	CHR	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
	POS(NCBI36)	119365446	119365825	119366014	119366306	119366617	119376060	119376112	119376479	119384435	119384446	119384657	119385388	128456929	128457212	128457248	128457901	128458421	128458427	128466049	128466059	128466354	128466944	128466948	128475131
	rsID	**New**	rs181646	rs181647	rs181648	rs181649	**New**	rs181669	**New**	rs181677	rs4752087	rs697185	rs181678	**New**	rs4397749	rs7100708	**New**	**New**	**New**	rs34665971	rs11599718	**New**	rs7909548	rs7923706	**New**
	AMPLICON	10qMB119a	10qMB119a	10qMB119a	10qMB119a	10qMB119a	10qMB119b	10qMB119b	10qMB119b	10qMB119c	10qMB119c	10qMB119c	10qMB119c	10qMB128a	10qMB128a	10qMB128a	10qMB128a	10qMB128a	10qMB128a	10qMB128b	10qMB128b	10qMB128b	10qMB128b	10qMB128b	10qMb128c
	REFallele	G	T	C	C	G	G	T	G	C	T	C	T	A	T	T	G	G	A	G	A	G	A	G	G
	ALTallele	A	G	T	A	A	C	C	C	G	A	G	A	C	C	G	T	C	C	A	G	A	G	T	A
POPULATION	**SAMPLE NAME**																								
AVARS	a1	GG	TT	TT	AA	AA	GG	CC	GG	*CC*	*TT*	*GG*	*AA*	AA	CT	GT	GG	GC	AC	*GG*	*GG*	*GG*	*AA*	*GG*	GG
AVARS	a2	GG	TT	TT	AA	AA	*GG*	*CC*	*GG*	*CC*	*TT*	*GG*	*TA*	AA	TT	TT	GG	GC	AC	AG	GG	GG	AA	GG	GG
AVARS	a3	GG	TT	TT	AA	AA	GG	CC	GG	CC	TT	GC	AT	AA	CT	GT	GG	GC	AC	AA	GG	GG	AA	GG	GG
AVARS	a4	GG	TG	TC	AC	AG	GG	TC	GG	CC	AT	CG	TA	AA	CT	GT	GG	GC	AC	GG	AG	GG	GA	TG	GG
AVARS	a5	GG	TT	TT	AA	AA	GG	CC	GG	CC	TT	GC	AT	AA	CT	GT	GG	GC	AC	GG	AG	GG	GA	TG	GG
AVARS	a6	GG	TG	TC	AC	AG	GG	CC	GG	CC	TT	GG	AA	AA	CC	GG	GG	GC	AC	GG	AA	GG	GG	TT	GG
AVARS	a7	GG	TT	TT	AA	AA	GG	CT	GG	CG	TT	CG	TT	AA	CT	GT	GG	GG	CA	GG	AA	GG	GA	TG	GG
AVARS	a8	GG	TT	TT	AA	AA	*GG*	*CC*	*GG*	CC	TT	GG	TA	AA	CC	GG	GG	GC	AC	GG	AA	GG	GG	TT	*GG*
AVARS	a9	GG	TT	TT	AA	AA	GG	CC	GG	CC	TT	GG	AA	*AA*	*CC*	*GG*	*GG*	*GC*	*AC*	GG	AA	GG	GG	TT	GG
AVARS	a10	GG	TT	TT	AA	AA	GG	CC	GG	CC	TT	GG	AA	AA	CT	GT	GG	GC	AC	GG	AA	GG	GG	TT	GG
AVARS	a11	GG	TG	TC	AC	AG	*GG*	CC	*GG*	CC	TT	GG	AA	AA	CC	GG	GG	GG	AC	AG	GA	GG	AG	GT	GG
AVARS	a12	GG	TT	TT	AA	AA	GG	CT	GG	CG	TT	CG	TT	AA	TT	TT	GG	GC	AC	AA	GG	GG	AA	GG	GG
AVARS	b1	GG	TT	TT	AA	AA	GG	CT	GG	CG	TT	GG	AT	AA	CT	GT	GG	GC	AC	GG	AG	GG	GA	TG	GG
AVARS	b3	GG	TT	TT	AA	AA	GG	CC	GG	CC	TT	GG	AA	AA	CC	GG	GG	GC	AC	GG	AA	GG	GG	TT	GG
AVARS	b5	GG	GG	CC	CC	GG	GG	CC	GG	CC	TT	GG	AA	AA	CT	GT	GG	GC	AC	AG	GG	GG	AA	GG	GG
AVARS	b7	GG	TG	TC	AC	AG	GG	CC	GG	CC	TT	GG	TA	AA	CT	GT	GG	GC	AC	GG	AG	GG	GA	TG	GG
KUBACHIANS	b9	GG	TG	TC	AC	AG	GG	TT	*GG*	CC	TA	CG	TA	AA	TC	TG	GG	GG	AC	GG	AA	GG	GG	TT	GG
KUBACHIANS	b11	GG	TT	TT	AA	AA	*GG*	*CC*	*GG*	CG	TT	CG	TT	AA	CC	GG	GG	GC	CA	AA	GG	GG	AA	GG	GG
KUBACHIANS	c1	GG	TG	TC	AC	AG	GG	CC	GG	CC	TT	CG	TA	AA	TC	TG	GG	CG	AC	GG	GA	GG	AG	GT	GG
KUBACHIANS	c2	GG	TG	TC	AC	AG	GG	CC	GG	CC	AT	CG	TA	AA	TT	TT	GG	GC	CA	GG	GG	GG	AA	GG	GG
KUBACHIANS	c3	GG	TG	TC	AC	AG	GG	CC	GG	CC	TT	GG	AA	AA	TC	TG	GG	CG	AC	AA	GG	GG	AA	GG	GG
KUBACHIANS	c4	GG	TT	TT	AA	AA	GC	CC	GG	CC	TT	GC	AT	AA	TC	TG	GG	CG	AC	GG	GA	GG	AG	GT	GG
KUBACHIANS	c5	GG	TT	TT	AA	AA	GG	CC	GG	CC	TT	GG	AA	AA	CC	GG	GG	GC	CA	GA	AG	GG	GA	TG	GG
KUBACHIANS	c6	GG	TG	TC	AC	AG	GG	TC	GG	GC	TT	GG	TA	AA	CT	GT	GG	GC	CA	AG	GG	GG	AA	GG	GG
KUBACHIANS	c7	GG	TG	TC	AC	AG	GG	CT	GG	GC	TT	GG	TA	AA	TC	TG	GG	CG	AC	GA	GG	GG	AA	GG	GG
KUBACHIANS	c8	GG	TT	TT	AA	AA	GG	TC	GG	GC	TT	GC	TT	AA	TC	TG	GG	CG	AC	GG	AA	GG	GG	TT	GG
KUBACHIANS	c9	GG	TG	TC	AC	AG	GG	TT	GG	CC	TA	CG	TA	AA	TT	TT	GG	GC	CA	GA	GG	GG	AA	GG	GG
KUBACHIANS	c10	GG	TT	TT	AA	AA	GG	CC	GG	CC	TT	GG	AA	AA	TC	TG	GG	CG	AC	GG	AA	GG	GG	TT	GG
LAKS	c11	GG	TT	TT	AA	AA	GG	CC	GG	CG	TT	CG	TT	AA	TT	TT	GG	GC	CA	GG	GG	GG	AA	GG	GG
LAKS	c12	GG	TT	TC	AC	AG	*GG*	TC	*GG*	CC	AT	CC	TT	AA	CC	GG	GG	GC	CA	GA	AG	GG	GA	TG	GG
LAKS	d1	GG	TG	TC	AC	AG	*GG*	CC	*GG*	CC	TT	GG	AA	AA	CC	GG	GG	GC	CA	AG	GA	GG	AG	GT	GG
LAKS	d2	GG	TG	TC	AC	AG	GG	CC	GG	GC	TT	GC	TT	AA	CC	GG	GG	GC	CA	GG	AA	GG	GG	TT	GG
LAKS	d3	GG	TT	TT	AA	AA	GG	CC	GG	CC	TT	GG	AA	AA	CT	GT	GG	GC	CA	GG	AG	GG	*GA*	*TG*	GG
LAKS	d4	GG	TG	TC	AC	AG	GG	TC	GG	GC	TT	GG	TA	AA	CT	GT	GG	GC	CA	*GG*	*AG*	*GG*	*GA*	*TG*	GG
LAKS	d5	GG	TT	TT	AA	AA	GG	CC	GG	CC	TT	GG	AA	AA	CC	GG	GG	GC	CA	GG	AA	GG	GG	TT	GG
LAKS	d6	GG	TG	TC	AC	AG	GG	CC	GG	CC	TT	CG	TA	AA	CT	GT	GG	GC	CA	AA	GG	GG	AA	GG	GG
LAKS	d7	GG	TT	TT	AA	AA	GG	TC	GG	GC	TT	GG	TT	AA	CT	GT	GG	GG	AC	GG	AG	GG	GA	TG	GG
LAKS	d8	GG	TT	TT	AA	AA	GG	TT	*GG*	CG	TT	CG	TT	AA	CT	GT	GG	GC	CA	AA	GG	GG	AA	GG	GG
LAKS	d9	GG	TG	TC	AC	AG	GG	CT	GG	CC	TA	GC	AT	AA	CT	GT	GT	GC	CA	AA	GG	GG	AA	GG	GG
LAKS	d10	GG	TT	TT	AA	AA	*GG*	*TC*	*GG*	GC	TT	GG	TT	AA	CT	GT	GG	GC	CA	*GG*	*AA*	*GG*	*GG*	*TT*	GG
LAKS	d11	GG	TT	TT	AA	AA	*GG*	*TC*	*GG*	GC	TT	GG	TT	AA	CT	GT	GG	GC	CA	GG	AG	GG	GA	TG	GG
LAKS	d12	GG	TG	TC	AC	AG	*GG*	*CC*	*GG*	CC	TT	GG	AA	AA	CC	GG	GG	GC	CA	GG	AA	GG	GG	TT	GG
LAKS	e1	GG	TG	TC	AC	AG	GG	TT	GG	GC	TA	GC	TT	AA	CT	GT	GG	GC	CA	AG	GG	GG	AA	GG	GG
LAKS	e2	GG	TT	TT	AA	AA	GG	CC	GG	CC	TT	GG	TA	AA	CC	GG	GG	GC	CA	GG	AA	GG	GG	TT	GG
LAKS	e3	GG	TT	TT	AA	AA	GG	CC	GG	CC	TT	CG	TA	AA	CC	GG	GG	GC	CA	GG	AA	GG	GG	TT	GG
LAKS	e4	GG	TT	TT	AA	AA	GG	CC	GG	CC	TT	GG	AA	AA	CT	GT	GG	GC	CA	AG	GG	GG	AA	GG	GG
LAKS	e5	GG	TT	TT	AA	AA	GG	CC	GG	CC	TT	GG	AA	AA	TT	TT	GG	GC	CA	GG	GG	GG	AA	GG	GG
LAKS	e6	GG	TT	TT	AA	AA	GG	CC	GG	CC	TT	CG	TA	AA	CT	GT	GG	GC	CA	AG	GG	GG	AA	GG	GG
LAKS	e7	GG	TT	TC	AC	AG	GG	TC	GG	GC	TT	GC	TT	AA	CC	GG	GG	GG	CA	GG	AA	GG	GG	TT	GG
CEU	e8	GG	TG	TC	AC	AG	GG	CT	GG	CC	TA	CC	TT	AA	TC	TG	GG	GC	AC	GA	GG	GG	AA	GG	GG
CEU	e9	GG	TT	TT	AA	AA	GG	CT	GG	CG	TT	CG	TT	AA	TC	TG	GG	GC	AC	*GG*	*GA*	*GG*	*AG*	*GT*	GG
CEU	e10	GA	TG	TC	AC	AG	GG	CC	GG	GC	TA	GC	TT	AA	CC	GG	GG	GC	AC	GG	GG	GG	AA	GG	GG
CEU	e11	GG	TT	TT	AA	AA	GG	CC	GG	CC	TT	CG	TA	AA	CC	GG	GG	GC	AC	GG	AA	GG	GG	TT	GG
CEU	e12	GG	TG	TC	AC	AG	GG	CT	*GG*	CC	TA	CC	TT	AA	CC	GG	GG	GC	AC	GA	AG	GG	GA	TG	GG
CEU	f1	GG	TG	TC	AC	AG	GG	TT	GG	GC	TA	GC	TT	AA	TC	TG	GG	GC	AC	GA	GG	GG	AA	GG	GG
CEU	f2	GG	TG	TC	AC	AG	GG	CT	GG	CC	TT	GG	AA	AA	CC	GG	GG	GC	AC	GG	AA	GG	GG	TT	GG
CEU	f3	GG	GG	CC	CC	GG	GG	TT	GG	CC	AA	CC	TT	AA	TC	TG	GG	GC	AC	AG	GA	GG	AG	GT	GG
CEU	f4	GG	TG	TC	AC	AG	GG	CC	GG	CC	TT	CG	TA	AA	TC	TG	GG	GC	AC	GG	GA	GG	AG	GT	GG
CEU	f5	GG	TT	TT	AA	AA	GG	CC	GG	CC	TT	CG	TA	AA	TC	TG	GG	GC	AC	AA	GG	GG	AA	GG	GG
CEU	f6	GG	TT	TT	AA	AA	GG	CC	GG	CC	TT	GG	TA	AA	CC	GG	GG	GC	AC	GA	AG	GG	GA	TG	GG
CEU	f7	GG	TT	TT	AA	AA	GG	CC	GG	CC	TT	GG	AA	AA	CC	GG	GG	GG	AC	GA	AG	GG	GA	TG	GG
CEU	f8	GG	TT	TT	AA	AA	GG	CT	GG	CG	TT	GG	AT	AA	TC	TG	GG	GC	AC	GG	GA	GG	AG	GT	GG
CEU	f9	GG	TT	TC	AC	AG	*GG*	*CT*	*GG*	*CC*	*TA*	GC	*AT*	AA	TC	TG	*GG*	GG	AA	GG	GA	GG	AG	GT	*GG*
CEU	f10	GG	TG	TC	AC	AG	GG	TC	GG	GC	TT	GG	TA	AA	CC	GG	GG	GC	AC	GG	AA	GG	GG	TT	GG
CEU	f11	GG	GG	CC	CC	GG	GG	CT	GG	CC	TA	GC	AT	AA	CC	GG	GG	GC	AC	GA	AG	GG	GA	TG	GG
CEU	f12	GG	TG	TC	AC	AG	GG	CT	*GG*	CC	TA	CC	TT	AA	TC	TG	GG	GC	AC	GA	GG	GG	AA	GG	GG
CEU	g1	GG	TT	TT	AA	AA	GG	CT	GG	CG	TT	GG	AT	AA	CC	GG	GG	GC	AC	GG	AA	GG	GG	TT	GG
CEU	g2	GG	GG	CC	CC	GG	GG	TT	GG	CC	AA	CC	TT	AA	CC	GG	GG	GC	AC	GG	AA	GG	GG	TT	GG
CEU	g3	GG	TG	TC	AC	AG	GG	CT	GG	CC	TA	GC	AT	AA	TC	TG	GG	GC	AC	GG	GA	GG	AG	GT	GG
ADYGEI	g4	GG	TT	TT	AA	AA	GG	CC	GG	CC	TT	CG	TA	AA	CT	GT	GG	GC	AC	GG	AG	GG	GA	TG	GG
ADYGEI	g5	GG	TT	TT	AA	AA	GG	CC	GG	CC	TT	CG	TA	AA	CT	GT	GG	GC	AC	GA	AG	GG	GA	TG	GG
ADYGEI	g6	GG	TT	TT	AA	AA	GG	CC	GG	CC	TT	CG	TA	AA	CC	GG	GG	GC	AC	GG	AA	GA	GG	TT	GG
ADYGEI	g7	GG	GG	CC	CC	GG	GG	CT	CG	CC	TA	GC	AT	AA	TT	TT	GG	GC	AC	*GG*	*GG*	*GG*	*AA*	*GG*	GG
ADYGEI	g8	GG	TT	TT	AA	AA	GG	CC	GG	CC	TT	GG	AA	AA	CT	GT	GG	GC	AC	GG	AG	GG	GA	TG	GG
ADYGEI	g9	GG	TT	TT	AA	AA	GG	CT	GG	CG	TT	GG	AT	CA	CT	GT	GG	GC	AC	GA	AG	GG	GA	TG	GG
ADYGEI	g10	GG	TT	TT	AA	AA	GG	CC	GG	CC	TT	GG	AA	AA	CT	GT	GG	GC	AC	AA	GG	GG	AA	GG	GG
ADYGEI	g11	GG	TT	TC	AC	AG	GG	TC	*GG*	GC	TT	GG	TA	AA	CT	GT	GG	GC	AC	AG	GG	GG	AA	GG	GG
ADYGEI	g12	GG	TG	TC	AC	AG	GG	CT	GG	CC	TA	GC	AT	AA	CT	GT	GG	GC	AC	GA	AG	GG	GA	TG	GG
ADYGEI	h1	GG	TT	TT	AA	AA	GG	CC	GG	CC	TT	CC	TT	AA	CT	GT	GG	GC	AC	AA	GG	GG	AA	GG	GG
ADYGEI	h2	GG	TT	TT	AA	AA	GG	CC	GC	CC	TT	GG	AA	AA	CC	GG	GG	GC	AC	AA	GG	GG	AA	GG	GG
ADYGEI	h3	GG	GG	CC	CC	GG	GG	CT	GG	CC	TA	GC	AT	AA	CT	GT	GG	GC	AC	AG	GG	GG	AA	GG	GG
ADYGEI	h4	GG	TT	TT	AA	AA	GG	CC	GG	CC	TT	CG	TA	AA	CC	GG	GG	GC	AC	GG	AA	GA	GG	TT	GG
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ADYGEI	h6	GG	GG	CC	CC	GG	*GG*	*CT*	*GG*	CC	TA	GC	AT	AA	CT	GT	GG	GC	AC	GG	AG	GG	GA	TG	GG
ADYGEI	h7	GG	TT	TT	AA	AA	GG	CT	GG	CG	TT	GG	AT	AA	CC	GG	GG	GC	AC	GG	AA	GG	GG	TT	GG
ADYGEI	h8	GG	TG	CC	CC	GG	GG	CC	GG	CC	TT	GG	AA	AA	CC	GG	GG	GC	AC	GA	AG	GG	GA	TG	GA
ADYGEI	h9	GG	GG	CC	CC	GG	GG	TT	GG	CC	AA	CC	TT	AA	CC	GG	GG	GC	AC	GG	AA	GG	GG	TT	GG
ADYGEI	h10	GG	TT	TC	AC	AG	GG	CC	GG	CC	TT	CG	TA	AA	CT	GT	GG	GC	AC	GA	AG	GG	GA	TG	GG
ADYGEI	h11	GG	TT	TT	AA	AA	GG	CT	GG	CG	TT	GG	AT	AA	CT	GT	GG	GC	AC	GG	AG	GG	GA	TG	GG

10	10	10	10	10	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	13	13	13
128475206	128475913	128476174	128476261	128476280	46057903	46058233	46058366	46058410	46058523	46058792	46059484	46066559	46066862	46067151	46067429	46067804	46067880	46067973	46068476	46072842	46073356	46073432	46073662	46074193	46074737	46074959	107494795	107494893	107494921
rs11245165	rs7909809	**New**	rs34275141	**New**	rs4768153	**New**	rs11183916	rs11183917	rs11183918	**New**	rs11183919	rs2141519	rs2698784	rs1919718	rs1919719	**New**	**New**	**New**	rs2074194	rs11183932	rs9634311	**New**	**New**	rs2015389	rs1987494	rs10785677	rs9559221	rs17674993	**New**
10qMb128c	10qMb128c	10qMb128c	10qMb128c	10qMb128c	12qMB46a	12qMB46a	12qMB46a	12qMB46a	12qMB46a	12qMB46a	12qMB46a	12qMB46b	12qMB46b	12qMB46b	12qMB46b	12qMB46b	12qMB46b	12qMB46b	12qMB46b	12qMB46c	12qMB46c	12qMB46c	12qMB46c	12qMB46c	12qMB46c	12qMB46c	13qMB107a	13qMB107a	13qMB107a
T	C	G	A	A	A	T	G	G	C	T	T	T	G	A	T	C	G	G	A	T	A	T	G	T	T	C	T	G	G
C	T	A	G	C	G	G	T	A	T	A	A	C	C	G	C	T	A	A	G	A	G	C	T	C	A	T	C	A	A
TT	CC	GG	AA	AA	AA	TT	GG	GG	CC	TT	TT	TT	GG	AA	TT	CC	GG	GG	AA	TA	AG	TT	GG	TC	AA	CT	TC	GG	GG
TT	TC	GG	GA	AA	AA	TT	GG	GG	CC	TT	TT	TT	GG	AA	TT	CC	GG	GG	AA	TA	AG	TT	GG	TC	AA	CT	TC	GG	GG
TT	TC	GG	GA	AA	AA	TT	GG	GG	CC	TT	TT	TT	*GG*	AA	TT	CT	GG	GG	*AA*	AT	GG	TT	GG	CC	AA	TT	CC	GA	GG
CT	CC	GG	AA	AA	AA	TT	GG	GG	CC	TT	TA	TT	GC	AA	TT	CC	GG	GG	AG	TT	AA	TT	GG	TT	AA	CC	TT	GG	GG
CT	CC	GG	AA	AA	AA	TT	GG	GG	CC	TT	TT	TT	GG	AA	TT	CC	GG	GG	AA	TA	AG	TT	GG	CC	AA	CT	CC	GG	GG
CC	CC	GG	AA	AA	AA	TT	GG	GG	CC	TT	TA	TT	GG	AA	TT	CC	GG	GG	AA	TT	AA	TT	GG	TT	AA	CC	TC	GA	GG
CT	CC	GG	AA	AA	AA	TT	GG	GG	CC	TT	TA	TT	GG	AA	TT	CC	GG	GG	AG	AT	GA	TT	GG	CT	AA	TC	CC	GA	GG
CC	*CC*	*GG*	*AA*	*AA*	AA	TT	GG	GG	CC	TT	TA	*TT*	*GG*	*AA*	*TT*	*CC*	*GG*	*GG*	*AA*	TT	AA	TT	GG	TT	*AA*	CC	TT	GG	GG
CC	CC	GG	AA	AA	AA	TT	GG	GG	CC	TT	TA	TT	GC	AA	TT	CC	GG	GG	AG	TA	AG	TT	GG	CC	*AA*	CT	CC	GG	GG
TC	CC	GG	AA	AA	AA	TT	GG	GG	CC	TT	AA	*TT*	*GG*	*AA*	*TT*	*CC*	*GG*	*GG*	*GA*	TT	AA	TT	GG	TT	AA	CC	TC	GG	GG
TC	TC	GG	GA	AA	AA	TT	GG	GG	CC	TT	TT	TT	GG	AA	TT	CC	GG	GG	AA	TA	AG	TT	GG	TC	*AA*	CT	TC	GG	GG
TT	TT	GG	GG	AA	AA	TT	GG	GG	CT	TT	TT	TT	GG	AA	TT	CC	GG	GG	AA	AA	GG	TT	GG	CC	*AA*	TT	TC	GA	GG
CT	CC	GG	AA	AA	*AA*	*TT*	*GG*	*GG*	*CC*	*TT*	*TT*	TT	GG	AA	TT	CC	GG	GG	AA	TA	AG	TT	GG	CC	AA	CT	TC	GG	GG
CC	CC	GG	AA	AA	AA	TT	GG	GG	CC	TT	AA	TT	*GG*	AA	TT	CC	GG	GG	*AG*	TA	AG	TT	GG	TC	AA	CT	TT	GG	GG
TT	TC	GG	GA	AA	AA	TT	GG	GG	CC	TT	TT	TT	*GG*	AA	TT	CC	GG	GG	*AA*	TA	AG	TT	GG	TC	AA	CT	TT	GG	GG
CT	CC	GG	AA	AA	AA	TT	GG	GG	CC	TT	TT	TT	GG	AA	TT	CC	GG	GG	AA	TA	AG	TT	GG	TC	*AA*	CT	CC	GG	GG
TC	CC	GG	AA	AA	AG	TT	GT	GA	CC	TT	TT	TT	GC	*AA*	*TT*	CC	GA	GG	*AA*	AT	GA	TT	GG	CC	*AA*	*TC*	CC	AG	GG
TC	TC	GG	GA	AA	AA	TT	GG	GG	CC	TT	TA	TT	GC	*AA*	*TT*	CC	GG	GG	*AG*	TT	AA	TT	GG	TT	*AA*	CC	CT	GG	GG
TC	CC	GG	AA	AA	*AA*	*TT*	*GG*	*GG*	*CC*	*TT*	*TT*	TT	GG	AA	TT	CC	GG	GG	AA	TA	AG	TT	GG	TC	TA	CT	CT	GG	GG
