T	c.1845G>T	c.(1843-1845)gtG>gtT
T	c.9716C>T	c.(9715-9717)cCc>cTc
T	c.1752C>T	c.(1750-1752)atC>atT
A		
A	c.734C>T	c.(733-735)gCc>gTc
T	c.1350G>A	c.(1348-1350)agG>agA
G	c.2947A>G	c.(2947-2949)Acc>Gcc
A	c.135C>T	c.(133-135)atC>atT
A	c.1843G>A	c.(1843-1845)Gat>Aat
T	c.953C>T	c.(952-954)tCa>tTa
A	c.3235C>T	c.(3235-3237)Ctc>Ttc
T	c.1189G>A	c.(1189-1191)Gaa>Aaa
A	c.1465G>A	c.(1465-1467)Gag>Aag
T	c.748_splice	c.e8-1
T	c.4834C>T	c.(4834-4836)Cct>Tct
A		
C	c.1793A>G	c.(1792-1794)aAg>aGg

T	c.574C>T	c.(574-576)Ctt>Ttt
A	c.2892G>A	c.(2890-2892)ctG>ctA
C	c.3233T>G	c.(3232-3234)gTg>gGg
A	c.520G>A	c.(520-522)Gat>Aat
T	c.577C>A	c.(577-579)Cac>Aac
A	c.2270_splice	c.e20+1
C	c.11A>G	c.(10-12)gAa>gGa
A	c.320C>T	c.(319-321)cCg>cTg
T	c.1117C>T	c.(1117-1119)Ctg>Ttg
T	c.2026G>A	c.(2026-2028)Gaa>Aaa
A	c.897G>A	c.(895-897)agG>agA
T	c.267C>T	c.(265-267)ttC>ttT
A	c.4811_splice	c.e12+1
A		
A	c.556C>T	c.(556-558)Cat>Tat
T		
T	c.846C>A	c.(844-846)caC>caA
T	c.138G>A	c.(136-138)aaG>aaA
A		
T		
A	c.2691G>A	c.(2689-2691)aaG>aaA
A	c.898G>T	c.(898-900)Ggg>Tgg
T	c.486C>T	c.(484-486)gtC>gtT
A	c.161G>A	c.(160-162)cGg>cAg
T	c.2077C>T	c.(2077-2079)Cag>Tag
T	c.1408C>T	c.(1408-1410)Cct>Tct
A	c.154G>A	c.(154-156)Ggg>Agg
T	c.592G>A	c.(592-594)Gaa>Aaa
A	c.422G>A	c.(421-423)cGg>cAg
T	c.424G>A	c.(424-426)Gat>Aat
A	c.1415C>T	c.(1414-1416)cCc>cTc
T	c.229G>A	c.(229-231)Gga>Aga
A	c.955G>A	c.(955-957)Gag>Aag
T	c.1015_splice	c.e11+1
G	c.153T>G	c.(151-153)ctT>ctG
A	c.8981C>T	c.(8980-8982)tCc>tTc
A	c.326C>T	c.(325-327)tCc>tTc
T	c.1198G>A	c.(1198-1200)Gaa>Aaa
T	c.279G>A	c.(277-279)gaG>gaA
T	c.360_splice	c.e3+1
T	c.1158C>T	c.(1156-1158)gcC>gcT
A	c.1401G>A	c.(1399-1401)ctG>ctA
A	c.1748C>T	c.(1747-1749)tCt>tTt

A	c.1464G>A	c.(1462-1464)acG>acA
A	c.3276C>T	c.(3274-3276)acC>acT
T	c.5828C>T	c.(5827-5829)cCa>cTa
A		
T	c.750C>T	c.(748-750)gtC>gtT
A	c.251C>T	c.(250-252)cCa>cTa
A	c.883A>T	c.(883-885)Atc>Ttc
A	c.5128C>T	c.(5128-5130)Cca>Tca
A	c.165C>T	c.(163-165)ggC>ggT
T	c.289C>T	c.(289-291)Ctg>Ttg
T	c.812C>T	c.(811-813)cCt>cTt
T	c.696C>T	c.(694-696)tcC>tcT
A		
T		
T	c.3283C>T	c.(3283-3285)Cct>Tct
A	c.225C>T	c.(223-225)atC>atT
A	c.5373C>T	c.(5371-5373)tcC>tcT
T	c.566C>T	c.(565-567)tCc>tTc
T		
A	c.1421C>T	
A	c.1819G>A	c.(1819-1821)Gca>Aca
G		
T	c.210G>A	c.(208-210)ctG>ctA
T	c.1309C>T	c.(1309-1311)Cca>Tca
G		
A	c.695G>A	c.(694-696)aGg>aAg
T	c.34822C>T	
T	c.6000C>T	c.(5998-6000)ttC>ttT
G	c.2254G>C	c.(2254-2256)Gga>Cga
A	c.1363G>A	c.(1363-1365)Ggc>Agc
T	c.5455G>A	c.(5455-5457)Gaa>Aaa
A	c.277G>A	c.(277-279)Ggg>Agg
A	c.2269G>A	c.(2269-2271)Gaa>Aaa
A	c.295C>T	c.(295-297)Cga>Tga
A		
A		
A	c.2097C>A	c.(2095-2097)ccC>ccA
C		
T	c.6079C>T	c.(6079-6081)Caa>Taa
T	c.5875C>T	c.(5875-5877)Cgt>Tgt
T	c.666G>A	c.(664-666)tcG>tcA
A	c.737C>T	c.(736-738)cCa>cTa
T	c.1122G>T	c.(1120-1122)atG>atT

T	c.434C>T	c.(433-435)cCt>cTt
A	c.133G>A	c.(133-135)Gat>Aat
T	c.343G>A	c.(343-345)Gta>Ata
A	c.656C>T	c.(655-657)cCc>cTc
T	c.479C>T	c.(478-480)tCa>tTa
T		
T	c.389C>T	c.(388-390)tCc>tTc
T		
A	c.1237G>A	c.(1237-1239)Gaa>Aaa
T	c.888G>A	c.(886-888)ccG>ccA
T	c.564G>A	c.(562-564)atG>atA
T	c.678C>T	c.(676-678)acC>acT
T	c.402C>T	c.(400-402)ttC>ttT
T	c.1429G>A	c.(1429-1431)Gaa>Aaa
T	c.964C>T	c.(964-966)Cct>Tct
T	c.15C>T	c.(13-15)gtC>gtT
A	c.5308C>T	c.(5308-5310)Ctg>Ttg
T	c.1096A>T	c.(1096-1098)Aag>Tag
T		
A	c.273C>T	c.(271-273)gcC>gcT
T	c.4356G>A	c.(4354-4356)atG>atA
T	c.1304C>T	c.(1303-1305)tCa>tTa
T	c.1913C>T	c.(1912-1914)tCc>tTc
A	c.975G>A	c.(973-975)acG>acA
A	c.2748G>A	c.(2746-2748)ctG>ctA
T	c.1512T>A	c.(1510-1512)atT>atA
A	c.4C>T	c.(4-6)Ccg>Tcg
A		
T	c.3660G>A	c.(3658-3660)ccG>ccA
A	c.661C>T	c.(661-663)Cgt>Tgt
A	c.1740C>T	c.(1738-1740)ttC>ttT
T		
T	c.784G>A	c.(784-786)Ggg>Agg
T	c.1495G>A	c.(1495-1497)Gat>Aat
T	c.8G>A	c.(7-9)gGa>gAa
T	c.776C>T	c.(775-777)cCa>cTa
T		
T		
T	c.256G>T	c.(256-258)Gaa>Taa
T		
T	c.3283C>T	c.(3283-3285)Ccc>Tcc
A	c.1965C>T	c.(1963-1965)tcC>tcT
A	c.409G>A	c.(409-411)Gag>Aag

A	c.176G>A	c.(175-177)tGg>tAg
C	c.197T>C	c.(196-198)tTa>tCa
T	c.1626C>T	c.(1624-1626)ctC>ctT
T	c.360C>T	c.(358-360)gcC>gcT
C		
A	c.408G>A	c.(406-408)gtG>gtA
A	c.1157G>A	c.(1156-1158)gGg>gAg
T	c.844G>A	c.(844-846)Gaa>Aaa
C		
T	c.826C>T	c.(826-828)Ccc>Tcc
A	c.1475C>T	c.(1474-1476)tCt>tTt
A		
T		
A		
A	c.1285G>A	c.(1285-1287)Gat>Aat
T		
T	c.1199G>A	c.(1198-1200)cGa>cAa
T	c.2604C>T	c.(2602-2604)ctC>ctT
T	c.2442G>A	c.(2440-2442)ggG>ggA
A	c.5154C>T	c.(5152-5154)ccC>ccT
A	c.330C>T	c.(328-330)gcC>gcT
A		
T	c.4211C>T	c.(4210-4212)aCc>aTc
A	c.320G>A	c.(319-321)gGa>gAa
T	c.157G>A	c.(157-159)Gag>Aag
T	c.1958C>T	c.(1957-1959)tCc>tTc
A	c.678G>A	c.(676-678)aaG>aaA
T	c.2353C>T	c.(2353-2355)Cgc>Tgc
T	c.7771G>A	c.(7771-7773)Gga>Aga
A	c.659G>A	c.(658-660)gGa>gAa
A	c.596C>T	c.(595-597)tCc>tTc
T		
T	c.5G>A	c.(4-6)gGg>gAg
A	c.1127C>T	c.(1126-1128)tCt>tTt
A	c.743C>T	c.(742-744)tCc>tTc
A	c.952G>A	c.(952-954)Gag>Aag
A		
A	c.147G>T	c.(145-147)ttG>ttT
T	c.195C>T	c.(193-195)atC>atT
T	c.4991G>A	c.(4990-4992)cGg>cAg
A	c.1073T>A	c.(1072-1074)tTg>tAg
A		
T	c.1405G>A	c.(1405-1407)Gag>Aag

T	c.4359G>A	c.(4357-4359)tgG>tgA
A	c.1735G>A	c.(1735-1737)Ggg>Agg
T		
A		
T	c.776C>T	c.(775-777)aCc>aTc
T	c.652G>A	c.(652-654)Gac>Aac
A	c.1653C>T	c.(1651-1653)atC>atT
A	c.3133G>A	c.(3133-3135)Gat>Aat
T	c.622G>A	c.(622-624)Gac>Aac
A	c.113T>A	c.(112-114)tTt>tAt
A	c.789G>A	c.(787-789)agG>agA
A	c.1182C>T	c.(1180-1182)ttC>ttT
G		
T	c.16521G>A	c.(16519-16521)agG>agA
A	c.1140C>T	c.(1138-1140)ccC>ccT
A		
T	c.2812C>T	c.(2812-2814)Cac>Tac
T	c.1852C>T	c.(1852-1854)Cct>Tct
A	c.652C>T	c.(652-654)Ccc>Tcc
A		
C	c.1056T>C	c.(1054-1056)tcT>tcC
A	c.181C>T	c.(181-183)Ctg>Ttg
A		
A	c.1446C>T	c.(1444-1446)atC>atT
T	c.2593G>A	c.(2593-2595)Gaa>Aaa
T	c.600C>T	c.(598-600)taC>taT
T	c.110G>A	c.(109-111)gGc>gAc
A	c.737G>A	c.(736-738)aGg>aAg
A	c.2376C>T	c.(2374-2376)tcC>tcT
T	c.121C>T	c.(121-123)Ccg>Tcg
A	c.1123G>A	c.(1123-1125)Gac>Aac
A	c.1738C>T	c.(1738-1740)Ccg>Tcg
A	c.75G>A	c.(73-75)agG>agA
G	c.1294A>C	c.(1294-1296)Acc>Ccc
G		
T	c.1440C>T	c.(1438-1440)tcC>tcT
T	c.860G>A	c.(859-861)gGg>gAg
A	c.564C>T	c.(562-564)ttC>ttT
A	c.640G>A	c.(640-642)Gaa>Aaa
A	c.501G>A	c.(499-501)agG>agA
T	c.424G>A	c.(424-426)Gat>Aat
A		

T	c.1503C>T	c.(1501-1503)atC>atT
T	c.4656_splice	c.e8+1
A		
T	c.1926C>T	c.(1924-1926)acC>acT
A	c.3500C>T	c.(3499-3501)tCa>tTa
T	c.2363G>A	c.(2362-2364)gGg>gAg
G		
A	c.735C>T	c.(733-735)acC>acT
T	c.1288_splice	c.e12+1
A	c.1390G>A	c.(1390-1392)Ggg>Agg
A	c.1604C>T	c.(1603-1605)cCa>cTa
A	c.2521C>T	c.(2521-2523)Cct>Tct
G	c.142A>G	c.(142-144)Agg>Ggg
T		
T	c.2020C>T	c.(2020-2022)Cta>Tta
A	c.663C>T	c.(661-663)atC>atT
A	c.2593C>T	c.(2593-2595)Ccc>Tcc
T	c.4090G>A	c.(4090-4092)Gac>Aac
T	c.6703G>A	c.(6703-6705)Gac>Aac
A	c.3402C>T	c.(3400-3402)taC>taT
T	c.1949C>T	c.(1948-1950)tCg>tTg
T	c.180C>T	c.(178-180)tcC>tcT
A	c.901C>T	c.(901-903)Cgg>Tgg
A		
A	c.621C>T	c.(619-621)ccC>ccT
G	c.38T>G	c.(37-39)gTt>gGt
T	c.544G>T	c.(544-546)Ggc>Tgc
T	c.801G>A	c.(799-801)ttG>ttA
A	c.582C>T	c.(580-582)ctC>ctT
A	c.282C>T	c.(280-282)atC>atT
A	c.1917C>A	c.(1915-1917)aaC>aaA
T	c.869G>A	c.(868-870)gGa>gAa
T		
G	c.1973A>G	c.(1972-1974)aAg>aGg
T	c.852C>T	c.(850-852)ttC>ttT
A	c.143G>A	c.(142-144)cGt>cAt
T	c.2375G>A	c.(2374-2376)gGg>gAg
T	c.565G>A	c.(565-567)Gga>Aga
A	c.509G>A	c.(508-510)gGg>gAg
C	c.82C>G	c.(82-84)Ctc>Gtc
T		
A	c.1237G>A	c.(1237-1239)Gac>Aac
T		



A		
A	c.201G>T	c.(199-201)ttG>ttT
T	c.1470G>A	c.(1468-1470)agG>agA
A	c.3478G>A	c.(3478-3480)Gag>Aag
T	c.4252C>T	c.(4252-4254)Cgt>Tgt
A		
A	c.318G>A	c.(316-318)agG>agA
G	c.7665A>G	c.(7663-7665)ctA>ctG
T	c.2399G>A	c.(2398-2400)gGa>gAa
T	c.4052C>T	c.(4051-4053)gCc>gTc
A	c.968G>A	c.(967-969)gGa>gAa
A		
T	c.1296G>A	c.(1294-1296)gtG>gtA
T	c.387C>T	c.(385-387)ccC>ccT
A	c.153C>T	c.(151-153)tcC>tcT
A	c.717C>T	c.(715-717)ccC>ccT
A	c.551G>A	c.(550-552)tGg>tAg
A	c.3610C>T	c.(3610-3612)Ctg>Ttg
A	c.924G>A	c.(922-924)ttG>ttA
T	c.2489C>T	c.(2488-2490)cCa>cTa
A		
A	c.3648G>A	c.(3646-3648)caG>caA
T	c.777C>T	c.(775-777)tcC>tcT
T	c.2198G>A	c.(2197-2199)cGg>cAg
A	c.1794C>T	c.(1792-1794)ccC>ccT
A	c.2437G>A	c.(2437-2439)Gaa>Aaa
T	c.120C>T	c.(118-120)atC>atT
A	c.1044C>T	c.(1042-1044)caC>caT
T		
A	c.1107G>A	c.(1105-1107)tgG>tgA
G	c.1381A>G	
A	c.1361G>A	c.(1360-1362)aGa>aAa
A	c.1611C>T	c.(1609-1611)gtC>gtT
A	c.2035G>A	c.(2035-2037)Gaa>Aaa
T	c.282C>T	c.(280-282)ccC>ccT
T	c.1612C>T	c.(1612-1614)Cct>Tct
T	c.4245G>A	c.(4243-4245)aaG>aaA
A	c.557G>A	c.(556-558)gGc>gAc
A	c.325G>A	c.(325-327)Gga>Aga
A	c.1174G>A	c.(1174-1176)Gag>Aag
T	c.258G>A	c.(256-258)atG>atA
A	c.1027C>T	c.(1027-1029)Cta>Tta
T	c.358C>T	c.(358-360)Ctt>Ttt

T	c.7890T>A	c.(7888-7890)acT>acA
T	c.231G>A	c.(229-231)ctG>ctA
A	c.3505C>T	c.(3505-3507)Ccc>Tcc
A	c.13546C>T	c.(13546-13548)Ctc>Ttc
G	c.760T>C	c.(760-762)Tat>Cat
A	c.2114C>T	c.(2113-2115)cCc>cTc
T	c.3816G>A	c.(3814-3816)ggG>ggA
T	c.181C>T	c.(181-183)Cct>Tct
T	c.448G>A	c.(448-450)Gag>Aag
C	c.67G>C	c.(67-69)Gag>Cag
A	c.41G>A	c.(40-42)aGg>aAg
T	c.1654G>A	c.(1654-1656)Gaa>Aaa
A	c.60G>A	c.(58-60)agG>agA
A	c.261C>T	c.(259-261)acC>acT
A	c.1845C>T	c.(1843-1845)ctC>ctT
A	c.985G>A	c.(985-987)Gag>Aag
A		
T		
A	c.382G>A	c.(382-384)Gga>Aga
T	c.1759C>T	c.(1759-1761)Cga>Tga
T	c.524G>A	c.(523-525)tGg>tAg
A	c.4189C>T	c.(4189-4191)Cgt>Tgt
A	c.4235A>T	c.(4234-4236)aAa>aTa
A	c.846C>T	c.(844-846)ccC>ccT
A	c.378C>T	c.(376-378)atC>atT
A	c.2531G>A	
T	c.40G>A	c.(40-42)Gag>Aag
T		
A	c.32520C>T	c.(32518-32520)tcC>tcT
A	c.13823G>A	c.(13822-13824)cGg>cAg
C	c.232A>G	c.(232-234)Aaa>Gaa
A	c.974_splice	c.e11-1
G	c.221T>C	c.(220-222)gTt>gCt
A	c.841G>A	c.(841-843)Gag>Aag
A		
A	c.3901G>A	c.(3901-3903)Ggg>Agg
T		
T	c.312C>T	c.(310-312)atC>atT
T	c.3830C>T	c.(3829-3831)cCc>cTc
T	c.198C>T	c.(196-198)ttC>ttT
T	c.1756C>T	c.(1756-1758)Ctc>Ttc
T	c.73_splice	c.e3-1
A	c.356C>T	c.(355-357)tCc>tTc

T	c.27G>A	c.(25-27)acG>acA
A	c.1110T>A	c.(1108-1110)ccT>ccA
T	c.727C>T	c.(727-729)Ccg>Tcg
T	c.1153C>T	c.(1153-1155)Cac>Tac
A		
T	c.2523C>T	c.(2521-2523)ctC>ctT
T	c.233G>A	c.(232-234)gGa>gAa
A		
A	c.2604G>A	c.(2602-2604)ggG>ggA
T	c.1637G>A	c.(1636-1638)aGa>aAa
G	c.491A>G	c.(490-492)aAc>aGc
T	c.856G>A	c.(856-858)Gaa>Aaa
T	c.298G>A	c.(298-300)Gat>Aat
A	c.119G>A	c.(118-120)gGa>gAa
A		
T		
T	c.878G>A	c.(877-879)aGc>aAc
A	c.709C>T	c.(709-711)Cct>Tct
T	c.1002C>T	c.(1000-1002)ttC>ttT
T	c.1393C>T	c.(1393-1395)Cac>Tac
A	c.117C>T	c.(115-117)gtC>gtT
T	c.492G>A	c.(490-492)gaG>gaA
T	c.1825C>T	c.(1825-1827)Caa>Taa
A	c.2260C>T	c.(2260-2262)Cgc>Tgc
T	c.1260C>T	c.(1258-1260)gcC>gcT
A	c.1021G>A	c.(1021-1023)Gaa>Aaa
A	c.1098G>A	c.(1096-1098)cgG>cgA
A	c.2092G>A	c.(2092-2094)Ggg>Agg
A		
A	c.3220G>A	c.(3220-3222)Gga>Aga
T	c.652G>A	c.(652-654)Gaa>Aaa
A		
T	c.173C>T	c.(172-174)cCt>cTt
A	c.1693C>A	c.(1693-1695)Ctc>Atc
A	c.9726C>T	c.(9724-9726)ccC>ccT
A	c.288G>A	c.(286-288)ggG>ggA
A	c.479G>A	c.(478-480)gGt>gAt
A	c.843C>T	c.(841-843)ttC>ttT
T	c.1980G>A	c.(1978-1980)ctG>ctA
C	c.500A>G	c.(499-501)aAg>aGg
C	c.233A>G	c.(232-234)aAc>aGc
T		
T	c.1057G>A	c.(1057-1059)Gat>Aat

A	c.737G>A	c.(736-738)cGa>cAa
T	c.182C>T	c.(181-183)cCt>cTt
A	c.2817C>T	c.(2815-2817)tcC>tcT
A		
T	c.190G>A	c.(190-192)Gag>Aag
A	c.2889C>T	c.(2887-2889)ttC>ttT
A	c.9225C>T	c.(9223-9225)tcC>tcT
A	c.615C>A	c.(613-615)ccC>ccA
A	c.1017C>T	c.(1015-1017)ttC>ttT
T	c.679C>T	c.(679-681)Ctg>Ttg
A	c.3913G>A	c.(3913-3915)Gaa>Aaa
T	c.2866G>A	c.(2866-2868)Gat>Aat
T		
T	c.123C>T	c.(121-123)ttC>ttT
A	c.1580C>T	c.(1579-1581)tCt>tTt
A		
T	c.3138G>A	c.(3136-3138)ctG>ctA
T		
C	c.139T>G	c.(139-141)Tgt>Ggt
A	c.3244C>T	c.(3244-3246)Ctc>Ttc
A	c.578G>A	c.(577-579)gGa>gAa
A	c.6690G>A	c.(6688-6690)acG>acA
T	c.4493G>A	c.(4492-4494)aGg>aAg
T	c.222G>A	c.(220-222)ggG>ggA
A	c.293C>T	c.(292-294)tCc>tTc
A	c.582G>A	c.(580-582)gtG>gtA
A	c.538G>A	c.(538-540)Gag>Aag
A	c.3706C>T	c.(3706-3708)Cag>Tag
A	c.934G>A	c.(934-936)Gga>Aga
A	c.2847C>T	c.(2845-2847)atC>atT
T	c.1241C>T	c.(1240-1242)tCc>tTc
T		
C		
A	c.968T>A	c.(967-969)tTa>tAa
T	c.25561G>A	c.(25561-25563)Gat>Aat
T	c.241C>T	c.(241-243)Cgc>Tgc
A	c.2048G>T	c.(2047-2049)cGa>cTa
T	c.247G>A	c.(247-249)Gct>Act
T	c.3869C>T	c.(3868-3870)tCc>tTc
T		
A	c.235G>A	c.(235-237)Gag>Aag
G	c.1670A>G	c.(1669-1671)aAc>aGc
A		

A	c.573C>T	
A	c.2627C>T	c.(2626-2628)gCt>gTt
G		
T		
A	c.252G>A	c.(250-252)ctG>ctA
T	c.69G>A	c.(67-69)atG>atA
T		
T	c.53C>T	c.(52-54)tCc>tTc
A	c.1201G>A	c.(1201-1203)Ggg>Agg
C	c.29T>G	c.(28-30)cTg>cGg
A	c.1313C>T	c.(1312-1314)tCa>tTa
T		
T	c.1872G>A	c.(1870-1872)ccG>ccA
A	c.215C>T	c.(214-216)cCc>cTc
T	c.482_splice	c.e6-1
A		
T	c.1910G>A	c.(1909-1911)cGg>cAg
A	c.1180G>A	c.(1180-1182)Gga>Aga
C	c.2551A>C	
T	c.4321_splice	c.e25+1
T	c.4764C>T	c.(4762-4764)atC>atT
T	c.595A>T	c.(595-597)Aag>Tag
T		
T		
A		
A		
A	c.837T>A	c.(835-837)ttT>ttA
A	c.31G>A	c.(31-33)Gaa>Aaa
A	c.276G>A	c.(274-276)acG>acA
A		
A	c.1610C>T	c.(1609-1611)cCt>cTt
T	c.502G>A	c.(502-504)Gag>Aag
A	c.1018C>T	c.(1018-1020)Ctt>Ttt
A	c.154C>T	c.(154-156)Ccg>Tcg
T	c.346G>A	c.(346-348)Gtt>Att
A	c.719C>T	c.(718-720)tCt>tTt
G	c.1193A>G	c.(1192-1194)aAt>aGt
A	c.549C>T	c.(547-549)ctC>ctT
T	c.1587C>T	c.(1585-1587)gtC>gtT
T	c.714G>A	c.(712-714)ctG>ctA
T	c.4837C>T	c.(4837-4839)Cct>Tct
A		
G	c.1626T>C	c.(1624-1626)ggT>ggC

T	c.358G>A	c.(358-360)Gga>Aga
T		
A	c.819C>T	c.(817-819)atC>atT
A	c.1209C>T	c.(1207-1209)atC>atT
A	c.551C>T	c.(550-552)aCc>aTc
A	c.247C>T	c.(247-249)Cgg>Tgg
A	c.236_splice	c.e3-1
A	c.795G>A	c.(793-795)atG>atA
A	c.865G>A	c.(865-867)Gag>Aag
A	c.91C>T	c.(91-93)Cgg>Tgg
T	c.789C>T	c.(787-789)ccC>ccT
T	c.6549G>A	c.(6547-6549)atG>atA
A	c.1517G>A	c.(1516-1518)gGc>gAc
T		
T	c.13492_splice	c.e78-1
A	c.1887G>A	c.(1885-1887)aaG>aaA
A	c.1492G>A	c.(1492-1494)Gat>Aat
A	c.1186C>T	c.(1186-1188)Cgt>Tgt
T	c.288C>T	c.(286-288)aaC>aaT
T	c.658_splice	c.e7-1
A	c.2018G>A	c.(2017-2019)gGa>gAa
T	c.2343C>T	c.(2341-2343)atC>atT
A		
A	c.228C>T	c.(226-228)atC>atT
A	c.859C>T	c.(859-861)Cta>Tta
T		
T		
A		
A	c.2535_splice	c.e22-1
A	c.1145C>T	c.(1144-1146)tCg>tTg
T		
T		
A	c.918C>T	c.(916-918)atC>atT
A	c.951G>A	c.(949-951)agG>agA
A	c.968C>T	c.(967-969)tCt>tTt
A	c.7330G>A	c.(7330-7332)Gag>Aag
A	c.1417C>T	c.(1417-1419)Cct>Tct
A	c.1898C>T	c.(1897-1899)tCc>tTc
T		
T	c.608C>T	c.(607-609)cCa>cTa
G	c.120T>C	c.(118-120)taT>taC
T	c.390G>A	c.(388-390)acG>acA
A	c.1076G>A	c.(1075-1077)gGg>gAg

A	c.5580C>T	c.(5578-5580)tcC>tcT
T	c.9359C>T	c.(9358-9360)tCt>tTt
T	c.2076C>T	c.(2074-2076)taC>taT
T	c.3354C>T	c.(3352-3354)ttC>ttT
T	c.385C>T	c.(385-387)Cca>Tca
T	c.1367G>A	c.(1366-1368)gGa>gAa
T		
T	c.467G>A	c.(466-468)cGa>cAa
T	c.690A>T	c.(688-690)caA>caT
G	c.821T>G	c.(820-822)tTc>tGc
A	c.598G>A	c.(598-600)Gaa>Aaa
T	c.467C>T	c.(466-468)tCc>tTc
T	c.1979C>T	c.(1978-1980)cCt>cTt
A	c.672G>A	c.(670-672)agG>agA
T	c.4910G>A	c.(4909-4911)aGa>aAa
A	c.2410G>A	c.(2410-2412)Gaa>Aaa
A	c.102G>A	c.(100-102)ctG>ctA
T	c.660C>T	c.(658-660)tcC>tcT
T	c.2007G>A	c.(2005-2007)aaG>aaA
A	c.1167C>T	c.(1165-1167)ccC>ccT
C	c.1708T>C	c.(1708-1710)Ttt>Ctt
T	c.409C>T	c.(409-411)Ccc>Tcc
A		
T	c.5179C>T	c.(5179-5181)Cag>Tag
T	c.117C>T	c.(115-117)gcC>gcT
T	c.226G>A	c.(226-228)Gat>Aat
T	c.2160C>T	c.(2158-2160)atC>atT
T		
T	c.2561C>T	c.(2560-2562)tCc>tTc
A	c.540C>T	c.(538-540)ccC>ccT
T	c.684C>T	c.(682-684)gcC>gcT
A	c.379G>A	c.(379-381)Gag>Aag
A	c.2815G>A	c.(2815-2817)Gaa>Aaa
G	c.2684T>C	c.(2683-2685)cTc>cCc
C	c.1223A>G	c.(1222-1224)gAc>gGc
T	c.674G>A	c.(673-675)gGa>gAa
T		
A	c.712G>A	c.(712-714)Gac>Aac
A	c.38C>T	c.(37-39)cCc>cTc
A		
G	c.163A>G	c.(163-165)Agc>Ggc
A	c.3919C>T	c.(3919-3921)Cct>Tct
A		

A	c.2692G>A	c.(2692-2694)Gac>Aac
A	c.1743C>T	c.(1741-1743)ttC>ttT
T		
T	c.1697C>T	c.(1696-1698)gCc>gTc
A	c.2924T>A	c.(2923-2925)aTa>aAa
A	c.197C>T	c.(196-198)tCa>tTa
A	c.192G>A	c.(190-192)ggG>ggA
A	c.1840C>T	c.(1840-1842)Ctg>Ttg
A	c.493_splice	c.e8-1
T	c.711C>A	
T		
T	c.491G>A	c.(490-492)cGa>cAa
T	c.1998_splice	c.e16-1
A	c.459C>T	c.(457-459)ttC>ttT
T	c.3187C>T	c.(3187-3189)Cag>Tag
T	c.6309G>A	c.(6307-6309)agG>agA
T	c.180C>T	c.(178-180)gcC>gcT
T		
T	c.7967C>T	c.(7966-7968)aCc>aTc
T	c.988C>T	c.(988-990)Cac>Tac
G	c.371T>C	c.(370-372)cTc>cCc
T	c.138T>A	c.(136-138)ctT>ctA
T	c.1692T>A	c.(1690-1692)gtT>gtA
T	c.2608G>A	c.(2608-2610)Gaa>Aaa
A	c.2436C>T	c.(2434-2436)ctC>ctT
A		
T		
A	c.785G>A	c.(784-786)tGg>tAg
T		
T		
A	c.112G>A	c.(112-114)Gaa>Aaa
A	c.3585_splice	c.e33+1
T	c.709G>A	c.(709-711)Gaa>Aaa
A	c.1678C>T	c.(1678-1680)Cca>Tca
A	c.989G>A	c.(988-990)aGc>aAc
T	c.928G>A	c.(928-930)Gag>Aag
T	c.15C>T	c.(13-15)ggC>ggT
T	c.4803C>T	c.(4801-4803)ttC>ttT
T		
T	c.383C>T	c.(382-384)cCt>cTt
A	c.2959G>A	c.(2959-2961)Gag>Aag
T	c.2049C>T	c.(2047-2049)tgC>tgT



T	c.721G>A	c.(721-723)Gaa>Aaa
A		
A		
T	c.320G>A	c.(319-321)gGg>gAg
A	c.496G>A	c.(496-498)Gac>Aac
T	c.51G>A	c.(49-51)acG>acA
A	c.108C>T	c.(106-108)tcC>tcT
A	c.2206G>A	c.(2206-2208)Ggg>Agg
A	c.739C>T	c.(739-741)Ctg>Ttg
T		
A		
A	c.368G>A	c.(367-369)gGg>gAg
A	c.5982C>T	c.(5980-5982)ctC>ctT
A	c.1385G>A	c.(1384-1386)gGa>gAa
T	c.562C>T	c.(562-564)Ctt>Ttt
T	c.87C>T	c.(85-87)atC>atT
T	c.2266C>T	c.(2266-2268)Cta>Tta
T	c.4310G>A	c.(4309-4311)tGg>tAg
A		
A	c.786G>A	c.(784-786)tgG>tgA
T	c.2015C>T	c.(2014-2016)aCc>aTc
T	c.1431G>A	c.(1429-1431)aaG>aaA
A	c.6740C>T	c.(6739-6741)aCc>aTc
A	c.9G>A	c.(7-9)caG>caA
T		
A		
C		
A	c.121C>T	c.(121-123)Ctt>Ttt
A	c.3G>A	c.(1-3)atG>atA
A	c.1137C>T	c.(1135-1137)tcC>tcT
T	c.219G>A	c.(217-219)agG>agA
T	c.929C>T	c.(928-930)tCc>tTc
A	c.917C>T	c.(916-918)tCc>tTc
A		
T	c.714G>T	c.(712-714)ccG>ccT
T	c.1969G>A	c.(1969-1971)Gat>Aat
A		
T	c.1870C>A	c.(1870-1872)Cct>Act
T	c.1581G>A	c.(1579-1581)aaG>aaA
A	c.4011C>T	c.(4009-4011)gtC>gtT
C	c.673A>G	
A	c.8515G>A	c.(8515-8517)Gac>Aac
T	c.384C>T	c.(382-384)ttC>ttT

A	c.478T>A	c.(478-480)Ttc>Atc
A	c.666T>A	c.(664-666)ccT>ccA
T	c.4399C>T	c.(4399-4401)Ccg>Tcg
T	c.694G>A	c.(694-696)Gat>Aat
A	c.150G>A	c.(148-150)gcG>gcA
A	c.210G>A	c.(208-210)agG>agA
C	c.2564A>C	c.(2563-2565)cAg>cCg
A	c.2083C>T	c.(2083-2085)Ctc>Ttc
T	c.2047A>T	c.(2047-2049)Aac>Tac
T	c.149C>T	c.(148-150)cCa>cTa
T	c.261G>A	c.(259-261)agG>agA
A		
T	c.556G>A	c.(556-558)Ggg>Agg
A	c.426C>T	c.(424-426)ccC>ccT
T		
T	c.1404C>T	c.(1402-1404)caC>caT
T		
A	c.678G>A	c.(676-678)agG>agA
A		
A	c.4720G>A	c.(4720-4722)Gat>Aat
G		
A	c.788C>T	c.(787-789)tCc>tTc
A	c.342G>A	c.(340-342)ctG>ctA
A	c.457G>A	c.(457-459)Ggg>Agg
T		
T	c.255C>T	c.(253-255)atC>atT
A		
A	c.406G>A	c.(406-408)Gag>Aag
T	c.2657T>A	c.(2656-2658)cTc>cAc
A	c.261G>A	c.(259-261)caG>caA
T	c.1038C>T	c.(1036-1038)gcC>gcT
A	c.1343C>T	c.(1342-1344)tCa>tTa
A	c.1040C>T	c.(1039-1041)tCt>tTt
A	c.23G>A	c.(22-24)gGg>gAg
T	c.1420G>A	c.(1420-1422)Gat>Aat
A	c.1699G>T	c.(1699-1701)Gtg>Ttg
T	c.2069G>A	c.(2068-2070)gGa>gAa
T		
A	c.1082G>A	c.(1081-1083)cGa>cAa
A	c.814C>T	c.(814-816)Cct>Tct
A	c.867G>T	c.(865-867)gtG>gtT
T	c.658G>A	c.(658-660)Gag>Aag
A		

A	c.2696G>A	c.(2695-2697)gGg>gAg
T	c.7142C>T	c.(7141-7143)cCt>cTt
A	c.693C>T	c.(691-693)atC>atT
C		
T	c.524G>A	c.(523-525)cGa>cAa
A		
A		
T		
T		
G	c.356A>G	c.(355-357)aAa>aGa
A	c.473C>T	c.(472-474)cCa>cTa
T	c.2785C>T	c.(2785-2787)Cac>Tac
A	c.929T>A	
A	c.203C>T	c.(202-204)cCa>cTa
T		
T	c.2196C>T	c.(2194-2196)ccC>ccT
T	c.3376C>T	c.(3376-3378)Cag>Tag
T	c.705G>A	c.(703-705)aaG>aaA
A	c.3394G>A	c.(3394-3396)Ggc>Agc
A	c.914G>A	c.(913-915)gGa>gAa
T	c.13G>A	c.(13-15)Gtc>Atc
T		
A	c.3337G>A	c.(3337-3339)Gat>Aat
A	c.141C>T	c.(139-141)atC>atT
A	c.1445C>T	c.(1444-1446)gCt>gTt
A	c.1521G>A	c.(1519-1521)ggG>ggA
T		
T		
A	c.1384G>A	c.(1384-1386)Gtg>Atg
T	c.90G>A	c.(88-90)cgG>cgA
T	c.6494C>T	c.(6493-6495)tCg>tTg
A	c.193C>T	c.(193-195)Ccc>Tcc
A	c.500G>A	c.(499-501)aGa>aAa
T	c.451C>T	c.(451-453)Cta>Tta
A	c.1004C>T	c.(1003-1005)cCg>cTg
T	c.1423C>T	c.(1423-1425)Cat>Tat
A	c.237G>A	c.(235-237)ttG>ttA
A	c.1326G>A	c.(1324-1326)atG>atA
T	c.305G>A	c.(304-306)gGa>gAa
A	c.548C>T	c.(547-549)tCc>tTc
T	c.323C>T	c.(322-324)cCc>cTc
T	c.549C>T	c.(547-549)gtC>gtT
A	c.8047G>T	c.(8047-8049)Gag>Tag

T	c.3684C>T	c.(3682-3684)ttC>ttT
T	c.1910G>A	c.(1909-1911)gGt>gAt
T	c.1381C>T	c.(1381-1383)Cgt>Tgt
T	c.1195G>A	c.(1195-1197)Ggg>Agg
A	c.1421C>T	c.(1420-1422)cCg>cTg
T	c.27G>A	c.(25-27)acG>acA
A	c.1956C>T	c.(1954-1956)ttC>ttT
T	c.233C>T	c.(232-234)tCc>tTc
T	c.744C>T	c.(742-744)tcC>tcT
T	c.529G>A	c.(529-531)Gac>Aac
T	c.793_splice	c.e7-1
T	c.583C>T	c.(583-585)Cgt>Tgt
A	c.1924C>T	c.(1924-1926)Ctc>Ttc
A		
A	c.1841C>T	c.(1840-1842)cCt>cTt
A	c.852C>T	c.(850-852)atC>atT
C	c.277A>C	c.(277-279)Aaa>Caa
A	c.1079C>T	c.(1078-1080)tCc>tTc
A	c.323C>T	c.(322-324)tCc>tTc
A	c.649C>T	c.(649-651)Cga>Tga
T	c.1620G>A	c.(1618-1620)ctG>ctA
A	c.1581C>T	c.(1579-1581)acC>acT
T	c.2929C>T	c.(2929-2931)Ccc>Tcc
T	c.88C>T	c.(88-90)Cgc>Tgc
T	c.5842C>T	c.(5842-5844)Ccc>Tcc
A	c.687C>T	c.(685-687)atC>atT
A	c.1267C>T	c.(1267-1269)Cag>Tag
T	c.17483C>T	c.(17482-17484)tCt>tTt
A	c.3613C>T	c.(3613-3615)Cag>Tag
T	c.295G>A	c.(295-297)Gag>Aag
T	c.1996G>A	c.(1996-1998)Gaa>Aaa
A		
T	c.394C>T	c.(394-396)Cgc>Tgc
A	c.932G>A	c.(931-933)gGc>gAc
A	c.909C>T	c.(907-909)ccC>ccT
A	c.664G>A	c.(664-666)Gag>Aag
T		
T	c.2426C>T	c.(2425-2427)tCt>tTt
T	c.3224C>T	c.(3223-3225)cCc>cTc
A		
T	c.241G>T	c.(241-243)Gag>Tag
T	c.369C>T	c.(367-369)gcC>gcT
A	c.1865C>T	c.(1864-1866)gCc>gTc

T	c.804C>T	c.(802-804)ttC>ttT
A	c.911C>T	c.(910-912)cCc>cTc
T	c.3463C>T	c.(3463-3465)Cga>Tga
T	c.248C>T	c.(247-249)aCc>aTc
T	c.11245C>T	c.(11245-11247)Cgt>Tgt
T		
A	c.2133G>A	c.(2131-2133)agG>agA
T	c.1403G>A	c.(1402-1404)gGg>gAg
T	c.229C>T	c.(229-231)Ccg>Tcg
A		
T	c.671C>T	c.(670-672)tCt>tTt
A		
A	c.979C>T	c.(979-981)Cgg>Tgg
T	c.637G>A	c.(637-639)Gat>Aat
A		
T	c.1551_splice	c.e16+1
A	c.17584C>T	c.(17584-17586)Ctg>Ttg
A	c.1434C>T	c.(1432-1434)acC>acT
T		
A	c.1102T>A	c.(1102-1104)Ttc>Atc
T	c.721G>A	c.(721-723)Gaa>Aaa
A	c.106C>T	c.(106-108)Cat>Tat
T	c.138C>T	c.(136-138)atC>atT
T	c.4526C>T	c.(4525-4527)tCt>tTt
T	c.876C>T	c.(874-876)tcC>tcT
C	c.2520_splice	c.e21+1
T	c.5920C>T	c.(5920-5922)Cca>Tca
T	c.2344C>T	c.(2344-2346)Ctc>Ttc
A	c.187_splice	c.e4-1
T	c.1256C>T	c.(1255-1257)tCt>tTt
T	c.755G>A	c.(754-756)cGg>cAg
T		
T	c.221G>A	c.(220-222)gGg>gAg
A	c.1143G>A	c.(1141-1143)atG>atA
A	c.221C>T	c.(220-222)tCc>tTc
A	c.356G>A	c.(355-357)cGg>cAg
T	c.1917C>T	c.(1915-1917)taC>taT
T	c.1927C>T	c.(1927-1929)Ctt>Ttt
T	c.9C>T	c.(7-9)aaC>aaT
A		
A	c.1397C>T	c.(1396-1398)cCa>cTa
T	c.1163C>T	c.(1162-1164)tCc>tTc
T	c.551C>T	c.(550-552)tCt>tTt

T		
T	c.180C>A	c.(178-180)ccC>ccA
A	c.193G>A	c.(193-195)Gaa>Aaa
A		
A	c.262G>T	c.(262-264)Gag>Tag
A	c.399C>T	c.(397-399)atC>atT
T	c.600C>T	c.(598-600)gcC>gcT
T		
T	c.219C>T	c.(217-219)tcC>tcT
A	c.552C>T	c.(550-552)atC>atT
A	c.5613C>T	c.(5611-5613)ttC>ttT
T	c.603G>A	c.(601-603)gaG>gaA
T	c.1393A>T	c.(1393-1395)Aag>Tag
A		
T	c.154G>A	c.(154-156)Gtg>Atg
T	c.1414C>T	c.(1414-1416)Ccg>Tcg
A	c.246C>T	c.(244-246)ttC>ttT
A		
T	c.8216C>T	c.(8215-8217)cCc>cTc
A	c.2044G>A	c.(2044-2046)Gat>Aat
A	c.847C>T	c.(847-849)Cct>Tct
A	c.406C>T	c.(406-408)Cct>Tct
A	c.5007C>T	c.(5005-5007)gcC>gcT
T	c.107G>A	c.(106-108)gGa>gAa
T	c.2423C>T	c.(2422-2424)tCt>tTt
T	c.3805G>A	c.(3805-3807)Gat>Aat
T	c.514C>T	c.(514-516)Ccg>Tcg
A	c.744C>T	c.(742-744)atC>atT
A	c.1828G>A	c.(1828-1830)Gaa>Aaa
A	c.2139C>T	c.(2137-2139)ttC>ttT
T	c.1359C>T	c.(1357-1359)ttC>ttT
T	c.5160C>T	
T	c.386C>T	c.(385-387)cCt>cTt
T	c.572_splice	c.e2+1
T		
C		
T	c.866T>A	c.(865-867)gTg>gAg
T	c.4138G>A	c.(4138-4140)Gaa>Aaa
T	c.190G>A	c.(190-192)Gag>Aag
C	c.5173A>G	c.(5173-5175)Att>Gtt
T	c.444C>T	c.(442-444)ctC>ctT
A		
G	c.1318T>C	c.(1318-1320)Tct>Cct

T	c.363G>A	c.(361-363)agG>agA
G	c.1120T>C	c.(1120-1122)Tct>Cct
A	c.735C>T	c.(733-735)gcC>gcT
T	c.176C>T	c.(175-177)cCc>cTc
T		
T	c.2160C>T	c.(2158-2160)ctC>ctT
T		
A	c.8554G>A	c.(8554-8556)Gaa>Aaa
A	c.184C>T	c.(184-186)Cct>Tct
A	c.2544C>T	c.(2542-2544)gcC>gcT
T	c.768C>T	c.(766-768)acC>acT
T	c.10845C>T	c.(10843-10845)ttC>ttT
T	c.2247G>A	c.(2245-2247)gtG>gtA
T		
T	c.537C>T	c.(535-537)ttC>ttT
A		
T	c.934C>T	c.(934-936)Ctg>Ttg
T		
A	c.363C>T	c.(361-363)tcC>tcT
G	c.582T>C	c.(580-582)ctT>ctC
T	c.1053C>T	c.(1051-1053)atC>atT
A	c.597C>T	c.(595-597)ttC>ttT
T	c.884G>A	c.(883-885)cGa>cAa
A	c.997G>A	c.(997-999)Gag>Aag
T	c.636C>T	c.(634-636)ccC>ccT
T	c.1064C>T	c.(1063-1065)tCa>tTa
T	c.696C>T	c.(694-696)gtC>gtT
A	c.1601G>A	c.(1600-1602)gGg>gAg
A	c.1066G>A	c.(1066-1068)Gga>Aga
T	c.1156G>A	c.(1156-1158)Ggg>Agg
G		
T	c.1280G>A	c.(1279-1281)gGa>gAa
T	c.2528C>T	c.(2527-2529)gCc>gTc
T	c.1118G>A	c.(1117-1119)aGg>aAg
A	c.132G>A	c.(130-132)aaG>aaA
T	c.3792G>A	c.(3790-3792)ctG>ctA
A	c.1880C>T	c.(1879-1881)gCc>gTc
T	c.458C>T	c.(457-459)tCt>tTt
A	c.74G>A	c.(73-75)gGa>gAa
T	c.1877C>T	c.(1876-1878)tCt>tTt
A	c.3275C>T	c.(3274-3276)aCc>aTc
A	c.34G>A	c.(34-36)Ggg>Agg
T	c.2456G>A	c.(2455-2457)cGg>cAg

A	c.130C>T	c.(130-132)Cct>Tct
A	c.139_splice	c.e1+1
A	c.9G>A	c.(7-9)gcG>gcA
A	c.986C>T	c.(985-987)cCc>cTc
A	c.285G>A	c.(283-285)ggG>ggA
A	c.75G>A	c.(73-75)caG>caA
A	c.40C>T	c.(40-42)Cgg>Tgg
T	c.780C>T	c.(778-780)atC>atT
T	c.805G>A	c.(805-807)Gag>Aag
A	c.6436C>T	c.(6436-6438)Cgt>Tgt
T	c.1596A>T	c.(1594-1596)aaA>aaT
A		
T	c.1079G>A	c.(1078-1080)gGa>gAa
A	c.2223C>T	c.(2221-2223)ttC>ttT
T	c.1290C>T	c.(1288-1290)ttC>ttT
A		
T	c.522G>A	c.(520-522)tcG>tcA
A	c.759G>A	c.(757-759)aaG>aaA
A	c.973G>A	c.(973-975)Gag>Aag
A	c.878G>A	c.(877-879)aGc>aAc
A	c.330C>T	c.(328-330)atC>atT
A	c.5839C>T	c.(5839-5841)Ccg>Tcg
T	c.965C>T	c.(964-966)cCt>cTt
T	c.900G>A	c.(898-900)gaG>gaA
T	c.582G>A	c.(580-582)agG>agA
A	c.9438C>T	c.(9436-9438)atC>atT
T	c.25952G>A	c.(25951-25953)gGg>gAg
T	c.265G>A	c.(265-267)Gag>Aag
T	c.2647C>T	c.(2647-2649)Cgt>Tgt
-	c.1447delT	c.(1447-1449)tttfs
T		
A	c.28C>T	c.(28-30)Ctt>Ttt
T	c.2982G>A	c.(2980-2982)ccG>ccA
A	c.3088G>A	c.(3088-3090)Ggc>Agc
G	c.587A>G	c.(586-588)gAa>gGa
T	c.819C>T	c.(817-819)ttC>ttT
T		
T	c.1423C>T	c.(1423-1425)Cgg>Tgg
A	c.1706C>T	c.(1705-1707)cCc>cTc
T	c.1239C>T	c.(1237-1239)ttC>ttT
A	c.417C>T	c.(415-417)ttC>ttT
T	c.117C>T	c.(115-117)atC>atT
T	c.694C>T	c.(694-696)Cct>Tct



T	c.1792G>A	c.(1792-1794)Gag>Aag
T	c.1614G>A	c.(1612-1614)ggG>ggA
A	c.1292C>T	c.(1291-1293)tCc>tTc
T	c.617G>A	c.(616-618)gGc>gAc
A	c.639C>T	c.(637-639)atC>atT
T	c.869C>T	c.(868-870)cCc>cTc
T	c.792C>T	c.(790-792)ttC>ttT
A	c.945G>A	c.(943-945)agG>agA
A	c.1198C>T	c.(1198-1200)Cat>Tat
A	c.904G>A	c.(904-906)Gag>Aag
T	c.344C>T	c.(343-345)cCc>cTc
T	c.1507C>T	c.(1507-1509)Caa>Taa
A	c.924C>T	c.(922-924)gaC>gaT
A	c.1331G>A	c.(1330-1332)aGa>aAa
A	c.448G>A	c.(448-450)Gat>Aat
T	c.307G>A	c.(307-309)Gga>Aga
T	c.371G>A	c.(370-372)aGg>aAg
T	c.1239C>T	c.(1237-1239)ttC>ttT
A	c.364G>A	c.(364-366)Gag>Aag
T	c.3348C>T	c.(3346-3348)gcC>gcT
A	c.3631G>A	c.(3631-3633)Ggt>Agt
T	c.42G>A	c.(40-42)gcG>gcA
A	c.1069G>A	c.(1069-1071)Gaa>Aaa
T	c.449C>T	c.(448-450)cCc>cTc
A	c.2652C>T	c.(2650-2652)gcC>gcT
C		
T		
T	c.1507G>A	c.(1507-1509)Gaa>Aaa
T	c.1969C>T	
T	c.279C>T	c.(277-279)ttC>ttT
T	c.469G>A	c.(469-471)Gat>Aat
A	c.4958C>T	c.(4957-4959)cCt>cTt
T	c.2284C>T	c.(2284-2286)Cag>Tag
T	c.725G>A	c.(724-726)gGc>gAc
T	c.3925C>T	c.(3925-3927)Cca>Tca
T	c.97G>A	c.(97-99)Gat>Aat
A	c.97G>A	c.(97-99)Gac>Aac
A	c.1694G>A	c.(1693-1695)cGg>cAg
T	c.534C>T	c.(532-534)gcC>gcT
T	c.397G>A	c.(397-399)Gaa>Aaa
A	c.539C>T	c.(538-540)tCt>tTt
G	c.5260A>C	c.(5260-5262)Aag>Cag
T	c.1861C>T	c.(1861-1863)Caa>Taa