TT	CC	GG	AA	AA	AA	TT	GG	GG	CC	TT	TT	*TT*	*GG*	*AA*	TC	*CC*	GG	GG	*AA*	TT	AA	TC	GG	CC	AA	CC	CT	GG	GG
TT	TT	GG	GG	AA	AA	TT	GG	GG	TC	TT	TT	TT	*GG*	AA	TT	CC	GG	GG	*AA*	AT	GA	TT	GG	CT	AA	TC	TT	GG	GG
TC	CC	GG	AA	AA	AA	TT	GG	GG	CC	TT	TT	*TT*	*GG*	AA	TT	CC	GG	GG	*AA*	TA	GG	TT	GG	CC	AA	TT	TT	GG	GG
CT	CT	GG	AG	AA	AA	TT	GG	GG	CC	TT	TT	TT	GG	AA	TT	CC	GG	GG	AA	TA	AG	TT	GG	TC	AA	CT	CT	AG	GG
TT	TC	GG	GA	AA	AA	TT	GG	GG	CC	TT	TT	TT	*GG*	AA	TT	CC	GG	GG	*AA*	TT	AA	TT	GG	TC	AA	CC	TT	GG	GG
TT	CT	GG	AG	AA	AA	TT	GG	GG	CC	TT	TT	TT	GG	AA	TT	CC	GG	GA	AA	TT	AA	TT	GG	TT	AA	CC	TT	GG	GG
TC	CC	GG	AA	AA	AA	TT	GG	GG	CC	TT	TT	TT	GG	AA	TT	CC	GG	GG	AA	TA	AG	TT	GG	TC	TA	CT	TT	GG	GG
TT	CT	GG	AG	AA	AA	TT	GG	GG	CC	TT	TA	TT	GC	AA	TT	CC	GG	GG	AG	TT	GA	TT	GG	CT	*AA*	TC	TT	GG	GG
CT	CT	GG	AG	AA	AA	TT	GG	GG	CC	TT	TT	TT	GG	AA	TT	CC	GG	GG	AA	TT	AA	TC	GT	CC	AA	CC	TT	GG	GG
TT	CC	GG	AA	AA	AA	TT	GG	GG	CC	TT	TT	TT	GG	AA	TT	CC	GG	GG	AA	TT	AA	TT	GG	CT	AA	CC	TT	GG	GG
CT	CT	AG	AG	AA	AA	TT	GG	GG	CC	TT	AT	TT	CG	*AA*	*TT*	CC	GG	GG	GA	TT	AA	TT	GG	TT	*AA*	CC	TT	GG	GG
TC	TC	GG	GA	AA	*AA*	*TT*	*GG*	*GG*	*CC*	*TT*	*TT*	TT	GG	AA	TT	CC	GG	GG	AA	TA	AG	TT	GG	TC	*AA*	CT	TC	GG	GG
TC	TC	GG	GA	AA	AA	TT	GG	GG	CC	TT	TT	*TT*	*GG*	AA	TT	CC	GG	GG	*AA*	TT	AA	TT	GG	TT	AT	CC	TT	GG	GG
CT	CC	GG	AA	AA	AG	TT	GT	GA	CC	TT	TT	TT	GC	AG	TT	CC	GG	GG	AG	TT	AG	CT	GG	CC	AA	CT	TT	GG	GG
CT	CC	GG	AA	AA	AA	TT	GG	GG	CT	TT	TT	CT	CG	GA	CT	CC	GG	GG	GA	TA	AG	TT	GG	TC	TA	CT	TT	GG	GG
CC	CC	GG	AA	AA	AA	TT	GG	GG	CC	TT	AT	TT	CG	AA	TT	CC	GG	GG	AA	TT	AA	TT	GG	TT	AA	CC	TT	GG	GA
TT	TT	GG	GG	AA	AA	TT	GG	GG	CT	TT	TT	TT	GG	AA	TT	CC	GG	GG	AA	TA	AG	TT	GG	TC	TA	CT	TT	GG	GG
CT	CC	AG	AA	AA	AA	TT	GG	GG	CC	TT	TT	TT	GG	AA	TT	CC	GG	GG	AA	TT	AA	TT	GG	TT	*AT*	CC	TT	GG	GG
TT	TC	GG	GA	AA	AA	TT	GG	GG	CC	TT	TT	TT	GG	AA	TT	CC	GG	GG	*AA*	TA	AG	TT	GG	TC	*AA*	CT	TT	GG	GG
TT	TT	GG	GG	AA	AA	TT	GG	GG	CC	TT	TT	TT	GG	AA	TT	CC	GG	GG	AA	TT	AA	TC	GG	TC	AA	CC	TC	GG	GG
CC	CC	GG	AA	AA	AA	TT	GG	GG	CC	TT	TT	*TT*	*GG*	*AA*	*TT*	*CC*	*GG*	*GG*	*AA*	TT	AA	TT	GG	TC	TA	CC	TC	GG	GG
CT	CC	GG	AA	AA	AA	TT	GG	GG	CT	TT	TT	TT	GG	AA	*TT*	CC	GG	GG	AA	AA	GG	TT	GG	CC	*AA*	TT	TC	GA	GG
CC	CC	GG	AA	AA	AA	TT	GG	GG	CC	TT	AT	TT	CG	AA	TT	CC	GG	GG	GA	TA	AG	TT	GG	TC	*AA*	CT	TT	GG	GG
TT	TC	GG	GA	AA	AA	TT	GG	GG	CC	TT	TT	*TT*	*GG*	*AA*	*TT*	*CC*	*GG*	GG	*AA*	TT	AA	TT	GG	TT	AT	CC	TT	GG	GG
CC	CC	GG	AA	AA	AA	TT	GG	GG	CT	TT	TT	TT	GG	AA	TT	CC	GG	GG	AA	AA	GG	TT	GG	CC	AA	TT	TC	GA	GG
CC	CC	GG	AA	AA	AA	TT	GG	GG	CC	TT	AT	TT	*CG*	AA	TT	CC	GG	GG	GA	TT	AA	TT	GG	TT	AT	CC	TC	GA	GG
TT	TC	GG	GA	AA	AA	TT	GG	GG	CC	TT	TT	TT	GG	AA	TT	CC	GG	GG	AA	TT	AA	TC	GG	TC	TA	CC	TT	GG	GG
TT	CC	GG	AA	AA	AA	TT	GG	GG	CC	TT	TT	TT	GG	AA	TT	CC	GG	GG	AA	TT	AA	TC	GG	TC	AA	CC	TT	GG	GG
TT	TC	GG	GA	AA	AA	TT	GG	GG	CC	TT	TT	TT	GG	AA	TT	CC	GG	GG	AA	TT	AA	TT	GG	TT	AT	CC	TC	GG	GG
CC	CC	GG	AA	AA	AA	TT	GG	GG	CT	TT	TT	TT	GG	AA	TT	CC	GG	GG	AA	TA	AG	TT	GG	TC	TA	CT	TC	GG	GG
TT	CT	GG	AG	AA	AA	TT	GG	GG	CC	TT	AT	TC	CC	AG	TC	CC	GG	GG	GG	TT	AA	TT	GG	TT	*AA*	CC	TT	GG	GG
TC	CC	GG	AA	AA	AA	TT	GG	GG	CT	TT	AT	TT	CG	AA	TT	CC	GG	GG	GA	AA	GG	TT	GG	CC	*AA*	TT	TT	GG	GG
CT	CT	GG	AG	CA	AG	TT	GT	GA	TC	TT	TT	TT	GG	AA	TT	CC	GG	GG	AA	AA	GG	TT	GG	CC	AA	TT	TT	GG	GG
CC	CC	GG	AA	AA	AA	TT	GG	GG	CC	TT	TT	TT	GG	AA	TT	CC	GG	GG	AA	AA	GG	TT	GG	CC	*AA*	TT	TT	GG	GG
CT	CT	GG	AG	AA	AA	TT	GG	GG	CC	TT	TT	TT	GG	AA	TT	CC	GG	GG	AA	TA	AG	TT	GG	TC	*AA*	CT	TC	GA	GG
TT	CT	GG	AG	AA	AA	TT	GG	GG	CC	TA	AT	TT	CG	AA	TT	CC	GG	GG	GA	AT	GA	TT	GG	CT	AA	TC	TT	GG	GG
CC	CC	GG	AA	AA	AA	TT	GG	GG	CC	TT	TT	TT	GG	AA	TT	CC	GG	GG	AA	TT	AG	TT	GG	TC	AA	CT	TT	GG	GG
TC	TC	GA	GA	AA	AA	TT	GG	GG	CC	TT	TT	TT	GG	AA	TT	CC	GG	GG	AA	TT	AA	TT	GG	TT	AT	CC	TC	GA	GG
TC	CC	GG	AA	AA	AA	TT	GG	GG	CC	TT	TT	TT	GG	AA	TT	CC	GG	GG	AA	TA	AG	TT	GG	TC	AA	CT	TT	GG	GG
TT	TT	GG	GG	AA	AA	TT	GG	GG	CC	TT	AT	TT	CG	AA	TT	CC	GG	GG	GA	AT	GA	TT	GG	CT	AA	TC	TC	GG	GG
CT	CT	GG	AG	AA	AA	TT	GG	GG	CC	TT	TT	TT	GG	AA	TT	CC	GG	GG	AA	TT	AA	TT	GG	TT	AA	CC	TC	GA	GG
CT	CT	GG	AG	AA	AA	TT	GG	GG	CC	TT	AT	TT	GG	AA	TT	CC	GG	GG	AA	AT	GG	TT	GG	CC	*AA*	TT	TC	GA	GG
TC	CC	GG	AA	AA	AA	TT	GG	GG	CC	TT	AT	TT	CG	AA	TT	CC	GG	GG	GA	AA	GG	TT	GG	CC	*AA*	TT	TT	GG	GG
TC	*CC*	*GG*	AA	*AA*	AA	TT	GG	GG	*CC*	TT	TT	TT	GG	*AA*	TT	CC	GG	GG	*AA*	TT	AA	TT	*GG*	*TT*	*AA*	*CC*	TC	GG	GG
CC	CC	GG	AA	AA	AA	TT	GG	GG	TC	TT	AT	TT	CG	AA	TT	CC	GG	GG	GA	AT	GA	TT	GG	CT	AA	TC	CC	GG	GG
CT	CT	GG	AG	AA	AA	TT	GG	GG	CC	TT	TT	TT	GG	AA	TT	CC	GG	GG	AA	TA	GG	TT	GG	CC	*AA*	TT	TT	GG	GG
TT	CT	GG	AG	AA	AA	TT	GG	GG	CT	TT	TT	TT	GG	AA	TT	CC	GG	GG	AA	TA	AG	TT	GG	TC	*AA*	CT	TC	GA	GG
CC	CC	GG	AA	AA	AA	TT	GG	GG	CT	TT	AT	TT	GG	AA	TT	CC	GG	GG	AA	AA	GG	TT	GG	CC	AA	TT	TC	GA	GG
CC	CC	GG	AA	AA	AG	TT	GT	GA	CC	TT	TT	TT	CG	GA	TT	CC	GG	GG	GA	TA	GG	TT	GG	CC	AA	TT	TC	GG	GG
TC	CC	GG	AA	AA	AA	TT	GG	GG	CC	TT	TT	TT	GG	AA	TT	CC	GG	GG	AA	TA	AG	TT	GG	TC	AA	CT	TC	GA	GG
CT	CC	GG	AA	AA	AA	TT	GG	GG	CC	TT	TA	TT	GG	AA	TT	CC	GG	GG	AA	TA	AG	TT	GG	TC	AA	CT	TT	GG	GG
CT	CT	GG	AG	AA	AA	TT	GG	GG	CC	TT	TT	TT	GG	AA	TT	CC	GG	GG	AA	TT	AA	TT	GG	CT	TA	CC	TC	GG	GG
CC	CC	GG	AA	AA	AA	TT	GG	GG	CC	TT	TA	TT	GC	AA	TT	CC	GG	GG	AG	TT	AA	TT	GG	TT	AA	CC	TT	GG	GG
TT	CC	GG	AA	AA	AA	TT	GG	GG	CC	TT	AA	TT	CC	AA	TT	CC	GG	GG	GG	TT	AA	TT	GG	TT	AA	CC	TC	GA	GG
CT	CC	GG	AA	AA	AG	TT	GT	GA	CC	TT	TT	TT	GC	AG	TT	CC	GG	GG	AG	TT	AG	TT	GG	TC	*AA*	CT	TC	GG	GG
CT	CT	GG	AG	AA	AA	TT	GG	GG	CT	TT	TT	TT	GG	AA	TT	CC	GG	GG	AA	AA	GG	TT	GG	CC	*AA*	TT	CC	GG	GG
TT	TT	GG	GG	AA	AA	TT	GG	GG	TT	TT	TT	TT	GG	AA	TT	CC	GG	GG	AA	AT	GG	TT	GG	CC	AA	TT	TT	GG	GG
TT	TC	GG	GA	AA	AG	TT	GT	GA	CC	TT	TT	TT	GC	AG	TT	CC	GG	GG	AG	TT	AA	TT	GG	TT	*AA*	CC	TT	GG	GG
CT	CT	GG	AG	AA	AA	TT	GG	GG	CC	TT	TT	TC	GC	AG	TC	CC	GG	GG	AG	TT	AA	TT	GG	TT	*AA*	CC	TT	GG	GG
TT	TT	GG	GG	AA	AA	TT	GG	GG	TT	TT	TT	TT	GG	AA	TT	CC	GG	GG	AA	AA	GG	TT	GG	CC	AA	TT	TC	GG	GG
TT	TT	GG	GG	AA	*AA*	*TT*	*GG*	*GG*	*CC*	*TT*	*TT*	TC	GC	AG	TC	CC	GG	GG	AG	TT	AA	TT	GG	TT	AA	CC	TT	GG	GG
TT	TC	GG	GA	AA	AA	TT	GG	GG	CT	TT	TT	TT	CG	AA	TT	CC	GG	AG	GA	TA	AG	TT	GG	TC	AA	CT	TC	GG	GG
CC	CC	GG	AA	AA	AG	TT	GT	GA	CC	TT	TT	TT	GC	AG	TT	CC	GG	GG	AG	TT	GG	TT	GG	CC	AA	TT	CC	GG	GG
CC	CC	GA	AA	AA	AG	TT	GT	GA	TC	TT	TT	TT	GG	AA	TT	CC	GG	GG	AA	AT	GA	TT	GG	CT	AA	TC	TT	GG	GG
CT	CC	GG	AA	AA	AA	TT	GG	GG	CC	TT	TA	TT	GC	AA	TT	CC	GG	GG	AG	AA	GG	TT	GG	CC	AA	TT	TC	GA	GG
CC	CC	GG	AA	AA	AA	TT	GG	GG	CC	TT	TA	TT	GC	AA	TT	CC	GG	GG	AG	TT	AA	TT	GG	CT	*TA*	CC	TC	GG	GG
CT	CT	GG	AG	AA	AG	TT	GT	GA	CC	TT	TT	TT	GC	AG	TT	CC	GG	GG	AG	AT	GA	TT	GG	CT	*AA*	TC	TC	GG	GG
CC	CC	GG	AA	AA	AA	TT	GG	GG	CT	TT	AT	TT	CG	AA	TT	CC	GG	GG	GA	TA	AG	TT	GG	TC	AA	CT	TC	GG	GG
CT	CT	GG	AG	AA	AA	TG	GG	GG	CC	TT	AT	TT	CG	AA	TT	CC	GG	GG	GA	TT	AA	TT	GG	TT	AA	CC	TT	GG	GG
CT	CC	GG	AA	AA	AA	TT	GG	GG	CC	TT	TT	TC	CC	AG	TC	CC	GG	AG	GG	TT	AA	TT	GG	TT	*AA*	CC	TC	GG	GG

13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
107495095	107495302	107495692	107495727	107495750	107496125	107501707	107502032	107502127	107502223	107502331	107502670	107506857	107506860	107506960	107507341	107507542	107507633	107507900	107507945	107507988	107508020	107508029	108977908	108977935	108978477	108978547	108978551	108978756	108979051
rs1325394	rs1325395	rs11840190	rs11841654	**New**	**New**	rs2391613	**New**	rs17731911	**New**	**New**	rs34966793	**New**	rs12876800	rs1555785	rs1004549	**New**	rs2009936	rs1408904	**New**	rs1359483	**New**	**New**	rs16974328	rs9521418	**New**	**New**	**New**	rs7996888	**New**
13qMB107a	13qMB107a	13qMB107a	13qMB107a	13qMB107a	13qMB107a	13qMB107b	13qMB107b	13qMB107b	13qMB107b	13qMB107b	13qMB107b	13qMb107c	13qMb107c	13qMb107c	13qMb107c	13qMb107c	13qMb107c	13qMb107c	13qMb107c	13qMb107c	13qMb107c	13qMb107c	13qMB108a	13qMB108a	13qMB108a	13qMB108a	13qMB108a	13qMB108a	13qMB108a
C	A	G	T	T	C	C	G	G	G	A	C	C	G	G	A	A	C	T	A	T	T	C	A	C	T	G	T	T	G
A	G	C	C	A	T	T	A	A	C	G	T	G	A	A	C	G	G	A	C	G	G	A	T	T	C	A	C	C	A
CA	**AG**	**GG**	**TT**	**TT**	**CC**	**CT**	**GG**	**GG**	**GG**	**AA**	**CT**	**CC**	**GG**	**AA**	**CC**	**AA**	**CC**	**TT**	**AC**	**TT**	**TT**	**CC**	**AA**	**CC**	**TT**	**GG**	**TT**	**TT**	**GG**
CA	**AG**	**GG**	**TT**	**TT**	**CC**	**CT**	**GG**	**GG**	**GG**	**AA**	**CT**	**CC**	**AG**	**AA**	**CC**	**AA**	**CC**	**AA**	**AC**	**GG**	**TT**	**CC**	**AA**	**TT**	**TT**	**GG**	**TT**	**CC**	**GG**
AA	**GG**	**GC**	**TC**	**TT**	**CC**	**TT**	**GG**	**GA**	**GG**	**AA**	**TT**	**CC**	**GG**	**AA**	**CC**	**AA**	**CC**	**AA**	**CA**	**GG**	**TT**	**CC**	**AA**	**CC**	**TT**	**GG**	**TT**	**TT**	**GG**
CC	**AA**	**GG**	**TT**	**TT**	**CC**	**CC**	**GG**	**GG**	**GG**	**AA**	**CC**	**CC**	**GG**	**AA**	**CC**	**AA**	**CC**	**TT**	**AC**	**TT**	**TT**	**CC**	**AA**	**CT**	**TT**	**GG**	**TT**	**TC**	**GG**
AA	**GG**	**GG**	**TT**	**TT**	**CC**	**TT**	**GG**	**GG**	**GG**	**AA**	**TT**	**CC**	**GG**	**AA**	**CC**	**AA**	**CC**	**TA**	**AC**	**GG**	**TT**	**CC**	**AA**	**CT**	**TT**	**GG**	**TT**	**TC**	**GG**
CA	**AG**	**GC**	**TC**	**TT**	**CC**	**CT**	**GG**	**GA**	**GG**	**AA**	**CT**	**CC**	**GG**	**AA**	**CC**	**AA**	**CC**	**TA**	**CA**	**TG**	**TT**	**CC**	**AA**	**CC**	**TT**	**GG**	**TT**	**TT**	**GG**
AA	**GG**	**GC**	**TC**	**TT**	**CC**	**TT**	**GG**	**GA**	**GG**	**AA**	**TT**	**CC**	**GG**	**AA**	**CC**	**AA**	**CC**	**AA**	**CA**	**GG**	**TT**	**CC**	**AA**	**CC**	**TT**	**GG**	**TT**	**TT**	**GG**
CC	**AA**	**GG**	**TT**	**TT**	**CC**	**CC**	**GG**	**GG**	**GG**	**AA**	**CC**	**CC**	**GG**	**AA**	**CC**	**AA**	**CC**	**TT**	**AC**	**TT**	**TT**	**CC**	**AA**	**CC**	**TT**	**GG**	**TT**	**TT**	**GG**
AA	**GG**	**GG**	**TT**	**TT**	**CC**	**TT**	**GG**	**GG**	**GG**	**AA**	**TT**	**CC**	**GG**	**AA**	**CA**	**AA**	**CG**	**TT**	**CA**	**TG**	**TT**	**CC**	**AA**	**CC**	**TT**	**GG**	**TT**	**TT**	**GG**
CA	**AG**	**GG**	**TT**	**TT**	**CC**	**CT**	**GG**	**GG**	**GG**	**AA**	**CT**	**CC**	**GG**	**AG**	**CC**	**AA**	**CC**	**TT**	**AC**	**TT**	**TT**	**CC**	**AA**	**CC**	**TT**	**GG**	**TT**	**TT**	**GG**
CA	**AG**	**GG**	**TT**	**TT**	**CC**	**CT**	**GG**	**GG**	**GG**	**AA**	**CT**	**CC**	**GG**	**AA**	**CC**	**AA**	**CC**	**TA**	**AC**	**TG**	**TT**	**CC**	**AA**	**CC**	**TT**	**GG**	**TT**	**TT**	**GG**
CA	**AG**	**GC**	**TC**	**TT**	**CC**	**CT**	**GG**	**GA**	**GG**	**AA**	**CT**	**CC**	**GG**	**AA**	**CC**	**AA**	**CC**	**TT**	**CA**	**TT**	**TT**	**CC**	**AA**	**CT**	**TT**	**GG**	**TT**	**TC**	**GG**
CA	**AG**	**GG**	**TT**	**TT**	**CC**	*CT*	*GG*	*GG*	*GG*	*AA*	*CT*	**CC**	**GG**	**AA**	**CC**	**AA**	**CC**	**AA**	**AC**	**GG**	**TT**	**CC**	**AA**	**CC**	**TT**	**GG**	**TT**	**TT**	**GG**
CC	**AA**	**GG**	**TT**	**TT**	**CC**	**CC**	**GG**	**GG**	**GG**	**AA**	**CC**	**CC**	**GG**	**AG**	**CA**	**AA**	**CC**	**AT**	**AC**	**GT**	**TT**	**CC**	**AA**	**CT**	**TT**	**GG**	**TT**	**TC**	**GG**
CC	**AA**	**GG**	**TT**	**TT**	**CC**	**CC**	**GG**	**GG**	**GG**	**AA**	**CC**	**CC**	**GG**	**AA**	**CC**	**AA**	**CC**	**AA**	**AC**	**GG**	**TT**	**CC**	**AA**	**CC**	**TT**	**GG**	**TT**	**TT**	**GG**
AA	**GG**	**GG**	**TT**	**TT**	**CC**	**TT**	**GG**	**GG**	**GG**	**AA**	**TT**	**CG**	**GG**	**AG**	**CC**	**AA**	**CC**	**TT**	**AC**	**TT**	**TT**	**CC**	**AA**	**CT**	**TT**	**GG**	**TT**	**TC**	**GG**
AC	**GA**	**CG**	**CT**	**TT**	**CC**	**TC**	**GG**	**AG**	**GG**	**AA**	**TC**	**CC**	**GG**	**AA**	**CC**	**AA**	**CC**	**TT**	**CA**	**TT**	**TT**	**CC**	*AA*	*CC*	**TT**	**GG**	**TT**	**TT**	**GG**
AC	**GA**	**GG**	**TT**	**TT**	**CC**	**TC**	**GG**	**GG**	**GG**	**AA**	**TC**	**CC**	**GG**	**AG**	**CA**	**AA**	**CC**	**AT**	**CA**	**GT**	**TT**	**CC**	**AT**	**TC**	**TT**	**GG**	**TT**	**CC**	**GG**
AC	**GA**	**GG**	**TT**	**TT**	**CC**	**TC**	**GG**	**GG**	**GG**	**AA**	**TC**	**CC**	**GG**	**AA**	**CA**	**AA**	**GC**	**TT**	**CA**	**GT**	**TT**	**CC**	**AA**	**CC**	**TT**	**GG**	**TT**	**TT**	**GG**
AC	**GA**	**GG**	**TT**	**TT**	**CC**	**TC**	**GG**	**GG**	**GG**	**AA**	**TC**	**CC**	**GG**	**AA**	**CC**	**AA**	**CC**	**TT**	**CA**	**GT**	**TT**	**CC**	**AA**	**CC**	**TT**	**GG**	**TT**	**TT**	**GG**
CC	**AA**	**GG**	**TT**	**TT**	**CC**	**TC**	**GG**	**GG**	**GG**	**AA**	**TC**	**CC**	**GG**	**GA**	**AC**	**AA**	**CC**	**TA**	**AC**	**TG**	**TT**	**CC**	**AA**	**CC**	**TT**	**GG**	**TT**	**TT**	**GG**
AA	**AA**	**GG**	**TT**	**TT**	**CC**	**CC**	**GG**	**AG**	**GC**	**AA**	**TC**	**CC**	**GG**	**AA**	**CC**	**AA**	**CC**	**TA**	**AC**	**TG**	**TT**	**CC**	*AA*	**CC**	**TT**	**GG**	**TT**	**TT**	**GG**
AC	**GA**	**CG**	**CT**	**TT**	**CC**	**TC**	**GG**	**AG**	**GG**	**AA**	**TC**	**CC**	**GG**	**AA**	**CC**	**AA**	**CC**	**TA**	**AC**	**TG**	**TT**	**CC**	**AA**	**CC**	**TT**	**GG**	**TT**	**TT**	**GG**
CC	**AA**	**GG**	**TT**	**TT**	**CC**	**CC**	**GG**	**GG**	**GG**	**AA**	**CC**	**CC**	**GG**	**AA**	**CA**	**AA**	**CC**	**TA**	**AC**	**TG**	**TT**	**CC**	**AA**	**CC**	**TT**	**GG**	**TT**	**TT**	**GG**
CC	**AA**	**GG**	**TT**	**TT**	**CC**	**CC**	**GG**	**GG**	**GG**	**AA**	**CC**	**CC**	**GG**	**AA**	**CC**	**AA**	**CC**	**AA**	**AC**	**GG**	**TT**	**CC**	**AA**	**CT**	**TT**	**GG**	**TT**	**TC**	**GG**
CC	**AA**	**GG**	**TT**	**TT**	**CC**	**CC**	**GG**	**GG**	**GG**	**AA**	**CC**	**CC**	**GG**	**AG**	**CA**	**AA**	**CC**	**AT**	**CA**	**GT**	**TT**	**CC**	**AA**	**CC**	**TT**	**GG**	**TT**	**TT**	**GG**
CC	**AA**	**GG**	**TT**	**TT**	**CC**	**CC**	**GG**	**GG**	**GG**	**AA**	**CC**	**CC**	**GG**	**AA**	**CC**	**AA**	**CC**	**TA**	**AC**	**TG**	**TT**	**CC**	**AA**	**CC**	**TT**	**GG**	**TT**	**TT**	**GG**
CC	**AA**	**GG**	**TT**	**TT**	**CC**	**CC**	**GG**	**GG**	**GG**	**AA**	**CC**	**CC**	**GG**	**AG**	**CC**	**AA**	**CC**	**AT**	**CA**	**GT**	**TT**	**CC**	**AA**	**CT**	**TT**	**GG**	**TT**	**TC**	**GG**
CC	**AA**	**GG**	**TT**	**TT**	**CC**	**CC**	**GG**	**GG**	**GG**	**AA**	**CC**	**CC**	**GG**	**AG**	**CA**	**AA**	**CC**	**AT**	**CA**	**GT**	**TT**	**CC**	**AT**	**CC**	**TT**	**GG**	**TT**	**TC**	**GG**
CC	**AA**	**GG**	**TT**	**TT**	**CC**	**CC**	**GA**	**GG**	**GG**	**AA**	**CC**	**CC**	**GG**	**AA**	**CC**	**AA**	**CC**	**AT**	**CA**	**GT**	**TT**	**CC**	**AT**	**CC**	**TT**	**GG**	**TT**	**TC**	**GG**
CA	**AG**	**GG**	**TT**	**TT**	**CC**	**CT**	**GG**	**GG**	**GG**	**AA**	**CT**	**CC**	**GA**	**AG**	**CC**	**AA**	**CC**	**TA**	**CA**	**TG**	**TT**	**CC**	**AA**	**CT**	**TT**	**GG**	**TT**	**TC**	**GG**
CC	**AA**	**GG**	**TT**	**TT**	**CC**	**CC**	**GG**	**GG**	**GG**	**AA**	**CC**	**CC**	**GG**	**AA**	**CA**	**AA**	**CC**	**AA**	**AC**	**GG**	**TT**	**CC**	**AT**	**TC**	**TT**	**GG**	**TT**	**CC**	**GG**
CC	**AA**	**GG**	**TT**	**TT**	**CC**	**CC**	**GG**	**GG**	**GG**	**AA**	**CC**	**CC**	**GG**	**AA**	**CA**	**AA**	**CC**	**TA**	**AC**	**TG**	**TT**	**CC**	**AA**	**CT**	**TT**	**GG**	**TT**	**TC**	**GG**
CC	**AA**	**GG**	**TT**	**TT**	**CC**	**CC**	**GG**	**GG**	**GG**	**AA**	**CC**	**CC**	**GG**	**AA**	**CA**	**AA**	**CC**	**TA**	**AC**	**TG**	**TT**	**CC**	**AT**	**CC**	**TT**	**GG**	**TT**	**TT**	**GG**
CC	**AA**	**GG**	**TT**	**TT**	**CC**	**CC**	**GG**	**GG**	**GG**	**AA**	**CC**	**CC**	**GG**	**AA**	**CC**	**AA**	**CC**	**TA**	**AC**	**TG**	**TT**	**CC**	**AT**	**CC**	**TT**	**GG**	**TT**	**TC**	**GG**
CC	**AA**	**GG**	**TT**	**TT**	**CC**	**CC**	**GG**	**GG**	**GG**	**AA**	**CC**	**CC**	**GG**	**AA**	**CC**	**AA**	**CC**	**TA**	**AC**	**TG**	**TT**	**CC**	**AA**	**CC**	**TT**	**GG**	**TT**	**TT**	**GG**
CA	**AA**	**GG**	**TT**	**TT**	**CC**	**CC**	**GG**	**GA**	**GG**	**AA**	**CT**	**CC**	**GG**	**GA**	**CC**	**AA**	**CC**	**AA**	**AC**	**GG**	**TT**	**CC**	**AT**	**TC**	**TT**	**GG**	**TT**	**CC**	**GG**
CC	**AA**	**GG**	**TT**	**TT**	**CC**	**CC**	**GG**	**GG**	**GG**	**AA**	**CC**	**CC**	**GG**	**AA**	**CC**	**AA**	**CC**	**TA**	**AC**	**TG**	**TT**	**CC**	**AA**	**CC**	**TT**	**GG**	**TT**	**TT**	**GG**
CA	**AG**	**GG**	**TT**	**TT**	**CC**	**CT**	**GG**	**GG**	**GG**	**AA**	**CT**	**CC**	**GG**	**AA**	**CC**	**AA**	**CC**	**TA**	**CA**	**TG**	**TT**	**CC**	**AA**	**CC**	**TT**	**GG**	**TT**	**TT**	**GG**
CA	**AG**	**GG**	**TT**	**TT**	**CC**	**CT**	**GG**	**GG**	**GG**	**AA**	**CT**	**CC**	**GG**	**AA**	**AC**	**AA**	**CC**	**AA**	**CA**	**GG**	**TT**	**CC**	**AA**	**CT**	**TT**	**GG**	**TT**	**TC**	**GG**
CA	**AG**	**GC**	**TC**	**TT**	**CC**	**CT**	**GG**	**GA**	**GG**	**AA**	**CT**	**CC**	**GG**	**AA**	**CC**	**AA**	**CC**	**TT**	**AC**	**TT**	**TT**	**CC**	**AA**	**CC**	**TT**	**GG**	**TT**	**TT**	**GG**
CA	**AA**	**GG**	**TT**	**TT**	**CC**	**CC**	**GG**	**GA**	**GG**	**AA**	**CT**	**CC**	**GG**	**AA**	**CC**	**AA**	**CC**	**AT**	**AC**	**GT**	**TT**	**CC**	**AT**	**TC**	**TT**	**GG**	**TT**	**CC**	**GG**
CA	**AA**	**GG**	**TT**	**TT**	**CC**	**CC**	**GG**	**GA**	**GG**	**AA**	**CT**	**CC**	**GG**	**AA**	**CC**	**AA**	**CC**	**TT**	**AC**	**TT**	**TT**	**CC**	**TT**	**CC**	**TT**	**GG**	**TT**	**CC**	**GG**
CA	**AG**	**GC**	**TC**	**TT**	**CC**	**CT**	**GG**	**GA**	**GG**	**AA**	**CT**	**CC**	**GG**	**AA**	**CC**	**AA**	**CC**	**AT**	**AC**	**GT**	**TT**	**CC**	**AA**	**CC**	**TT**	**GG**	**TT**	**TT**	**GG**
CA	**AG**	**GC**	**TC**	**TT**	**CC**	**CT**	**GG**	**GA**	**GG**	**AA**	**CT**	**CC**	**GG**	**AA**	**CC**	**AA**	**CC**	**TT**	**AC**	**TT**	**TT**	**CC**	**AA**	**CC**	**TT**	**GG**	**TT**	**TT**	**GG**
CC	**AA**	**GG**	**TT**	**TT**	**CC**	**CC**	**GG**	**GG**	**GG**	**AA**	**CC**	**CC**	**GG**	**AG**	**CC**	**AA**	**CC**	**TA**	**AC**	**TG**	**TT**	**CC**	**AT**	**CC**	**TT**	**GG**	**TT**	**TC**	**GG**
CC	**AA**	**GG**	**TT**	**TT**	**CC**	**CC**	**GA**	**GG**	**GG**	**AA**	**CC**	**CC**	**GG**	**AA**	**AC**	**AA**	**CC**	**AT**	**CA**	**GT**	**TT**	**CC**	**AA**	**CC**	**TT**	**GG**	**TT**	**TT**	**GG**
CA	**AG**	**GG**	**TT**	**TT**	**CT**	**CT**	**GG**	**GG**	**GG**	**AA**	**CT**	**CC**	**GG**	**AG**	**AC**	**AA**	**CG**	**AA**	**CA**	**GG**	**TT**	**CC**	**AA**	**TT**	**TT**	**GG**	**TT**	**CC**	**GG**
CA	**AG**	**GG**	**TT**	**TT**	**CC**	**CT**	**GG**	**GG**	**GG**	**AA**	**CT**	**CC**	**GG**	**AG**	**AC**	**AA**	**CC**	**TA**	**CA**	**GG**	**TT**	**CC**	**AA**	**CC**	**TT**	**GG**	**TT**	**TT**	**GG**
CC	**AA**	**GG**	**TT**	**TT**	**CC**	**CC**	**GG**	**GG**	**GG**	**AA**	**CC**	**CC**	**GG**	**AA**	**CC**	**AA**	**CC**	**AT**	**CA**	**GT**	**TT**	**CC**	**TA**	**CT**	**TT**	**GG**	**TT**	**CC**	**GG**
CC	**AA**	**GG**	**TT**	**TT**	**CC**	**CC**	**GG**	**GG**	**GG**	**AA**	**CC**	**CC**	**GG**	**AA**	**CC**	**AA**	**CC**	**AT**	**CA**	**GT**	**TT**	**CC**	**AA**	**CC**	**TT**	**GG**	**TT**	**TT**	**GG**
CC	**AA**	**GG**	**TT**	**TT**	**CC**	**CC**	**GG**	**GG**	**GG**	**AA**	**CC**	**CC**	**GG**	**AA**	**CC**	**AA**	**CC**	**AT**	**CA**	**GT**	**TT**	**CC**	**AA**	**CC**	**TT**	**GG**	**TT**	**TT**	**GG**
CC	**AA**	**GG**	**TT**	**TT**	**CC**	**CC**	**GG**	**GG**	**GG**	**AA**	**CC**	**CC**	**GG**	**GG**	**CC**	**AG**	**CC**	**TT**	**AC**	**TG**	**TT**	**CC**	**AA**	**CC**	**TT**	**GG**	**TT**	**TT**	**GG**
CA	**AG**	**GC**	**TC**	**TT**	**CC**	**CT**	**GG**	**GA**	**GG**	**AA**	**CT**	**CC**	**GG**	**GA**	**CC**	**AA**	**CC**	**TA**	**AC**	**TG**	**TT**	**CC**	**AA**	**CC**	**TT**	**GG**	**TT**	**TT**	**GG**
CC	**AA**	**GG**	**TT**	**TT**	**CC**	**CC**	**GG**	**GG**	**GG**	**AA**	**CC**	**CC**	**GG**	**AA**	**CC**	**AA**	**CC**	**AT**	**CA**	**GG**	**TT**	**CC**	**AA**	**CT**	**TT**	**GG**	**TT**	**TC**	**GG**
CC	**AA**	**GG**	**TT**	**TT**	**CC**	**CC**	**GG**	**GG**	**GG**	**AA**	**CC**	**CC**	**GG**	**AG**	**AC**	**AA**	**CC**	**AT**	**CA**	**GT**	**TT**	**CC**	**AA**	**CC**	**TT**	**GG**	**TT**	**TT**	**GG**
CA	**AG**	**GC**	**TC**	**TT**	**CC**	**CT**	**GG**	**GA**	**GG**	**AA**	**CT**	**CC**	**GG**	**AA**	**CC**	**AA**	**CC**	**TT**	**AC**	**TT**	**TT**	**CC**	**AA**	**CC**	**TT**	**GG**	**TC**	**TT**	**GG**
CC	**AA**	**GG**	**TT**	**TT**	**CC**	**CC**	**GG**	**GG**	**GG**	**AA**	**CC**	**CC**	**GG**	**AA**	**CC**	**AA**	**CC**	**AT**	**CA**	**GT**	**TT**	**CC**	**AA**	**CC**	**TT**	**GG**	**TT**	**TT**	**GG**
CA	**AG**	**GG**	**TT**	**TT**	**CC**	**CT**	**GG**	**GG**	**GG**	**AA**	**CT**	**CC**	**GG**	**AA**	**CC**	**AA**	**CC**	**TT**	**AC**	**TG**	**TT**	**CC**	**AA**	**CT**	**TT**	**GG**	**TT**	**TC**	**GG**
CA	**AG**	**GC**	**TC**	**TT**	**CC**	**CT**	**GG**	**GA**	**GG**	**AA**	**CT**	**CC**	**GG**	**AA**	**AC**	**AA**	**CC**	**AT**	**CA**	**GG**	**TT**	**CC**	*AA*	**CT**	**TT**	**GG**	**TT**	**TC**	**GG**
CA	**AG**	**GC**	**TC**	**TT**	**CC**	**CT**	**GG**	**GA**	**GG**	**AA**	**CT**	**CC**	**GG**	**GA**	**CC**	**AA**	**CC**	**TT**	**AC**	**TT**	**TG**	**CC**	**AA**	**CC**	**TT**	**GG**	**TT**	**TT**	**GG**
CC	**AA**	**GG**	**TT**	**TT**	**CC**	**CC**	**GG**	**GG**	**GG**	**AA**	**CC**	**CC**	**GG**	**AA**	**CC**	**AA**	**CC**	**TT**	**AC**	**TT**	**TG**	**CC**	**AA**	**CC**	**TT**	**GG**	**TT**	**TT**	**GG**
CA	**AG**	**GG**	**TT**	**TT**	*CC*	**CT**	*GG*	*GG*	*GG*	*AA*	**CT**	*CC*	*GG*	**AA**	**CC**	**AA**	**CC**	**AA**	**CC**	**GG**	**TT**	**CC**	*AA*	*CC*	**TT**	*GG*	*TT*	**TT**	**GG**
AA	**GG**	**GG**	**TT**	**TT**	**CC**	**TT**	**GG**	**GG**	**GG**	**AA**	**TT**	**CC**	**AA**	**AA**	**CC**	**AA**	**CC**	**TT**	**AC**	**TT**	**TT**	**CC**	**AA**	**CT**	**TC**	**GG**	**TT**	**TC**	**GG**
CC	**AA**	**GG**	**TT**	**TT**	**CC**	**CC**	**GG**	**GG**	**GG**	**AA**	**CC**	**CC**	**GG**	**AG**	**AC**	**AA**	**CC**	**AT**	**CA**	**GT**	**TT**	**CC**	**AA**	**CC**	**TT**	**GG**	**TT**	**TT**	**GG**
CA	**AG**	**GC**	**TC**	**TT**	**CC**	**CT**	**GG**	**GA**	**GG**	**AA**	**CT**	**CC**	**GG**	**AA**	**CC**	**AA**	**CC**	**TA**	**AC**	**TG**	**TT**	**CC**	**AA**	**CC**	**TT**	**GG**	**TC**	**TT**	**GG**
CA	**AG**	**GC**	**TC**	**TT**	**CC**	**CT**	**GG**	**GA**	**GG**	**AA**	**CT**	**CC**	**GG**	**AA**	**CC**	**AA**	**CC**	**AT**	**AC**	**GT**	**TG**	**CC**	**AA**	**CC**	**TT**	**GG**	**TT**	**TT**	**GG**
CA	**AG**	**GG**	**TT**	**TT**	**CC**	**CT**	**GG**	**GG**	**GG**	**AA**	**CT**	**CC**	**GG**	**AA**	**CC**	**AA**	**CC**	**AA**	**CA**	**GG**	**TT**	**CC**	**AA**	**CC**	**TT**	**GG**	**TT**	**TT**	**GG**
CA	**AG**	**GC**	**TC**	**TT**	**CC**	**CT**	**GG**	**GA**	**GG**	**AA**	**CT**	**CC**	**GG**	**GA**	**CC**	**AA**	**CC**	**TA**	**AC**	**GG**	**TT**	**CC**	**AA**	**CT**	**TT**	**GG**	**TT**	**TC**	**GG**
CC	**AA**	**GG**	**TT**	**TT**	**CC**	**CC**	**GG**	**GG**	**GG**	**AA**	**CC**	**CC**	**GG**	**AA**	**CC**	**AA**	**CC**	**TA**	**AC**	**TG**	**TT**	**CC**	**AA**	**CC**	**TT**	**GG**	**TT**	**TT**	**GG**
CA	**AG**	**GG**	**TT**	**TT**	**CC**	**CT**	**GG**	**GG**	**GG**	**AA**	**CT**	**CC**	**GG**	**AA**	**CC**	**AA**	**CC**	**AT**	**CA**	**GT**	**TT**	**CC**	**AA**	**CT**	**TT**	**GG**	**TT**	**TC**	**GG**
CA	**AA**	**GG**	**TT**	**TT**	**CC**	**CC**	**GG**	**GA**	**CG**	**AA**	**CT**	**CC**	**GG**	**AA**	**CC**	**AA**	**CC**	**AA**	**CA**	**GG**	**TT**	**CC**	**AA**	**CC**	**TT**	**GG**	**TT**	**TT**	**GG**