T	c.1158G>A	c.(1156-1158)atG>atA
T	c.618G>A	c.(616-618)caG>caA
T	c.1086C>T	c.(1084-1086)gtC>gtT
A	c.2835G>A	c.(2833-2835)ttG>ttA
C	c.392T>G	c.(391-393)gTt>gGt
T	c.785G>A	c.(784-786)cGa>cAa
A	c.3976G>A	c.(3976-3978)Gct>Act
A	c.935G>A	c.(934-936)aGg>aAg
A	c.729G>A	c.(727-729)tcG>tcA
A	c.2743C>T	c.(2743-2745)Cca>Tca
A	c.960G>A	c.(958-960)agG>agA
A	c.367C>T	c.(367-369)Ctg>Ttg
T	c.2588C>T	c.(2587-2589)cCc>cTc
A	c.1861G>A	c.(1861-1863)Gct>Act
A	c.2521C>T	c.(2521-2523)Ctc>Ttc
T	c.216C>T	c.(214-216)tcC>tcT
T	c.743C>T	c.(742-744)tCc>tTc
A	c.270C>T	c.(268-270)acC>acT
G	c.1919A>G	c.(1918-1920)aAc>aGc
A	c.1197C>T	c.(1195-1197)tcC>tcT
T	c.207C>T	c.(205-207)ctC>ctT
A	c.464C>T	c.(463-465)aCt>aTt
A	c.255G>A	c.(253-255)aaG>aaA
A	c.441C>T	c.(439-441)tcC>tcT
T	c.666C>T	c.(664-666)ctC>ctT
A	c.778C>T	c.(778-780)Ccc>Tcc
A	c.1158C>T	c.(1156-1158)agC>agT
A	c.5C>T	c.(4-6)tCc>tTc
C	c.182A>G	c.(181-183)cAa>cGa
G	c.1273T>C	c.(1273-1275)Tcc>Ccc
A	c.166_splice	c.e3-1
A	c.1732G>A	c.(1732-1734)Gac>Aac
T	c.1778C>T	c.(1777-1779)cCa>cTa
T		
A	c.1810C>T	c.(1810-1812)Cat>Tat
T	c.769C>T	c.(769-771)Ccc>Tcc
T	c.1403C>T	c.(1402-1404)tCt>tTt
T	c.5965G>A	c.(5965-5967)Gaa>Aaa
C	c.414T>C	c.(412-414)tcT>tcC
A	c.934G>T	c.(934-936)Gtt>Ttt
A	c.996C>T	c.(994-996)atC>atT
A		
A	c.447C>T	c.(445-447)ttC>ttT

T	c.2444C>T	c.(2443-2445)cCg>cTg
T	c.931G>A	c.(931-933)Gac>Aac
T	c.837G>A	c.(835-837)acG>acA
T	c.786C>T	c.(784-786)gcC>gcT
T	c.1573C>T	c.(1573-1575)Cag>Tag
T	c.190G>A	c.(190-192)Gag>Aag
A	c.51C>T	c.(49-51)ctC>ctT
T	c.73G>A	c.(73-75)Gaa>Aaa
T	c.424C>T	c.(424-426)Cgg>Tgg
T	c.2450G>A	c.(2449-2451)gGa>gAa
A	c.272C>T	c.(271-273)tCc>tTc
T	c.1505C>T	c.(1504-1506)cCt>cTt
A	c.246G>A	c.(244-246)gtG>gtA
T	c.825C>T	c.(823-825)atC>atT
A	c.3570C>T	c.(3568-3570)ctC>ctT
A		
A	c.1306C>T	c.(1306-1308)Ctt>Ttt
A	c.59G>A	c.(58-60)tGg>tAg
T	c.312_splice	c.e4-1
T		
T	c.891C>T	c.(889-891)tcC>tcT
G	c.629T>C	c.(628-630)gTt>gCt
T	c.6769G>A	c.(6769-6771)Gag>Aag
T		
A	c.302G>A	c.(301-303)aGa>aAa
A	c.688G>A	c.(688-690)Gag>Aag
T		
A	c.1611C>T	c.(1609-1611)caC>caT
C	c.4622A>G	c.(4621-4623)gAa>gGa
A		
A	c.4475C>T	c.(4474-4476)tCa>tTa
A	c.562C>T	
A	c.2401C>T	c.(2401-2403)Cca>Tca
A	c.238C>T	c.(238-240)Caa>Taa
A	c.354G>A	c.(352-354)atG>atA
T	c.639C>T	c.(637-639)agC>agT
T	c.170C>T	c.(169-171)tCg>tTg
T	c.812G>A	c.(811-813)cGg>cAg
T	c.493C>T	c.(493-495)Ccg>Tcg
G		
A	c.2248C>T	c.(2248-2250)Ccg>Tcg
G	c.520T>C	c.(520-522)Ttc>Ctc
T	c.1139C>T	c.(1138-1140)cCg>cTg

A	c.2236C>T	c.(2236-2238)Cgc>Tgc
A	c.698G>A	c.(697-699)gGa>gAa
T	c.894C>T	c.(892-894)ttC>ttT
T	c.2015C>T	c.(2014-2016)tCg>tTg
A	c.33896C>T	c.(33895-33897)cCt>cTt
T	c.956C>T	
T	c.71T>A	c.(70-72)cTg>cAg
A	c.3703C>T	c.(3703-3705)Cca>Tca
T	c.288C>T	c.(286-288)taC>taT
A	c.344G>A	
T	c.6371C>T	c.(6370-6372)tCc>tTc
T	c.4374C>T	c.(4372-4374)ttC>ttT
T	c.2914C>T	c.(2914-2916)Cga>Tga
A	c.216G>A	c.(214-216)tgG>tgA
A		
A	c.427G>A	c.(427-429)Gat>Aat
A	c.312C>T	c.(310-312)gcC>gcT
A	c.1280C>T	c.(1279-1281)tCc>tTc
A	c.3504C>T	c.(3502-3504)ttC>ttT
A	c.308G>A	c.(307-309)cGa>cAa
A	c.1084C>T	c.(1084-1086)Ccg>Tcg
A		
A	c.400C>T	
A	c.2177G>A	c.(2176-2178)gGg>gAg
A	c.6228C>T	c.(6226-6228)tcC>tcT
T	c.4012_splice	c.e34-1
A	c.658_splice	c.e6+1
T	c.2029G>A	c.(2029-2031)Gag>Aag
A	c.287C>T	c.(286-288)aCc>aTc
A	c.552G>A	c.(550-552)cgG>cgA
A	c.2493G>A	c.(2491-2493)caG>caA
A	c.867G>A	c.(865-867)caG>caA
A		
T	c.204C>T	c.(202-204)tcC>tcT
A		
A	c.2887G>A	c.(2887-2889)Gag>Aag
A	c.2630C>T	c.(2629-2631)tCa>tTa
A	c.1597C>T	c.(1597-1599)Cgt>Tgt
A	c.3077G>A	c.(3076-3078)gGg>gAg
A	c.1830C>T	c.(1828-1830)ctC>ctT
T	c.131G>A	
A	c.1305G>A	c.(1303-1305)cgG>cgA
A	c.276C>T	c.(274-276)atC>atT

A	c.135G>A	c.(133-135)atG>atA
T	c.4849G>A	c.(4849-4851)Gag>Aag
A		
C	c.7778T>C	c.(7777-7779)aTa>aCa
T	c.43G>A	
A		
T	c.2294C>T	c.(2293-2295)tCc>tTc
T	c.34C>T	c.(34-36)Ctg>Ttg
A	c.394G>A	c.(394-396)Gca>Aca
T	c.1138C>T	c.(1138-1140)Cag>Tag
T	c.45C>A	c.(43-45)gcC>gcA
G	c.833A>G	c.(832-834)aAc>aGc
A	c.160C>T	c.(160-162)Ccc>Tcc
T	c.52G>A	c.(52-54)Gga>Aga
A	c.3744C>T	c.(3742-3744)ttC>ttT
T	c.913G>A	c.(913-915)Gga>Aga
A		
T	c.15C>T	c.(13-15)ttC>ttT
A	c.6679C>T	c.(6679-6681)Cca>Tca
T	c.535G>A	c.(535-537)Gag>Aag
T		
A		
A	c.605C>A	c.(604-606)aCa>aAa
T	c.1578C>T	c.(1576-1578)tcC>tcT
T	c.988C>T	c.(988-990)Cag>Tag
G	c.1130G>C	c.(1129-1131)cGg>cCg
T	c.450C>T	c.(448-450)ttC>ttT
A	c.734C>T	c.(733-735)aCc>aTc
T	c.2565C>T	c.(2563-2565)atC>atT
A	c.286G>A	c.(286-288)Gtg>Atg
T	c.815C>T	c.(814-816)tCa>tTa
T	c.1654G>A	c.(1654-1656)Gaa>Aaa
T	c.3785C>T	c.(3784-3786)gCc>gTc
T	c.1051G>A	c.(1051-1053)Gag>Aag
T	c.1456C>T	c.(1456-1458)Ccg>Tcg
T		
T	c.225C>T	
T	c.133C>T	c.(133-135)Ccc>Tcc
A	c.1253C>T	c.(1252-1254)tCg>tTg
T	c.87C>T	c.(85-87)gtC>gtT
A	c.3161C>T	c.(3160-3162)tCt>tTt
T	c.1367G>A	c.(1366-1368)gGg>gAg
T		

A	c.11466C>T	c.(11464-11466)acC>acT
A		
A	c.1134C>T	c.(1132-1134)ttC>ttT
A	c.428G>A	c.(427-429)gGc>gAc
A	c.136G>A	c.(136-138)Gag>Aag
G	c.471G>C	c.(469-471)gaG>gaC
T	c.1567G>A	c.(1567-1569)Ggg>Agg
A	c.1878G>A	c.(1876-1878)agG>agA
A	c.330C>T	c.(328-330)atC>atT
A	c.829C>T	c.(829-831)Cga>Tga
T	c.1651G>A	c.(1651-1653)Gtg>Atg
G	c.520G>C	c.(520-522)Gac>Cac
T	c.481C>T	c.(481-483)Ctg>Ttg
T	c.814G>A	c.(814-816)Gag>Aag
T	c.868C>T	c.(868-870)Cca>Tca
A	c.627G>A	c.(625-627)ttG>ttA
A	c.3289C>T	c.(3289-3291)Cct>Tct
T	c.1756C>T	c.(1756-1758)Cct>Tct
A	c.586G>A	c.(586-588)Gcg>Acg
T	c.139C>T	c.(139-141)Cgg>Tgg
T	c.225_splice	c.e4-1
A	c.1498G>A	c.(1498-1500)Gat>Aat
T	c.694C>T	c.(694-696)Ccc>Tcc
T	c.556G>A	c.(556-558)Gcc>Acc
T	c.215C>T	c.(214-216)tCc>tTc
T	c.106C>T	c.(106-108)Cgt>Tgt
A	c.2060C>T	c.(2059-2061)tCc>tTc
T		
C		
A	c.2067T>A	c.(2065-2067)gtT>gtA
T	c.801C>T	c.(799-801)tcC>tcT
T	c.1224C>T	c.(1222-1224)tcC>tcT
T		
A	c.3338C>T	c.(3337-3339)cCc>cTc
T	c.131G>A	c.(130-132)gGc>gAc
T	c.679G>A	c.(679-681)Gaa>Aaa
T	c.1773G>A	c.(1771-1773)tgG>tgA
T	c.148C>T	c.(148-150)Ctg>Ttg
T		
A	c.292C>T	c.(292-294)Cga>Tga
T		
A	c.3235G>A	c.(3235-3237)Gac>Aac
T		

A	c.699C>T	c.(697-699)gtC>gtT
A	c.237C>T	c.(235-237)ccC>ccT
A		
A	c.3354C>T	c.(3352-3354)ttC>ttT
T	c.4565G>A	c.(4564-4566)gGa>gAa
A	c.2175C>T	c.(2173-2175)tcC>tcT
A	c.393G>A	c.(391-393)atG>atA
A	c.1259G>A	c.(1258-1260)gGa>gAa
T		
C	c.470A>C	c.(469-471)aAc>aCc
A	c.2548C>T	c.(2548-2550)Ccg>Tcg
A	c.1028C>T	c.(1027-1029)tCa>tTa
A	c.223C>T	c.(223-225)Cgg>Tgg
A	c.1355C>T	c.(1354-1356)cCt>cTt
T	c.1083G>A	c.(1081-1083)agG>agA
T	c.1591C>T	c.(1591-1593)Cct>Tct
A	c.2808C>T	c.(2806-2808)gcC>gcT
T		
T	c.957C>T	c.(955-957)ccC>ccT
A	c.1242C>T	c.(1240-1242)atC>atT
T	c.163C>T	c.(163-165)Cac>Tac
A	c.2042G>A	c.(2041-2043)cGa>cAa
T	c.699C>T	c.(697-699)ttC>ttT
T	c.8354C>T	c.(8353-8355)tCc>tTc
A	c.327C>T	c.(325-327)atC>atT
T	c.389C>T	c.(388-390)cCa>cTa
A	c.2912C>T	c.(2911-2913)cCc>cTc
T	c.826C>T	c.(826-828)Cac>Tac
T	c.201C>T	c.(199-201)ctC>ctT
T	c.1705C>T	c.(1705-1707)Cct>Tct
A	c.4886C>T	c.(4885-4887)tCt>tTt
T	c.1553G>A	c.(1552-1554)cGg>cAg
A	c.1351G>A	c.(1351-1353)Gaa>Aaa
T	c.1114G>A	c.(1114-1116)Ggg>Agg
T	c.24G>A	c.(22-24)tcG>tcA
A		
A	c.237G>A	c.(235-237)atG>atA
A	c.2247G>A	c.(2245-2247)tcG>tcA
A	c.14C>T	c.(13-15)tCc>tTc
A	c.1506G>A	c.(1504-1506)caG>caA
G		
A	c.1192G>A	c.(1192-1194)Gag>Aag
A	c.4125C>T	c.(4123-4125)tcC>tcT

A		
A	c.799G>A	c.(799-801)Gaa>Aaa
A	c.1314C>T	c.(1312-1314)tcC>tcT
T	c.98C>T	c.(97-99)tCg>tTg
T	c.2276C>T	c.(2275-2277)cCg>cTg
A		
A		
T	c.868G>A	c.(868-870)Gac>Aac
T	c.1528C>T	c.(1528-1530)Ccc>Tcc
A	c.997C>T	c.(997-999)Ccc>Tcc
C	c.2047T>C	c.(2047-2049)Ttt>Ctt
T		
A	c.160G>A	c.(160-162)Gat>Aat
C		
A	c.1089C>T	c.(1087-1089)tcC>tcT
T	c.4051G>A	c.(4051-4053)Gat>Aat
A	c.978C>T	c.(976-978)gaC>gaT
T	c.1248G>A	c.(1246-1248)gtG>gtA
A	c.315C>T	c.(313-315)acC>acT
T	c.944G>A	c.(943-945)tGg>tAg
T		
T	c.289C>T	c.(289-291)Ctc>Ttc
T	c.44C>T	c.(43-45)tCc>tTc
T	c.480C>T	c.(478-480)ttC>ttT
A	c.1088G>A	c.(1087-1089)gGa>gAa
T	c.1261C>T	c.(1261-1263)Cgc>Tgc
T	c.542C>T	c.(541-543)tCc>tTc
A	c.55_splice	c.e11-1
T		
A	c.188C>T	c.(187-189)cCg>cTg
A		
A	c.1304G>A	c.(1303-1305)cGg>cAg
T	c.586G>A	c.(586-588)Gaa>Aaa
A	c.2042C>T	c.(2041-2043)tCa>tTa
T	c.232C>T	c.(232-234)Ccc>Tcc
A	c.658G>A	c.(658-660)Ggt>Agt
A	c.298G>A	c.(298-300)Ggg>Agg
T	c.1001T>A	c.(1000-1002)tTt>tAt
T	c.1291G>A	c.(1291-1293)Gac>Aac
T		
A		
T		
A	c.343_splice	c.e3+1



T	c.1212C>T	c.(1210-1212)ttC>ttT
A	c.353G>A	c.(352-354)gGa>gAa
A	c.1023G>A	c.(1021-1023)atG>atA
T	c.6201C>T	c.(6199-6201)tcC>tcT
T	c.1729G>A	c.(1729-1731)Gaa>Aaa
A	c.221G>A	c.(220-222)cGa>cAa
A		
T	c.506C>T	c.(505-507)tCc>tTc
A	c.637C>T	c.(637-639)Ccc>Tcc
T	c.446C>T	c.(445-447)tCc>tTc
A	c.4943A>T	c.(4942-4944)gAt>gTt
T	c.3866C>T	c.(3865-3867)gCc>gTc
T	c.3084C>T	c.(3082-3084)ttC>ttT
C	c.1098T>G	c.(1096-1098)taT>taG
A		
A	c.3768G>A	c.(3766-3768)gtG>gtA
T	c.4439C>T	c.(4438-4440)aCt>aTt
T	c.1143C>T	c.(1141-1143)ttC>ttT
A	c.116C>T	c.(115-117)cCc>cTc
T	c.5337G>A	c.(5335-5337)agG>agA
T	c.5449G>A	c.(5449-5451)Gag>Aag
T	c.851G>A	c.(850-852)aGt>aAt
T	c.598G>A	
A	c.811G>A	c.(811-813)Gac>Aac
T	c.3660G>A	c.(3658-3660)aaG>aaA
T	c.3077C>T	c.(3076-3078)cCc>cTc
A	c.63C>T	c.(61-63)ccC>ccT
T	c.1379C>T	c.(1378-1380)aCt>aTt
A	c.5422C>T	c.(5422-5424)Cct>Tct
A		
A	c.1202G>A	c.(1201-1203)gGg>gAg
T	c.2746G>A	c.(2746-2748)Gaa>Aaa
T	c.388C>T	c.(388-390)Ccc>Tcc
A	c.1107C>T	c.(1105-1107)atC>atT
A	c.452C>T	c.(451-453)cCc>cTc
T	c.1965C>T	c.(1963-1965)ccC>ccT
A	c.2465C>T	c.(2464-2466)cCc>cTc
T	c.107C>T	c.(106-108)aCg>aTg
T	c.1269C>T	c.(1267-1269)ctC>ctT
T	c.376C>T	c.(376-378)Cgt>Tgt
T	c.2239C>T	c.(2239-2241)Cgg>Tgg
T	c.336C>T	c.(334-336)atC>atT
T	c.33205G>A	

T	c.814C>T	c.(814-816)Cct>Tct
T	c.1114G>A	c.(1114-1116)Gat>Aat
T	c.692G>A	c.(691-693)gGa>gAa
A	c.6782C>T	c.(6781-6783)cCt>cTt
T	c.1285G>A	c.(1285-1287)Ggc>Agc
T		
A		
A	c.675G>A	c.(673-675)ggG>ggA
T		
A	c.6448G>A	c.(6448-6450)Gag>Aag
A	c.588G>A	c.(586-588)aaG>aaA
T	c.1223C>T	c.(1222-1224)tCc>tTc
A		
T	c.1995G>A	c.(1993-1995)ggG>ggA
T		
A	c.1426C>T	c.(1426-1428)Cgg>Tgg
A	c.309C>T	c.(307-309)tcC>tcT
T	c.852C>T	c.(850-852)agC>agT
T		
A		
T	c.472G>A	c.(472-474)Gat>Aat
A	c.3913G>A	c.(3913-3915)Gat>Aat
A	c.216C>T	c.(214-216)ctC>ctT
T	c.89C>T	c.(88-90)gCc>gTc
T	c.34C>T	c.(34-36)Cca>Tca
G	c.8C>G	
C		
A		
A	c.2601C>T	c.(2599-2601)caC>caT
T	c.100C>T	c.(100-102)Cca>Tca
A	c.1456G>A	c.(1456-1458)Gaa>Aaa
T	c.288C>T	c.(286-288)gcC>gcT
T	c.4341G>A	c.(4339-4341)tgG>tgA
T	c.1016C>T	c.(1015-1017)tCc>tTc
A	c.1473C>T	c.(1471-1473)aaC>aaT
A	c.1206G>A	c.(1204-1206)ctG>ctA
T	c.1162C>T	c.(1162-1164)Ccc>Tcc
G	c.349_splice	c.e2+1
A	c.2113G>A	c.(2113-2115)Gat>Aat
A	c.694C>T	c.(694-696)Cgc>Tgc
T	c.537C>T	c.(535-537)tcC>tcT
A	c.3769G>A	c.(3769-3771)Gat>Aat
T	c.645G>A	c.(643-645)ggG>ggA

T	c.326_splice	c.e4-1
A	c.679C>T	c.(679-681)Ccc>Tcc
T	c.2141C>T	c.(2140-2142)cCa>cTa
T	c.1791G>A	c.(1789-1791)ctG>ctA
A	c.2558C>T	c.(2557-2559)cCc>cTc
C	c.858A>C	c.(856-858)ctA>ctC
T	c.529G>A	c.(529-531)Gac>Aac
A	c.2789C>T	c.(2788-2790)cCa>cTa
T	c.1478C>T	c.(1477-1479)tCc>tTc
T	c.3550G>A	c.(3550-3552)Gaa>Aaa
T	c.1029C>T	c.(1027-1029)ttC>ttT
A	c.3362C>T	c.(3361-3363)cCa>cTa
A	c.2928C>T	c.(2926-2928)ccC>ccT
A	c.3108C>T	c.(3106-3108)atC>atT
T	c.2617G>A	c.(2617-2619)Gac>Aac
G	c.80A>C	c.(79-81)cAc>cCc
T		
T	c.327C>T	c.(325-327)acC>acT
A		
T	c.948C>T	c.(946-948)atC>atT
A	c.115C>T	c.(115-117)Ccc>Tcc
A	c.1017C>T	c.(1015-1017)ttC>ttT
T	c.1798C>T	c.(1798-1800)Cct>Tct
T		
T	c.1111G>A	c.(1111-1113)Gaa>Aaa
A	c.1293C>T	c.(1291-1293)tcC>tcT
T	c.4954G>A	c.(4954-4956)Gaa>Aaa
T	c.3157C>T	c.(3157-3159)Ctc>Ttc
G	c.589T>C	c.(589-591)Ttg>Ctg
T	c.932G>A	c.(931-933)gGg>gAg
A	c.1866G>A	c.(1864-1866)gaG>gaA
A		
T	c.338C>T	c.(337-339)tCc>tTc
A	c.671C>T	c.(670-672)gCt>gTt
A	c.5231G>A	c.(5230-5232)gGa>gAa
T	c.549G>A	c.(547-549)agG>agA
A	c.249G>A	c.(247-249)gaG>gaA
T	c.1075C>T	c.(1075-1077)Ctt>Ttt
A	c.536G>A	c.(535-537)aGg>aAg
A	c.2185C>T	c.(2185-2187)Cct>Tct
A	c.661G>A	c.(661-663)Gaa>Aaa
T	c.109G>A	
T	c.1416C>T	c.(1414-1416)ttC>ttT

A	c.2498C>T	c.(2497-2499)tCc>tTc
A		
T	c.6422C>T	c.(6421-6423)aCc>aTc
A	c.1522C>A	c.(1522-1524)Cgc>Agc
T	c.2930C>T	c.(2929-2931)tCc>tTc
A	c.1886C>T	c.(1885-1887)gCc>gTc
A	c.3076G>A	c.(3076-3078)Ggg>Agg
A	c.110C>T	c.(109-111)aCa>aTa
A	c.574C>T	c.(574-576)Ctg>Ttg
T	c.2314C>T	c.(2314-2316)Cct>Tct
A	c.848C>T	c.(847-849)gCc>gTc
A		
A		
A	c.3756C>T	c.(3754-3756)atC>atT
T		
T	c.2275C>T	c.(2275-2277)Ctc>Ttc
T	c.164C>T	c.(163-165)cCc>cTc
T	c.278C>T	c.(277-279)tCc>tTc
A	c.2196C>T	c.(2194-2196)ctC>ctT
A	c.2089C>T	c.(2089-2091)Ccg>Tcg
A	c.-42_splice	c.e1-1
A	c.4528C>T	c.(4528-4530)Cgc>Tgc
A	c.1072C>T	c.(1072-1074)Cac>Tac
T		
T	c.361G>A	c.(361-363)Gag>Aag
A	c.4236C>T	c.(4234-4236)tcC>tcT
A	c.1234C>T	c.(1234-1236)Cag>Tag
A		
A	c.424G>A	c.(424-426)Gaa>Aaa
T		
T	c.640G>A	c.(640-642)Gaa>Aaa
T	c.1899G>A	c.(1897-1899)gtG>gtA
T	c.423C>T	c.(421-423)acC>acT
T	c.483C>T	c.(481-483)ttC>ttT
T	c.9616G>A	c.(9616-9618)Gaa>Aaa
T	c.631G>A	c.(631-633)Ggg>Agg
A	c.875C>T	c.(874-876)tCc>tTc
T	c.307C>T	c.(307-309)Ctg>Ttg
A	c.2018C>T	c.(2017-2019)tCg>tTg
A	c.1195C>T	c.(1195-1197)Ctc>Ttc
A	c.39C>T	c.(37-39)ttC>ttT
A	c.250G>A	c.(250-252)Ggt>Agt
T	c.2826C>T	c.(2824-2826)gtC>gtT

A	c.863G>A	c.(862-864)gGc>gAc
A	c.607C>T	c.(607-609)Cca>Tca
A	c.349C>T	c.(349-351)Cat>Tat
A	c.216C>T	c.(214-216)ttC>ttT
T	c.2617G>A	c.(2617-2619)Gac>Aac
A	c.142_splice	c.e1+1
T	c.315C>T	c.(313-315)ctC>ctT
A	c.133G>A	c.(133-135)Gaa>Aaa
T	c.544G>A	c.(544-546)Gga>Aga
A	c.550G>A	c.(550-552)Gaa>Aaa
A	c.1495C>T	c.(1495-1497)Ccc>Tcc
A	c.1825C>T	c.(1825-1827)Ctc>Ttc
T	c.1446C>T	c.(1444-1446)tcC>tcT
A	c.1113C>T	c.(1111-1113)ttC>ttT
T	c.384G>A	c.(382-384)gaG>gaA
A	c.1241G>A	c.(1240-1242)gGa>gAa
T		
T	c.130G>A	c.(130-132)Gaa>Aaa
A	c.2575G>A	c.(2575-2577)Gaa>Aaa
A		
A	c.203C>T	c.(202-204)tCc>tTc
T	c.3158C>T	c.(3157-3159)tCa>tTa
A		
A	c.789C>T	c.(787-789)acC>acT
T	c.654C>T	c.(652-654)ctC>ctT
T	c.352C>T	c.(352-354)Ccg>Tcg
T	c.536C>T	c.(535-537)tCc>tTc
T	c.1994C>T	c.(1993-1995)tCt>tTt
T	c.485G>A	c.(484-486)tGg>tAg
A	c.1255C>T	c.(1255-1257)Cca>Tca
T	c.2977C>T	c.(2977-2979)Cgc>Tgc
A	c.2621C>T	c.(2620-2622)aCc>aTc
T	c.5717C>T	c.(5716-5718)aCc>aTc
A	c.671C>T	c.(670-672)cCc>cTc
T	c.3012C>T	
A	c.636G>A	c.(634-636)agG>agA
T	c.1395G>A	c.(1393-1395)aaG>aaa
C	c.1314A>G	c.(1312-1314)gcA>gcG
A	c.477_splice	c.e5+1
A	c.77C>T	c.(76-78)cCc>cTc
T	c.377_splice	c.e3-1
T	c.1313T>A	c.(1312-1314)tTc>tAc
T	c.288G>A	c.(286-288)ggG>ggA

T	c.207_splice	c.e3-1
T	c.2756G>A	c.(2755-2757)tGg>tAg
A	c.1699C>T	c.(1699-1701)Cat>Tat
T	c.1737G>A	
A		
T	c.34G>A	c.(34-36)Gcc>Acc
T	c.922G>A	c.(922-924)Gag>Aag
T	c.1163C>T	c.(1162-1164)tCg>tTg
A	c.2474C>T	c.(2473-2475)tCc>tTc
A	c.458G>A	c.(457-459)aGa>aAa
T	c.823C>T	c.(823-825)Cct>Tct
A		
T	c.1064C>T	c.(1063-1065)tCc>tTc
T		
A	c.5423C>T	c.(5422-5424)cCt>cTt
A	c.8141C>T	c.(8140-8142)cCa>cTa
T	c.957G>A	c.(955-957)atG>atA
A	c.806G>A	c.(805-807)gGt>gAt
T		
T	c.2097G>A	c.(2095-2097)ctG>ctA
A	c.1769C>T	c.(1768-1770)cCc>cTc
A	c.807C>T	c.(805-807)atC>atT
A	c.1019G>A	c.(1018-1020)gGt>gAt
A	c.890G>A	c.(889-891)cGg>cAg
T	c.2102C>T	c.(2101-2103)gCc>gTc
T	c.950C>T	c.(949-951)gCc>gTc
A	c.3296G>A	c.(3295-3297)cGa>cAa
A	c.785G>A	c.(784-786)cGa>cAa
T	c.469C>T	c.(469-471)Ccc>Tcc
A		
A	c.1996C>T	c.(1996-1998)Ctg>Ttg
C	c.2984A>G	c.(2983-2985)tAt>tGt
A	c.4761C>T	c.(4759-4761)tcC>tcT
T	c.7683G>A	c.(7681-7683)agG>agA
T		
T	c.137G>A	c.(136-138)cGc>cAc
A	c.984C>T	c.(982-984)ttC>ttT
T	c.2000C>T	c.(1999-2001)cCc>cTc
A	c.1642C>T	c.(1642-1644)Ccc>Tcc
T	c.390C>T	c.(388-390)ccC>ccT
T	c.809G>A	c.(808-810)gGa>gAa
T	c.1263C>T	c.(1261-1263)atC>atT
T	c.2796G>A	c.(2794-2796)tgG>tgA

T	c.168C>T	c.(166-168)ctC>ctT
A	c.1686C>T	c.(1684-1686)ccC>ccT
T	c.1763C>T	c.(1762-1764)tCg>tTg
A	c.34C>T	c.(34-36)Cca>Tca
T		
A	c.299G>A	c.(298-300)gGg>gAg
T	c.616G>A	c.(616-618)Ggc>Agc
A	c.55G>A	c.(55-57)Gat>Aat
A	c.1725G>A	c.(1723-1725)ctG>ctA
T	c.343C>T	c.(343-345)Ccc>Tcc
T	c.1757G>A	c.(1756-1758)gGc>gAc
T	c.1179G>A	c.(1177-1179)acG>acA
A	c.1448C>T	c.(1447-1449)tCc>tTc
A	c.383C>T	c.(382-384)cCt>cTt
T	c.5239G>A	c.(5239-5241)Gat>Aat
A	c.3325C>T	c.(3325-3327)Ccc>Tcc
A	c.84C>T	
T	c.1023G>A	c.(1021-1023)agG>agA
A	c.1663G>A	c.(1663-1665)Gac>Aac
A	c.142G>A	c.(142-144)Gag>Aag
T	c.421G>A	c.(421-423)Gga>Aga
T	c.923C>T	c.(922-924)cCa>cTa
T	c.1921_splice	c.e7-1
T	c.32G>A	c.(31-33)aGg>aAg
A	c.276G>A	c.(274-276)agG>agA
A	c.1764G>A	c.(1762-1764)ctG>ctA
A	c.2404G>A	c.(2404-2406)Gag>Aag
T	c.2278C>T	c.(2278-2280)Cgg>Tgg
A	c.382C>T	c.(382-384)Cca>Tca
T	c.445G>A	c.(445-447)Gag>Aag
T	c.1138C>T	c.(1138-1140)Ccg>Tcg
A		
T	c.1489C>T	c.(1489-1491)Cct>Tct
A	c.1294C>T	c.(1294-1296)Cat>Tat
T	c.1493G>A	c.(1492-1494)cGa>cAa
A	c.822G>A	c.(820-822)cgG>cgA
A	c.1207C>T	c.(1207-1209)Ctg>Ttg
A	c.762C>T	c.(760-762)ccC>ccT
T		
T		
T	c.27C>T	c.(25-27)gcC>gcT
A	c.1334G>A	c.(1333-1335)aGg>aAg
T	c.1767C>T	c.(1765-1767)ctC>ctT

T	c.924C>T	c.(922-924)atC>atT
A	c.72C>T	c.(70-72)ctC>ctT
A	c.568G>A	c.(568-570)Ggc>Agc
A	c.1699G>A	c.(1699-1701)Gaa>Aaa
A		
A	c.1094C>T	c.(1093-1095)cCg>cTg
A	c.1607C>T	c.(1606-1608)cCc>cTc
A	c.657G>A	c.(655-657)gaG>gaA
A	c.1306C>T	c.(1306-1308)Cgc>Tgc
T	c.963C>T	c.(961-963)ttC>ttT
A	c.2178C>T	c.(2176-2178)ttC>ttT
T	c.2483G>A	c.(2482-2484)cGa>cAa
A	c.205G>A	c.(205-207)Gaa>Aaa
T	c.6503C>T	c.(6502-6504)cCc>cTc
A	c.508C>T	c.(508-510)Cgc>Tgc
A	c.538G>A	c.(538-540)Ggc>Agc
T	c.931G>A	c.(931-933)Ggg>Agg
T	c.399C>T	c.(397-399)atC>atT
T	c.936C>T	c.(934-936)aaC>aaT
A	c.49G>A	c.(49-51)Gat>Aat
T	c.825G>A	c.(823-825)atG>atA
A	c.2913C>T	c.(2911-2913)ccC>ccT
A	c.7091C>T	c.(7090-7092)cCc>cTc
A	c.1196C>T	c.(1195-1197)tCc>tTc
A	c.931C>T	c.(931-933)Cgt>Tgt
A	c.502C>T	c.(502-504)Cag>Tag
A	c.1685C>T	c.(1684-1686)cCc>cTc
T		
T		
A	c.1512C>T	c.(1510-1512)acC>acT
T	c.85C>T	c.(85-87)Cct>Tct
T	c.244C>T	c.(244-246)Ctt>Ttt
A	c.335C>T	c.(334-336)cCc>cTc
T	c.1007C>T	c.(1006-1008)tCc>tTc
T	c.2247C>T	c.(2245-2247)ttC>ttT
A	c.1810C>T	c.(1810-1812)Ccc>Tcc
T	c.1000G>A	c.(1000-1002)Gaa>Aaa
T	c.670C>T	c.(670-672)Cag>Tag
A	c.276G>A	c.(274-276)gaG>gaA
T	c.474C>T	c.(472-474)atC>atT
A	c.101G>A	c.(100-102)gGa>gAa
T		
A	c.977A>T	c.(976-978)gAc>gTc



T	c.2434C>T	c.(2434-2436)Cct>Tct
T	c.782C>T	c.(781-783)cCc>cTc
T		
G	c.158A>G	c.(157-159)aAc>aGc
A	c.1063G>A	c.(1063-1065)Gaa>Aaa
A		
T	c.1714C>T	c.(1714-1716)Caa>Taa
A	c.1102G>A	c.(1102-1104)Gag>Aag
T	c.882C>T	c.(880-882)atC>atT
T	c.1125G>A	c.(1123-1125)ggG>ggA
T	c.1056C>T	c.(1054-1056)atC>atT
T	c.1339C>T	c.(1339-1341)Ccc>Tcc
T	c.2193C>T	c.(2191-2193)atC>atT
A	c.700C>T	c.(700-702)Ccc>Tcc
T	c.612G>A	c.(610-612)gaG>gaA
A	c.3044C>T	c.(3043-3045)cCa>cTa
T	c.820G>A	c.(820-822)Gag>Aag
T	c.3704C>T	c.(3703-3705)tCc>tTc
T	c.666C>T	c.(664-666)tcC>tcT
C	c.220C>G	c.(220-222)Caa>Gaa
A	c.642C>T	c.(640-642)gtC>gtT
A	c.807C>T	c.(805-807)gtC>gtT
A	c.1184G>A	c.(1183-1185)gGa>gAa
A	c.160G>A	c.(160-162)Ggc>Agc
T	c.3239G>A	c.(3238-3240)gGa>gAa
C		
T	c.1413G>A	c.(1411-1413)aaG>aaA
T	c.375G>A	c.(373-375)ctG>ctA
A	c.508C>T	c.(508-510)Ccc>Tcc
A	c.1414G>A	c.(1414-1416)Gga>Aga
A	c.1762C>T	c.(1762-1764)Cga>Tga
A	c.824G>A	c.(823-825)gGa>gAa
A	c.153C>T	c.(151-153)ttC>ttT
A	c.2362G>A	c.(2362-2364)Gaa>Aaa
A	c.-139_splice	c.e2-1
G	c.2388G>C	c.(2386-2388)caG>caC
T	c.1350C>T	c.(1348-1350)ttC>ttT
C	c.1223A>G	c.(1222-1224)aAc>aGc
A	c.241C>T	c.(241-243)Cgg>Tgg
T	c.800C>T	c.(799-801)tCc>tTc
A	c.5726C>T	c.(5725-5727)tCc>tTc
A	c.2330C>T	c.(2329-2331)cCc>cTc
T	c.394G>A	c.(394-396)Gga>Aga

A	c.1242G>A	c.(1240-1242)ccG>ccA
A	c.106G>A	c.(106-108)Gag>Aag
T	c.529C>T	c.(529-531)Ctg>Ttg
T	c.509G>A	c.(508-510)cGa>cAa
A	c.1993G>A	c.(1993-1995)Gat>Aat
T	c.707G>A	c.(706-708)tGg>tAg
A	c.2322C>T	c.(2320-2322)tcC>tcT
T	c.5687C>T	c.(5686-5688)tCc>tTc
A	c.-29_splice	c.e3-1
A	c.730G>A	c.(730-732)Gaa>Aaa
A	c.62C>T	c.(61-63)tCc>tTc
A	c.297C>T	c.(295-297)tcC>tcT
A	c.571C>T	c.(571-573)Ccc>Tcc
A	c.648G>A	c.(646-648)agG>agA
A	c.76C>T	c.(76-78)Ccc>Tcc
A	c.231G>A	c.(229-231)tGg>tGgA
A	c.40690C>T	c.(40690-40692)Cgt>Tgt
T	c.436G>T	c.(436-438)Gac>Tac
A	c.2019C>T	c.(2017-2019)ggC>ggT
T	c.3061G>A	c.(3061-3063)Gaa>Aaa
T	c.445C>T	c.(445-447)Cgc>Tgc
T	c.1522C>T	c.(1522-1524)Cga>Tga
A	c.4276G>A	c.(4276-4278)Gga>Aga
A		
A	c.1606C>T	c.(1606-1608)Ccc>Tcc
T		
T	c.1351C>T	c.(1351-1353)Cga>Tga
A	c.921G>A	c.(919-921)caG>caA
A	c.2220C>T	c.(2218-2220)tcC>tcT
T	c.3884G>A	c.(3883-3885)gGa>gAa
A	c.1590G>A	c.(1588-1590)acG>acA
A	c.593C>T	c.(592-594)cCc>cTc
T	c.1699C>T	c.(1699-1701)Ctc>Ttc
A	c.8404C>T	c.(8404-8406)Cat>Tat
A	c.33918C>T	
T	c.3025G>A	c.(3025-3027)Gac>Aac
A	c.4705G>A	c.(4705-4707)Gga>Aga
A	c.392C>T	c.(391-393)cCc>cTc
T	c.22G>A	c.(22-24)Gtg>Atg
C		
T	c.928C>T	c.(928-930)Ccg>Tcg
A	c.761C>T	c.(760-762)tCg>tTg
T		

T	c.672C>T	c.(670-672)atC>atT
T	c.407C>T	c.(406-408)tCc>tTc
A	c.90C>T	c.(88-90)atC>atT
T	c.9881C>T	c.(9880-9882)cCt>cTt
A	c.58G>A	c.(58-60)Gac>Aac
T	c.205C>T	c.(205-207)Ctc>Ttc
T	c.1041G>A	c.(1039-1041)atG>atA
T	c.473G>A	c.(472-474)aGg>aAg
T	c.3144G>A	c.(3142-3144)atG>atA
G	c.909A>G	c.(907-909)ttA>ttG
T	c.772G>A	c.(772-774)Gaa>Aaa
T	c.2140G>A	c.(2140-2142)Gaa>Aaa
T	c.587G>A	c.(586-588)aGa>aAa
A	c.1330C>T	c.(1330-1332)Ccc>Tcc
A	c.225C>T	c.(223-225)tcC>tcT
A	c.3484C>T	c.(3484-3486)Ctg>Ttg
A	c.2913C>T	c.(2911-2913)atC>atT
A	c.6330C>T	c.(6328-6330)gaC>gaT
T	c.2727C>T	c.(2725-2727)ttC>ttT
C	c.2655A>G	
A		
T	c.600G>A	c.(598-600)gaG>gaA
A	c.576C>T	c.(574-576)ctC>ctT
T	c.652G>A	c.(652-654)Gag>Aag
T	c.7782C>T	c.(7780-7782)ttC>ttT
T	c.1033C>T	c.(1033-1035)Cgt>Tgt
A	c.2549C>T	c.(2548-2550)cCg>cTg
T		
A	c.83C>T	c.(82-84)cCc>cTc
T	c.831G>A	c.(829-831)atG>atA
A	c.1398C>T	c.(1396-1398)ctC>ctT
A	c.163G>A	c.(163-165)Gga>Aga
T	c.261C>T	c.(259-261)ttC>ttT
A	c.1133C>T	c.(1132-1134)gCc>gTc
T	c.447C>T	c.(445-447)tcC>tcT
A	c.570G>A	c.(568-570)acG>acA
A	c.2458C>T	c.(2458-2460)Cat>Tat
T	c.1159G>A	c.(1159-1161)Gag>Aag
A	c.73G>A	c.(73-75)Gga>Aga
C	c.1068A>C	c.(1066-1068)gcA>gcC
T	c.2591G>A	c.(2590-2592)aGa>aAa
T	c.872G>A	c.(871-873)aGg>aAg
T	c.356C>T	c.(355-357)cCt>cTt

T	c.1252C>T	c.(1252-1254)Caa>Taa
T	c.117A>T	c.(115-117)ggA>ggT
T	c.5860G>A	c.(5860-5862)Gat>Aat
G	c.330A>C	c.(328-330)caA>caC
C	c.1147C>G	c.(1147-1149)Cca>Gca
T	c.452C>T	c.(451-453)cCa>cTa
T	c.1299C>T	c.(1297-1299)tgC>tgT
T	c.772G>A	c.(772-774)Gga>Aga
T	c.1240C>T	c.(1240-1242)Cct>Tct
T		
C	c.3568T>G	c.(3568-3570)Ttt>Gtt
T		
T	c.1208G>A	c.(1207-1209)gGa>gAa
A	c.1123G>A	c.(1123-1125)Gag>Aag
T	c.422C>T	c.(421-423)tCa>tTa
T	c.5809G>A	c.(5809-5811)Gct>Act
A	c.2169C>T	c.(2167-2169)ctC>ctT
A	c.4157_splice	c.e25-1
A	c.2288C>T	c.(2287-2289)tCc>tTc
A	c.2181C>T	c.(2179-2181)ggC>ggT
T	c.1387C>T	c.(1387-1389)Ccg>Tcg
A	c.446C>T	c.(445-447)aCg>aTg
T	c.1756G>A	c.(1756-1758)Ggc>Agc
A	c.654G>A	c.(652-654)aaG>aaA
T	c.763G>A	c.(763-765)Gaa>Aaa
A	c.901C>T	c.(901-903)Ctg>Ttg
C	c.545T>G	c.(544-546)aTt>aGt
A	c.2086C>T	c.(2086-2088)Cag>Tag
T	c.4980C>T	c.(4978-4980)tcC>tcT
C	c.872T>C	c.(871-873)cTt>cCt
T	c.1104C>T	c.(1102-1104)ccC>ccT
A	c.580C>T	c.(580-582)Cgt>Tgt
A	c.1671C>T	c.(1669-1671)ttC>ttT
T	c.1543C>T	c.(1543-1545)Ctt>Ttt
A	c.-29_splice	c.e3-1
T	c.204G>A	c.(202-204)aaG>aaA
T	c.1237G>A	c.(1237-1239)Gtg>Atg
T	c.1600G>A	c.(1600-1602)Gag>Aag
C		
T	c.12569C>T	c.(12568-12570)tCc>tTc
T	c.5943C>T	c.(5941-5943)ttC>ttT
T	c.794C>T	c.(793-795)tCt>tTt
A	c.759C>T	c.(757-759)ttC>ttT

A	c.477_splice	c.e5+1
C	c.398A>G	c.(397-399)aAg>aGg
T	c.241G>A	c.(241-243)Ggt>Agt
T		
T	c.510G>A	c.(508-510)gtG>gtA
T	c.2178G>A	c.(2176-2178)atG>atA
A	c.634C>T	c.(634-636)Ccg>Tcg
T	c.973G>A	c.(973-975)Gag>Aag
A	c.5351G>A	c.(5350-5352)gGa>gAa
A	c.2123G>A	c.(2122-2124)aGa>aAa
A	c.163G>A	c.(163-165)Gag>Aag
A	c.1069G>A	c.(1069-1071)Gat>Aat
A	c.1795G>A	c.(1795-1797)Gaa>Aaa
T	c.142C>T	c.(142-144)Cca>Tca
A	c.638C>T	c.(637-639)gCc>gTc
T		
A	c.3240C>T	c.(3238-3240)atC>atT
A	c.284C>T	c.(283-285)tCt>tTt
A	c.1183C>T	c.(1183-1185)Ccc>Tcc
A		
T		
T	c.1032C>T	c.(1030-1032)aaC>aaT
T	c.693C>T	c.(691-693)tcC>tcT
T	c.2059C>T	c.(2059-2061)Cat>Tat
T	c.226T>A	c.(226-228)Tct>Act
T	c.2671C>T	c.(2671-2673)Ccc>Tcc
T	c.2244C>T	c.(2242-2244)atC>atT
T		
T	c.1305_splice	c.e11+1
A	c.8203_splice	c.e53+1
T	c.12346G>A	c.(12346-12348)Gat>Aat
T	c.162G>A	c.(160-162)gaG>gaA
A	c.572G>A	c.(571-573)gGa>gAa
T	c.1460C>T	c.(1459-1461)cCt>cTt
A	c.660G>A	c.(658-660)aaG>aaA
T	c.932C>T	c.(931-933)gCt>gTt
A	c.413C>T	c.(412-414)tCc>tTc
T	c.103C>T	c.(103-105)Ccg>Tcg
T	c.2746C>T	c.(2746-2748)Cgc>Tgc
A	c.2684C>T	c.(2683-2685)cCc>cTc
T	c.638C>T	c.(637-639)tCc>tTc
C		
A	c.636G>A	c.(634-636)atG>atA

T	c.4615G>A	c.(4615-4617)Gag>Aag
C	c.509T>C	c.(508-510)tTa>tCa
T	c.996C>T	c.(994-996)tcC>tcT
A	c.3665C>T	c.(3664-3666)tCa>tTa
C		
A	c.281G>A	c.(280-282)gGg>gAg
T	c.3083G>A	c.(3082-3084)gGa>gAa
A	c.2495G>A	c.(2494-2496)gGa>gAa
A	c.461C>T	c.(460-462)cCc>cTc
A	c.8061G>A	c.(8059-8061)ttG>ttA
A	c.121C>T	c.(121-123)Cca>Tca
T	c.4069G>A	c.(4069-4071)Ggt>Agt
A	c.295G>A	c.(295-297)Gat>Aat
A	c.1653C>T	c.(1651-1653)tcC>tcT
A	c.1015G>A	c.(1015-1017)Gaa>Aaa
T	c.2176C>T	c.(2176-2178)Cct>Tct
T		
A	c.1014G>A	c.(1012-1014)gaG>gaA
A	c.642C>T	c.(640-642)gcC>gcT
C	c.288G>C	c.(286-288)cgG>cgC
T	c.262G>A	c.(262-264)Gat>Aat
T	c.283C>T	c.(283-285)Cct>Tct
A		
C		
T		
T	c.1065C>T	c.(1063-1065)tcC>tcT
G	c.12758G>C	c.(12757-12759)gGa>gCa
A		
A	c.6408G>A	c.(6406-6408)atG>atA
A		
T	c.151_splice	c.e2-1
A	c.604C>T	c.(604-606)Cgg>Tgg
A	c.1687G>A	c.(1687-1689)Gaa>Aaa
T	c.71C>T	c.(70-72)cCa>cTa
A	c.8392G>A	c.(8392-8394)Gat>Aat
A	c.44C>T	c.(43-45)gCc>gTc
AAGT	c.3870_3871insACTT	c.(3868-3873)cttcatfs
-	c.118_119delCC	c.(118-120)cccf
-	c.6506_6508delAGA	c.(6505-6510)aagatc>atc
A	c.1055C>T	c.(1054-1056)tCg>tTg
T	c.2260C>T	c.(2260-2262)Cct>Tct
A	c.2190C>T	c.(2188-2190)acC>acT
A		

A	c.1410C>T	c.(1408-1410)gaC>gaT
A	c.649C>T	c.(649-651)Cgt>Tgt
A	c.2903C>T	c.(2902-2904)tCg>tTg
A	c.699G>A	c.(697-699)agG>agA
A		
T	c.1910G>A	c.(1909-1911)cGa>cAa
T	c.1015_splice	c.e8+1
T	c.791C>T	c.(790-792)tCc>tTc
A	c.4204C>T	c.(4204-4206)Cct>Tct
T	c.12A>T	c.(10-12)gaA>gaT
T	c.1717C>T	c.(1717-1719)Ctt>Ttt
A	c.147C>T	c.(145-147)ttC>ttT
T	c.1314G>A	c.(1312-1314)ggG>ggA
T	c.34711_splice	c.e179+1
T	c.465G>A	c.(463-465)atG>atA
G	c.230G>C	c.(229-231)cGa>cCa
T		
T	c.430G>A	c.(430-432)Gcg>Acg
A	c.808G>A	c.(808-810)Gat>Aat
T		
T		
T	c.3970G>A	c.(3970-3972)Gag>Aag
T	c.1323C>T	c.(1321-1323)ttC>ttT
T	c.574G>T	c.(574-576)Gga>Tga
T	c.369G>A	c.(367-369)acG>acA
T	c.308C>T	c.(307-309)cCt>cTt
T		
T	c.1495C>T	c.(1495-1497)Cgc>Tgc
A	c.19C>A	c.(19-21)Cac>Aac
A	c.1122G>A	c.(1120-1122)acG>acA
T	c.2965C>T	c.(2965-2967)Cga>Tga
T	c.54G>A	c.(52-54)ctG>ctA
A	c.589G>A	c.(589-591)Gaa>Aaa
T	c.2786_splice	c.e17-1
T	c.106C>T	c.(106-108)Cag>Tag
C	c.182A>G	c.(181-183)cAa>cGa
A	c.2315C>T	c.(2314-2316)cCt>cTt
C		
T	c.7G>A	c.(7-9)Gac>Aac
A	c.927C>T	c.(925-927)gtC>gtT
A	c.1621C>T	c.(1621-1623)Cgc>Tgc
T	c.513C>T	c.(511-513)ttC>ttT
T	c.2100G>A	c.(2098-2100)agG>agA

A	c.1251C>A	c.(1249-1251)ttC>ttA
T	c.2409C>T	c.(2407-2409)tcC>tcT
G	c.736A>G	c.(736-738)Atg>Gtg
A		
T	c.296G>A	c.(295-297)gGa>gAa
A	c.310C>T	c.(310-312)Ccg>Tcg
A	c.369C>T	c.(367-369)tcC>tcT
A	c.1775G>A	c.(1774-1776)aGg>aAg
A		
T		
A	c.399T>A	c.(397-399)aaT>aaA
T	c.163G>A	
C	c.3180_splice	c.e25+1
T	c.868C>A	c.(868-870)Cag>Aag
T	c.3152C>T	c.(3151-3153)tCc>tTc
A	c.3576G>A	c.(3574-3576)ccG>ccA
A	c.1168G>A	c.(1168-1170)Gat>Aat
T	c.1444C>T	c.(1444-1446)Cgg>Tgg
A	c.1696_splice	c.e18-1
A	c.53G>A	c.(52-54)aGg>aAg
A	c.86G>A	c.(85-87)gGa>gAa
A	c.14098C>T	c.(14098-14100)Cct>Tct
T	c.1004G>T	c.(1003-1005)tGg>tTg
T		
A	c.809C>T	c.(808-810)tCa>tTa
T	c.2633C>T	c.(2632-2634)cCc>cTc
T	c.2408C>T	c.(2407-2409)cCt>cTt
A	c.1884_splice	c.e10-1
A	c.2244G>A	c.(2242-2244)ggG>ggA
T	c.96G>A	c.(94-96)gtG>gtA
T	c.2075G>A	c.(2074-2076)tGg>tAg
T	c.1114G>A	c.(1114-1116)Gaa>Aaa
T	c.1720G>A	c.(1720-1722)Gat>Aat
T		
A	c.3478G>A	c.(3478-3480)Gag>Aag
T		
C	c.661A>C	c.(661-663)Aac>Cac
T	c.177G>A	c.(175-177)cgG>cgA
A	c.3465G>A	c.(3463-3465)tgG>tgA
A	c.2781G>A	c.(2779-2781)caG>caA
T	c.77C>T	c.(76-78)cCa>cTa
T	c.270G>A	c.(268-270)atG>atA
T	c.195C>T	c.(193-195)ttC>ttT