AA	**AG**	**GC**	**TC**	**TT**	**CC**	**CT**	**GG**	**AA**	**GG**	**AA**	**TT**	**CC**	**GG**	**GA**	**CC**	**AA**	**CC**	**TA**	**AC**	**TG**	**TT**	**CC**	**AA**	**CC**	**TT**	**GG**	**TT**	**TT**	**GG**
CA	**AG**	**GG**	**TT**	**TT**	**CC**	**CC**	**GG**	**GG**	**GG**	**AA**	**CC**	**CC**	**GG**	**AA**	**CC**	**AA**	**CC**	**TA**	**CA**	**GG**	**TT**	**CC**	**AA**	**CC**	**TT**	**GG**	**TT**	**TT**	**GG**
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CA	**AA**	**GG**	**TT**	**TT**	**CC**	**CC**	**GG**	**GG**	**GC**	**AA**	**CC**	**CC**	**GG**	**AA**	**CC**	**AA**	**CC**	**AT**	**CA**	**GT**	**TT**	**CC**	**AA**	**CT**	**TT**	**GG**	**TT**	**TC**	**GG**
CA	**AA**	**GG**	**TT**	**TT**	**CC**	**CC**	**GG**	**GG**	**GC**	**AA**	**CC**	**CC**	**GG**	**AA**	**CC**	**AA**	**CC**	**AT**	**CA**	**GT**	**TT**	**CC**	**AA**	**CT**	**TT**	**GG**	**TT**	**TC**	**GG**
CC	**AA**	**GG**	**TT**	**TT**	**CC**	**CC**	**GG**	**GG**	**GG**	**AA**	**CC**	**CC**	**GG**	**AA**	**CC**	**AA**	**CC**	**AA**	**AC**	**GG**	**TT**	**CC**	**AA**	**TT**	**TT**	**GG**	**TT**	**CC**	**GG**
CA	**AG**	**GG**	**TT**	**TT**	**CC**	**CT**	**GG**	**GG**	**GG**	**AA**	**CT**	**CC**	**GG**	**AA**	**CC**	**AA**	**CC**	**TT**	**AC**	**TT**	**TT**	**CC**	**AA**	**CC**	**TT**	**GG**	**TT**	**TT**	**GG**
CA	**AA**	**GG**	**TT**	**TT**	**CC**	**CC**	**GG**	**GG**	**GC**	**AA**	**CC**	**CC**	**GG**	**AA**	**CC**	**AA**	**CC**	**AT**	**CA**	**GT**	**TT**	**CC**	**AA**	**CT**	**TT**	**GG**	**TT**	**TC**	**GG**
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CC	**AA**	**GG**	**TT**	**TT**	**CC**	**CC**	**GG**	**GG**	**GG**	**AA**	**CC**	**CC**	**GG**	**AA**	**CC**	**AA**	**CC**	**TA**	**AC**	**GG**	**TT**	**CC**	**AA**	**CC**	**TT**	**GG**	**TT**	**TT**	**GG**
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CA	**AG**	**GG**	**TT**	**TT**	**CC**	**CT**	**GG**	**GG**	**GG**	**AA**	**CT**	**CC**	**GG**	**AA**	**CA**	**AA**	**CC**	**TA**	**AC**	**TG**	**TT**	**CC**	**AA**	**CC**	**TT**	**GG**	**TT**	**TT**	**GG**
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CA	**AG**	**GG**	**TT**	**TA**	**CT**	**CT**	**GG**	**GG**	**GG**	**AG**	**CT**	**CC**	**GG**	**AA**	**CC**	**AA**	**CC**	**AT**	**CA**	**GT**	**TT**	**CC**	**AT**	**CC**	**TT**	**GG**	**TT**	**TC**	**GG**
CC	**AA**	**GG**	**TT**	**TT**	**CC**	**CC**	**GG**	**GG**	**GG**	**AA**	**CC**	**CC**	**GG**	**AA**	**CC**	**AA**	**CC**	**AA**	**AC**	**GG**	**TT**	**CC**	**AA**	**CC**	**TT**	**GG**	**TT**	**TT**	**GG**
AA	**AG**	**GG**	**TT**	**TT**	**CC**	**CT**	**GG**	**AG**	**GG**	**AA**	**TT**	**CC**	**GG**	**AA**	**CA**	**AA**	**CC**	**TA**	**AC**	**GG**	**TT**	**CC**	**AT**	**CC**	**TT**	**GG**	**TT**	**TC**	**GG**

13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	16	16	16	16	16	16	16	16	16	16	16	16	16
108984371	108984558	108984571	108985538	108985602	108985698	108985926	108995204	108995260	108995393	108995417	108995470	108995793	108996046	108996160	108996596	108996931	17859386	17859588	17859669	17859907	17860126	17860228	17860304	17860513	17860528	17860896	17861038	17861059	17867723
rs7988043	**New**	**New**	**New**	rs61962573	**New**	**New**	**New**	rs16974343	rs17411930	**New**	**New**	**New**	**New**	rs1410425	**New**	rs9521421	**New**	**New**	**New**	**New**	rs9925207	**New**	**New**	**New**	rs62045245	**New**	**New**	**New**	**New**
13qMB108b	13qMB108b	13qMB108b	13qMB108b	13qMB108b	13qMB108b	13qMB108b	13qMB108c	13qMB108c	13qMB108c	13qMB108c	13qMB108c	13qMB108c	13qMB108c	13qMB108c	13qMB108c	13qMB108c	16pMB17a	16pMB17a	16pMB17a	16pMB17a	16pMB17a	16pMB17a	16pMB17a	16pMB17a	16pMB17a	16pMB17a	16pMB17a	16pMB17a	16pMB17b
C	C	T	C	C	T	C	G	A	C	C	A	G	G	C	C	T	G	A	A	C	C	A	G	T	A	G	A	G	G
T	T	C	T	G	C	T	A	G	A	A	G	A	A	T	A	C	C	G	G	T	G	G	A	C	G	C	G	A	A
CC	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AA**	**CC**	**CC**	**AA**	**GG**	**GG**	**CC**	**CC**	**TT**	**GG**	**AA**	**AA**	**CC**	**GC**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GG**
TT	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GA**	**AA**	**CC**	**CC**	**AA**	**GG**	**GG**	**CC**	**CC**	**CC**	**GG**	**AA**	**AA**	**CC**	**CC**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	*GG*
CC	**CC**	**TT**	**CC**	**CC**	**TT**	**CT**	**GG**	**AA**	**CC**	**CC**	**AA**	**GG**	**GG**	**CC**	**CC**	**CT**	**GG**	**GG**	**GG**	**CC**	**GG**	**AA**	**AA**	**CC**	**AA**	**CC**	**AA**	**GG**	**GG**
CT	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AA**	**CA**	**CA**	**AA**	**GG**	**GG**	**CC**	**CC**	**TC**	**GG**	**AG**	**AG**	**CC**	**CG**	**AA**	**GA**	**TC**	**AA**	**GC**	**AA**	**GG**	**GG**
CT	**CC**	**TT**	**CC**	**CC**	**TT**	**TC**	**GG**	**AA**	**CC**	**CC**	**AA**	**GG**	**GG**	**CC**	**CC**	**TT**	**GG**	**AA**	**AA**	**CC**	**CC**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GG**
CC	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AA**	**CC**	**CC**	**AA**	**GG**	**GG**	**CC**	**CC**	**TT**	**GG**	**AA**	**AA**	**CC**	**GC**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GG**
CC	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AA**	**CC**	**CC**	**AA**	**GG**	**GG**	**CC**	**CC**	**CC**	**GG**	**AA**	**AA**	**CC**	**CC**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GG**
CC	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AA**	**CC**	**CC**	**AA**	**GG**	**GG**	**CC**	**CC**	**TT**	**GG**	**AA**	**AA**	**CC**	**CC**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GG**
CC	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AA**	**CC**	**CC**	**AA**	**GG**	**GG**	**CC**	**CC**	**TT**	**GG**	**AA**	**AA**	**CC**	**CC**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GG**
CC	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AA**	**CC**	**CC**	**AA**	**GG**	**GG**	**CC**	**CC**	**TT**	**GG**	**AA**	**AA**	**CT**	**CC**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GG**
CC	**CC**	**TT**	**CC**	**CC**	**TT**	**CT**	**GG**	**AA**	**CC**	**CC**	**AA**	**GG**	**GG**	**CC**	**CC**	**TT**	**GG**	**AA**	**AA**	**CC**	**CC**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GG**
CT	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AA**	**CA**	**CA**	**AA**	**GG**	**GG**	**CC**	**CC**	**TC**	**GG**	**AG**	**AG**	**CC**	**CG**	**AA**	**GA**	**TC**	**AA**	**GC**	**AA**	**GG**	*GG*
CC	*CC*	*TT*	*CC*	*CC*	*TT*	*CC*	**GG**	**AA**	**CC**	**CC**	**AA**	**GG**	**GG**	**CC**	**CC**	**TC**	**GG**	**AA**	**AA**	**CC**	**CC**	**AA**	**GG**	**TT**	**AA**	**GG**	**GA**	**GA**	**GG**
CT	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GA**	**AA**	**AC**	**AC**	**AA**	**GG**	**GG**	**CC**	**CC**	**CC**	**GG**	**AA**	**AA**	**CC**	**CC**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GG**
CC	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AA**	**CC**	**CC**	**AA**	**GG**	**GG**	**CC**	**CC**	**TC**	**GG**	**AA**	**AA**	**CC**	**CC**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GG**
CT	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AA**	**CC**	**CC**	**AA**	**GG**	**GG**	**CC**	**CC**	**TC**	**GG**	**AA**	**AA**	**CC**	**CC**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GA**
CC	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AG**	**AC**	**AC**	**AA**	**GG**	**AG**	**CC**	**CC**	**CC**	**GG**	**AA**	**AA**	**CC**	**CC**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GG**
TC	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AA**	**CC**	**CC**	**AA**	**GG**	**GG**	**CC**	**CC**	**CT**	**GG**	**AA**	**AA**	**CC**	**CC**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GG**
CC	*CC*	*TT*	*CC*	*CC*	*TT*	*CC*	**GG**	**AA**	**CC**	**CC**	**AA**	**GG**	**GG**	**CC**	**CC**	**TT**	**GG**	**AA**	**AA**	**CC**	**CC**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GG**
CC	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AA**	**AA**	**AA**	**AA**	**GG**	**AG**	**CC**	**CC**	**CC**	**GG**	**AG**	**AG**	**CC**	**CG**	**AA**	**GA**	**TC**	**AA**	**GC**	**AA**	**GG**	**GG**
CC	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AA**	**CC**	**CC**	**AA**	**GG**	**GG**	**CC**	**CC**	**TT**	**GG**	**AA**	**AA**	**CC**	**CC**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GG**
CC	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AA**	**CC**	**CC**	**AA**	**GG**	**GG**	**CC**	**CC**	**TT**	**GG**	**AA**	**AA**	**CC**	**CC**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GG**
CC	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AA**	**AC**	**AC**	**AA**	**GG**	**GG**	**CC**	**CC**	**CT**	**GG**	**AA**	**AA**	**CC**	**CC**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GG**
CC	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AA**	**CC**	**CC**	**AA**	**GG**	**GG**	**CC**	**CC**	**TT**	**GG**	**AA**	**AA**	**CC**	**CC**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GG**
CT	**CC**	**TT**	**CC**	**CC**	**CT**	**CC**	**GG**	**AA**	**AC**	**AC**	**AA**	**GG**	**GG**	**CC**	**CC**	**CC**	**GG**	**AA**	**AA**	**CC**	**CC**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GG**
CC	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AA**	**CC**	**CC**	**AA**	**GG**	**GG**	**CC**	**CC**	**TT**	**GG**	**AG**	**AG**	**CC**	**CG**	**AA**	**GA**	**TC**	**AA**	**GC**	**AA**	**GG**	**GG**
CC	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AA**	**CC**	**CC**	**AA**	**GG**	**GG**	**CC**	**CC**	**CT**	**GG**	**AA**	**AA**	**CC**	**CC**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GG**
CT	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AA**	**CC**	**CC**	**AA**	**GG**	**GG**	**CC**	**CC**	**CC**	**GG**	**AA**	**AA**	**CC**	**CC**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GG**
CC	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AA**	**CC**	**CC**	**AA**	**GG**	**GG**	**CC**	**CC**	**TT**	**GG**	**AG**	**AG**	**CC**	**CG**	**AA**	**GA**	**TC**	**AA**	**GC**	**AA**	**GG**	**GG**
CC	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AA**	**AC**	**AC**	**AA**	**GG**	**GG**	**CC**	**CC**	**CT**	**GG**	**AA**	**AA**	**CC**	**CC**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GG**
CT	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AA**	**AC**	**AC**	**AA**	**GG**	**GG**	**CC**	**CC**	**CT**	**GG**	**AA**	**AA**	**CC**	**CG**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GA**
TC	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AA**	**CC**	**CC**	**AA**	**GG**	**GG**	**CC**	**CC**	**TT**	**GG**	**AA**	**AA**	**CC**	**CG**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GG**
CT	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AA**	**CC**	**CC**	**AA**	**GG**	**GG**	**CC**	**CC**	**CT**	**GG**	**AA**	**AA**	**CC**	**CC**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GG**
CC	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AA**	**CC**	**CC**	**AG**	**GG**	**GG**	**CC**	**CC**	**CC**	**GG**	**AA**	**AA**	**CT**	**CC**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GG**
CC	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AA**	**AC**	**AC**	**AA**	**GG**	**GG**	**CC**	**CC**	**CT**	**GG**	**AA**	**AA**	**CC**	**CC**	**AA**	**GG**	**TT**	**AG**	**GG**	**AA**	**GG**	**GG**
CC	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AA**	**CC**	**CC**	**AA**	**GG**	**GG**	**CC**	**CC**	**TT**	**GG**	**AA**	**AA**	**CC**	**CC**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GG**