T	c.429G>A	c.(427-429)ctG>ctA
A	c.701C>T	c.(700-702)cCa>cTa
A		
T	c.99G>A	c.(97-99)ctG>ctA
C	c.88A>C	c.(88-90)Agc>Cgc
T	c.2450G>A	c.(2449-2451)cGc>cAc
T	c.57G>A	c.(55-57)atG>atA
T	c.481C>T	c.(481-483)Cac>Tac
A	c.2158C>T	c.(2158-2160)Cca>Tca
A	c.1774G>A	c.(1774-1776)Ggt>Agt
T	c.563C>T	c.(562-564)gCc>gTc
T	c.3620G>A	c.(3619-3621)gGa>gAa
A	c.149C>T	c.(148-150)tCt>tTt
A	c.770G>A	c.(769-771)tGg>tAg
A	c.1789C>T	c.(1789-1791)Cgc>Tgc
T	c.1157C>T	c.(1156-1158)tCc>tTc
G	c.373_splice	c.e5-1
T		
T	c.2769C>T	c.(2767-2769)ttC>ttT
T	c.399C>T	c.(397-399)atC>atT
T	c.477C>T	c.(475-477)ttC>ttT
T	c.1656G>A	c.(1654-1656)atG>atA
A	c.9G>T	c.(7-9)caG>caT
T	c.333G>A	c.(331-333)ggG>ggA
A		
T	c.186T>A	c.(184-186)ccT>ccA
A	c.1177C>T	c.(1177-1179)Cct>Tct
T	c.2090G>A	c.(2089-2091)gGa>gAa
A	c.260_splice	c.e4-1
A	c.187G>A	c.(187-189)Gtt>Att
T	c.2030G>A	
A	c.580C>T	c.(580-582)Cct>Tct
T		
A	c.2470C>T	c.(2470-2472)Ctg>Ttg
T	c.352C>T	c.(352-354)Cgg>Tgg
C	c.6620A>G	c.(6619-6621)cAa>cGa
T	c.2390G>A	c.(2389-2391)cGt>cAt
C	c.118A>G	c.(118-120)Aga>Gga
T	c.287_splice	c.e3-1
T	c.819G>A	c.(817-819)aaG>aaA
A	c.716C>T	c.(715-717)tCa>tTa
A	c.814G>A	c.(814-816)Gaa>Aaa
T	c.1000C>T	c.(1000-1002)Cct>Tct

T	c.49G>A	c.(49-51)Gca>Aca
T	c.128G>A	
T	c.910A>T	c.(910-912)Aag>Tag
T	c.291G>A	c.(289-291)atG>atA
A	c.40_splice	c.e1+1
A	c.459C>T	c.(457-459)ttC>ttT
T	c.1180C>T	c.(1180-1182)Cag>Tag
A		
T		
T	c.1900G>A	c.(1900-1902)Gag>Aag
A	c.555G>A	c.(553-555)ccG>ccA
T	c.281C>T	c.(280-282)tCc>tTc
T	c.3951C>T	c.(3949-3951)atC>atT
A	c.191G>T	c.(190-192)gGa>gTa
T	c.60C>T	c.(58-60)gtC>gtT
T		
A	c.3663G>A	c.(3661-3663)cgG>cgA
A	c.1596C>T	c.(1594-1596)ttC>ttT
T	c.650C>T	c.(649-651)cCc>cTc
T	c.833G>A	c.(832-834)aGa>aAa
T		
T	c.1125C>T	c.(1123-1125)agC>agT
T	c.445G>A	c.(445-447)Gag>Aag
A	c.2416_splice	c.e15-1
A	c.252C>T	c.(250-252)tcC>tcT
T	c.647G>A	c.(646-648)cGa>cAa
A	c.1628C>T	c.(1627-1629)tCc>tTc
A	c.1998C>T	c.(1996-1998)gcC>gcT
A	c.2266G>A	c.(2266-2268)Gtg>Atg
T	c.136G>A	c.(136-138)Gaa>Aaa
T	c.2468G>A	c.(2467-2469)gGa>gAa
T	c.56806G>A	c.(56806-56808)Gaa>Aaa
T	c.2377C>T	c.(2377-2379)Ctg>Ttg
A	c.653C>T	c.(652-654)tCc>tTc
T	c.2160G>A	c.(2158-2160)caG>caA
A		
C	c.3833A>G	c.(3832-3834)cAt>cGt
A	c.1012G>A	c.(1012-1014)Gaa>Aaa
A	c.831C>T	c.(829-831)atC>atT
C	c.1355A>G	c.(1354-1356)aAa>aGa
T	c.938C>T	c.(937-939)cCt>cTt
T	c.1092C>T	c.(1090-1092)atC>atT
T	c.1266C>T	c.(1264-1266)gtC>gtT

T	c.10803C>T	c.(10801-10803)gcC>gcT
A	c.588C>T	c.(586-588)tcC>tcT
T	c.783C>T	c.(781-783)atC>atT
G	c.1656G>C	c.(1654-1656)agG>agC
T		
T	c.738G>A	c.(736-738)ggG>ggA
A		
T	c.1023C>T	c.(1021-1023)ttC>ttT
A	c.342C>T	c.(340-342)ctC>ctT
T	c.790G>A	c.(790-792)Gca>Aca
T		
G	c.126T>C	c.(124-126)taT>taC
G	c.307T>C	c.(307-309)Ttt>Ctt
T	c.761C>T	c.(760-762)tCa>tTa
T	c.782_splice	c.e11-1
A	c.385C>T	c.(385-387)Cga>Tga
A	c.253G>A	c.(253-255)Gat>Aat
T	c.2078G>A	c.(2077-2079)gGa>gAa
T	c.625G>A	c.(625-627)Gag>Aag
T	c.465G>A	c.(463-465)cgG>cgA
G	c.598T>C	c.(598-600)Tat>Cat
A		
C	c.1195C>G	c.(1195-1197)Cga>Gga
T	c.1288G>A	c.(1288-1290)Gag>Aag
A		
T	c.260G>A	c.(259-261)gGa>gAa
A	c.7276C>T	
T	c.1673C>T	c.(1672-1674)cCa>cTa
A		
A	c.323G>A	c.(322-324)cGa>cAa
A	c.2348G>A	c.(2347-2349)gGa>gAa
A	c.501C>T	c.(499-501)atC>atT
T	c.2796G>A	c.(2794-2796)ctG>ctA
T	c.2317C>T	c.(2317-2319)Cct>Tct
A	c.2193C>T	c.(2191-2193)atC>atT
C	c.131A>G	c.(130-132)gAa>gGa
A	c.3010G>A	c.(3010-3012)Gga>Aga
T		
T		
T	c.2288C>T	c.(2287-2289)cCt>cTt
A	c.-34_splice	c.e2-1
T	c.2463C>A	c.(2461-2463)gtC>gtA
C	c.971A>G	c.(970-972)aAt>aGt

A	c.2284C>T	c.(2284-2286)Cac>Tac
A	c.1253C>T	c.(1252-1254)cCt>cTt
T	c.453C>T	c.(451-453)ccC>ccT
T	c.718C>T	c.(718-720)Ccg>Tcg
T	c.1443C>T	c.(1441-1443)tcC>tcT
G	c.137C>G	c.(136-138)cCa>cGa
A	c.9G>A	c.(7-9)acG>acA
T		
T		
G	c.1373G>C	c.(1372-1374)gGt>gCt
A		
G	c.516T>C	c.(514-516)ttT>ttC
A	c.1253G>A	c.(1252-1254)aGa>aAa
A	c.741C>T	c.(739-741)atC>atT
T	c.1410C>T	c.(1408-1410)gtC>gtT
T	c.594G>A	c.(592-594)agG>agA
A	c.1066G>A	c.(1066-1068)Gat>Aat
A	c.760C>T	c.(760-762)Ccc>Tcc
A		
A	c.4362C>T	c.(4360-4362)ccC>ccT
A	c.1429C>T	c.(1429-1431)Ctg>Ttg
T		
T	c.497A>T	c.(496-498)gAa>gTa
T	c.1513C>T	c.(1513-1515)Cga>Tga
T	c.637C>T	c.(637-639)Cca>Tca
T	c.3922C>T	c.(3922-3924)Cgg>Tgg
A		
A	c.5111C>T	c.(5110-5112)tCg>tTg
T	c.1397C>T	c.(1396-1398)cCc>cTc
T	c.477G>A	
T	c.2138G>A	c.(2137-2139)gGc>gAc
T	c.4207C>T	c.(4207-4209)Cta>Tta
T	c.355C>T	c.(355-357)Cct>Tct
A	c.1627G>A	c.(1627-1629)Ggc>Agc
T	c.775C>T	c.(775-777)Ctg>Ttg
T	c.354C>T	c.(352-354)ttC>ttT
A	c.203G>A	c.(202-204)tGg>tAg
T	c.229C>T	c.(229-231)Ccc>Tcc
A	c.515G>T	c.(514-516)gGa>gTa
A	c.674G>A	c.(673-675)gGa>gAa
A	c.2248G>A	c.(2248-2250)Gga>Aga
G	c.32T>C	c.(31-33)cTa>cCa
A	c.1042G>A	c.(1042-1044)Gaa>Aaa

A		
T	c.1179C>T	c.(1177-1179)ctC>ctT
T	c.464G>A	c.(463-465)cGg>cAg
T	c.1151C>T	c.(1150-1152)cCa>cTa
T	c.90C>T	c.(88-90)ttC>ttT
G	c.724A>G	c.(724-726)Aaa>Gaa
T	c.4846G>A	c.(4846-4848)Gaa>Aaa
A	c.306G>A	c.(304-306)ccG>ccA
A	c.187G>A	
A	c.704_splice	c.e7+1
T	c.1492G>A	c.(1492-1494)Gaa>Aaa
A	c.-78_splice	c.e3-1
T	c.4369C>T	c.(4369-4371)Caa>Taa
T	c.914G>A	c.(913-915)gGa>gAa
T	c.167G>A	c.(166-168)cGa>cAa
G	c.195A>C	c.(193-195)gaA>gaC
G		
T		
A	c.582C>T	c.(580-582)ccC>ccT
T	c.48G>A	c.(46-48)ctG>ctA
A	c.1076C>T	c.(1075-1077)tCa>tTa
C		
T	c.214G>A	c.(214-216)Gac>Aac
G	c.4910A>C	c.(4909-4911)aAt>aCt
A	c.2358C>T	c.(2356-2358)atC>atT
T	c.685C>T	c.(685-687)Cgg>Tgg
A	c.1395C>T	c.(1393-1395)gcC>gcT
T	c.2388A>T	c.(2386-2388)aaA>aaT
T	c.1672C>T	c.(1672-1674)Cca>Tca
T	c.308C>T	c.(307-309)tCc>tTc
T		
T	c.624G>A	c.(622-624)aaG>aaA
T	c.2453C>T	c.(2452-2454)aCg>aTg
A	c.881C>T	c.(880-882)cCa>cTa
A	c.1105G>A	c.(1105-1107)Ggc>Agc
A	c.2205C>T	c.(2203-2205)acC>acT
A		
A	c.309C>T	c.(307-309)ccC>ccT
A	c.3536C>T	c.(3535-3537)cCc>cTc
A	c.1628G>A	
A	c.771C>T	c.(769-771)ttC>ttT
A		
T		

T		
A		
A	c.1996G>A	c.(1996-1998)Gag>Aag
G	c.9790T>C	c.(9790-9792)Tat>Cat
T	c.954C>T	c.(952-954)atC>atT
G		
T	c.351G>A	c.(349-351)caG>caA
A	c.557G>A	c.(556-558)cGa>cAa
T	c.3925C>T	c.(3925-3927)Ctt>Ttt
T		
A	c.926C>T	c.(925-927)tCc>tTc
A		
A		
A		
T		
T		
A		
A		
T	c.1110G>A	c.(1108-1110)aaG>aaA
T	c.781G>A	c.(781-783)Gga>Aga
T	c.550G>A	c.(550-552)Gat>Aat
A	c.221C>T	c.(220-222)cCa>cTa
G	c.781_splice	c.e4+1
T	c.11514G>A	c.(11512-11514)gtG>gtA
T	c.6082G>A	c.(6082-6084)Gtt>Att
A	c.1956G>A	c.(1954-1956)agG>agA
A	c.1051G>A	c.(1051-1053)Gaa>Aaa
T		
A		
A	c.146G>T	c.(145-147)gGa>gTa
A	c.40C>T	c.(40-42)Cct>Tct
A	c.47G>A	c.(46-48)gGa>gAa
A	c.3721G>A	c.(3721-3723)Gaa>Aaa
C		
T	c.-60_splice	c.e1-1
G		
A	c.536C>T	c.(535-537)tCc>tTc
T		
A	c.415G>A	c.(415-417)Gaa>Aaa
T	c.259C>T	c.(259-261)Ccg>Tcg
T		
T	c.2332G>A	c.(2332-2334)Gaa>Aaa
T		

A	c.828G>A	c.(826-828)aaG>aaA
G	c.268A>G	c.(268-270)Aaa>Gaa
A	c.525C>T	c.(523-525)tcC>tcT
A	c.984C>T	c.(982-984)ccC>ccT
A	c.52G>A	c.(52-54)Gag>Aag
T	c.403C>T	c.(403-405)Caa>Taa
T	c.561G>A	c.(559-561)agG>agA
A	c.1476G>A	c.(1474-1476)tcG>tcA
A		
T	c.956G>A	c.(955-957)gGa>gAa
T	c.1246G>A	c.(1246-1248)Gaa>Aaa
A		
C	c.3563T>C	c.(3562-3564)gTg>gCg
T	c.3722C>T	c.(3721-3723)aCc>aTc
A	c.1088C>T	c.(1087-1089)tCc>tTc
A	c.2048C>T	c.(2047-2049)cCc>cTc
A	c.2569G>A	c.(2569-2571)Gat>Aat
T	c.610C>T	c.(610-612)Cgt>Tgt
T	c.219G>A	c.(217-219)aaG>aaA
A	c.196C>T	c.(196-198)Ccc>Tcc
A	c.1483G>A	c.(1483-1485)Gaa>Aaa
A	c.1904G>A	c.(1903-1905)cGt>cAt
A		
C	c.194A>C	c.(193-195)tAt>tCt
T	c.573C>T	c.(571-573)ttC>ttT
T		
C	c.1575A>G	c.(1573-1575)gaA>gaG
T	c.115G>T	c.(115-117)Ggg>Tgg
A	c.1150G>T	c.(1150-1152)Gaa>Taa
T	c.2335C>T	c.(2335-2337)Cct>Tct
A		
T	c.55G>A	c.(55-57)Gac>Aac
A	c.351G>A	c.(349-351)aaG>aaA
G	c.2487A>G	c.(2485-2487)agA>agG
A		
T		
A	c.3268_splice	c.e49-1
A		
T	c.109C>T	c.(109-111)Cca>Tca
A	c.1609_splice	c.e13+1
T		
A	c.231C>T	c.(229-231)aaC>aaT
A	c.239G>A	c.(238-240)cGa>cAa

T	c.45C>A	c.(43-45)ttC>ttA
A	c.2396C>T	c.(2395-2397)aCc>aTc
A	c.12088G>A	c.(12088-12090)Gag>Aag
A		
T		
A	c.3381C>T	c.(3379-3381)ttC>ttT
T	c.399G>A	c.(397-399)tcG>tcA
T	c.1792G>A	c.(1792-1794)Ggc>Agc
G	c.470T>G	c.(469-471)gTt>gGt
A	c.937C>T	c.(937-939)Cct>Tct
A	c.4738G>A	c.(4738-4740)Gga>Aga
C		
G	c.1500A>C	c.(1498-1500)gcA>gcC
T	c.6337G>A	c.(6337-6339)Gaa>Aaa
A	c.818A>T	c.(817-819)gAc>gTc
A	c.261G>A	c.(259-261)gaG>gaA
A		
T	c.401C>T	c.(400-402)tCg>tTg
T	c.224G>A	c.(223-225)cGg>cAg
A		
A	c.7978C>T	c.(7978-7980)Cac>Tac
A	c.175C>T	c.(175-177)Cat>Tat
A	c.1520T>A	c.(1519-1521)gTg>gAg
T	c.799C>T	c.(799-801)Cct>Tct
A	c.765G>A	c.(763-765)tgG>tgA
C	c.344A>G	c.(343-345)aAg>aGg
A		
T	c.2687G>A	c.(2686-2688)gGg>gAg
A	c.5216C>T	c.(5215-5217)tCg>tTg
A	c.2272C>T	c.(2272-2274)Cct>Tct
T		
A	c.1792C>T	c.(1792-1794)Cgt>Tgt
C	c.2069T>C	c.(2068-2070)tTa>tCa
A	c.1891G>A	c.(1891-1893)Gat>Aat
A	c.451C>T	c.(451-453)Ccc>Tcc
A	c.850C>T	c.(850-852)Ccc>Tcc
A	c.248G>A	c.(247-249)cGg>cAg
A	c.891G>A	c.(889-891)atG>atA
A	c.9G>T	c.(7-9)aaG>aaT
T	c.526G>A	c.(526-528)Gga>Aga
T	c.1566C>T	c.(1564-1566)ttC>ttT
A	c.1219C>T	c.(1219-1221)Cgg>Tgg
A		



A		
T	c.497C>T	c.(496-498)tCc>tTc
A	c.118C>T	c.(118-120)Cgt>Tgt
A	c.644C>T	c.(643-645)tCt>tTt
A	c.2855G>A	c.(2854-2856)gGa>gAa
T		
T	c.2210C>T	c.(2209-2211)cCc>cTc
A	c.1645G>A	c.(1645-1647)Ggg>Agg
C	c.4358G>C	c.(4357-4359)cGg>cCg
G	c.210A>G	c.(208-210)tcA>tcG
T	c.809G>A	c.(808-810)cGc>cAc
T	c.4005C>T	c.(4003-4005)gaC>gaT
T	c.339C>T	c.(337-339)ttC>ttT
T	c.3G>A	c.(1-3)atG>atA
T	c.1384C>T	c.(1384-1386)Caa>Taa
A	c.2311G>A	c.(2311-2313)Gag>Aag
T	c.243G>A	c.(241-243)atG>atA
A	c.333G>A	c.(331-333)ggG>ggA
T	c.1667G>A	c.(1666-1668)gGa>gAa
A	c.2301G>A	c.(2299-2301)ggG>ggA
T	c.889C>T	c.(889-891)Cag>Tag
T	c.1442C>T	c.(1441-1443)tCc>tTc
A	c.199G>A	c.(199-201)Gat>Aat
C		
T	c.452C>T	c.(451-453)cCc>cTc
A	c.466G>A	c.(466-468)Ggc>Agc
T	c.2535C>T	c.(2533-2535)atC>atT
A	c.1395G>A	c.(1393-1395)agG>agA
T	c.95G>A	c.(94-96)gGt>gAt
A	c.6311C>T	c.(6310-6312)gCt>gTt
A	c.107C>T	c.(106-108)tCc>tTc
G	c.425A>G	c.(424-426)aAt>aGt
T	c.1890G>A	c.(1888-1890)agG>agA
A	c.1488C>T	c.(1486-1488)tcC>tcT
T	c.1021C>T	c.(1021-1023)Cgt>Tgt
T	c.-60_splice	c.e1-1
A		
A	c.1125C>T	c.(1123-1125)atC>atT
A	c.121G>A	c.(121-123)Gaa>Aaa
T	c.222C>T	c.(220-222)ccC>ccT
G		
A	c.509G>A	c.(508-510)tGa>tAa
C	c.1097T>C	c.(1096-1098)tTt>tCt

A	c.5297C>T	
A	c.578G>A	c.(577-579)cGa>cAa
T	c.387C>T	c.(385-387)atC>atT
A	c.2127G>A	c.(2125-2127)gtG>gtA
T	c.2221G>A	c.(2221-2223)Gag>Aag
A	c.510G>A	c.(508-510)agG>agA
T	c.96T>A	c.(94-96)tgT>tgA
A	c.285C>T	c.(283-285)ttC>ttT
A	c.363C>T	c.(361-363)ctC>ctT
GGG	c.476_477insGGG	c.(475-477)ctg>ctGGGg
C	c.83T>G	c.(82-84)cTg>cGg
G	c.65T>C	c.(64-66)tTt>tCt
T	c.2765G>A	c.(2764-2766)cGc>cAc
A	c.67C>T	c.(67-69)Cgg>Tgg
A		
T	c.688C>T	c.(688-690)Cct>Tct
T	c.2992A>T	c.(2992-2994)Aca>Tca
A	c.552C>T	c.(550-552)tgC>tgT
A	c.1186C>T	c.(1186-1188)Cgg>Tgg
A	c.1356C>A	c.(1354-1356)tcC>tcA
A		
G	c.6229A>G	c.(6229-6231)Aca>Gca
T	c.1052C>T	
T	c.2522G>A	c.(2521-2523)aGc>aAc
A	c.1435G>A	c.(1435-1437)Gtg>Atg
A	c.590C>T	c.(589-591)tCc>tTc
A	c.1158C>T	c.(1156-1158)tgC>tgT
A	c.352C>T	c.(352-354)Cgg>Tgg
T	c.2870C>T	c.(2869-2871)aCg>aTg
C		
C	c.2435A>G	c.(2434-2436)cAg>cGg
A	c.3060C>T	c.(3058-3060)ccC>ccT
A	c.323C>T	c.(322-324)tCg>tTg
C		
A	c.1903C>T	c.(1903-1905)Cgg>Tgg
T	c.2362C>T	c.(2362-2364)Cgc>Tgc
T	c.305G>A	c.(304-306)gGc>gAc
C	c.70A>G	c.(70-72)Agc>Ggc
T	c.1688C>T	c.(1687-1689)gCg>gTg
G	c.1295A>G	c.(1294-1296)aAt>aGt
T		
A	c.158G>A	c.(157-159)cGc>cAc
C	c.14T>C	c.(13-15)cTg>cCg

C	c.658_splice	c.e4-1
T		
A	c.930G>A	c.(928-930)gcG>gcA
T	c.870G>T	
T	c.3736C>T	c.(3736-3738)Cgg>Tgg
G	c.11A>C	c.(10-12)cAc>cCc
A	c.1204G>A	c.(1204-1206)Gca>Aca
C	c.804C>G	c.(802-804)caC>caG
G		
C	c.292A>G	c.(292-294)Agt>Ggt
A	c.830G>A	c.(829-831)cGg>cAg
C	c.397_splice	c.e3+2
T	c.3233C>T	c.(3232-3234)gCc>gTc
A	c.459G>T	c.(457-459)ttG>ttT
A		
A	c.2271G>T	c.(2269-2271)agG>agT
A	c.612G>A	c.(610-612)caG>caA
T	c.316G>A	c.(316-318)Gtg>Atg
C	c.301T>C	c.(301-303)Tat>Cat
A		
A	c.1108T>A	
G		
T	c.6598G>A	
C		
T	c.492G>A	
T		
A	c.2246G>A	c.(2245-2247)tGc>tAc
T	c.555G>A	c.(553-555)ctG>ctA
T	c.146C>T	c.(145-147)cCc>cTc
G	c.12G>C	c.(10-12)caG>caC
T	c.393C>T	c.(391-393)aaC>aaT
T		
A	c.1041C>T	c.(1039-1041)tgC>tgT
T	c.1502G>T	c.(1501-1503)gGa>gTa
C	c.38T>C	
A	c.2317G>A	c.(2317-2319)Gga>Aga
T	c.202G>A	c.(202-204)Gag>Aag
G		
T	c.1525C>T	c.(1525-1527)Cat>Tat
T	c.7634G>A	c.(7633-7635)gGc>gAc
A	c.518G>A	c.(517-519)aGt>aAt
T	c.586G>A	c.(586-588)Gct>Act
G		

T	c.1119C>T	
A		
T	c.2053_splice	c.e5+1
C	c.132A>G	c.(130-132)ggA>ggG
T	c.409G>A	c.(409-411)Gaa>Aaa
G	c.1085A>G	
T	c.666C>A	c.(664-666)gcC>gcA
C	c.2263G>C	c.(2263-2265)Gtg>Ctg
A	c.942C>T	c.(940-942)ctC>ctT
C	c.981C>G	c.(979-981)ctC>ctG
T	c.391G>T	c.(391-393)Gga>Tga
A	c.322C>T	c.(322-324)Cgt>Tgt
T	c.2423G>A	c.(2422-2424)tGg>tAg
C	c.1767T>C	c.(1765-1767)gaT>gaC
A	c.763C>T	c.(763-765)Ctg>Ttg
G	c.609_splice	c.e5-1
C	c.436_splice	c.e3+1
A	c.1494C>A	c.(1492-1494)ccC>ccA
T	c.676G>A	c.(676-678)Gct>Act
A	c.675C>T	c.(673-675)ctC>ctT
A	c.822_splice	c.e7-1
G	c.661G>C	c.(661-663)Gaa>Caa
G	c.137T>C	c.(136-138)gTc>gCc
A	c.393C>T	c.(391-393)ctC>ctT
T	c.413T>A	c.(412-414)aTa>aAa
C	c.1919G>C	c.(1918-1920)tGg>tCg
C		
T	c.187G>A	c.(187-189)Gat>Aat
T		
T	c.1791C>T	c.(1789-1791)ggC>ggT
T	c.1693C>T	c.(1693-1695)Cgg>Tgg
C	c.2186T>G	c.(2185-2187)tTt>tGt
A		
G		
A	c.1233G>T	c.(1231-1233)ttG>ttT
C	c.1680G>C	c.(1678-1680)atG>atC
A	c.396G>T	c.(394-396)ctG>ctT
G	c.1176G>C	c.(1174-1176)ccG>ccC
C		
T	c.1241G>A	c.(1240-1242)cGc>cAc
T	c.975C>T	c.(973-975)acC>acT
T	c.2424G>A	c.(2422-2424)tGg>tGgA
A	c.164G>T	c.(163-165)cGc>cTc

T

c.348G>T

c.(346-348)gtG>gtT

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**Protein Change**

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p.N191fs  
p.Q2115del  
p.E715del  
p.704\_705insA  
p.I388\_splice  
p.L660L  
p.G261R  
p.W3000\*  
p.R34Q  
p.I1239I  
p.P1233S  
p.L152L  
p.V1662V  
p.G21\_splice  
p.F1055L  
p.R373Q  
p.G315D  
p.R371R  
p.R341R  
p.E423E  
  
p.W492\*  
p.S275F  
p.G321D  
p.R80Q  
  
p.R604H  
p.A1173A  
  
p.E203K  
p.P175L  
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p.L60L  
p.R44\*  
  