TC	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AA**	**CC**	**CC**	**AA**	**GG**	**GG**	**CC**	**CC**	**TT**	**GG**	**AG**	**AG**	**CC**	**GG**	**AA**	**GA**	**TC**	**AA**	**GC**	**AA**	**GG**	**GG**
CC	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AG**	**CC**	**CC**	**AA**	**GG**	**GG**	**CC**	**CC**	**TC**	**GG**	**AA**	**AA**	**CC**	**CC**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GG**
CC	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AA**	**AC**	**AC**	**AA**	**GG**	**GG**	**CC**	**CC**	**CC**	**GG**	**AG**	**AG**	**CC**	**CG**	**AA**	**GA**	**TC**	**AA**	**GC**	**AA**	**GG**	**GG**
CT	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AA**	**CC**	**CC**	**AA**	**GG**	**GG**	**CC**	**CC**	**TT**	**GG**	**AA**	**AA**	**CC**	**CG**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GG**
CC	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AA**	**AC**	**AC**	**AA**	**GG**	**GG**	**CC**	**CC**	**CC**	**GG**	**AG**	**AG**	**CC**	**GG**	**AA**	**GA**	**TC**	**AA**	**GC**	**AA**	**GG**	**GG**
TC	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AA**	**AC**	**AC**	**AA**	**GG**	**GG**	**CC**	**CC**	**CT**	**GG**	**AG**	**AG**	**CC**	**CG**	**AA**	**GA**	**TC**	**AA**	**GC**	**AA**	**GG**	**GG**
CC	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AA**	**CC**	**CC**	**AA**	**GG**	**GG**	**CT**	**CC**	**TC**	**GG**	**AA**	**AA**	**CC**	**CC**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GG**
CC	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AA**	**AA**	**AA**	**AA**	**GG**	**GG**	**CC**	**CC**	**CC**	**GG**	**AA**	**AA**	**CC**	**CC**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GG**
CC	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AA**	**CC**	**CC**	**AA**	**GG**	**GG**	**CC**	**CC**	**TT**	**GG**	**AA**	**AA**	**CC**	**CC**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GG**
CC	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AA**	**AC**	**AC**	**AA**	**GG**	**GG**	**CC**	**CC**	**CT**	**GG**	**AA**	**AA**	**CC**	**CC**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GG**
CC	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AA**	**CC**	**CC**	**AA**	**GG**	**GG**	**CC**	**CC**	**TT**	**GG**	**AA**	**AA**	**CC**	**CC**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GG**
TT	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AA**	**AC**	**AC**	**AA**	**GG**	**GG**	**CC**	**CC**	**CC**	**GG**	**AA**	**AA**	**CC**	**CC**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GG**
CC	**CC**	**TT**	**CT**	**CC**	**TT**	**CC**	**GG**	**AA**	**CC**	**CC**	**AA**	**GG**	**GG**	**CT**	**CC**	**TC**	**GG**	**AA**	**AA**	**CT**	**CC**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GG**
CT	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AA**	**CC**	**CC**	**AA**	**GG**	**GG**	**CC**	**CC**	**TT**	**GG**	**AA**	**AA**	**CC**	**GC**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GG**
CC	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AA**	**AA**	**AA**	**AA**	**GG**	**GG**	**CC**	**CC**	**CC**	**GG**	**AA**	**AA**	**CC**	**CC**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GG**
CC	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AA**	**CC**	**CC**	**AA**	**GG**	**GG**	**CC**	**CC**	**CC**	**GG**	**AA**	**AA**	**CC**	**GC**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GG**
CC	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AA**	**CC**	**CC**	**AA**	**GG**	**GG**	**CC**	**CC**	**TC**	**GG**	**AA**	**AA**	**CC**	**CC**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GG**
CC	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AG**	**AC**	**AC**	**AA**	**GG**	**GG**	**CC**	**CA**	**CC**	**GG**	**AA**	**AA**	**CC**	**CC**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GG**
CT	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AA**	**CC**	**CC**	**AA**	**GG**	**GG**	**CC**	**CC**	**CC**	**GG**	**AA**	**AA**	**CC**	**CC**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GG**
CC	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AA**	**CA**	**CA**	**AA**	**GG**	**GG**	**CC**	**CC**	**TC**	**GG**	**AA**	**AA**	**CC**	**CC**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GG**
CC	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AA**	**AC**	**AC**	**AA**	**GG**	**GG**	**CC**	**CC**	**CT**	**GG**	**AA**	**AA**	**CC**	**CC**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GG**
CC	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AG**	**CC**	**CC**	**AA**	**GG**	**GG**	**CC**	**CC**	**TC**	**GG**	**AA**	**AA**	**CC**	**CC**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GG**
CT	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**GA**	**CC**	**CC**	**AA**	**GG**	**GG**	**CC**	**CC**	**CC**	**GG**	**AA**	**AA**	**CC**	**CC**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GG**
CT	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**GA**	**CC**	**CC**	**AA**	**GG**	**GG**	**CC**	**CC**	**TC**	**GG**	**AA**	**AA**	**CC**	**CC**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GG**
CC	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AA**	**CC**	**CC**	**AA**	**GG**	**GG**	**CC**	**CC**	**TC**	**GG**	**AA**	**AA**	**CC**	**CC**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GG**
CC	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AA**	**CC**	**CC**	**AA**	**GG**	**GG**	**CC**	**CC**	**TC**	**GG**	**AA**	**AA**	**CC**	**CC**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GG**
CC	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AA**	**CC**	**CC**	**AA**	**GG**	**GG**	**CC**	**CC**	**TT**	*GG*	*AA*	*AA*	*CC*	**CC**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GG**
CT	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AG**	**AC**	**AC**	**AA**	**GA**	**GG**	**CC**	**CC**	**CC**	**GG**	**AA**	**AA**	**CC**	**GC**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GG**
CC	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AG**	**AC**	**AC**	**AA**	**GG**	**GG**	**CC**	**CC**	**CC**	**GG**	**AA**	**AA**	**CC**	**CC**	**AG**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GG**
CC	**CC**	**TC**	**CC**	**CC**	**TT**	**CC**	**GG**	**AA**	**CA**	**CA**	**AA**	**GG**	**GG**	**CC**	**CC**	**TC**	**GG**	**AA**	**AA**	**CC**	**CC**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GG**
CC	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AA**	**CC**	**CC**	**AA**	**GG**	**GG**	**CC**	**CC**	**TC**	**GG**	**AA**	**AA**	**CC**	**GC**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GG**
CC	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AA**	**CA**	**CA**	**AA**	**GG**	**GG**	**CC**	**CC**	**TC**	**GG**	**AA**	**AA**	**CC**	**GC**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GG**
CT	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AA**	**CC**	**CC**	**AA**	**GG**	**GG**	**CC**	**CC**	**TC**	**GG**	**AA**	**AA**	**CC**	**CC**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GG**
CC	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AA**	**CA**	**CA**	**AA**	**GG**	**GG**	**CC**	**CC**	**CC**	**GC**	**AG**	**AG**	**CC**	**CG**	**AA**	**GA**	**TC**	**AA**	**GC**	**AA**	**GG**	**GG**
CT	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**GA**	**CA**	**CA**	**AA**	**GG**	**GG**	**CC**	**CC**	**CC**	**GG**	**AA**	**AA**	**CC**	**CC**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GG**
CC	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AA**	**CC**	**CC**	**AA**	**GG**	**GG**	**CC**	**CC**	**TT**	**GG**	**AA**	**AA**	**CC**	**GG**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GG**
CC	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AG**	**CC**	**CC**	**AA**	**GG**	**GG**	**CC**	**CC**	**TC**	**GG**	**AA**	**AA**	**CC**	**CC**	**AA**	**GG**	**TT**	**AG**	**GG**	**AA**	**GG**	**GG**
CC	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AA**	**CC**	**CC**	**AA**	**GG**	**GG**	**CC**	**CC**	**TT**	**GG**	**AA**	**AA**	**CC**	**GC**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GG**
CT	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AA**	**CC**	**CC**	**AA**	**GG**	**GG**	**CC**	**CC**	**TC**	**GG**	**AA**	**AA**	**CC**	**GG**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GG**
CT	**CT**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AA**	**CC**	**CC**	**AA**	**GG**	**GG**	**CC**	**CC**	**TT**	**GG**	**AG**	**AG**	**CC**	**CG**	**AA**	**GA**	**TC**	**GA**	**GC**	**AA**	**GG**	**GG**
CT	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**GA**	**CC**	**CC**	**AA**	**GG**	**GG**	**CT**	**CC**	**CC**	**GG**	**AA**	**AA**	**CC**	**GC**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GG**
TT	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AA**	**CC**	**CC**	**AA**	**GG**	**GG**	**CC**	**CC**	**CT**	**GC**	**AG**	**AG**	**CC**	**CG**	**AA**	**GA**	**TC**	**AA**	**GC**	**AA**	**GG**	**GG**
CC	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AA**	**CC**	**CC**	**AA**	**GG**	**GG**	**CC**	**CC**	**TT**	**GG**	**AA**	**AA**	**CC**	**GC**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GG**
CT	**CC**	**TT**	**CC**	**CG**	**TT**	**CC**	**GG**	**AA**	**AA**	**AA**	**AA**	**GG**	**GG**	**CC**	**CC**	**CC**	**GG**	**AA**	**AA**	**CC**	**CC**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	*GG*
CC	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AG**	**CC**	**CC**	**AA**	**GG**	**GG**	**CC**	**CC**	**TC**	**GG**	**AG**	**AG**	**CC**	**CG**	**AA**	**GA**	**TC**	**AA**	**GC**	**AA**	**GG**	**GG**
CC	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AA**	**CC**	**CC**	**AA**	**GG**	**GG**	**TT**	**CC**	**CC**	**GG**	**AA**	**AA**	**CC**	**CC**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GG**
CC	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AA**	**CA**	**CA**	**AA**	**GG**	**GG**	**CC**	**CC**	**CC**	**GG**	**AA**	**AA**	**CC**	**GC**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GG**
CT	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AA**	**AC**	**AC**	**AA**	**GG**	**GG**	**CT**	**CC**	**CC**	**GG**	**AA**	**AA**	**CC**	**CC**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GG**
CC	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AA**	**CA**	**CA**	**AA**	**GG**	**GG**	**CC**	**CC**	**CC**	**GG**	**AA**	**AA**	**CC**	**CC**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GG**
CC	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AA**	**AC**	**AC**	**AA**	**GG**	**GG**	**CC**	**CC**	**CC**	**GG**	**AA**	**AA**	**CC**	**CC**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GG**
CC	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**GA**	**CC**	**CC**	**AA**	**GA**	**GG**	**CC**	**CC**	**CC**	**GG**	**AA**	**AA**	**CC**	**CC**	**AA**	**GG**	**TT**	**AG**	**GG**	**AA**	**GG**	**GG**
CC	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AA**	**CA**	**CA**	**AA**	**GG**	**GG**	**CC**	**CC**	**TC**	**GG**	**AA**	**AA**	**CC**	**CC**	**AA**	**GG**	**TT**	**AG**	**GG**	**AA**	**GG**	**GG**
CC	**CC**	**TT**	**CC**	**CC**	**TT**	**CC**	**GG**	**AA**	**CC**	**CC**	**AA**	**GG**	**GG**	**CC**	**CC**	**TT**	**GG**	**AA**	**AA**	**CC**	**CC**	**AA**	**GG**	**TT**	**AA**	**GG**	**AA**	**GG**	**GG**

16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	18	18	18	18	18	18	18
17867727	17867878	17867957	17868050	17868189	17868416	17868858	17868951	17869057	17869365	17869454	17869481	17877348	17878102	17878330	17878489	17878873	17879067	17879331	17879874	17880081	73342904	73343284	73343302	73343463	73343554	73344099	73352964
New	rs62045248	rs9932244	**New**	**New**	rs12444731	**New**	rs56384927	**New**	rs56007641	**New**	**New**	rs7196018	rs4781910	**New**	**New**	rs59951559	rs62045256	rs62045257	rs28609528	rs6498751	rs9952419	**New**	rs7234170	rs9952806	rs4890943	rs8095323	rs4890945
16pMB17b	16pMB17b	16pMB17b	16pMB17b	16pMB17b	16pMB17b	16pMB17b	16pMB17b	16pMB17b	16pMB17b	16pMB17b	16pMB17b	16pMb17c	16pMb17c	16pMb17c	16pMb17c	16pMb17c	16pMb17c	16pMb17c	16pMb17c	16pMb17c	18qMb73a	18qMb73a	18qMb73a	18qMb73a	18qMb73a	18qMb73a	18qMb73b
C	T	G	C	T	A	C	G	T	C	T	T	T	G	G	G	A	G	C	T	G	T	T	G	A	C	C	G
T	C	C	T	C	T	T	T	C	A	C	C	A	C	A	T	G	A	A	C	A	C	A	A	G	T	T	A
CC	**TT**	**GC**	**CC**	**TT**	**TT**	**CC**	**GG**	**TT**	**CC**	**TT**	**TT**	**AT**	**CC**	**GG**	**GG**	**AA**	**GG**	**CC**	**TT**	**AA**	**TT**	**TT**	**GG**	**AA**	**CC**	**CC**	**GA**
CC	*TT*	*CG*	*CC*	*TT*	*TA*	*CC*	*GG*	*TT*	*CC*	*TT*	*TT*	**TT**	**CG**	**GG**	**GG**	**AA**	**GG**	**CC**	**TT**	**AG**	**CC**	**TT**	**GG**	**AA**	**CT**	**CT**	**GG**
CC	**TT**	**CC**	**TT**	**CC**	**TT**	**CC**	**GG**	**CC**	**CC**	**CC**	**CC**	**TT**	**CC**	**GG**	**TT**	**GG**	**GG**	**CC**	**CC**	**AA**	**CC**	**TT**	**GA**	**AG**	**TC**	**TT**	**GA**
CC	**TT**	**CC**	**CT**	**TC**	**TT**	**CC**	**GG**	**TC**	**CC**	**TC**	**TC**	**TT**	**CC**	**GG**	**GT**	**AG**	**GG**	**CC**	**TC**	**AA**	**CC**	**TT**	**GA**	**AG**	**TC**	**TT**	**GA**
CC	**TT**	**CC**	**CC**	**TT**	**TT**	**CC**	**GG**	**TT**	**CC**	**TT**	**TT**	**TT**	*CC*	**GG**	**GG**	**AA**	**GG**	**CC**	**TT**	**AA**	**CC**	**TT**	**GG**	**AA**	**CT**	**CT**	**GG**
CC	**TT**	**GC**	**CC**	**TT**	**TT**	**CC**	**GG**	**TT**	**CC**	**TT**	**TT**	**AT**	*CC*	*GG*	*GG*	*AA*	*GG*	*CC*	**TT**	**AA**	**CC**	**TT**	**GA**	**AG**	**TC**	**TT**	**GG**
CC	**TT**	**GG**	**CC**	**TT**	**AA**	**CC**	**GG**	**TT**	**CC**	**TT**	**TT**	**TT**	**GG**	**GG**	**GG**	**AA**	**GG**	**CC**	**TT**	**GG**	**CC**	**TT**	**GA**	**AG**	**TC**	**TT**	**GG**
CC	**TT**	**CG**	**CC**	**TT**	**TA**	**CC**	**GG**	**TT**	**CC**	**TT**	**TT**	**TT**	**CC**	**GG**	**GG**	**AA**	**AA**	**CC**	**TT**	**AA**	**CC**	**TT**	**GA**	**AG**	**TC**	**TT**	**GA**
CC	**TT**	**CG**	**CC**	**TT**	**TA**	**CC**	**GG**	**TT**	**CC**	**TT**	**TT**	**TT**	**CG**	**GG**	**GG**	**AA**	**GG**	**CC**	**TT**	**AG**	**CC**	**TT**	**AA**	**GG**	**CC**	**TT**	**AA**
CC	**TC**	**CC**	**CC**	**TT**	**TT**	**CT**	**GT**	**TT**	**CA**	**TT**	**TT**	**TT**	*CC*	*GG*	*GG*	*AA*	*GG*	*CC*	*TT*	*AA*	**CC**	**TT**	**GA**	**AG**	**TC**	**TT**	**GA**
CC	**TT**	**CC**	**CC**	**TT**	**TT**	**CC**	**GG**	**TT**	**CC**	**TT**	**TT**	**TT**	**CC**	**GG**	**GG**	**AA**	**GG**	**CC**	**TT**	**AA**	**CC**	**TT**	**GA**	**AG**	**CC**	**CT**	**AG**
CC	*TT*	*CC*	*CT*	*TC*	*TT*	*CC*	*GG*	*TC*	*CC*	*TC*	*TC*	**TT**	**CC**	**GG**	**GT**	**AG**	**GG**	**CC**	**TC**	**AA**	**TT**	**TT**	**GG**	**AA**	**CT**	**CC**	**GA**
CC	**TT**	**CG**	**CC**	**TT**	**TA**	**CC**	**GG**	**TT**	**CC**	**TT**	**TT**	**TT**	*CG*	*GG*	*GG*	*AA*	*GG*	*CC*	**TT**	**AG**	**CC**	**TT**	**GG**	**AA**	**TT**	**TT**	**GG**
CC	**TT**	**GG**	**CC**	**TT**	**AA**	**CC**	**GG**	**TT**	**CC**	**TT**	**TT**	**TT**	**GG**	**GG**	**GG**	**AA**	**GG**	**CC**	**TT**	**GG**	**TC**	**TT**	**GA**	**AA**	**TC**	**CC**	**AA**
CC	**TT**	**GG**	**CC**	**TT**	**AA**	**CC**	**GG**	**TT**	**CC**	**TT**	**TT**	**TT**	*GG*	*GG*	*GG*	*AA*	*GG*	*CC*	*TT*	*GG*	**CC**	**TT**	**GG**	**AA**	**CT**	**CT**	**AG**
CC	**TT**	**GG**	**CC**	**TT**	**AA**	**CC**	**GG**	**TT**	**CC**	**TT**	**TT**	**TT**	*GG*	*GG*	*GG*	*AA*	*GG*	*CC*	**TT**	**GG**	**CC**	**TT**	**AA**	**GG**	**CC**	**TT**	**GA**
CC	*TT*	**CG**	**CC**	**TT**	**AA**	**CC**	**GG**	**TT**	**CC**	*TT*	**TT**	**TT**	**CC**	**GG**	**GG**	**AA**	**GG**	**CC**	**TT**	**AA**	**CC**	**TT**	**GA**	**AA**	**TT**	*TT*	*AA*
CC	**TC**	**GC**	**CC**	**TT**	**AT**	**CC**	**GT**	**TT**	**CA**	**TT**	**TT**	**TT**	*GC*	*GG*	*GG*	**AA**	**GG**	*CA*	**TT**	**GA**	**CC**	**TT**	**AG**	**GA**	**CC**	**TC**	**AG**
CC	**TT**	**CG**	**CC**	**TT**	**TA**	**CC**	**GG**	**TT**	**CC**	**TT**	**TT**	**TT**	**CG**	**GG**	**GG**	**AA**	**GG**	**CC**	**TT**	**AG**	**CC**	**TT**	**AG**	**GA**	**CT**	**TT**	**AA**
CC	**TT**	**GC**	**CT**	**TC**	**AT**	**CC**	**GG**	**TC**	**CC**	**TC**	**TC**	**TT**	**GG**	**GG**	**GG**	**AA**	**GG**	**CC**	**TT**	**GG**	**CC**	**TT**	**AA**	**AG**	**TC**	**TT**	**AA**
CC	**TT**	**GG**	**CC**	**TT**	**AA**	**CC**	**GG**	**TT**	**CC**	**TT**	**TT**	**TT**	**GG**	**GG**	**GG**	**AA**	**GG**	**CC**	**TT**	**GG**	**CC**	**TT**	**AA**	**GG**	**CC**	**TT**	**AG**
CC	**TT**	**CG**	**CC**	**TT**	**TA**	**CC**	**GG**	**TT**	**CC**	**TT**	**TT**	**TT**	*CG*	**GG**	*GG*	**AA**	**GG**	**CC**	**TT**	**AG**	**CC**	**TT**	**AA**	**GG**	**CC**	**TT**	**AG**
CC	**TT**	**CG**	**CC**	**TT**	**TA**	**CC**	**GG**	**TT**	**CC**	**TT**	**TT**	**TT**	**GG**	**GG**	**GG**	**AA**	**GG**	**CC**	**TT**	**AG**	**CC**	**TT**	**AA**	**GG**	**CC**	**TT**	**AG**
CC	**TT**	**GC**	**CC**	**TT**	**AT**	**CC**	**GG**	**TT**	**CC**	**TT**	**TT**	**TT**	*GC*	**GG**	**GG**	**AA**	**GG**	**CC**	*TT*	*GA*	**CC**	**TT**	**GA**	**AG**	**TC**	**TT**	**GG**
CC	**TT**	**GG**	**CC**	**TT**	**AA**	**CC**	**GG**	**TT**	**CC**	**TT**	**TT**	**TT**	**GG**	**GG**	**GG**	**AA**	**GG**	**CC**	**TT**	**GG**	**CC**	**TT**	**GA**	**AG**	**TC**	**TT**	**AA**
CC	**CT**	**CC**	**CT**	**TC**	**TT**	**CC**	**TG**	**TT**	**AC**	**TC**	**TC**	**TT**	**CC**	**GG**	**GG**	**AA**	**GG**	**AA**	**TT**	**AA**	**TC**	**TT**	**GA**	**AA**	**CT**	**CC**	**GG**
CC	**TT**	**CG**	**CC**	**TT**	**TA**	**CC**	**GG**	**TT**	**CC**	**TT**	**TT**	**TT**	**CG**	**GG**	**GG**	**AA**	**GG**	**CC**	**TT**	**AG**	**CC**	**TT**	**AG**	**AA**	**TT**	**CT**	*GG*
CC	**TT**	**CC**	**CC**	**TT**	**TT**	**CC**	**GG**	**TT**	**CC**	**TT**	**TT**	**TT**	**CC**	**GG**	**GG**	**AA**	**GG**	**CC**	**TT**	**AA**	**CC**	**TT**	**AG**	**GA**	**CC**	**TC**	**AG**
TC	**TT**	**CC**	**CT**	**TC**	**TT**	**CC**	**GG**	**TC**	**CC**	**TC**	**TC**	**TT**	**CC**	**GG**	**GT**	**AA**	**GG**	**CC**	**TC**	**AA**	**CC**	**TT**	**AG**	**GA**	**CT**	**TT**	**GA**
CC	**TC**	**GC**	**CC**	**TT**	**AT**	**CC**	**GT**	**TT**	**CA**	**TT**	**TT**	**TT**	*GC*	*GG*	*GG*	*AA*	*GG*	*CA*	**TT**	**GA**	**CC**	**TT**	**GA**	**AG**	**CC**	**CT**	**GG**
CC	**TT**	**GG**	**CC**	**TT**	**AT**	**CC**	**GG**	**TT**	**CC**	**TT**	**TT**	**TA**	**CC**	**GG**	**GG**	**AA**	**GG**	**CC**	**TT**	**AA**	**CC**	**TT**	**GA**	**AG**	**TT**	**TT**	**AG**
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CC	**TT**	**GC**	**CC**	**TT**	**AT**	**CC**	**GG**	**TT**	**CC**	**TT**	**TT**	**TT**	**GC**	**GG**	**GG**	**AA**	**GG**	**CC**	**TT**	**GA**	**CC**	**TT**	**GA**	**AG**	**TC**	**TT**	**GG**
CC	**CC**	**CC**	**CC**	**TT**	**TT**	**CT**	**TT**	**TT**	**AA**	**TT**	**TT**	**TT**	**CC**	**GG**	**GG**	**AA**	**GG**	**AA**	**TT**	**AA**	**CC**	**TT**	**GG**	**AA**	**TT**	**TT**	**GA**
CC	**TT**	**CC**	**CC**	**TT**	**TT**	**CC**	**GG**	**TT**	**CC**	**TT**	**TT**	**TT**	**CC**	**GG**	**GG**	**AA**	**GA**	**CC**	**TT**	**AA**	**CC**	**TT**	**GG**	**AA**	**TT**	**TT**	**AA**
CC	**TT**	**GC**	**CC**	**TT**	**AT**	**CC**	**GG**	**TT**	**CC**	**TT**	**TT**	**TT**	**CC**	**GG**	**GG**	**AA**	**GG**	**CC**	**TT**	**AA**	**CC**	*TT*	*GG*	**AA**	**TT**	*TT*	**GA**
CC	**TT**	**GC**	**CT**	**TC**	**TT**	**CC**	**GG**	**TT**	**CC**	**TC**	**TC**	**AT**	**CC**	**GG**	**GT**	**AG**	**GG**	**CC**	**TC**	**AA**	**CC**	**TT**	**GA**	**AA**	**CT**	**CC**	**GA**
CC	**TT**	**GC**	**CC**	**TT**	**AT**	**CC**	**GG**	**TT**	**CC**	**TT**	**TT**	**TT**	**CC**	**GG**	**GG**	**AA**	**GA**	**CC**	**TT**	**AA**	**CT**	**TT**	**GG**	**AA**	**TC**	**TC**	**AA**
CC	**TT**	**GC**	**CT**	**TC**	**AT**	**CC**	**GG**	**TC**	**CC**	**TC**	**TC**	**TT**	**GC**	**GG**	**GT**	**AG**	**GG**	**CC**	**TC**	**GA**	**CC**	**TT**	**GA**	**AG**	**CC**	**CT**	**GG**
CC	**TT**	**GG**	**CC**	**TT**	**AT**	**CC**	**GG**	**TT**	**CC**	**TT**	**TT**	*TA*	*GC*	*GG*	*GG*	*AA*	*GG*	*CC*	*TT*	*GA*	**CC**	**TT**	**GA**	**AG**	**TC**	**TT**	**AG**
CC	**TT**	**GC**	**CT**	**TC**	**TT**	**CC**	**GG**	**TC**	**CC**	**TC**	**TC**	**AT**	**CC**	**GG**	**GT**	**AG**	**GG**	**CC**	**TC**	**AA**	**CC**	**TT**	**AA**	**AG**	**TC**	**CT**	**AA**
CC	**TT**	**GC**	**CT**	**TC**	**AT**	**CC**	**GG**	**TT**	**CC**	**TC**	**TC**	**TT**	**GC**	**GG**	**GG**	**AG**	**GG**	**CC**	**TC**	**GA**	**CT**	**TT**	**AG**	**AA**	**TC**	**CC**	**AA**
CC	**TT**	**GG**	**CC**	**TT**	**AA**	**CC**	**GG**	**TT**	**CC**	**TT**	**TT**	**TT**	*GG*	*GG*	**GG**	**AA**	**GG**	**CC**	**TT**	**GG**	**CC**	**TT**	**GA**	**AG**	**TC**	**TT**	**AG**
CC	**TT**	**GG**	**CC**	**TT**	**AA**	**CC**	**GG**	**TT**	**CC**	**TT**	**TT**	*TT*	*GG*	*GG*	*GG*	*AA*	*GG*	*CC*	*TT*	*GG*	**CC**	**TT**	**GG**	**AA**	**CT**	**CT**	**GG**
CC	**TT**	**GC**	**CC**	**TT**	**AT**	**CC**	**GG**	**TT**	**CC**	**TT**	**TT**	**TT**	**GG**	**GG**	**GG**	**AA**	**GG**	**CC**	**TT**	**GG**	**CC**	**TT**	**GA**	**AA**	**CT**	**CC**	**GA**
CC	**TT**	**GC**	**CC**	**TT**	**AT**	**CC**	**GG**	**TT**	**CC**	**TT**	**TT**	**TT**	*CC*	**GG**	**GG**	**AA**	**GG**	**CC**	**TT**	**AA**	**CC**	**TT**	**GA**	**AG**	**TC**	**TT**	*AG*
CC	**TT**	**GG**	**CC**	**TT**	**AA**	**CC**	**GG**	**TT**	**CC**	**TT**	**TT**	**TT**	**GG**	**GG**	**GG**	**AA**	**GG**	**CC**	**TT**	**GG**	**CC**	**TT**	**GG**	**AA**	**TT**	**TT**	**GG**
CC	**TT**	**GC**	**CC**	**TT**	**AT**	**CC**	**GG**	**TT**	**CC**	**TT**	**TT**	**TT**	**GC**	**GG**	**GG**	**AA**	**GG**	**CC**	**TT**	**GA**	**CC**	**TT**	**GA**	**AA**	**TT**	**TC**	**GA**
CC	**CC**	**CC**	**CC**	**TT**	**TT**	**CT**	**TT**	**TT**	**AA**	**TT**	**TT**	**TT**	**CC**	**GG**	**GG**	**AA**	**GG**	**AA**	**TT**	**AA**	**CC**	**TT**	**AA**	**GG**	**CC**	**TT**	**AA**
CC	**TT**	**GC**	**CC**	**TT**	**TT**	**CC**	**GG**	**TT**	**CC**	**TT**	**TT**	**AT**	**CC**	**GG**	**GG**	**AA**	**GG**	**CC**	**TT**	**AA**	**CC**	**TT**	**GA**	**AG**	**TT**	**TT**	**GA**
CC	**TT**	**GG**	**CC**	**TT**	**AA**	**CC**	**GG**	**TT**	**CC**	**TT**	**TT**	**TT**	**GG**	**GG**	**GG**	**AA**	**GG**	**CC**	**TT**	**GG**	**CC**	**TT**	**GG**	**AA**	**TT**	**TT**	**GG**
CC	**TC**	**GC**	**CC**	**TT**	**TT**	**CC**	**GT**	**TT**	**CA**	**TT**	**TT**	**TT**	**GC**	**GG**	**GG**	**AA**	**GG**	**CC**	**TT**	**GA**	**CC**	**TT**	**GA**	**AG**	**TC**	**TT**	**GG**
CC	**TT**	**GC**	**CC**	**TT**	**AT**	**CC**	**GG**	**TT**	**CC**	**TT**	**TT**	**TT**	**GC**	**GG**	**GG**	**AA**	**GG**	**CC**	**TT**	**GA**	**CC**	**TT**	**GA**	**AG**	**TT**	**TT**	**GA**
CC	**TT**	**GG**	**CC**	**TT**	**AA**	**CC**	**GG**	**TT**	**CC**	**TT**	**TT**	**TT**	**GG**	**GG**	**GG**	**AA**	**GG**	**CC**	**TT**	**GG**	**CC**	**TT**	**GG**	**AA**	**TT**	**TT**	**GG**
CC	**TT**	**GC**	**CC**	**TT**	**AT**	**CC**	**GG**	**TT**	**CC**	**TT**	**TT**	**TT**	**GC**	**GG**	**GG**	**AA**	**GG**	**CC**	**TT**	**GA**	**CC**	**TT**	**GA**	**AG**	**TC**	**TT**	**AG**
CC	**TT**	**GC**	**CC**	**TT**	**AT**	**CC**	**GG**	**TT**	**CC**	**TT**	**TT**	**TT**	**GC**	**GG**	**GG**	**AA**	**GG**	**CC**	**TT**	**GA**	**CC**	**TT**	**AA**	**GG**	**CC**	**TT**	**GG**