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p.E1084E

p.E34K  
p.P14L  
p.E1090K  
p.V340I  
p.T513T  
p.P754Q  
p.A553V  
p.E484D  
p.S135F

p.E19E  
p.P116S  
p.R26R

p.I201I  
p.D357N  
p.E22K  
p.T1374A  
p.L268L  
p.G585E  
p.A100T  
p.P208P  
p.T96T

p.I368F

p.G676R

p.A1255T

p.A404V  
p.R369I

p.E1043K  
p.S505F  
p.R1943R  
p.D340N  
p.Q216K  
p.R100R  
p.T973T  
p.G85R

p.D368E  
p.V600E  
p.D934N  
p.E75K  
p.S199F  
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p.W3000\*  
p.G38E  
p.R2194\*  
p.L759L  
p.R734H  
p.G248E  
p.P282P

p.I822I  
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p.R7951M  
p.L491L

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p.T376T  
p.S218F

p.G943E  
p.S533S  
p.S218S  
p.L435L  
p.S569F  
p.P44S  
p.W105\*  
p.R207H  
p.S1306A  
p.G103R  
p.E96K  
p.E11587K  
p.E50E  
p.G709G  
p.W940L



p.S2300P  
p.Q319K  
p.G136E

p.D153N  
p.Q1819K  
p.Q1429\*  
p.R273\*  
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p.V3579V  
p.A257A  
p.G413D

p.S112F  
p.R219C  
p.Q521K  
p.E111K  
p.G3330R  
p.F181F  
p.P333L  
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p.V759V  
p.P287S

p.P810P  
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p.S630F  
p.D754N

p.P1258P  
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p.F428F  
p.R411H

p.V123V  
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p.F197F

p.G585R  
p.P550S

p.R323W  
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p.P685P  
p.V651A  
p.V333V  
p.G402E  
p.T1204M  
p.R175C  
p.R405Q  
p.K198\_splice  
p.L166fs  
p.R432fs  
p.V1098fs  
p.R116fs  
p.P114fs  
p.I466fs  
p.F323fs  
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p.F201fs  
p.A256fs  
p.E269fs  
p.Y144fs  
p.L36fs  
p.G97fs  
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p.R280K  
p.F70F  
  
p.V37V  
p.N171D  
p.P990S  
p.R938\*  
p.R235W  
p.S21F  
p.F211F  
p.L212L  
p.F336F  
p.S158F  
p.H189Y  
p.E17\*  
p.N1323S  
p.K134N  
p.G255G

p.G1087G  
p.W185\*  
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p.D122N  
p.F3F  
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p.G70E  
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p.P288L  
p.G20R  
p.E176K  
p.S264L  
p.F169F  
p.D285N  
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p.K24I  
p.S42S  
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p.R490Q

p.K565K  
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p.E535K

p.R342R  
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p.E1926K

p.P1653A

p.L92F

p.E657K

p.G46A

p.W98\*

p.I175I

p.R228K

p.V570V

p.K126K

p.G3232G

p.\*356\*

p.F561F

p.S102F

p.E68K

p.Q425\*

p.G1134E

p.S1008F

p.L469L

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p.R2511R

p.P180S

p.G549E

p.R304K

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p.R210Q

p.V194V

p.S277S

p.E346E

p.G602E

p.G423E

p.H731Y

p.A171\_splice

p.E71K

p.L198F

p.R891R

p.S84F

p.E2086K

p.P207S  
p.P25593L  
p.K493K  
p.D55N

p.A964A  
p.M392I  
p.S105S  
p.L107L  
p.P816P  
p.R103R

p.L832\_splice  
p.K2327K  
p.S881F  
p.K1329K  
p.P30H  
p.N475Y  
p.P22S  
p.P1119L  
p.P544L  
p.D1754\_splice  
p.K216K  
p.E318K

p.Q948\*  
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p.L1022L  
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p.S669F  
p.E254K  
p.W586\*  
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p.L343L  
p.G233D  
p.S803F  
p.S1074F

p.V60E  
p.R179Q  
p.P1023S  
p.P406L  
p.E102K  
p.R108C  
p.F701F  
p.L4413S

p.S133L

p.S424S  
p.D878N  
p.L686L  
p.L367L

p.E971K  
p.P89S  
p.K190K

p.S149F  
p.P25593S

p.P390L  
p.P132L  
p.G10E  
p.G335\_splice  
p.E2125K  
p.L883L

p.M157L

p.S504F  
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p.E756K  
p.S336F  
p.R203Q  
p.S117S  
p.L78L  
p.I86I  
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p.H9Y  
p.P738L  
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p.R2562C  
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p.D371N

p.P57S  
p.A33V

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p.I330I  
p.S139F

p.L213L  
p.E267K  
p.S222F  
p.R263W  
p.T3I  
p.L375I



p.P447\_splice

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p.P467L

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p.H329Q

p.M142I

p.H516Y

p.R130Q

p.W294\*

p.R474R

p.S50L

p.N294Y

p.P125Q

p.P263L

p.G227S

p.L289L

p.S502F

p.G349R

p.G334G

p.G237E

p.S513S

p.V956V

p.S100F

p.S732S

p.L123L

p.E158K

p.E248K

p.G388S

p.S554S

p.L13L

p.S170S

p.D477D

p.G404G  
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p.R227R

p.S523L  
p.P412P  
p.R345C  
p.P148S  
p.R65Q  
p.P429S  
p.E366K  
p.Q4376Q  
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p.S218F

p.E621K  
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p.P819L  
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p.R3679C

p.R136R  
p.L513L  
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p.I683I  
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p.S473F  
p.K254R

p.P110S  
p.E532K  
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p.R248Q

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p.I293I  
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p.L313L  
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p.A256V  
p.E558K

p.R738W  
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p.P238P  
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p.P84S  
p.R291Q

p.E302K  
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p.E729K

p.S248Y  
p.E22K  
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p.R439R  
p.F188C

p.L185L

p.D264N

p.T548I  
p.R1340R

p.T3T

p.F91F  
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p.S375F

p.D283N  
p.R412Q  
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p.G251G  
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p.E1314K  
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p.V131V  
p.M360I  
p.K46K  
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p.S569F

p.W95\*  
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p.G304S  
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p.K517Q  
p.G561R  
p.G130E

p.S745S  
p.L186L  
p.E777K  
p.R588Q  
p.E229E  
p.P325L  
p.V248V

p.S2516S

p.L92L

p.I376I

p.A98A

p.G90E

p.S63L

p.N905Y

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p.L362L

p.F221L

p.K810K

p.V114\_splice

p.H285Y

p.K666Q

p.P1182S

p.I338I

p.S31S

p.P469S

p.D390N

p.A240A

p.R300C

p.V654V

p.M352I

p.F197F

p.P153L

p.E34K

p.P480S

p.M38I

p.E461K

p.L826F

p.V1155V

p.S404S

p.I187I

p.L65L

p.E551K  
p.S191L

p.Q1719\*

p.I279I  
p.P55S

p.T1796T

p.P2171L  
p.A591A  
p.T177T  
p.V12118M  
p.E332K  
p.V351A  
p.C466S  
p.S1039F

p.S652F  
p.N219K  
p.S236F  
p.Q1090Q  
p.S76F  
p.S179F  
p.E107K  
p.P625S  
p.S451F  
p.G124A

p.S380S

p.R929R

p.T61T  
p.S843L  
p.S314S

p.S35S

p.E147\_splice

p.S1544N

p.E279K

p.G396R

p.D36N

p.R122K

p.G738G

p.P1538L

p.H217N

p.L82F

p.G145R

p.F889F

p.R168C

p.G1626G

p.F247I

p.I61I

p.E225\*

p.R242W

p.G323R

p.P326S

p.S263F

p.A541A

p.S1448F

p.S143F

p.E917K

p.D627N

p.E228K

p.E899E

p.Q52\_splice

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p.E207E

p.P1938P

p.S1342L

p.P153L



p.T739I  
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p.G881W  
p.Q250Q  
p.S230P  
p.I104I  
p.S562S  
p.S808S  
p.R30\*  
p.D36N

p.L398L  
p.P302S  
p.A1689A  
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p.S372F  
p.K83K

p.G446G  
p.P2953P  
p.Q51Q  
p.F921F  
p.S715S  
p.E187K  
p.R28K  
p.G2616E  
p.E372K  
p.P284S  
p.S909S  
p.F237F  
p.E38K  
p.R50C  
p.V240A  
p.S160L  
p.G615G  
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p.L1314F

p.R314C  
p.S36S

p.K30E

p.R1088W

p.I109I

p.S427L

p.P181S

p.A753A

p.D817N

p.L181L

p.E91K

p.P432L

p.E2128K

p.S1776N

p.I212I

p.P115L

p.P403L

p.R111R

p.S207F

p.G252E

p.L733L

p.S147L

p.R234\*

p.E152K

p.G333\*

p.R1075Q

p.K812E

p.P823L

p.G70R

p.E946K

p.I52I

p.T302T

p.G115E

p.G228\*

p.R361K

p.R118H

p.R93R

p.R1143R

p.F276F

p.S520L

p.E42K

p.D344N

p.S252L

p.A206A

p.R666R

p.P1548S

p.R69M

p.G254G

p.S335F

p.S1208F

p.E23K

p.G296E

p.I216I

p.P199S

p.T414T

p.D475N

p.I49I

p.S412F

p.F297F

p.I37I

p.G445\_splice

p.E2747K

p.G618D

p.E358\_splice

p.H578N

p.D204Y

p.E323K

p.A101A

p.P301L

p.Q837\*

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p.K1024K

p.T4790R

p.L608I

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p.S108S  
p.P493P  
p.R2235R  
p.P455L  
p.G589G  
p.V108V  
p.R490R  
p.S484L  
p.G121R  
p.H393Y  
p.F835L  
p.P357S

p.P354L  
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p.V287M  
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p.R94C  
p.M233I  
p.F2664F  
p.R134R  
p.R869K  
p.A336\_splice

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p.S139S  
p.P144P  
p.P608L  
p.T822I

p.W586\*

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p.P76L  
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p.P430S  
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p.K64Q  
p.G1204R  
p.F175F  
p.D52Y  
p.R3354\*  
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p.L87L

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p.G350E  
p.G704E  
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p.E206G  
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p.S350S  
p.E4182K

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p.D3932N  
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p.P209P  
p.L431L  
p.A272V

p.G1572E

p.L906L  
p.G878E  
p.V305A

p.P312P  
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p.P178P  
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p.L2799F  
p.E138K



p.S1073F  
p.P105L  
p.P17S  
p.R1668R  
p.A612V  
p.G314R  
p.S367L

p.R111R  
p.S425L  
p.R2537C  
p.S685F  
p.T470I

p.L655\_splice  
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p.P92S  
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p.E241K  
p.V319M  
p.P589L  
p.G832G  
p.G171A  
p.E292\*  
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p.Q156\*  
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p.F19F  
p.P51S

p.T402I  
p.W1093\*  
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p.E133K  
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p.R768C  
p.E342K  
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p.S519F  
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p.G67G  
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p.K149K  
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p.I168S  
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p.R1566W  
p.S75L

p.R474R  
p.R162R  
p.V34V  
p.G219E  
p.S242L  
p.F367F  
p.E391\_splice  
p.D2676Y  
p.H35Y  
p.P572L  
p.S205F  
p.A67A  
p.P177L  
p.P281S  
p.R534\_splice  
p.G385R  
p.T130T  
p.R981I  
p.P235P  
p.S500S  
p.P579L  
p.L33L  
p.S3611F  
p.R25W

p.E637K  
p.G422S  
p.D98N  
p.P983L  
p.F281Y  
p.G159E

p.Q283\*  
p.P1375P  
p.F398F  
p.G294G  
p.S296S

p.G99G  
p.G487G  
p.I108I  
p.W408\*  
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p.G182\_splice  
p.R62Q  
p.H3962N  
p.R118C  
p.P430S  
p.L683I

p.L771F  
p.R88C  
p.P463S

p.I400I  
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p.L548P  
p.E242K  
p.P319L  
p.S102S  
p.P268L  
p.R434W  
p.G1036R  
p.E35E

p.S500F  
p.L684L  
p.G368R  
p.Q513Q  
p.P906S

p.F407L  
p.P239S

p.E442K  
p.S140S  
p.I865I  
p.P291S

p.K678E  
p.F998F  
p.V743V  
p.P228S  
p.P468S  
p.T379I

p.A618V  
p.G53W  
p.G171S  
p.S53F

p.E1099Q  
p.V263V  
p.F1423F  
p.K479\*

p.P3S  
p.Q344\*  
p.G107S  
p.H19Y  
p.A143V  
p.E117K

p.S722F  
p.S460F  
p.G310E  
p.V1807I  
p.R394\*  
p.F476F  
p.T788S

p.G227\_splice  
p.E1041K  
p.G78V  
p.L569L  
p.A193V  
p.M1I  
p.E462K

p.K23I  
p.P109\_splice

p.H62Y  
p.P166L  
p.D307N  
p.S1567F  
p.L462F  
p.T584N  
p.G227E  
p.S2067\_splice  
p.R420Q

p.Q375\_splice  
p.P190L  
p.F185L

p.H358Y  
p.S123L  
p.Q1351\*  
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p.R554R  
p.P853S  
p.P83L  
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p.E179K

p.G250G  
p.P11L  
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p.G406D  
p.P493L  
p.L394L  
p.S10L  
p.K380Q  
p.G187D  
p.W150R  
p.S477S  
p.G402S  
p.G749\_splice  
p.G294R

p.P1232P  
p.P1859P  
p.S475S  
p.S284S

p.P1152S  
p.I213M  
p.Q234H  
p.P338L

p.R7726R  
p.P536S  
p.I804\_splice  
p.A1115\_splice

p.P2216S  
p.L306L  
p.N282N  
p.P517P  
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p.H306Y  
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p.I300I  
p.D19N  
p.S159F  
p.L186L  
p.K857K  
p.H88Y  
p.A151A  
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p.I612I  
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p.E827K  
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p.L195F  
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p.G154D

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p.G2707R

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p.L528H  
p.G46G



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p.P168S  
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p.S34S

p.P534S  
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p.S390L  
p.V160A

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p.R342K  
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p.G137\_splice  
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p.G398R  
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p.S112S

p.R227R  
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p.G28G  
p.R1120W  
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p.S1549F  
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p.F354F  
p.R1036\*  
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p.P280P  
p.W83\*  
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p.N307D  
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p.V220V

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p.S255S  
p.A261T  
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p.F170F

p.R154Q

p.V1687V

p.K1203K

p.F450F

p.V157V

p.R432H

p.I479I

p.K2949K

p.R228G

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p.F1677F

p.E99K

p.P35L

p.L252L

p.S452P

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p.S298L

p.S902L

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p.P527L

p.S56F

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p.G69G

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p.E532K

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p.I323S  
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p.G226R  
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p.T288I

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p.Q84\*

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p.V184V

p.P893L

p.G752\*

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p.R1115W

p.D339N

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p.S71F

p.G284G

p.A63A

p.R980W

p.E239K

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p.G636G

p.T216N

p.S635L

p.I269S

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p.E859K  
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p.R408C  
p.K181K

p.K707K

p.R140Q  
p.E75K

p.S2027F  
p.Q149\*  
p.Q602\*  
p.E406K  
p.S470S  
p.D7N

p.D811N

p.G6307G

p.G270E

p.S195F

p.E204K

p.L267L

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p.S472S

p.F500F

p.R1297\_splice

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p.N159D

p.Y258F

p.G1461G

p.S1620S

p.Q2345\*

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p.V121A

p.S282L

p.F733C

p.R48H

p.S455\*

p.G622E

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p.G528E  
p.S500F  
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p.T342T  
p.R145G  
p.Q2659Q  
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p.I2152I  
p.S414L  
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p.P749S  
p.F191F  
p.A400T  
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p.S253\_splice  
p.P371L

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p.V388V

p.I346I

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p.S2571L



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p.E3637E

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p.P266S  
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p.R376C

p.R1015C  
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p.G157G

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p.S590L  
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p.P1717P  
p.D233N  
p.R19\*  
p.R458P  
p.G169\_splice

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p.G242S

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p.G287R

p.H112Y  
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p.C516C  
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p.W385\*

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p.R7C

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p.P489P  
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p.H243Y

p.K71K

p.L379L

p.K967K

p.S42F

p.D369G

p.E75K

p.R166C

p.E295K

p.M549\_splice

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p.G98D

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p.I78I

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p.R599R

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p.P5285S

p.E431K

p.P1311S

p.L557L

p.R234H

p.G55E

p.S39F

p.P35S

p.M150R

p.A173V

p.D159V

p.E236D

p.S204S

p.S41S

p.F648F

p.S742F

p.V246A

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p.L272F

p.R500R

p.L465L

p.R190R

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p.E164K

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p.L182L

p.A127A

p.D46N

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p.G2112G  
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p.M80I

p.F260V  
p.R914Q

p.E1994K  
p.V124A  
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p.P275S  
p.P108S  
p.W370\*  
p.P700P  
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p.P97S  
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p.D1467N

p.L494L  
p.P140S

p.I54I  
p.S376S

p.T64T  
p.V557V  
p.P604L  
p.L512L  
p.T57I  
p.P2056L  
p.S370S

p.M285I  
p.I999I



p.A151A  
p.E1079K  
p.R63H  
p.C630S  
p.E113K  
p.T312T  
p.S696F

p.G502G  
p.D3372E  
p.S55F

p.E485\*

p.A1585V  
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p.P32S  
p.E287K

p.P58S  
p.N128N  
p.V195A

p.R284C  
p.G857R

p.G21S

p.G825D  
p.T1650T  
p.A280T  
p.R182\*  
p.I52I

p.F279F  
p.I64I  
p.R232C  
p.P426S  
p.G315E  
p.E110K

p.S29S

p.V1200V

p.G342E

p.P411P

p.S1373L

p.P747L

p.K4432Q

p.T261T

p.L121V

p.Q180Q

p.D2422N

p.P504S

p.Q564\*

p.I454I

p.R79K

p.G436E

p.G391D

p.V1258A

p.G346E

p.I212I

p.S163S

p.V59A

p.D272N

p.V1073V

p.G77E

p.Q241\*

p.Q2326Q

p.I607I

p.M677I

p.T764N  
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p.P621L  
p.N57Y

p.A356A

p.M1T  
p.V397E  
p.V1211V  
p.P1011P  
p.T312I

p.L580L  
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p.E508E  
p.G980R  
p.L195L  
p.T302I  
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p.S4F

p.F234F

p.R232H  
p.F828F

p.R285K  
p.K455K  
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p.C198C  
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p.S1901F  
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p.P33S

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p.I121I  
p.P5P

p.R489K  
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p.R1646\*

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p.R836C  
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p.V495M  
p.I93V  
p.R99H

p.N917D

p.I848I  
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p.V101V  
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p.F156F

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p.P524P

p.E1137E  
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p.H198Y

p.R131R  
p.S524F  
p.S743\_splice

p.L486\*  
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p.R861W  
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p.E322K

p.E1050E  
p.R102R  
p.V396M  
p.G1588S  
p.V577V

p.S879L  
p.V289\_splice  
p.I1008I  
p.K790E  
p.L844L  
p.R1146\_splice  
p.G423G  
p.L22R  
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p.E73K  
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p.P563L

p.E178\_splice

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p.T607S

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p.P287L

p.T41I

p.M81I

p.G270D

p.E544\_splice

p.S394F

p.S6380F

p.R413\_splice

p.E1478K

p.A141A

p.T575T

p.A27A

p.P563S

p.P560S

p.F88F

p.E525K

p.T136T

p.R325\_splice

p.P2070S

p.S583F

p.G1040E

p.S479F

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p.G281R

p.F202Y

p.P185L

p.S866S

p.N454N

p.P341L

p.L197L



p.M831I

p.F1045F

p.R159Q

p.G169R

p.R648R

p.G85R

p.P707S

p.D94fs

p.S754fs

p.L666fs

p.K2234K

p.R780W

p.G123R

p.L2792L

p.P477L

p.Q144\*

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p.A524V

p.R166\_splice

p.P118P

p.V46V

p.F518C

p.E250K

p.V24417A

p.F1439S

p.F499F

p.I72I

p.V269I

p.F11F

p.V441V

p.S246L

p.R80\*

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p.T378T

p.F1623F

p.S745S

p.E547K

p.L480F

p.G727G

p.S257S

p.P672P

p.P357S

p.M1128I

p.G1478G

p.E635K

p.Q42\*

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p.G88E

p.V32G

p.S190F

p.E1485K

p.P108S

p.K180K

p.G102E

p.P758L

p.I361I

p.K182K

p.P259S

p.R350C

p.V808V

p.S257L

p.S257S

p.R219C

p.Q218Q

p.A317V

p.P223L

p.S1212F

p.S55F

p.E427V

p.F182F

p.R170G

p.G847R

p.R458R

p.R586R

p.P144L

p.P193S

p.I290S

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p.R803W

p.S194L  
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p.S249F  
p.G65S  
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p.T1239T  
p.G113E

p.D408N

p.S515L  
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p.D246N  
p.S773F

p.S935F  
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p.E218K

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p.A399A

p.H65Y  
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p.G297D  
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p.L290M  
p.S603F  
p.P698P  
p.E348D  
p.I52I  
p.E1795K  
p.I547I

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p.S527L

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p.G426E

p.P3L

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p.G587G

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p.G168R

p.A108V

p.L116L

p.W277\*

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p.Q190R

p.G231E

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p.V505V

p.F87F

p.W315\*

p.Q142\*

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p.I391I

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p.G56E

p.E30E

p.G88R

p.L63L

p.F180F

p.G153\_splice

p.S222S

p.L351F

p.L374L

p.R122C

p.P452S

p.A311V

p.I327I

p.G295E

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p.H244Y

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p.S306L

p.V430V

p.I250I

p.K232E

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p.S502F

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p.G1596G  
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p.Y161\*



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p.K20K  
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p.Y503Y  
p.F274L  
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p.S3026S  
p.F214F  
p.S445F  
p.R313Q  
p.F17F  
p.P123S

p.G83G  
p.P309L  
p.P625S  
p.G265R

p.V314V

p.I299I  
p.F52F

p.V414V  
p.F210F  
p.P192S  
p.F298F

p.M68\_splice

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p.M568L  
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p.S297S  
p.H52Y  
p.P244S

p.G19G

p.M58I  
p.D87N  
p.F106F  
p.Q19R  
p.L43F

p.R1449W

p.L639F  
p.F579F  
p.E45K  
p.G266E  
p.P194L  
p.S500L  
p.E1030K  
p.P1288S  
p.I1491I

p.F2045F

p.R337M  
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p.L419L  
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p.G847E

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p.R493W

p.I221I  
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p.D505N

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p.P339L  
p.V200V  
p.P670L  
p.L863F  
p.W278\*  
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p.G1993R  
p.P148R

p.F615F

p.P736S  
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p.M292I  
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p.F421F

p.Q144R  
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p.S504L

p.S939F  
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p.T449T

p.G482\_splice

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p.G191G  
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p.F406F  
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p.G21789R  
p.Q2553\*  
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p.P2722S