CC	**TT**	**GC**	**CC**	**TT**	**AT**	**CC**	**GG**	**TT**	**CC**	**TT**	**TT**	**TT**	**GC**	**GG**	**GG**	**AA**	**GG**	**CC**	**TT**	**GA**	**CC**	**TT**	**AA**	**AG**	**TC**	**TT**	**GG**
CC	**TT**	**CC**	**CC**	**TT**	**TT**	**CC**	**GG**	**TT**	**CC**	**TT**	**TT**	**TT**	**CC**	**GG**	**GG**	**AA**	**GG**	**CC**	**TT**	**AA**	**CC**	**TA**	**GG**	**AA**	**TT**	**TT**	**AG**
CC	**TT**	**GC**	**TC**	**CT**	**AT**	**CC**	**GG**	**TT**	**CC**	**CT**	**CT**	**TT**	**GC**	**GG**	**TG**	**GA**	**GG**	**CC**	**CT**	**GA**	**CT**	**TT**	**GG**	**AA**	**CC**	**TC**	**GA**
CC	**TT**	**GC**	**CC**	**TT**	**AT**	**CC**	**GG**	**TT**	**CC**	**TT**	**TT**	**TT**	**GC**	**GG**	**GG**	**AA**	**GG**	**CC**	**TT**	**GA**	**CC**	**TT**	**GA**	**AG**	**TC**	**TT**	**AG**
CC	**TT**	**GC**	**CC**	**TT**	**AT**	**CC**	**GG**	**TT**	**CC**	**TT**	**TT**	**TT**	**GC**	**GG**	**GG**	**AA**	**GG**	**CC**	**TT**	**GA**	**CC**	**TT**	**GA**	**AG**	**TC**	**TT**	**AG**
CC	**TT**	**GC**	**CC**	**TT**	**AT**	**CC**	**GG**	**TT**	**CC**	**TT**	**TT**	**TT**	**GC**	**GG**	**GG**	**AA**	**GG**	**CC**	**TT**	**GA**	**CC**	**TT**	**AG**	**GA**	**TT**	**TT**	**GA**
CC	*TC*	**GC**	*CC*	**TT**	**AT**	*CC*	*GT*	*TT*	**CA**	*TT*	*TT*	**TT**	**GC**	**GG**	**GG**	**AA**	**GG**	**CA**	**TT**	**GA**	**CC**	**TT**	**AA**	**AG**	*TT*	*TT*	*GG*
CC	**TT**	**GG**	**CC**	**TT**	**TA**	**CC**	**GG**	**TT**	**CC**	**TT**	**TT**	**AT**	**CG**	**GG**	**GG**	**AA**	**GG**	**CC**	**TT**	**AG**	**CC**	**TA**	**AG**	**AA**	**TT**	**CT**	**GA**
CC	**TC**	**CC**	**CC**	**TT**	**TT**	**CC**	**GT**	**TT**	**CA**	**TT**	**TT**	**TT**	**CC**	**GG**	**GG**	**AA**	**GG**	**CA**	**TT**	**AA**	**CC**	**TT**	**GA**	**AA**	**TT**	**TT**	**GG**
CC	**TT**	**CC**	**CC**	**TT**	**TT**	**CC**	**GG**	**TT**	**CC**	**TT**	**TT**	**TT**	**CC**	**GG**	**GG**	**AA**	**GG**	**CC**	**TT**	**AA**	**CC**	**TT**	**GA**	**AA**	**TT**	**TC**	**GG**
CC	**TT**	**GG**	**CC**	**TT**	**TA**	**CC**	**GG**	**TT**	**CC**	**TT**	**TT**	**AT**	**CG**	**GG**	**GG**	**AA**	**GG**	**CC**	**TT**	**AG**	**CC**	**TT**	**AA**	**AG**	**TC**	**CT**	**GG**
CC	**TT**	**GG**	**CC**	**TT**	**TA**	**CC**	**GG**	**TT**	**CC**	**TT**	**TT**	**AT**	**CG**	**GG**	**GG**	**AA**	**GG**	**CC**	**TT**	**AG**	**CC**	**TT**	**AA**	**GG**	**CC**	**TT**	**GG**
CC	**TC**	**GC**	**CC**	**TT**	**AT**	**CC**	**GT**	**TT**	**CA**	**TT**	**TT**	**TT**	**GC**	**GG**	**GG**	**AA**	**GG**	**CA**	**TT**	**GA**	**CT**	**TT**	**GG**	**AA**	**TC**	**TC**	**GA**
CC	**TT**	**GC**	**CT**	**TC**	**AT**	**CC**	**GG**	**TC**	**CC**	**TC**	**TC**	**TT**	**GC**	**GG**	**GT**	**AG**	**GG**	**CC**	**TC**	**GA**	**CT**	**TT**	**GG**	**AA**	**TC**	**TC**	**AG**
CC	**TT**	**GC**	**CC**	**TT**	**AT**	**CC**	**GG**	**TT**	**CC**	*TT*	**TT**	**AT**	**CC**	**GG**	**GG**	**AA**	**GG**	**CC**	**TT**	**AA**	**CC**	**TT**	**AA**	**GG**	**CC**	**TT**	*GA*
CC	**TT**	**GG**	**CC**	**TT**	**TT**	**CC**	**GG**	**TT**	**CC**	**TT**	**TT**	*AA*	*CC*	*GG*	*GG*	**AA**	**GG**	*CC*	*TT*	*AA*	**CT**	**TT**	**GG**	**AA**	**TC**	**TC**	*GG*
CC	**TT**	**GC**	**CC**	**TT**	**AT**	**CC**	**GG**	**TT**	**CC**	**TT**	**TT**	**TT**	**GG**	**GG**	**GG**	**AA**	**GG**	**CC**	**TT**	**GA**	**CC**	**TT**	**GA**	**AA**	**TT**	**TC**	**GA**
CC	**TT**	**GG**	**CC**	**TT**	**TA**	**CC**	**GG**	**TT**	**CC**	**TT**	**TT**	**AT**	**CG**	**GG**	**GG**	**AA**	**GG**	**CC**	**TT**	**AG**	**CC**	**TT**	**GA**	**AG**	**TC**	**TT**	**AA**
CC	**TT**	**GG**	**CC**	**TT**	**TT**	**CC**	**GG**	**TT**	**CC**	**TT**	**TT**	**AA**	**CC**	**GG**	**GG**	**AA**	**GG**	**CC**	**TT**	**AA**	**CC**	**TT**	**GA**	**AG**	**TC**	**TC**	**GG**
CC	**TT**	**CC**	**TT**	**CC**	**TT**	**CC**	**GG**	**CC**	**CC**	**CC**	**CC**	**TT**	**CC**	**GG**	**TT**	**GG**	**GG**	**CC**	**CC**	**AA**	**CT**	**TT**	**GG**	**AA**	**CC**	**TC**	**GG**
CC	**TT**	**GC**	**CC**	**TT**	**TT**	**CC**	**GG**	**TT**	**CC**	**TT**	**TT**	**AT**	**CC**	**GG**	**GG**	**AA**	**GG**	**CC**	**TT**	**AA**	**CT**	**TT**	**AG**	**GA**	**CC**	**TC**	**GA**
CC	**CT**	**CC**	**CT**	**TC**	**TT**	**CC**	**TG**	**TC**	**AC**	**TC**	**TC**	**TT**	**CC**	**GG**	**GT**	**AG**	**GG**	**AC**	**TC**	**AA**	**CT**	**TT**	**AG**	**GA**	**CC**	**TC**	**GA**
CC	**TT**	**GC**	**CC**	**TT**	**TT**	**CC**	**GG**	**TT**	**CC**	**TT**	**TT**	**AT**	**CC**	**GG**	**GG**	**AA**	**GG**	**CC**	**TT**	**AA**	**CC**	**TT**	**AA**	**GG**	**CC**	**TT**	**GG**
CC	*TT*	*GG*	*CC*	*TT*	*AA*	*CC*	*GG*	*TT*	*CC*	*TT*	*TT*	**TT**	**GG**	**GG**	**GG**	**AA**	**GG**	**CC**	**TT**	**GG**	**CT**	**TT**	**AG**	**AA**	**TC**	**CC**	**GA**
CC	**CT**	**CC**	**CT**	**TC**	**TT**	**CT**	**TG**	**TC**	**AC**	**TC**	**TC**	**TT**	**CC**	**GA**	**GT**	**AG**	**GG**	**AC**	**TC**	**AA**	**CC**	**TT**	**GA**	**AG**	**TC**	**TT**	**GG**
CC	**TT**	**CC**	**CC**	**TT**	**TT**	**CC**	**GG**	**TT**	**CC**	**TT**	**TT**	**TT**	**CC**	**GG**	**GG**	**AA**	**GG**	**CC**	**TT**	**AA**	**CT**	**TT**	**AG**	**GA**	**CC**	**TC**	**GA**
CC	**TC**	**GC**	**CC**	**TT**	**TT**	**CC**	**GT**	**TT**	**CA**	**TT**	**TT**	**AT**	**CC**	**GG**	**GG**	**AA**	**GG**	**CA**	**TT**	**AA**	**CT**	**TT**	**AG**	**GA**	**CC**	**TC**	**AG**
CC	**TT**	**GG**	**CC**	**TT**	**AA**	**CC**	**GG**	**TT**	**CC**	**TT**	**TT**	**TT**	**GG**	**GG**	**GG**	**AA**	**GG**	**CC**	**TT**	**GG**	**CC**	**TT**	**GA**	**AG**	**TC**	**TT**	**AA**
CC	**TT**	**GC**	**CC**	**TT**	**AT**	**CC**	**GG**	**TT**	**CC**	**TT**	**TT**	**TT**	**GC**	**GG**	**GG**	**AA**	**GG**	**CC**	**TT**	**GA**	**CC**	**TT**	**GA**	**AG**	**CC**	**CC**	*GG*
CC	**TT**	**GG**	**CC**	**TT**	**AA**	**CC**	**GG**	**TT**	**CC**	**TT**	**TT**	**TT**	**GG**	**GG**	**GG**	**AA**	**GG**	**CC**	**TT**	**GG**	**CT**	**TT**	**AG**	**GA**	**CC**	**TC**	**GA**
CC	**TT**	**GC**	**CC**	**TT**	**AT**	**CC**	**GG**	**TT**	**CC**	**TT**	**TT**	**TT**	**GC**	**GG**	**GG**	**AA**	**AG**	**CC**	**TT**	**GA**	**CT**	**TT**	**GG**	**AA**	**TC**	**TC**	*AG*
CC	**TT**	**GC**	**CC**	**TT**	**AT**	**CC**	**GG**	**TT**	**CC**	**TT**	**TT**	**TT**	**GG**	**GG**	**GG**	**AA**	**GG**	**CC**	**TT**	**GA**	**CC**	**TT**	**GG**	**AA**	**TT**	**TT**	**AA**
CC	**TT**	**GC**	**CC**	**TT**	**AT**	**CC**	**GG**	**TT**	**CC**	**TT**	**TT**	**TT**	**GC**	**GG**	**GG**	**AA**	**GA**	**CC**	**TT**	**GA**	**CC**	**TT**	**GA**	**AA**	**TT**	**TC**	**GG**

18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
73352978	73353268	73353290	73353336	73353920	73354041	73361677	73361859	73361906	73361912	73362016	73362125	73362205	73362248	73362704	73363243	7430417	7430524	7430650	7430890	7431311	7431460	7431668	7441115	7441700	7441772	7441811
rs4890946	**New**	rs7241606	rs73485430	**New**	**New**	rs12606766	rs34615483	rs55944549	rs9959630	**New**	rs57022981	**New**	rs7505885	rs12373292	rs11661532	rs1848606	rs488713	**New**	rs524824	**New**	rs551343	**New**	rs57705782	rs551535	rs559391	**New**
18qMb73b	18qMb73b	18qMb73b	18qMb73b	18qMb73b	18qMb73b	18qMb73c	18qMb73c	18qMb73c	18qMb73c	18qMb73c	18qMb73c	18qMb73c	18qMb73c	18qMb73c	18qMb73c	18pMB7a	18pMB7a	18pMB7a	18pMB7a	18pMB7a	18pMB7a	18pMB7a	18pMB7b	18pMB7b	18pMB7b	18pMB7b
T	T	C	A	T	G	G	T	A	C	A	A	G	T	G	C	G	T	C	T	C	A	A	C	T	T	C
C	A	A	G	G	A	T	G	G	G	G	T	A	A	C	T	C	G	T	A	T	G	C	T	G	A	A
CC	TT	CC	AA	TT	GG	GG	TT	AA	CG	AA	AA	GG	TA	GC	CC	GG	GT	CC	AA	CC	GG	AA	CT	TG	AA	CC
TC	TT	CC	AA	TT	GG	*GG*	*TT*	*AA*	*GG*	*AA*	*AA*	*GG*	*AA*	*CC*	*CC*	GG	GT	TC	AA	TC	GA	AA	CT	GG	AA	CC
CC	TT	CC	AA	TT	GG	GG	TT	AA	GG	AA	AA	GG	AA	CC	CC	*GG*	*GT*	*CC*	*AA*	*CC*	*AA*	*AA*	CT	GG	AA	CC
CC	TT	CA	AA	TT	GG	GG	TT	AA	CG	AA	AA	GA	TA	GC	CC	GG	GT	CC	AT	CC	GA	AA	CC	TG	AT	CC
CC	TT	CC	AA	TT	GG	GG	TT	AA	GG	AA	AA	GG	AA	CC	CC	GG	TT	CC	AA	CC	AA	AA	TT	GG	AA	CC
CC	TT	CC	AA	TT	GG	GG	TT	AA	GC	AA	AA	GG	AT	CG	CC	GG	TT	CC	AA	CC	AA	AA	TT	GG	AA	CC
CC	TT	CC	GA	TT	GG	GT	TG	AA	CC	AA	AT	GG	TT	GC	CT	GG	TT	CC	AA	CC	AA	AA	TT	GG	AA	CC
CC	TT	CC	AA	TT	GG	GT	TG	AG	GC	AA	AT	GG	AT	CC	CT	GG	TT	CC	AA	CC	AA	AA	CT	GG	AA	CC
CC	TT	CC	AA	TT	GG	GG	TT	AA	GG	AA	AA	GG	AA	CC	CC	GG	GT	CC	AA	CC	GA	AA	CT	GG	AA	CC
CC	TT	CC	GA	TT	GG	GG	TT	AA	CG	AA	AA	GG	TA	GC	CC	GG	GT	CC	AA	CC	GA	AA	CT	TG	AA	CC
CC	TT	CC	*AA*	TT	GG	TG	GT	*GA*	CG	AA	TA	GG	TA	CC	TC	*GG*	*TG*	*CC*	*AA*	*CC*	*AA*	*AA*	*TC*	GG	*AA*	*CC*
CC	TT	CC	AA	TT	GG	GG	TT	AA	GG	AA	AA	GG	AA	CC	CC	*GG*	*GG*	*CC*	*AA*	*CC*	*AA*	*AA*	CC	GG	AA	*CC*
CC	TT	CC	AA	TT	GG	GG	TT	AA	GG	AA	AA	GG	AA	CC	CC	GG	GT	CC	AA	CC	GA	AA	CT	GG	AA	CC
CC	TT	CC	AA	TT	GG	GG	TT	AA	GG	AA	AA	GG	AA	CC	CC	GG	GG	CC	AA	CC	GA	AA	CC	TG	AA	CC
CC	TT	CC	AG	TT	GG	TG	GT	GA	CC	AA	TA	GG	TT	CG	TC	GG	GG	CC	AA	CC	GA	AA	CC	TG	AA	CC
CC	TT	CC	AA	TT	GG	GG	TT	AA	CG	AA	AA	GG	TA	GC	CC	GG	GG	CC	AA	CC	AA	AA	CC	GT	AA	CC
CC	*TT*	*CC*	*AA*	TT	GG	GG	TT	*AA*	GC	AG	AA	GG	AT	CG	CC	*GG*	*GG*	*CC*	AA	CC	GG	AA	CC	TG	AA	*CC*
CC	TT	CC	AA	TT	GG	GG	TT	AA	CG	AA	AA	GG	TA	GC	CC	GG	GG	CC	AA	CC	GG	AA	CC	GG	AA	*CC*
CC	TT	CC	AA	TT	GG	*GG*	*TT*	*AA*	*GG*	*AA*	*AA*	*GG*	*AA*	*CC*	*CC*	GG	GT	CC	AA	CC	GA	AA	*CT*	*GG*	*AA*	*CC*
CC	TT	CC	AA	TT	GG	TG	GT	GA	CG	AA	TA	GG	TA	CC	TC	GG	GG	CC	AA	CC	GG	AA	CC	TG	TA	CC
CC	TT	CC	AA	TT	GG	GG	TT	AA	CG	AA	AA	GG	TA	GC	CC	CC	GG	CC	TT	CC	AA	AA	CC	TG	AA	CC
CC	TT	CC	AA	TT	GG	GG	TT	AA	GG	AA	AA	GG	AA	CC	CC	*GC*	GG	CC	AT	CC	GA	*AA*	CC	GT	AA	CC
CC	TT	CC	AA	TT	GG	GG	TT	AA	CG	AA	AA	GG	TA	GC	CC	GG	GG	CC	AA	CC	GG	AA	CC	GG	AA	CC
TC	TT	CC	AA	TT	GG	TG	GT	GA	CG	AA	TA	GG	TA	CC	TC	GC	TT	CC	AT	CC	AA	AA	TC	GT	AT	CC
CC	TT	CC	AG	TT	GA	GT	TG	AG	GC	AA	AT	GG	AT	CC	CT	GG	GT	CC	AA	CC	GA	CA	CT	GG	AA	CC
CT	TT	CC	AA	TT	GG	GT	TG	AG	GC	AA	AT	GG	AT	CC	CT	GG	GG	CC	AA	CC	GG	CC	CC	TG	AA	CC
CC	*TT*	*CC*	*AA*	TT	GG	TG	GT	GA	CG	AA	TA	GG	TA	CC	TC	GG	GG	CT	AA	CC	GG	AA	CT	GG	AA	CC
CC	TT	CC	AA	TT	AG	TT	GG	GG	CC	AA	TT	GG	TT	CC	TT	GG	GT	CC	AA	CC	GA	AA	CT	GG	AA	CC
CC	TT	CC	AG	TT	GG	GT	TG	AG	GC	AA	AT	GG	AT	CC	CT	GG	GT	CC	AA	CC	GA	CA	CT	TG	AA	CC
CC	TT	CC	*AA*	TT	GG	GG	TT	*AA*	CG	AA	AA	GG	TA	GC	CC	GG	GG	CC	AA	CC	GA	AA	*CC*	*GT*	*AA*	*CC*
CC	TT	CC	*AA*	TT	GG	GG	TT	AA	GG	AA	AA	GG	AA	CC	CC	*GG*	*GG*	*CC*	AA	CC	GG	CC	*CC*	*GG*	*AA*	*CC*
CC	TT	CC	AA	TT	GG	GG	TT	AA	GG	AA	AA	GG	AA	CC	CC	GG	GG	CC	AA	CC	GG	AA	CC	GG	AA	CC
CC	TT	CC	AA	TT	GG	TG	GT	GA	CG	AA	TA	GG	TA	CC	TC	GG	TT	CC	AA	CC	AA	AA	TT	GG	AA	CC
TC	TT	CC	AA	TT	GG	TG	GT	GA	CG	AA	TA	GG	TA	CC	TC	GG	GT	CC	AT	CC	GA	AA	CC	GT	AT	CC
CC	TT	CC	AA	TT	GG	GG	TT	AA	CG	AA	AA	GG	TA	GC	CC	GG	GG	CC	AA	CC	GA	AA	CC	TT	AA	CC
TC	TT	CC	AA	TT	GG	TG	GT	GA	CG	AA	TA	GG	TA	CC	TC	GG	TT	CT	AA	CT	AA	AA	TT	GG	AA	CC
CC	TT	CC	AA	TT	GG	TG	GT	GA	CG	AA	TA	GG	TA	CC	TC	GC	GT	TC	AT	TC	AA	AA	TC	GT	AA	CC
CC	TT	CC	AA	TT	GG	GG	TT	AA	GG	AA	AA	GG	AA	CC	CC	*GC*	GT	CC	AT	CC	GA	AA	CC	GT	AT	*CC*
CC	TT	CC	AA	TT	GG	GT	TG	AG	CC	AA	AT	GG	TT	GC	CT	GG	GG	CC	AA	CC	GG	AA	CT	TG	AA	CC
CC	TT	CC	AA	TT	GG	GG	TT	AA	GG	AA	AA	GG	AA	CC	CC	*GG*	*GG*	*CC*	*AA*	*CC*	*GG*	*AA*	CC	GT	AA	CC
CC	TT	CC	*AA*	TT	GG	GG	TT	*AA*	GG	AA	AA	GG	AA	CC	CC	*CC*	*TT*	*CC*	TT	CC	AA	AA	CC	TT	*TT*	*CC*
CC	TT	CC	*AA*	TT	GG	GG	TT	AA	GG	AA	AA	GG	AA	CC	CC	*GG*	GT	CT	AA	CT	GA	AA	*CT*	*GG*	*AA*	*CC*
CC	TT	CA	AG	TT	GG	GG	TT	AA	CC	AA	AA	GA	TT	GG	CC	GG	GG	CC	AA	CC	GA	AA	*CC*	*GT*	*AA*	*CC*
CT	TT	CC	AA	TT	GG	GT	TG	AG	CC	AA	AT	GG	TT	GC	CT	GG	GG	CC	AA	CC	GG	*AA*	CT	TG	AA	CC
CC	TT	CC	AA	TT	GG	GG	TT	AA	CG	AA	AA	GG	TA	GC	CC	GG	GG	CC	AA	CC	GG	AA	CC	GG	AA	CC
CC	TT	CC	AA	TT	*GG*	GG	TT	AA	CC	AA	AA	GG	TT	GG	CC	GC	GT	CC	AT	CC	GA	AA	CC	GT	AT	CC
CC	TT	CC	AA	TT	GG	TT	GG	GG	CC	AA	TT	GG	TT	CC	TT	GG	GT	CC	AA	CC	GA	AA	CT	GG	AA	CC
CC	TT	CC	AA	TT	GG	GG	TT	AA	GG	AA	AA	GG	AA	CC	CC	GG	GG	CC	AA	CC	GA	AA	CC	TT	AA	CC