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p.N48N  
p.P1252S  
p.P375S  
p.P395L

p.H230\_splice

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p.I333I

p.H836Y

p.D22D

p.F246F

p.E1273K

p.P1069S

p.H544Y

p.I554I

p.D811N

p.F178F

p.G425E

p.T1071T

p.T859T

p.F71F

p.L561F

p.R1072K

p.R534C

p.L386L

p.E266K

p.G362E

p.I323I

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p.E362K

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p.E204K

p.G19E

p.P3813S

p.P4S

p.D64N

p.Y173H

p.I583N

p.S599S

p.S385F

p.R1294K

p.H1474N



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p.G145G

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p.V258\_splice

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p.L293L  
p.R1557R

p.E315K

p.F93F

p.G10G

p.L183F

p.F2047F

p.Y330\*

p.R97\*

p.S295N

p.P103L

p.V1111A

p.P41S

p.F671F

p.S909S

p.I141I

p.A356V

p.F251F

p.R8547R

p.V423G

p.\*890\*

p.G202G

p.E32K

p.L145R

p.L351I

p.G252R

p.P1209A

p.S227S

p.A204A

p.W316\*

p.G154E

p.D217G

p.T2164I

p.Q105Q

p.E42K



p.P101L  
p.P628S  
p.G2478G  
p.W86\*  
p.R536R

p.V552M  
p.E117K  
p.Y59Y  
p.R168K

p.S20S

p.A701T

p.S214L  
p.R520R  
p.P307L

p.S59N  
p.I375T  
p.E289K  
p.P2444L  
p.W101\*  
p.Q753\*

p.P17S  
p.R352R  
p.R4077\_splice  
p.E277K

p.Y128\*  
p.E6K  
p.P266S

p.V727V  
p.P1017S  
p.S389F  
p.R600\_splice  
p.H56Y

p.G546D  
p.K223K  
p.A187A  
p.G698D  
p.S226S  
p.S5042F  
p.P615L

p.G21G  
p.H445Y  
p.D373N  
p.Q65H  
p.G142E  
p.P159P

p.R830W  
p.P2219S  
p.G1708R

p.S404\_splice  
p.K18471K

p.S283S  
p.I219I

p.F197F

p.R156Q  
p.W1001\*  
p.P817L  
p.S1334L  
p.S192F  
p.S441F  
p.E5902K  
p.E90K  
p.I84I  
p.L18L  
p.R155\_splice

p.I925I

p.E797K

p.G203E

p.G195E

p.D146N

p.P626L

p.A162A

p.H992Y

p.L414L

p.S1692S

p.D436N

p.F577F

p.F482I

p.S1317S

p.P86S

p.R14C

p.P110S

p.D198N

p.P469L

p.D254N

p.G131E

p.G62R

p.M630L

p.S296S

p.K304E

p.R199\*

p.L4190L

p.H1106Y

p.P46S

p.L192L

p.D124N

p.H507\_splice

p.G305S  
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p.R377R  
p.R464\*  
p.R332R  
p.G2235G  
p.S18F

p.D194N  
p.L980L  
p.W559\*  
p.I280I

p.T2189T

p.L221F  
p.G739E  
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p.L162L  
p.V44V  
p.R526K  
p.R53R  
p.P466L  
p.S346S

p.F488L  
p.R406W  
p.I336I

p.S685F  
p.E713K  
p.S334N  
p.C431Y

p.I415V  
p.F417F  
p.G154R

p.P615L  
p.L117F  
p.L601F

p.G931E  
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p.F707F  
p.A158T  
p.E479K

p.S639L  
p.G275E  
p.Q161Q  
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p.L156F  
p.L492L

p.P100S

p.D248N  
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p.L1483L  
p.I931I  
p.S479S

p.L666L  
p.E809E

p.Q370\*  
p.V981M  
p.L717L

p.P1070S  
p.D873N

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p.E1104K  
p.P358P  
p.E5K  
p.M27I

p.N177Y  
p.P290S  
p.L110L  
p.S604S  
p.P187S

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p.P37S

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p.L161F  
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p.P7L

p.E388K  
p.P492Q

p.D124N  
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p.D81N  
p.P596S  
p.R27Q  
p.E12K  
p.I1218S

p.E5K  
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p.G147E  
p.F52F

p.P24S  
p.H232Y

p.S85S

p.L206L  
p.E641K  
p.E1701K  
p.K368R

p.R645C  
p.E354K  
p.Q11502Q

p.E144K  
p.L269F  
p.K1628K  
p.S667F

p.V337V  
p.S136F  
p.S423F  
p.P152P  
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p.L19L  
p.V1260I

p.Y153F  
p.P82S  
p.S758F  
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p.R573K

p.G291E  
p.G1028G

p.P346S  
p.L68R  
p.P681S  
p.S4172P  
p.G782R

p.P36P

p.R520Q

p.G562S  
p.P530L  
p.L335L

p.D744N

p.P797S  
p.H584R

p.S764L

p.D173N

p.R306H

p.G816R

p.C102C

p.T2444T

p.M114I

p.G579R

p.R834C

p.T478I

p.S18F

p.G46E

p.P225L

p.P95P

p.E218D

p.P158L

p.G123E

p.A487A

p.S271F

p.K106\*

p.S586F

p.D489N

p.G119E

p.A257A

p.S480F



p.H271Y

p.T52T

p.L181L

p.G899G

p.L502F

p.S196F

p.P4290L

p.R66R

p.P383P

p.R11500K

p.S978S

p.A329A

p.F87I

p.G69G

p.G501\_splice

p.S2140S

p.R289R

p.L515L

p.R1135\*

p.I11I

p.R191Q

p.K241K

p.T296M

p.L899F

p.P323L

p.H265Y

p.E482E

p.P445L

p.P318S

p.S405S

p.G83R

p.Q101H

p.S85S

p.P1239S  
p.R488R  
p.G115D

p.N630K  
p.A303V  
p.Q1719\*  
p.E1106K  
p.P2300P

p.E6K  
p.R154R  
p.G56S

p.S677F

p.R20R  
p.G405S  
p.S267F  
p.S207L

p.M138I  
p.G329E  
p.S733F

p.G492E

p.A344A

p.T61I  
p.M921I  
p.F73F  
p.N178I  
p.Q149\*  
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p.A16T  
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p.P321S

p.S959F  
p.S222S

p.T660I

p.P539S

p.P621S

p.S488T

p.S103R

p.R240C

p.F1065F

p.G173S

p.E566K

p.R143Q

p.E451K

p.E326K

p.G294R

p.R475R

p.W544\*

p.R332Q

p.L145L

p.G349E

p.P1434L

p.G546E

p.P115P

p.P433L

p.E565K

p.E671K

p.E265K

p.L463F

p.L360F

p.D238N

p.E490E

p.F2503F

p.E504K

p.G123E

p.V664E

p.F284F

p.R1050R

p.E1161K  
p.I190I  
p.G1250E  
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p.F2419F  
p.P451P

p.P1591L

p.V353V  
p.L378F  
p.G1543G  
p.F1008F  
p.S116F  
p.P1652S  
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p.P30S

p.S36F  
p.R173W

p.E31K

p.E6K  
p.F200F

p.V140A  
p.L111L

p.D281N  
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p.G2R  
p.R283\_splice  
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p.G102R  
p.E185E

p.P55L  
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p.P90S  
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p.V21V  
p.S85L  
p.A100T

p.G279D  
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p.L1164L  
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p.S20F

p.L701F  
p.G75E  
p.W316\*  
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p.E290K  
p.I382I  
p.I90I  
p.G561R  
p.F1266F

p.A316A  
p.S3202R  
p.R33K  
p.E13709K

p.F168F

p.S56S

p.P323S  
p.P592L  
p.S8S

p.Q1053K  
p.P291S  
p.R524\*  
p.G724G  
p.S544F  
p.Q607L  
p.E478K  
p.Q457\*  
p.R410W  
p.S39S  
p.E147K  
p.S3395L  
p.S437S

p.G2075R  
p.T506T

p.K289K  
p.S50F  
p.V664M  
p.M352I  
p.R75R  
p.P529P

p.E421K

p.A951A  
p.F154F  
p.D368\_splice  
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p.I344I  
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p.P108S

p.G147E  
p.R118R

p.I72I  
p.E722\*

p.S693L

p.E705E  
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p.G355R  
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p.P445L  
p.K491E

p.K342E  
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p.R293C  
p.S227F  
p.F354F  
p.G13R  
p.P301L  
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p.R71W  
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p.P397L  
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p.N996T  
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p.T800M  
p.V592V  
p.S171N  
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p.V62I  
p.R253C  
p.M69I

p.Y330F

p.S1326L

p.R304fs  
p.E101fs  
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p.P789fs

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p.KD115del

p.S167fs  
p.F124fs  
p.E273fs  
p.S192fs

p.KPYA1632del

p.R754fs  
p.V87fs  
p.I1404fs  
p.R117fs  
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p.E866K  
p.L76L



p.P223L  
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p.S609F  
p.W303\*  
p.Q376\*  
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p.P1535S

p.P1973S  
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p.R235R  
p.F121F  
p.S1929F  
p.S79F  
p.L81F  
p.W477\*  
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p.F810L  
p.P199L  
p.L21552F  
p.P568P  
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p.P47L  
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p.R128C

p.G443R  
p.S268F  
p.H27H  
p.E377K

p.G212D  
p.G10E  
p.S138F  
p.E291K  
p.I221I  
p.G270E  
p.P68P  
p.V3111V  
p.S276F  
p.L176F

p.A483V  
p.S462F  
p.G882E  
p.K647K  
p.L270F  
p.Q205Q  
p.V58V  
p.K604I  
p.G6317R  
p.F527F  
p.R174Q  
p.P1075P  
p.R406K  
p.P626S

p.E763\_splice  
p.H2256Y  
p.L763L  
p.P647S  
p.F4515F

p.P180S  
p.V622V  
p.L372L  
p.I87I  
p.P266L  
p.K80K  
p.Q51\*  
p.S88F  
p.P361S  
p.D10N  
p.R42\_splice  
p.E605K  
p.R1001K  
p.P40S  
p.R368K

p.E637K

p.P172L

p.G1033E

p.L579L

p.K363K

p.I90I

p.L410S

p.G1183\_splice

p.E537E

p.R240R

p.E405K

p.M1I

p.P88L

p.H18Y

p.Q231Q

p.G223E

p.H436Y

p.R269C

p.R61\*

p.R600C

p.S82F

p.E574E

p.T837T

p.C523W

p.E111E

p.I195M

p.I623I

p.P980S

p.P2947L

p.R1618R

p.P321S

p.S113F

p.H123Y

p.F255F

p.P572S

p.R293C  
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p.S120S  
p.R243Q  
p.L307F

p.A454V  
p.P1740P  
p.P141P

p.G86E  
p.R221K  
p.E82K  
p.F260F  
p.I193I  
p.F209F

p.G267R  
p.G458E  
p.A43T

p.E57\_splice  
p.E50K  
p.P570L

p.E161G  
p.T296\_splice

p.L849L  
p.M142I  
p.Y652H  
p.L238L  
p.S422S  
p.M80I  
p.S167L  
p.R356R  
p.R995K  
p.L560L

p.L42L

p.M67I

p.S5253F

p.R125C

p.L248F

p.L2510I

p.T4425T

p.T889T

p.W184\*

p.Y1050N

p.D415N

p.H869Y

p.E522K

p.V167V

p.Q285\*

p.E27K

p.E1011K

p.R289C

p.F187F

p.E383K

p.M580T

p.A800A

p.S500S

p.E94K

p.S1604\_splice

p.T633I

p.R375Q

p.S42F  
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p.E151K  
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p.E713K  
p.P123L  
p.E354E  
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p.F1688L  
p.F658Y  
p.S999L

p.R491R

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p.D293N  
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p.R707R

p.S1778C

p.V323V

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p.G1165R

p.D132N  
p.E133K

p.K246K  
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p.R61Q  
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p.R202K  
p.R57Q  
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p.D896N  
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p.R146R



p.V213V  
p.V254V

p.S85S  
p.E884K  
p.D506N  
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p.H411Y  
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p.S96S  
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p.G7S  
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p.L554L  
p.G1266E  
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p.M1235I  
p.P818S  
p.S368F

p.S571F  
p.E695K  
p.Q40Q  
p.S234F  
p.S21L  
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p.L76L  
p.V1725V  
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p.D425N  
p.P1203S  
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p.H197Y

p.L58L  
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p.E1016K  
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p.S6033S

p.E438K  
p.D459N

p.A377A  
p.L196L  
p.Q209K  
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p.P692S  
p.W265\*

p.R643Q  
p.G312E

p.R47G  
p.S545I  
p.E152K  
p.E45K

p.R5788K  
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p.S1195F  
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p.P68S  
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p.G508D  
p.S197F

p.S374F  
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p.D252N  
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p.D2126N  
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p.E194E

p.L5191L  
p.P55L  
p.E84D  
p.W407\*  
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p.P288P  
p.S224S

p.D796N  
p.P404S  
p.P219S  
p.V233V  
p.E402K  
p.S596S  
p.W497\*  
p.F54F  
p.P1375A

p.F100F

p.L798F

p.P212L

p.K499T

p.G329\_splice

p.E337\_splice

p.E567E

p.F92Y

p.F2611F

p.R423\_splice

p.G642R

p.P816S

p.S1118S

p.S561S

p.R104R

p.T546A

p.E319K

p.A127V

p.S292F

p.S990F

p.I328I

p.V480L

p.F2261F

p.G562E

p.L246V

p.F1264I

p.R630W

p.P463S

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p.P320L

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p.L1417L  
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p.R112K

p.S16F

p.R73S  
p.G369R  
p.S192R  
p.P450L

p.G627R  
p.F299F  
p.P1391S  
p.D614N  
p.H314Y  
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p.E824K  
p.S205F

p.R481Q  
p.L2203L  
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p.P761P  
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p.S280F  
p.F677L

p.E513K  
p.M72I  
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p.E354K  
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p.L1005H  
p.G310G  
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p.H1075Q

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p.G485E  
p.P180P  
p.G13E  
p.S254F  
p.V115V  
p.S350S  
p.P666P  
p.P889S  
p.S422F  
p.R284S  
p.I1359I  
p.F191F

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p.H40Y  
p.F439L  
p.G261E  
p.W183\*

p.H103Y  
p.I263I  
p.E1704K  
p.F351F  
p.N396I  
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p.D647G  
p.L586F  
p.G616S  
p.E132E  
p.T321I  
p.V320V  
p.G853G  
p.T245S

p.S124S

p.T416I  
p.R263R

p.I265I  
p.R818R  
p.G1034S  
p.F463F

p.E653K  
p.A32T

p.E526K  
p.Q1932E  
p.G549\_splice  
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p.P385L

p.T1033T  
p.R91Q

p.S306F  
p.P148S  
p.E2K  
p.F698F  
p.E42K  
p.E104K  
p.D522N  
p.G528E  
p.E552K  
p.S149S  
p.P222L

p.G143E

p.K54K  
p.Q292R  
p.S406S  
p.R334K  
p.E242K  
p.P439S

p.P1019P  
p.A413A

p.E224E  
p.E32K  
p.A846V  
p.E130K  
p.F7716F  
p.D349N  
p.G109E  
p.G193E  
p.E1028K  
p.G782G

p.R683K  
p.S12L



p.G784E  
p.R574Q

p.K574K  
p.K10335K

p.Q1274\*

p.Y147\*

p.E1171A  
p.L122L  
p.G382R  
p.G532E  
p.F556I

p.G65D  
p.Q529\*  
p.L33L  
p.P89S  
p.L338L  
p.S122S  
p.E549K  
p.S3891F  
p.P12S  
p.D50D  
p.F377F  
p.L127L  
p.E1272K  
p.L515L  
p.E480A  
p.I123I

p.F61F  
p.S85F  
p.E246K  
p.V278V  
p.E629K

p.A827\_splice  
p.Q526K

p.R707K  
p.G239R  
p.S197S  
p.F738F  
p.R129R  
p.G112E  
p.N738H

p.E176K  
p.H227Y  
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p.F431C

p.I218I

p.E202K

p.G2555E  
p.L21552P  
p.R1158\*  
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p.I457I

p.P171S  
p.R158C  
p.D294D  
p.E982K  
p.P800S  
p.G502E  
p.L63V  
p.G477R  
p.S76L

p.E72K  
p.S215P  
p.L816P  
p.D27N  
p.R243K  
p.G526E

p.P140P  
p.I76I  
p.D535N

p.P1009P  
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p.G944G  
p.W224\*

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p.S348F  
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p.L48L  
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p.V313M  
p.G173E  
p.E77K

p.R499K  
p.P741S  
p.S141S  
p.R543C  
p.G2002S  
p.P93S  
p.R337Q  
p.W325\*  
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p.P3505S

p.L503F  
p.E101E  
p.A123V  
p.E277K  
p.R246R

p.R223K  
p.L312F  
p.G139G  
p.S155F  
p.E243K  
p.R500R  
p.P390L  
p.P439P  
p.S37S  
p.A215A  
p.L138L

p.T309T

p.E78K  
p.L30L  
p.R978\*  
p.N194I  
p.V160I  
p.V459A

p.D355N

p.R1669C  
p.S13L  
p.Q115Q  
p.G322E

p.R652Q  
p.D284G

p.K216T

p.E681K  
p.M39I  
p.P2161L

p.S202F

p.E494\_splice  
p.I453I  
p.I878I

p.E395K

p.S78F

p.P132L

p.Q431Q

p.S121S

p.K581E

p.L30L

p.S427L

p.R667W

p.Q614\*

p.P147L

p.L246F

p.G369E

p.P101\_splice

p.P1917L

p.P303L

p.R8\*

p.R1094Q

p.E536K

p.V227V

p.G180R

p.P673L

p.R290R

p.K1149K

p.M291K

p.R334Q

p.S105S

p.F178F

p.E74K

p.E1032K

p.D670N

p.L338L

p.V346V

p.G704C

p.Q311\*

p.I198I

p.D108N

p.G392G

p.K1098E

p.D43N  
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p.G346D

p.E957K  
p.E56K  
p.S203S  
p.P384L  
p.P384S  
p.S67A  
p.S7076S

p.P237P  
p.D468H  
p.Y364\*  
p.L26L  
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p.H235P  
p.H7717Y  
p.R484R  
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p.P55S  
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p.G4675E  
p.I68I  
p.A526V

p.R255Q  
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p.L733L  
p.S670S  
p.D282N  
p.S1313S  
p.L411F

p.P161L  
p.L298L  
p.S294S  
p.G847E  
p.L51S

p.P255A  
p.P145S  
p.P75P  
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p.S7L  
p.G232D

p.P263S  
p.S357S

p.G137E  
p.K429K  
p.L24L  
p.P53L  
p.A692V  
p.V610V  
p.S829Y  
p.S443F  
p.V1081V  
p.S49F  
p.Q249Q

p.V1379V  
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p.L178L  
p.G266E  
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p.S718Y  
p.K1998K

p.G81D  
p.I84I  
p.S5253S  
p.G272R

p.P758S  
p.L724F

p.M342I  
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p.F223F

p.T518I

p.G205E

p.G341E

p.P170L

p.V27V

p.E83K

p.Q300Q

p.R55\*

p.S353S

p.T192T

p.G1497G

p.P267L

p.Q723\*

p.G135G

p.L82F

p.G619\_splice

p.I1939M

p.L431F

p.F355F

p.T88T

p.F316F

p.P282P

p.Q94\*

p.G118E

p.P180S

p.E192K

p.L107L

p.E201K

p.E205K

p.R410R

p.R132R

p.R465R

p.G5369E

p.L22L

p.R817Q

p.D196D



p.R1782R  
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p.L553L  
p.E272K  
p.S9F  
p.L72L  
p.I6117I  
p.P132L  
p.G6R  
p.L477L  
p.F215F  
p.K717K  
p.F16F  
p.G138G  
p.P273L

p.T672T  
p.F3321F  
p.D1522N  
p.A393A  
p.S106L  
p.P26S  
p.T1404T  
p.R15W  
p.P983S  
p.P302S  
p.D59N

p.L34L  
p.S765F

p.L221L  
p.L658L  
p.P701S  
p.P152L  
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p.E467K

p.S41F  
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p.E627K  
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p.E167K

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p.R221R  
p.P591L  
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p.H303H  
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p.R300H

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p.K132\_splice  
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p.H1351Y

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p.G363E  
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p.R46Q  
p.P1088L  
p.N80N  
p.S1826F  
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p.L175F  
p.N921K  
p.G2098E

p.G72E  
p.G698E  
p.L82L  
p.Y226Y  
p.P30S  
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p.S103F

p.H390Y  
p.G390S  
p.Q54\*

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p.P51P  
p.W497\*  
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p.G161R  
p.M406I  
p.S279F  
p.L647L  
p.H155Y

p.R12R

p.R727\_splice

p.K13\*

p.G191G

p.H334Y

p.P144P

p.R192\_splice

p.E32K

p.L650F

p.S257P

p.D26N

p.Q364\_splice

p.E801K

p.P577S

p.G485E

p.I183I

p.R35Q

p.S124F

p.D393N

p.I796I

p.F332F

p.E38K

p.H155Y

p.E18K

p.D206\_splice

p.R277R

p.W277\*

p.G86E

p.V119V

p.P586S

p.S225F

p.P991P

p.G2109D

p.R155R

p.E426K

p.L115L

p.L33L  
p.E1826\*  
p.G114R  
p.R570C  
p.S1170C  
p.R146Q  
p.T79T

p.P307L  
p.S504C  
p.E1179\_splice

p.E414\*  
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p.R20Q  
p.E3339K  
p.S94S  
p.P72P  
p.G471E  
p.S1387F  
p.H1770Y  
p.K87N

p.D417D  
p.F158F  
p.D4423Y  
p.R275C  
p.H268Y  
p.P638L  
p.M1I  
p.A1144V

p.E103K

p.Q161\_splice  
p.L85L

p.R226C  
p.P591P  
p.G549\_splice

p.R994W

p.P68L

p.L142L

p.D496N

p.I1078I

p.E244K

p.R234R

p.P454S

p.L327L

p.P392L

p.L205L

p.W177\_splice

p.L162L

p.G2258R

p.S1209S

p.K39\_splice

p.V147V

p.E471K

p.E83K

p.P267P

p.L243L

p.S202L

p.P71L

p.R315Q

p.S41S

p.G206E

p.P213R

p.S102R

p.K104N

p.E2231K

p.P453S

p.P472P

p.S113F  
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p.R56W  
p.T151T

p.G173E  
p.G116E  
p.L388L  
p.L110F  
p.S273F  
p.G363R

p.P1802S  
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p.S291P

p.V223V  
p.K967K  
p.Q125\*  
p.E27K  
p.G561E

p.G654E

p.W207\*  
p.E337K  
p.I178I

p.L1573M  
p.R1008K  
p.G61R  
p.Q178\*  
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p.R169W

p.P276L  
p.G935S  
p.G350D  
p.E13E  
p.C246C  
p.T398T

p.L775F

p.H1103Y

p.P136S

p.K766K

p.D882N

p.R327\_splice

p.V414M

p.E605K

p.A47T

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p.L226L

p.L256L

p.I112I

p.P595S

p.P630S

p.G561R

p.E363K

p.L575L

p.P407S

p.K229K

p.R336R

p.E1499K

p.G200E

p.F269S

p.S720S

p.R578R

p.R730C

p.E437E

p.P251S

p.G103S

p.G182E

p.E625\*

p.G226S

p.P182S



p.E75K  
p.F188F

p.K576\*  
p.S400F

p.S88S  
p.S460F

p.A816T  
p.P250L  
p.P146L  
p.G525R  
p.E865K  
p.E360E

p.R513K  
p.R711R  
p.P707S  
p.P782L  
p.A204T  
p.P415H  
p.R88Q

p.G623S  
p.V185M

p.R56C  
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p.S351S  
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p.G420G  
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p.D539N

p.E1521K

p.L3346L

p.P402L

p.R2003K

p.V440V

p.G1421R

p.G173E

p.L70L

p.A211A

p.R367K

p.R102Q

p.I461I

p.R459R

p.G69E

p.S36N

p.G352A

p.R782\*

p.S1002S

p.S286S

p.S244F

p.T886T

p.Q115Q

p.G124R

p.I44I

p.V370\_splice

p.V927V

p.I712I

p.F238L

p.G410G

p.V1120I

p.A357V

p.S552F

p.S120\_splice

p.L19M

p.F12F

p.K406N  
p.G184S  
p.S443F

p.R419W

p.R343Q  
p.A440V  
p.A81T  
p.P220S  
p.D324D  
p.S1170S  
p.A75V  
p.F32F  
p.A526A  
p.V770V  
p.L220L  
p.E269E  
p.G268E

p.L156L  
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p.P1871S  
p.H460H

p.K1007N  
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p.E423K

p.T686I  
p.P60S

p.L1995L  
p.V462I  
p.F182F  
p.K760K

p.P903S  
p.G186S

p.P689L

p.L17L

p.\*332\*  
p.V505V

p.F164F  
p.K245K

p.P106P  
p.I239L

p.G622E

p.G55R  
p.T195T  
p.P49P

p.I28I

p.R442C  
p.A472A

p.R147R  
p.K500K  
p.A1005A  
p.M4I  
p.R192\_splice  
p.Q856\_splice

p.A261A  
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p.R290Q  
p.Y482D  
p.K830K  
p.M132I

p.P385S

p.T65T  
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p.L266L  
p.S247S

p.R789Q  
p.K306R  
p.R1782Q  
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p.S722L

p.P396P  
p.F34I  
p.E335E  
p.S80S  
p.G187S  
p.I342I  
p.I123I  
p.P1333P  
p.F858F  
p.P1252S  
p.T1255T  
p.R325S  
p.R336R  
p.L878L  
p.S2089F  
p.M629I

p.I524I  
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p.P1371R  
p.I115I  
p.A73V  
p.W2566\*

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p.D1097N

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p.R228C  
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p.S27S

p.L739L  
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p.I3777I

p.E872K  
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p.G372R  
p.F232F

p.K608K

p.F791I  
p.W165\*  
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p.D99H

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p.D362N  
p.D1305N  
p.F552F

p.S450S  
p.P2589L

p.R2972Q  
p.G45E

p.S2448\*  
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p.R359Q

p.G330G

p.F257F

p.E1696K

p.I260I

p.P297S

p.S299F

p.N482D

p.L1577L

p.I1008I

p.P43L

p.T869I

p.E269K

p.R400C

p.T326T

p.E285K

p.D16N

p.P26P

p.Q1051\*

p.Y129N

p.V1263V

p.K2508Q

p.T321T

p.S7L

p.D1288N

p.P448P

p.A71A

p.N27N

p.P58S

p.G100E

p.R287Q

p.H414Y

p.R581K

p.V202V

p.F166F

p.S1241F

p.E1260\_splice

p.R61Q

p.S130F

p.R121C

p.W664\*

p.D256N

p.L498L

p.Y94N

p.F157F

p.S146S

p.T2220I

p.F635F

p.S415L

p.E193K

p.T368I

p.I65I

p.L271L

p.P437L

p.R1188W

p.M294I

p.P465S

p.P337S

p.L93L

p.S159F

p.C57Y



p.K604E  
p.F264S

p.E247K  
p.G57R

p.G206G  
p.P391S  
p.E311K  
p.P227S  
p.R44W  
p.R1349C  
p.G620E  
p.A399G  
p.Q23R  
p.I334I  
p.F1041F  
p.S391F  
p.H568Y  
p.M2043I  
p.S262L

p.G11E  
p.E321K  
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p.D1812E  
p.A61T

p.S36S

p.G380R  
p.L1172L

p.H60Y  
p.R234R  
p.S231L  
p.L340L  
p.G1962E  
p.T170T  
p.N1034Y  
p.V392V

p.R854R  
p.P460L  
p.I685I  
p.F496Y

p.L201L  
p.M321I

p.V1121A  
p.L475L  
p.L89L  
p.P17L  
p.S791L  
p.W3633\*  
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p.P326S  
p.S64F  
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p.R304C  
p.G117R  
p.E286K

p.I337I  
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p.I128I  
p.R282C  
p.S429S  
p.S95L  
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p.F421F  
p.F369F  
p.F661F

p.G1025E

p.I799I

p.E239K

p.G2379E

p.E2278K

p.S1513F

p.R533\*

p.S968N

p.D85N

p.A434V

p.P22L

p.F66F

p.I287\_splice

p.H421Y

p.Q111\*

p.P10098S

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p.E182K

p.I68I

p.G1491E

p.S356F

p.L69L

p.D24N

p.P213S

p.S827P

p.P90S

p.R319\*

p.L57L

p.T231I

p.D489N

p.V11V

p.I225I

p.G709\_splice

p.S115L

p.P1947L

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p.E332K  
p.E183K  
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p.A888A  
p.F179\_splice  
p.N294K

p.R2981K

p.T1955I  
p.S67F

p.R831Q

p.P1413S  
p.R45Q  
p.R423\_splice  
p.S969F  
p.P744S  
p.R175K

p.T972T  
p.H64Y  
p.R1302Q

p.S344L  
p.R573\*

p.G105G  
p.A399T  
p.S3035F  
p.E365K  
p.N140N  
p.T21K

p.E108G

p.S73F  
p.F165F

p.G504E  
p.R186R  
p.V346G

p.G85R

p.P257S  
p.S226S  
p.S690F  
p.S1534S

p.W464\*  
p.K48K

p.Q473\*  
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p.T144A  
p.R785R  
p.R1664R  
p.F151F  
p.A840V  
p.L963L  
p.R357Q

p.W577\*  
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p.V309M  
p.S1197S  
p.P104S  
p.L250R  
p.P193L

p.D652N  
p.I98I  
p.E494\_splice  
p.S371S

p.A215V  
p.G304E

p.P328S  
p.S660F

p.F1226F  
p.R658C  
p.W874\*  
p.P399L  
p.C64\*  
p.R1180L  
p.L121L  
p.I185I

p.L365F

p.G1437E  
p.P284P

p.G44R

p.A336A  
p.G63E

p.W103\*  
p.T563T

p.P54S  
p.E934\_splice  
p.R139R  
p.S605F  
p.G926R  
p.P46S  
p.K384K  
p.D1070N  
p.R440\*  
p.L152F

p.A96V  
p.G514R

p.E54E

p.S192F  
p.F2012F  
p.E581K  
p.Q915\*  
p.D252N  
p.P490S

p.F523F  
p.P3426P  
p.F32485F  
p.G106G  
p.P1335S  
p.I177I

p.G1525E  
p.R125Q  
p.P145L  
p.F493F  
p.P4398L  
p.R633C  
p.S353F

p.E467K  
p.P124S  
p.M1776I  
p.R279\*

p.G899R  
p.S156S

p.M100I

p.K423K  
p.S22S  
p.Q468H  
p.R2592R  
p.Q427Q  
p.S16S

p.E584K

p.E879K

p.S32F  
p.S414L  
p.R1913C  
p.F27F  
p.E1019E  
p.R1122Q  
p.H264\_splice  
p.P307L  
p.S406F

p.V368V  
p.E485E  
p.A24S  
p.F13F  
p.V679V  
p.I133I  
p.S55S

p.G97D  
p.W167\*

p.S5301L  
p.L350L  
p.G85R  
p.G128S  
p.R1121R  
p.L829L  
p.P326R  
p.P182S  
p.D98N  
p.R624C

p.K77E  
p.G471\_splice  
p.V339V  
p.G162G  
p.S42F  
p.F918F  
p.W2324\*  
p.P70S  
p.W703\*  
p.N327N  
p.R390Q



p.L33L

p.R385Q

p.Y483Y

p.S344L

p.P365S

p.S515F

p.P271L

p.Q10Q

p.V496V

p.S809Y

p.D409N

p.P624S

p.E267\*

p.L5L

p.P454S

p.L507F

p.V449V

p.G32E

p.R287R

p.E327K

p.P1695S

p.G47\_splice

p.I332V

p.I267I

p.L205F

p.H192Y

p.S557F

p.P449L

p.W263\*

p.L1105L

p.T33T

p.D325\_splice

p.G221G

p.F188F

p.F154F

p.I110I

p.P368L

p.R486K

p.P108S

p.Q424Q  
p.P290L  
p.A479V  
p.R738C  
p.G158\_splice

p.P158S  
p.G131E

p.S903F  
p.S218S  
p.L36F

p.T2119T  
p.V511V  
p.R270R  
p.L18956L  
p.F152F

p.P57L

p.E2420K  
p.D620N  
p.R273Q  
p.G472S  
p.D552N  
p.W151\*

p.E221K  
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p.P39S  
p.E384K

p.P1236L  
p.G175E  
p.P213L  
p.P30L  
p.S480F

p.S182F  
p.P21S  
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p.N77D

p.V148V  
p.P141S  
p.P112S  
p.V73M  
p.E60E  
p.R523\_splice  
p.E302K  
p.T7T  
p.W256\*  
p.R721K

p.Q278\*  
p.I163I  
p.E763K  
p.G424D  
p.P193L  
p.P8280S  
p.K762E  
p.R676C  
p.P149L  
p.S141F  
p.G1034D  
p.E92K  
p.A1068A  
p.S304L  
p.V332V

p.V448V  
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p.P528S

p.E467K

p.Q1006\*  
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p.G74G  
p.E407K  
p.P247S

p.G692R

p.R1674K  
p.R29K  
p.A50A  
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p.S5441L  
p.F3167F  
p.I887N  
p.S1181G  
p.P177P

p.R1079Q  
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p.D292N  
p.E280K

p.D801N  
p.I261T  
p.E68Q  
p.F220F

p.E47K  
p.G5E

p.G185E  
p.P1350L  
p.S365S

p.R2548Q  
p.E868K  
p.K168N  
p.L450L

p.K146K  
p.W158\*

p.I380I

p.R175Q  
p.S580F  
p.I96I

p.F315F  
p.P458L  
p.W43\*  
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p.R1060C  
p.S742S

p.L977L  
p.L53L  
p.E1794K  
p.E124K

p.P405L  
p.I141I

p.E389E  
p.F5F

p.P666L  
p.P125P

p.S607F

p.Q72Q  
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p.P94L  
p.R375\_splice  
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p.S6190F

p.S325S

p.G649G  
p.R183Q

p.F209F  
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p.F1081F

p.R499R

p.E88K  
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p.G53R  
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p.L215F  
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p.F362F  
p.D291N  
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p.E799K  
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p.L100L  
p.L121F  
p.S129F

p.G144G  
p.Q256\_splice  
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p.R681C

p.P64L

p.L269L  
p.A57V  
p.G12E  
p.E437\*

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p.D124N

p.R462C  
p.Q274Q  
p.R15K  
p.E624K  
p.F682F  
p.V140V  
p.A1243A  
p.S375S  
p.G63R  
p.R21W  
p.G40R

p.I273I

p.Q397\*

p.G417E  
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p.G1747R  
p.P321L  
p.T319T  
p.P158S

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p.R54C  
p.F182F  
p.I185I  
p.L480L  
p.P331S  
p.S181L  
p.R55\_splice

p.G622\_splice  
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p.W13\*  
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p.V237V  
p.G1308S  
p.A145T

p.S145F  
p.R111C  
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p.L163V  
p.E89K  
p.E203K  
p.P37L  
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p.E893E  
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p.L683L  
p.V325V  
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p.G96R

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p.L1005F

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p.S597F  
p.P351L  
p.S459F  
p.E120K  
p.I598I



p.E184K  
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p.K358K

p.W399\*  
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p.T431T

p.E1939K  
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p.I201I  
p.N541H  
p.D468D  
p.G265R  
p.G1272E  
p.S866L  
p.P52P  
p.L267F

p.W703\*  
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p.D408N

p.I982I

p.R229K  
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p.P281P  
p.R240R  
p.F286F  
p.S70\_splice

p.I195I  
p.F569F  
p.R935\*  
p.P211L

p.G577E  
p.P239S  
p.P415S  
p.P87L  
p.H775Y  
p.W25633\*  
p.V42V  
p.S499F  
p.S104F  
p.R982\*  
p.L114L  
p.S1737S  
p.W1440\*  
p.V476\_splice  
p.N174N

p.R854K

p.L338L

p.P576L  
p.E67K  
p.I734I

p.C11G  
p.S1056F  
p.A346V  
p.P2395L  
p.I272I  
p.P17S  
p.P90L  
p.I372I

p.S25S  
p.S1187S

p.C29F  
p.S68S

p.K119R  
p.K188\_splice

p.G1087E  
p.P184L  
p.K76K  
p.I91I  
p.P209L  
p.F291F  
p.R177R

p.R169C

p.E333E  
p.S370Y  
p.T56T  
p.L414L  
p.S233F  
p.F182F  
p.S1124S  
p.R1218K  
p.E3049K

p.P7093S

p.D106N  
p.G142G  
p.R1750R

p.W685\_splice

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p.G93E  
p.L317L  
p.F641F

p.P351S  
p.S768F  
p.R6C  
p.R1010C

p.P32S

p.R1269H  
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p.Y179N  
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p.S202S  
p.S169S

p.E1249K  
p.H153Y  
p.G394E  
p.K194K  
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p.S3767F  
p.R310M  
p.T94T  
p.Y29Y  
p.S137F  
p.D330N  
p.P369L  
p.S281S  
p.L1161F  
p.P179S

p.P460S

p.L1262F  
p.P685L  
p.E558K  
p.P272S  
p.A291\_splice  
p.Q182\*  
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p.E305E  
p.E2516\_splice

p.V601V  
p.P1240L

p.G125\_splice

p.P207L

p.F252F

p.L799L

p.Y672Y

p.E139K

p.R576R

p.N657Y

p.E108\*

p.E226\*

p.R369M

p.V50V

p.E31K

p.S568F

p.P299S

p.E481K

p.G608E

p.L419F

p.S458L

p.F941F

p.L75M

p.G1019E

p.E57D

p.R411\*

p.R1135W

p.P343L

p.K661K

p.Q619\*

p.R754R

p.P461S

p.G372E

p.G118R

p.P601L

p.R298Q

p.P74S

p.T651T

p.G832G

p.S131S

p.G77E

p.P342L

p.G607G

p.P232S

p.Q205Q

p.T244T

p.P824L

p.S477F

p.S414L

p.A310A

p.E129K

p.I3628I

p.S193F

p.V577M

p.I130N

p.G6E

p.L385L

p.R872W

p.Q118\*

p.F263F

p.P228L

p.V205V

p.F80F

p.G93E

p.G1736G

p.V74I

p.S310S

p.F773Y

p.L1317L

p.V159V  
p.P71S  
p.S1079F  
p.R513\*

p.S7S

p.S533S  
p.L441L  
p.F119F  
p.P437P  
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p.P223L

p.D215N  
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p.P497S

p.L300F  
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p.M254I

p.Q157K  
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p.V434V

p.Y147C

p.K44T  
p.E110K  
p.I3121I  
p.D707\_splice  
p.D12N  
p.G147R  
p.G187D  
p.G205R  
p.R29R  
p.D122N  
p.P497L  
p.M680I

p.M196K  
p.V532V  
p.S442F  
p.A371A  
p.D138\_splice  
p.P13S  
p.H376Y  
p.R39R  
p.W504\*  
p.A2060V  
p.P80T  
p.P528L  
p.E503K  
p.G97S  
p.C191C

p.R692\*  
p.D335N  
p.H70\_splice  
p.R319Q  
p.D467N  
p.P514S  
p.L686L

p.G207E  
p.G223R

p.S313T  
p.P100L  
p.S183F



p.D64N

p.T134T

p.L72P

p.M1345I

p.P184P

p.E517E

p.L1512L

p.P659S

p.Q434\*

p.E1168E

p.Q122\*

p.I252I

p.P473L

p.G713E

p.F763F

p.A303A

p.G87G

p.L624L

p.P830S

p.P172L

p.P16L

p.P142S

p.F117F

p.P265L

p.P237S

p.G437E

p.K455K

p.I1078I

p.A67A

p.G469E

p.L188P

p.G17\_splice

p.I1259I

p.L415F

p.P217P

p.P516S  
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p.D206N

p.V918V  
p.G1074G

p.P45S  
p.K1246K

p.H184Y  
p.L15L  
p.L86L

p.G1429R  
p.R8Q  
p.I632I  
p.L307L  
p.P466S  
p.L594L

p.P130L  
p.P167L  
p.S118F

p.S1015A  
p.I583I

p.K4424T

p.S758F  
p.S391F  
p.P675A  
p.L102R

p.G136E  
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p.S542F  
p.K272K  
p.A255A

p.L129L

p.V86V

p.G2242G

p.P34A

p.R413\_splice

p.I69I

p.M738I

p.L227F

p.E2654K

p.S1098F

p.P394P

p.E2567D

p.V34\_splice

p.A148A

p.P580L

p.G73R

p.S480P

p.G516R

p.H456Y

p.W303C

p.G430G

p.F540F

p.P578S

p.E86K

p.D174N

p.E40K

p.E42K

p.G3491E

p.L459L

p.P292L

p.P921L

p.D60N

p.E102K

p.K55R

p.Q2564\*  
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p.E488K  
p.E1540G  
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p.G272G

p.S700S  
p.E389K

p.P415P  
p.F1078S  
p.R278Q  
p.T932T  
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p.I760L  
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p.M30I  
p.P622L

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p.E468K  
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p.D291N  
p.I2060V  
p.L260L  
p.H809H  
p.E95E  
p.S212L  
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p.P6462P  
p.A100A  
p.R295R

p.R43\_splice  
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p.E92K

p.L952L  
p.F2338F  
p.V93V  
p.L729L

p.V245V  
p.Q195\*  
p.S1455S  
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p.K567T  
p.Q629\_splice

p.G97E

p.Q932H  
p.R412\*  
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p.E375K  
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p.M213I  
p.I808L  
p.F517Y

p.Q590Q  
p.V615V  
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p.A245V  
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p.K598R

p.L192F  
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p.P107L  
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p.E676K  
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p.F89F  
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p.H186Y

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p.Q693\*  
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p.G52R  
p.E198K  
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p.D142N  
p.P472L  
p.G77R  
p.E319K  
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p.S109F  
p.E400K  
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p.L97L  
p.P271L  
p.S232S

p.P1095S  
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p.S1791S  
p.S189F

p.A607T

p.L70L  
p.P437S

p.R232K

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p.E757K  
p.R99\*

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p.P1220P  
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p.G262R  
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p.P259L

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p.E137K



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p.D429N

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p.P1718P  
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p.T1404I  
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p.E53K  
p.S653F  
p.K226K  
p.R785C  
p.G2591R  
p.G220E  
p.S199F

p.G2E  
p.S376F  
p.S248F  
p.E318K

p.L49F  
p.I65I  
p.R1664Q  
p.L358\*

p.E469K

p.W1453\*  
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p.T259I  
p.D218N  
p.I551I  
p.D1045N  
p.D208N  
p.F38Y  
p.R263R  
p.F394F

p.R5507R  
p.P380P

p.H938Y  
p.P618S  
p.P218S

p.S352S  
p.L61L

p.I482I  
p.E865K  
p.Y200Y  
p.G37D  
p.R246K  
p.S792S  
p.P41S  
p.D375N  
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p.R25R  
p.T432P

p.S480S  
p.G287E  
p.F188F  
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p.R167R  
p.D142N

p.I501I

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p.T245T  
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p.P535L  
p.P841S  
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p.L674L  
p.I221I  
p.P865S  
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p.S650L  
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p.R301W

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p.G170E  
p.L28V

p.D413N

p.L67F  
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p.R1418C

p.R106R  
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p.G323E

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p.H348H

p.W369\*

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p.L120F

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p.L615L  
p.E329K

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p.W175\*  
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p.G1301R

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p.G698R

p.G1074R  
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p.A876V

p.L84L

p.M23I

p.S18F

p.G401R

p.L10R

p.S438L

p.P624P

p.P72L

p.G161\_splice

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p.D1441\_splice

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p.N96N

p.S220\_splice

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p.D166N

p.T17T

p.S36S

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p.L247L

p.G123E

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p.G462E

p.L188F

p.I29I

p.L756L

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p.G186R  
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p.H468H

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p.P486S

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p.V29V  
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p.G456E



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p.G143D

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p.E157D

p.G523R

p.R626R

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p.R277\*

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p.D174H

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p.P290S

p.L209L

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p.P586S

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p.R47W

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p.A186T

p.S72F

p.R36C

p.S687F

p.V689V

p.S267S

p.S408S

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p.G109\_splice

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p.S665F  
p.W162\*  
p.P419S  
p.R993C  
p.T874I  
p.T1906I  
p.P224L

p.R212R  
p.K465K  
p.A438A  
p.S159\_splice  
p.P26L  
p.E126\_splice  
p.F438Y  
p.G96G



p.W69\_splice  
p.W919\*  
p.H567Y

p.A12T  
p.E308K  
p.S388L  
p.S825F  
p.R153K  
p.P275S

p.S355F

p.P1808L  
p.P2714L  
p.M319I  
p.G269D

p.L699L  
p.P590L  
p.I269I  
p.G340D  
p.R297Q  
p.A701V  
p.A317V  
p.R1099Q  
p.R262Q  
p.P157S

p.L666L  
p.Y995C  
p.S1587S  
p.R2561R

p.R46H  
p.F328F  
p.P667L  
p.P548S  
p.P130P  
p.G270E  
p.I421I  
p.W932\*

p.L56L  
p.P562P  
p.S588L  
p.P12S

p.G100E  
p.G206S  
p.D19N  
p.L575L  
p.P115S  
p.G586D  
p.T393T  
p.S483F  
p.P128L  
p.D1747N  
p.P1109S

p.R341R  
p.D555N  
p.E48K  
p.G141R  
p.P308L  
p.D641\_splice  
p.R11K  
p.R92R  
p.L588L  
p.E802K  
p.R760W  
p.P128S  
p.E149K  
p.P380S

p.P497S  
p.H432Y  
p.R498Q  
p.R274R  
p.L403L  
p.P254P

p.A9A  
p.R445K  
p.L589L

p.I308I  
p.L24L  
p.G190S  
p.E567K

p.P365L  
p.P536L  
p.E219E  
p.R436C  
p.F321F  
p.F726F  
p.R828Q  
p.E69K  
p.P2168L  
p.R170C  
p.G180S  
p.G311R  
p.I133I  
p.N312N  
p.D17N  
p.M275I  
p.P971P  
p.P2364L  
p.S399F  
p.R311C  
p.Q168\*  
p.P562L

p.T504T  
p.P29S  
p.L82F  
p.P112L  
p.S336F  
p.F749F  
p.P604S  
p.E334K  
p.Q224\*  
p.E92E  
p.I158I  
p.G34E

p.D326V

p.P812S  
p.P261L

p.N53S  
p.E355K

p.Q572\*  
p.E368K  
p.I294I  
p.G375G  
p.I352I  
p.P447S  
p.I731I  
p.P234S  
p.E204E  
p.P1015L  
p.E274K  
p.S1235F  
p.S222S  
p.Q74E  
p.V214V  
p.V269V  
p.G395E  
p.G54S  
p.G1080E

p.K471K  
p.L125L  
p.P170S  
p.G472R  
p.R588\*  
p.G275E  
p.F51F  
p.E788K

p.Q796H  
p.F450F  
p.N408S  
p.R81W  
p.S267F  
p.S1909F  
p.P777L  
p.G132R

p.P414P  
p.E36K  
p.L177L  
p.R170Q  
p.D665N  
p.W236\*  
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p.E244K  
p.S21F  
p.S99S  
p.P191S  
p.R216R  
p.P26S  
p.W77\*  
p.R13564C  
p.D146Y  
p.G673G  
p.E1021K  
p.R149C  
p.R508\*  
p.G1426R

p.P536S

p.R451\*  
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p.S740S  
p.G1295E  
p.T530T  
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p.H2802Y

p.D1009N  
p.G1569R  
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p.P310S  
p.S254L

p.I224I  
p.S136F  
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p.P3294L  
p.D20N  
p.L69F  
p.M347I  
p.R158K  
p.M1048I  
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p.E258K  
p.E714K  
p.R196K  
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p.L1162L  
p.I971I  
p.D2110D  
p.F909F

p.E200E  
p.L192L  
p.E218K  
p.F2594F  
p.R345C  
p.P850L

p.P28L  
p.M277I  
p.L466L  
p.G55R  
p.F87F  
p.A378V  
p.S149S  
p.T190T  
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p.F1190V

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p.S141L  
p.A1937T  
p.L723L  
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p.S763F  
p.G727G  
p.P463S  
p.T149M  
p.G586S  
p.K218K  
p.E255K  
p.L301L  
p.I182S  
p.Q696\*  
p.S1660S  
p.L291P  
p.P368P  
p.R194C  
p.F557F  
p.L515F

p.K68K  
p.V413M  
p.E534K

p.S4190F  
p.F1981F  
p.S265F  
p.F253F

p.S159\_splice

p.K133R

p.G81S

p.V170V

p.M726I

p.P212S

p.E325K

p.G1784E

p.R708K

p.E55K

p.D357N

p.E599K

p.P48S

p.A213V

p.I1080I

p.S95F

p.P395S

p.N344N

p.S231S

p.H687Y

p.S76T

p.P891S

p.I748I

p.K435\_splice

p.P2735\_splice

p.D4116N

p.E54E

p.G191E

p.P487L

p.K220K

p.A311V

p.S138F

p.P35S

p.R916C

p.P895L

p.S213F

p.M212I



p.E1539K  
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p.S332S  
p.S1222L

p.G94E  
p.G1028E  
p.G832E  
p.P154L  
p.L2687L  
p.P41S  
p.G1357S  
p.D99N  
p.S551S  
p.E339K  
p.P726S

p.E338E  
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p.D88N  
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p.M2136I

p.V51\_splice  
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p.A15V  
p.L1290fs  
p.P40fs  
p.K2169del  
p.S352L  
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p.T730T

p.D470D  
p.R217C  
p.S968L  
p.R233R

p.R637Q  
p.V339\_splice  
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p.P1402S  
p.E4D  
p.L573F  
p.F49F  
p.G438G  
p.G11571\_splice  
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p.R77P

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p.E1324K  
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p.R499C  
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p.R989\*  
p.L18L  
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p.D3N  
p.V309V  
p.R541C  
p.F171F  
p.R700R

p.F417L  
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p.M246V

p.G99E  
p.P104S  
p.S123S  
p.R592K

p.N133K

p.L1060\_splice

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p.R482W

p.K566\_splice

p.R18K  
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p.P4700S  
p.W335L

p.S270L  
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p.P803L

p.K628\_splice

p.G748G  
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p.E1160K

p.N221H  
p.R59R

p.W1155\*

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p.P234L

p.L33L  
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p.R817H  
p.M19I  
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p.A188V  
p.G1207E  
p.S50F  
p.W257\*  
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p.G125\_splice

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p.M552I  
p.Q3H  
p.G111G

p.P62P  
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p.G697E  
p.G87\_splice  
p.V63I

p.P194S

p.L824L  
p.R118W  
p.Q2207R  
p.R797H  
p.R40G  
p.A96\_splice  
p.K273K  
p.S239L  
p.E272K  
p.P334S

p.A17T

p.K304\*

p.M97I

p.A14\_splice

p.F153F

p.Q394\*

p.E634K

p.P185P

p.S94F

p.I1317I

p.G64V

p.V20V

p.R1221R

p.F532F

p.P217L

p.R278K

p.S375S

p.E149K

p.D806\_splice

p.S84S

p.R216Q

p.S543F

p.A666A

p.V756M

p.E46K

p.G823E

p.E18936K

p.L793L

p.S218F

p.Q720Q

p.H1278R

p.E338K

p.I277I

p.K452R

p.P313L

p.I364I

p.V422V

p.A3601A  
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p.I261I  
p.R552S

p.G246G

p.F341F  
p.L114L  
p.A264T

p.Y42Y  
p.F103L  
p.S254L  
p.E261\_splice  
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p.R155R  
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p.R399G  
p.E430K

p.G87E

p.P558L

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p.I167I  
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p.P763L

p.V821V  
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p.D356N  
p.P254S

p.P1454P  
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p.E166V  
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p.S1704L  
p.P466L

p.G713D  
p.L1403L  
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p.G543S  
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p.W68\*  
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p.G225E  
p.G750R  
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p.L393L  
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p.P384L  
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p.P102P

p.R235\_splice  
p.E498K

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p.S359L

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p.T818M  
p.P294L  
p.G369S  
p.T735T

p.P103P  
p.P1179L

p.F257F



p.E666K  
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p.Q117Q  
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p.S309F

p.K370K  
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p.D184N  
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p.D261\_splice  
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p.V2028I  
p.R652R  
p.E351K

p.G49V  
p.P14S  
p.G16E  
p.E1241K

p.S179F

p.E139K  
p.P87S

p.E778K

p.K276K  
p.K90E  
p.S175S  
p.P328P  
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p.G319E  
p.E416K

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p.R204C  
p.K73K  
p.P66S  
p.E495K  
p.R635H

p.Y65S  
p.F191F

p.E525E  
p.G39W  
p.E384\*  
p.P779S

p.D19N  
p.K117K  
p.R829R

p.G1090\_splice

p.P37S  
p.G537\_splice

p.N77N  
p.R80Q

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p.T799I  
p.E4030K

p.F1127F  
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p.G598S  
p.V157G  
p.P313S  
p.G1580R

p.A500A  
p.E2113K  
p.D273V  
p.E87E

p.S134L  
p.R75Q

p.H2660Y  
p.H59Y  
p.V507E  
p.P267S  
p.W255\*  
p.K115R

p.G896E  
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p.R598C  
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p.P284S  
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p.M297I  
p.K3N  
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p.F522F  
p.R407W

p.S166F  
p.R40C  
p.S215F  
p.G952E

p.P737L  
p.G549R  
p.R1453P  
p.S70S  
p.R270H  
p.D1335D  
p.F113F  
p.M1I  
p.Q462\*  
p.E771K  
p.M81I  
p.G111G  
p.G556E  
p.G767G  
p.Q297\*  
p.S481F  
p.D67N

p.P151L  
p.G156S  
p.I845I  
p.R465R  
p.G32D  
p.A2104V  
p.S36F  
p.N142S  
p.R630R  
p.S496S  
p.R341C

p.I375I  
p.E41K  
p.P74P

p.\*170\*  
p.F366S

p.R193Q  
p.I129I  
p.V709V  
p.E741K  
p.R170R  
p.C32\*  
p.F95F  
p.L121L  
p.160\_161insG

p.L28R  
p.F22S  
p.R922H  
p.R23W

p.P230S  
p.T998S  
p.C184C  
p.R396W  
p.S452S

p.T2077A

p.S841N  
p.V479M  
p.S197F  
p.C386C  
p.R118W  
p.T957M

p.Q812R  
p.P1020P  
p.S108L

p.R635W  
p.R788C  
p.G102D  
p.S24G  
p.A563V  
p.N432S

p.R53H  
p.L5P

p.V220\_splice

p.A310A

p.R1246W

p.H4P

p.A402T

p.H268Q

p.S98G

p.R277Q

p.A1078V

p.L153F

p.R757S

p.Q204Q

p.V106M

p.Y101H

p.C749Y

p.L185L

p.P49L

p.Q4H

p.N131N

p.C347C

p.G501V

p.G773R

p.E68K

p.H509Y

p.G2545D

p.S173N

p.A196T

p.E685\_splice

p.G44G

p.E137K

p.A222A

p.V755L

p.L314L

p.L327L

p.G131\*

p.R108C

p.W808\*

p.D589D

p.L255L

p.G203\_splice

p.G146\_splice

p.P498P

p.A226T

p.L225L

p.K274\_splice

p.E221Q

p.V46A

p.L131L

p.I138K

p.W640S

p.D63N

p.G597G

p.R565W

p.F729C

p.L411F

p.M560I

p.L132L

p.P392P

p.R414H

p.T325T

p.W808\*

p.R55L