CC	TT	CC	AA	TT	GG	GG	TT	AA	GG	AA	AA	GG	AA	CC	CC	GG	GG	CC	AA	CC	GG	AA	CC	GG	AA	CC
CC	TT	CA	AA	TT	GG	GG	TT	AA	CG	AA	AA	GA	TA	GC	CC	GG	GG	CC	AA	CC	GG	AA	CC	GG	AA	CC
CC	TT	CC	AA	TT	GG	GG	TT	AA	GG	AA	AA	GG	AA	CC	CC	GG	GT	CC	AA	CC	GA	AA	CT	GG	AA	CC
CC	TT	CC	AA	TT	GG	GT	TG	AG	CC	AA	AT	GG	TT	GC	CT	GG	GG	CC	AA	CC	GG	AA	CC	GG	AA	CC
TC	TT	CC	*AA*	TT	GG	GG	TT	AA	CG	AA	AA	GG	TA	GC	CC	GG	TT	CC	AT	CC	AA	AA	TC	TT	TT	*CC*
TC	TT	CC	*AA*	TT	GG	GG	TT	AA	CC	AA	AA	GG	TT	GC	CC	GG	GT	CC	AA	CC	GG	AA	CC	GG	AA	*CC*
CC	TT	CC	GA	TT	GG	GG	TT	AA	GG	AA	AA	GG	AA	CC	CC	*GG*	*GT*	*CC*	*AT*	*CC*	*GA*	*AA*	*CC*	*GT*	*AT*	*CC*
CC	TT	CC	AA	TT	GG	GT	TG	AG	CC	AA	AT	GG	TT	GC	CT	*GG*	*GG*	*CC*	*AA*	*CC*	*GG*	*AA*	CC	GG	AA	CC
CC	TT	CC	AA	TT	GG	GG	TT	AA	GG	AA	AA	GG	AA	CC	CC	GG	GT	CC	AA	CC	GA	AA	CT	GG	AA	CC
CT	TT	CC	AA	TT	GG	GT	TG	AG	GC	AA	AT	GG	AT	CC	CT	GC	GG	CC	AT	CC	GA	AA	CC	GT	AA	CC
CC	TT	CC	AA	TT	GG	TG	GT	GA	CG	AA	TA	GG	TA	CC	TC	GG	GT	CC	AA	CC	GG	AA	*CC*	*GG*	*AA*	*CC*
CC	TT	CC	AA	TT	GG	GG	TT	AA	GC	AA	AA	GG	AT	CG	CC	*GG*	*GT*	*CC*	*AA*	*CC*	*GA*	*AA*	CT	GG	AA	CC
CC	TT	CC	AA	TT	GG	GG	TT	AA	GC	AA	AA	GG	AT	CG	CC	GG	GG	CC	AA	CC	GG	AA	*CC*	GG	*AA*	*CC*
CC	TT	CC	AG	TT	GG	TG	GT	GA	CG	AA	TA	GG	TA	CC	TC	*GC*	*TG*	*CC*	TT	CC	AA	AA	CC	TT	TA	*CC*
CC	*TT*	*CC*	*AA*	TT	GG	GT	*TG*	*AG*	*GC*	*AA*	AT	GG	AT	CC	CT	*GG*	*GT*	*CC*	AA	CC	GA	*AA*	*CT*	*GG*	*AA*	*CC*
TC	TT	CC	AA	TT	GG	TG	GT	GA	CG	AA	TA	GG	TA	CC	TC	GG	TT	CT	AA	CT	AG	AA	TC	GG	AA	CC
TC	TT	CC	*AA*	TG	GG	TG	GT	GA	CG	AA	TA	GG	TA	CC	TC	GC	TG	CC	AT	CC	GA	AA	CC	GT	AA	CC
CT	TT	CC	*AA*	TT	GG	GG	TT	AA	GC	AA	AA	GG	AT	CG	CC	GG	GG	CC	AA	CC	GG	AA	CC	GG	AA	*CC*
TC	TT	CC	AA	TT	GG	TG	GT	GA	CC	AA	TA	GG	TT	CG	TC	GG	GG	CC	AA	CC	GG	AA	*CC*	*GG*	*AA*	*CC*
CC	TT	CC	AA	TG	GG	GG	TT	AA	GG	AA	AA	GG	AA	CC	CC	GG	GG	CC	AA	CC	GG	AA	CC	GG	AA	CC
CC	TT	CC	AA	TT	GG	GG	TT	AA	GG	AA	AA	GG	AA	CC	CC	GG	GG	CC	AA	CC	GG	AA	CC	GG	AA	CC
CC	TT	CC	GA	GT	GG	TG	GT	GA	CG	AA	TA	GG	TA	CC	TC	GG	TT	CC	TT	CC	AA	AA	CC	TT	TT	CC
CC	TT	CC	AG	TT	GG	GG	TT	AA	CG	AA	AA	GG	TA	GC	CC	GG	TT	CC	TA	CC	AA	AA	CT	GG	AA	CC
CC	TT	CC	AA	TT	GG	GG	TT	AA	GG	AA	AA	GG	AA	CC	CC	GG	GG	CC	AA	CC	GG	AA	CC	GG	AA	CC
CC	TT	AC	AA	TT	GG	GG	TT	AA	CG	AA	AA	AG	TA	GC	CC	GG	TG	CC	AA	CC	AG	AA	TC	GG	AA	CC
CC	TA	CC	AA	TT	GG	GG	TT	AA	GG	AA	AA	GG	AA	CC	CC	GC	GG	CC	AT	CC	GA	AA	CC	GT	AA	CC
CT	TT	CC	*AA*	TT	GG	TG	GT	GA	CG	AA	TA	GG	TA	CC	TC	GG	TG	CC	TA	CC	AG	AA	CC	TG	TA	CC
CC	TT	CC	AA	TT	GG	TG	GT	GA	CC	AA	TA	GG	TT	CG	TC	GG	TT	CC	TA	CC	AA	AA	CT	GG	AA	CC
CC	TT	CC	*AA*	TT	GG	GG	TT	AA	CC	AA	AA	GG	TT	GG	CC	GG	TG	CC	TA	CC	AG	AA	CC	TG	TA	*CC*
TC	TT	CC	AA	TT	GG	GG	TT	AA	GC	AA	AA	GG	AT	CG	CC	GG	GG	CC	AA	CC	GG	AC	CC	GG	AA	CC
CC	TT	CC	AG	TT	GG	GG	TT	AA	CG	AA	AA	GG	TA	GC	CC	GG	TG	CC	AA	CC	AG	AA	CC	TG	AA	CC
CC	TT	CC	AA	TT	GG	GG	TT	AA	GG	AA	AA	GG	AA	CC	CC	GG	GG	CC	AA	CC	AG	AA	CC	TG	AA	CC
CT	TT	CC	AA	GT	GG	TG	GT	GA	CG	AA	TA	GG	TA	CC	TC	GG	TT	CC	TA	CC	AA	AA	CT	TG	TA	CC
CC	TT	AC	AA	TT	GG	GG	TT	AA	CC	AA	AA	AG	TT	GG	CC	GC	GG	CC	AT	CC	GA	AA	CC	GT	AA	AC
CC	TT	CC	AA	TT	GG	GG	TT	AA	GG	AA	AA	GG	AA	CC	CC	GG	GG	CC	AA	CC	AG	AA	TC	GG	AA	CC
CC	TT	CC	GA	TT	GG	GG	TT	AA	GG	AA	AA	GG	AA	CC	CC	GG	GG	CC	AA	CC	GG	AA	CC	GG	AA	CA
CC	TT	*CC*	*AA*	TT	GG	GG	TT	AA	CG	AA	AA	GG	TA	GC	CC	GG	GG	CC	AA	CC	GG	AA	CC	GG	AA	*CC*
CC	TT	AC	AA	TT	GG	GG	TT	AA	CC	AA	AA	AG	TT	GG	CC	GG	GG	CC	AA	CC	GG	AA	CC	GG	AA	CC
CC	*TT*	*CC*	*AA*	*TT*	*GG*	GG	TT	AA	GC	AA	AA	GG	AT	CG	CC	GC	TG	CT	AT	CT	AA	AA	TC	GT	AA	CC
CC	TT	CC	GG	TT	GG	TT	GG	GG	CC	AA	TT	GG	TT	CC	TT	GC	TG	CT	AT	CT	AA	AA	TC	GT	AA	CC
CC	TT	CC	*AA*	TT	GG	TG	GT	GA	CG	AA	TA	GG	TA	CC	TC	GG	GG	CC	AA	CC	AG	AA	CC	TT	AA	*CC*

18	18	18	18	18	18	18	18	18	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
7442280	7442375	7442613	7442614	7450235	7450379	7450722	7451184	7451635	35966005	35966156	35966161	35966455	35966857	35966893	35966895	35967776	35967874	35973778	35973845	35974312	35974449	35974589	35974594	35974870	35975206	35975207
rs474583	**New**	**New**	rs477445	**New**	rs906800	**New**	**New**	**New**	**New**	**New**	**New**	**New**	rs1125518	rs1125519	rs1125520	**New**	rs73032887	rs34626717	rs62102531	**New**	rs62102532	rs1865104	rs1865105	**New**	rs4805620	rs4805621
18pMB7b	18pMB7b	18pMB7b	18pMB7b	18pMB7c	18pMB7c	18pMB7c	18pMB7c	18pMB7c	19qMB35a	19qMB35a	19qMB35a	19qMB35a	19qMB35a	19qMB35a	19qMB35a	19qMB35a	19qMB35a	19qMB35b	19qMB35b	19qMB35b	19qMB35b	19qMB35b	19qMB35b	19qMB35b	19qMB35b	19qMB35b
C	T	A	T	C	C	C	C	T	C	G	G	C	A	A	G	C	T	G	G	T	C	G	T	G	G	A
G	C	C	C	T	T	G	A	C	T	A	A	G	G	G	T	T	C	A	A	A	T	A	G	A	A	G
CG	TT	AA	TC	CC	CC	CC	CC	TT	CC	GG	GG	CC	AA	AA	GG	CC	TT	*GG*	*GG*	*TT*	*CC*	*GG*	*TT*	*GG*	*GG*	*AA*
CG	TT	AA	TC	TC	CC	CC	CC	CT	CC	GG	GG	CC	AA	AA	GG	CC	TT	GG	GG	TT	CC	GG	TT	GG	GG	AA
GG	TT	AA	CC	CC	CC	CC	CC	TT	CC	GG	GG	CC	AA	AA	GG	CC	TT	GG	GG	TT	CC	GG	TT	GG	GG	AA
CG	TT	AA	TC	CC	CC	CC	CC	TC	CC	GG	GG	CC	AA	AA	GG	CC	TT	GG	GG	TT	CC	GG	TT	GG	GG	AA
GG	TT	AA	CC	CC	CC	CC	CC	TT	CC	GG	GG	CC	AG	AG	GT	CC	TT	GA	GG	TT	CC	GA	TG	GG	GA	AG
GG	TT	AA	CC	CC	CC	CC	CC	TT	CC	GG	GG	CC	AA	AA	GG	CT	TT	GG	GG	TT	CC	GG	TT	GG	GG	AA
GG	TT	AA	CC	CC	CC	CC	CC	TT	CC	GG	GG	CC	*AG*	*AG*	*GT*	CC	TT	GA	GG	TT	CC	GA	TG	GG	GA	AG
GG	TT	AA	CC	*CC*	CC	CC	CC	TT	CC	GG	GG	CC	AA	*AA*	*GG*	CC	TT	GG	GG	TT	CC	GG	TT	GG	GG	AA
GG	TT	AA	CC	CC	CC	CC	CC	TT	CC	GG	GG	CC	AG	*AG*	*GT*	CC	TT	GA	GG	TT	CC	GA	TG	GG	GA	AG
CG	TT	AA	TC	CC	CC	CC	CC	TT	CC	GG	GG	CC	AG	AG	GT	CC	TT	GA	GG	TT	CC	GA	TG	GG	GA	AG
GG	*TT*	*AA*	*CC*	*CC*	CC	CC	CC	TT	CC	GG	GG	CC	*AG*	*AG*	*GT*	CC	TT	GA	GG	TT	CC	GA	TG	GG	GA	AG
GG	TT	*AA*	*CC*	CC	CC	CC	CC	TT	CC	GG	GG	CC	*AA*	*AA*	*GG*	CC	TT	GG	GG	TT	CC	GG	TT	GG	GG	AA
GG	TT	AA	CC	CC	CC	CC	CC	TT	CC	GG	GG	CC	AA	AA	GG	CC	TT	GG	GG	TT	CC	GG	TT	GG	GG	AA
CG	TT	AA	TC	CC	CC	CC	CC	TT	CC	GG	GG	CC	AA	AA	GG	CC	TT	GG	GG	TT	CC	GG	TT	GG	GG	AA
CG	TT	AA	TC	CC	CC	CC	CC	TT	CC	GG	GG	CC	AG	AG	GT	CC	TT	GA	GG	TT	CC	GA	TG	GG	GA	AG
GC	TT	AA	CT	*CC*	CC	CC	CC	TT	CC	GG	GG	CC	AA	*AA*	*GG*	CC	TT	GG	GG	TT	CC	GG	TT	GG	GG	AA
GG	TT	*AA*	*CC*	*CC*	*CC*	CC	CC	TT	CC	GG	GG	CC	*AG*	*AG*	*GT*	CC	*TT*	GA	GG	TT	CC	GA	TG	GG	GA	AG
GG	TT	*AA*	*CC*	*CC*	CC	CC	CC	TT	CC	GG	GG	CC	*AG*	*AG*	*GT*	CC	TT	GA	GG	TT	CC	GA	TG	GG	GA	AG
GG	*TT*	*AA*	*CC*	CC	CC	CC	CC	TT	CC	GG	GG	CC	AA	AA	GG	CC	TT	GG	GG	TT	CC	GG	TT	GG	GG	AA
CG	TT	AA	TC	CC	CC	CC	CC	TT	CC	GG	GG	CC	AA	AA	GG	CC	TT	GG	GG	TT	CC	GG	TT	GG	GG	AA
GG	TT	AA	TC	CC	TC	CC	CC	TT	CC	GG	GG	CC	AA	AA	GG	CC	TT	GG	GG	TT	CC	GG	TT	GG	GG	AA
GG	TT	AA	CT	CC	CT	CC	CC	TT	CC	GG	GG	CC	AA	AA	GG	CC	TT	GG	GG	TT	CC	GG	TT	GG	GG	AA
GG	TT	AA	CC	CC	CC	CC	CC	TT	CC	GG	GG	CC	AA	AA	GG	CC	TT	GG	GG	TT	CC	GG	TT	GG	GG	AA
GC	TT	AA	CT	CC	CC	CC	CC	TC	CC	GG	GG	CC	AA	AA	GG	CC	TT	GG	GG	TT	CC	GG	TT	GG	GG	AA
GG	TT	AA	CC	CC	CC	CC	CC	TT	CC	GG	GG	CC	AG	AG	GT	CC	TT	GA	GG	TT	CC	GA	TG	GG	GA	AG
GG	TT	AA	CC	CT	CC	CC	CC	TC	CC	GG	GG	CC	AG	*AG*	*GT*	CC	TT	GA	GG	TT	CC	GA	TG	GG	GA	AG
GC	TT	AA	CT	*TT*	CC	CC	CC	CC	CC	GG	GG	CG	AA	*AA*	*GG*	CC	TT	GG	GG	TT	CC	GG	TT	GG	GG	AA
GG	TT	AA	CC	CC	CC	CC	CC	TT	CC	GG	GG	CG	*AA*	*AA*	*GG*	CC	TT	GG	GG	TT	CC	GG	TT	GG	GG	AA
GC	TT	AA	CT	CC	CC	CC	CC	TT	CC	GG	GG	CC	GG	GG	TT	CC	TT	AA	GG	TT	CC	AA	GG	GG	AA	GG
GC	*TT*	*AA*	*CT*	*CC*	CC	CC	CC	TT	CC	GG	GG	CC	*AA*	*AA*	*GG*	CC	TT	GG	GG	TT	CC	GG	TT	GG	GG	AA
GG	*TT*	*AA*	*CC*	*CC*	CC	CC	CC	TT	CC	GG	GG	CC	*AA*	*AA*	*GG*	CC	TT	GG	GG	TT	CC	GG	TT	GG	GG	AA
GG	TT	AA	CC	CC	CC	CC	CC	TT	CC	GG	GG	CC	AG	AG	GT	CC	TT	GA	GG	TT	CC	GA	TG	GG	GA	AG
GG	TT	AA	CC	CC	CC	CC	CC	TT	CC	GG	GG	CC	AA	AA	GG	CC	TT	GG	GG	TT	CC	GG	TT	GG	GG	AA
GC	TT	AC	CT	CC	CC	CC	CC	TC	CC	GG	GG	CC	AA	AA	GG	CC	TT	GG	GG	TT	CC	GG	TT	GG	GG	AA
GC	TT	AA	TT	CC	CC	CC	CC	TT	CC	GG	GG	CC	AA	AA	GG	CC	TT	GG	GG	TT	CC	GG	TT	GG	GG	AA
GC	TT	AA	CT	CT	CC	CC	CC	TC	CC	GG	GG	CC	AA	AA	GG	CC	TT	GG	GG	TT	CC	GG	TT	GG	GG	AA
CG	TT	AA	TT	CC	TT	CC	CC	TT	CC	GG	GG	CC	AA	*AA*	*GG*	CC	TT	GG	GG	TT	CC	GG	TT	GG	GG	AA
GC	TT	AA	CT	*CC*	CC	CC	CC	TC	*CC*	*GG*	*GG*	CC	*AA*	*AA*	*GG*	*CC*	*TT*	GG	GG	TT	CC	GG	TT	GG	GG	AA
GG	TT	AA	TC	*CC*	TC	CC	CC	TT	CC	GG	GG	CC	AA	*AA*	*GG*	CC	TT	GG	GG	TT	CC	GG	TT	GG	GG	AA
GG	TT	AA	CT	*CC*	*CC*	*CC*	*CC*	*TT*	CC	GG	GG	CC	AG	AG	GT	CC	TT	GA	GG	TT	CC	GA	TG	GG	GA	AG
CC	TT	*AA*	*TT*	*CC*	CC	CC	CC	CC	CC	GG	GG	CC	*GG*	*GG*	*TT*	*CC*	*TT*	AA	GG	TT	CC	AA	GG	GG	AA	GG
GC	*TT*	*AA*	*CT*	*CT*	CC	CC	CC	TC	CC	GG	GG	CC	*AG*	*AA*	*GG*	CC	*TT*	GA	GA	TT	CT	GG	TT	GA	GG	AA
GC	*TT*	*AA*	*CT*	CC	CC	CC	CC	TT	CC	GG	GG	CC	AG	AG	GT	CC	TT	GA	GG	TT	CC	GA	TG	GG	GA	AG
GG	TT	AA	TC	CC	CC	*CC*	CC	TT	CC	GG	GG	CC	AA	AA	GG	CC	TT	GG	GG	TT	CC	GG	TT	GG	GG	AA
GG	TT	AA	CC	CC	CC	CC	CC	TT	CC	GG	GG	CC	AA	AA	GG	CC	TT	GG	GG	TT	CC	GG	TT	GG	GG	AA
GC	TT	AA	CT	CC	CC	CC	CC	CC	CC	GG	GG	CC	AG	AG	GT	CC	TT	GA	GG	TT	CC	GA	TG	GG	GA	AG
GG	TT	AA	CC	CC	CC	CC	CC	TT	CC	GG	GG	CC	AA	AA	GG	CC	TT	GG	GG	TT	CC	GG	TT	GG	GG	AA
GC	TT	AA	TT	CC	TC	CC	CC	TT	CC	GG	GG	CC	AA	AA	GG	CC	TT	GG	GG	TT	CC	GG	TT	GG	GG	AA
GG	TT	AA	CC	CC	CC	CC	CC	TT	CC	GG	GG	CC	GG	*AG*	*GT*	CC	TT	AA	AG	TT	TC	GA	TG	AG	GA	AG
GG	TT	AA	CC	CC	CC	CC	CC	TT	CC	GG	GG	CC	*AA*	*AA*	*GG*	CC	TT	GA	GA	TT	CT	GG	TT	GA	GG	AA
GG	TT	AA	*CC*	*CC*	CC	CC	CC	TT	CC	GG	GG	CC	*AA*	*AA*	*GG*	CC	TT	GG	GG	TT	CC	GG	TT	GG	GG	AA
GG	TT	AA	CC	CC	CC	CC	CC	TT	CC	GG	GG	CC	AG	AG	GT	CC	TT	GA	GG	TT	CC	GA	TG	GG	GA	AG
CC	TT	*AA*	*TT*	CC	CC	CC	CC	CC	CC	GG	GG	CC	*AA*	*AA*	*GG*	CC	*TT*	GG	GG	TT	CC	GG	TT	GG	GG	AA
GG	TT	*AA*	*CC*	CT	CC	CG	CC	TC	CT	GG	GG	CC	*AA*	*AA*	*GG*	CC	*TT*	GG	GG	TT	CC	GG	TT	GG	GG	AA
GC	*TT*	*AA*	*CT*	CC	CC	CC	CC	TC	CC	GG	GG	CC	AA	AA	GG	CC	TT	GG	GG	TT	CC	GG	TT	GG	GG	AA
GG	TT	AA	CC	CC	CC	CC	CC	TT	CC	GG	GG	CC	AA	AA	GG	CC	TT	GG	GG	TT	CC	GG	TT	GG	GG	AA
GG	TT	AA	CC	CC	CC	CC	CC	TT	CC	GG	GG	CC	AA	AA	GG	CC	TT	GG	GG	TT	CC	GG	TT	GG	GG	AA
GG	TT	AA	CT	CC	CT	CC	CC	TT	CC	GG	GG	CC	AG	AG	GT	CC	TT	AG	AG	TT	TC	GG	TT	AG	GG	AA
GG	*TT*	*AA*	*CC*	CC	CC	CC	CC	TT	CC	GG	GG	CC	AA	AA	GG	CC	TT	GG	GG	TA	CC	GG	TT	GG	GG	AA
GG	TT	AA	CC	CC	CC	CC	CC	TT	CC	GG	GG	CC	AA	AA	GG	CC	TT	GG	GG	TT	CC	GG	TT	GG	GG	AA
GG	TT	*AA*	*CC*	*CC*	CC	CC	CC	TT	CC	GG	GG	CC	*AA*	*AA*	*GG*	CC	TT	GA	GA	TT	CT	GG	TT	GA	GG	AA
CG	TT	AA	TT	*CC*	CT	CC	CC	CT	CC	GG	GG	CC	*AA*	*AA*	*GG*	CC	TT	GG	GG	TT	CC	GG	TT	GG	GG	AA
GG	*TT*	*AA*	*CC*	*CC*	*CC*	CC	CC	TT	*CC*	*GG*	*GG*	*CC*	*AA*	*AA*	*GG*	*CC*	*TT*	*GA*	*GG*	*TT*	*CC*	GA	TG	GG	*GA*	*AG*
GC	TT	AA	CT	CT	CC	CC	CC	TC	CC	GG	GG	CC	AA	AA	GG	CC	TT	GG	GG	TT	CC	GG	TT	GG	GG	AA
GG	TT	*AA*	*CT*	*CC*	CT	CC	CC	TT	CC	GG	GG	CC	*AA*	*AA*	*GG*	CC	*TT*	GG	GG	TT	CC	GG	TT	GG	GG	AA
GG	TT	*AA*	*CC*	CC	CC	CC	CC	TT	CC	GG	GG	CC	*GA*	*GA*	*TG*	CC	*TT*	AA	GG	TT	CC	AA	GG	GG	AA	GG
GG	*TT*	*AA*	*CC*	CC	CC	CC	CC	TT	CC	GG	GG	CC	AG	AG	GT	CC	TT	GA	GG	TT	CC	GA	TG	GG	GA	AG
GG	TT	AA	CC	CC	CC	CC	CC	TT	CC	GG	GG	CC	AA	AA	GG	CC	TT	GG	GG	TT	CC	GG	TT	GG	GG	AA
GG	TT	AA	CC	CC	CC	CC	CC	TT	CC	GG	GG	CC	AA	AA	GG	CC	TC	GG	GG	TT	CC	GG	TT	GG	GG	AA
CC	TT	AA	TT	CC	CC	CC	CC	CC	CC	GG	GG	CC	AG	AG	GT	CC	TT	GA	GG	TT	CC	GA	TG	GG	GA	AG
GG	TT	AA	CC	CC	CC	CC	CC	TT	CC	GG	GG	CC	AA	AA	GG	CC	TT	GG	GG	TT	CC	GG	TT	GG	GG	AA
GG	TT	AA	CC	CC	CC	CC	CC	TT	CC	GG	GG	CC	GG	GG	TT	CC	TT	AA	GG	TT	CC	AA	GG	GG	AA	GG
GG	TC	AA	CC	CC	CC	CC	CA	TT	CC	GG	GG	CC	*AA*	*AA*	*GG*	CC	TT	GG	GG	TT	CC	GG	TT	GG	GG	AA
GG	TT	AA	CT	*CC*	CT	CC	CC	TT	CC	GG	GG	CC	*AG*	*AG*	*GT*	CC	TT	GA	GG	TT	CC	GA	TG	GG	GA	AG
CG	TT	AA	TC	CC	CC	CC	CC	CT	CC	GG	GG	CC	*AG*	*AG*	*GT*	CC	TT	GA	GG	TT	CC	GA	TG	GG	GA	AG
GG	TT	AA	CC	CC	CC	CC	CC	TC	CC	GG	GA	CC	AA	AA	GG	CC	TT	GG	GG	TT	CC	GG	TT	GG	GG	AA
CG	TT	*AA*	*TC*	*CC*	CC	CC	CC	CT	CC	GG	GG	CC	*AA*	*AA*	*GG*	CC	TT	GG	GG	TT	CC	GG	TT	GG	GG	AA
GG	TT	AA	CC	CC	CC	CC	CC	TT	CC	GG	GG	CC	*AA*	*AA*	*GG*	CC	TT	GG	GG	TT	CC	GG	TT	GG	GG	AA
CG	TT	AA	TC	CC	CC	CC	CA	TT	CC	GG	GG	CC	AA	AA	GG	CC	TT	GG	GG	TT	CC	GG	TT	GG	GG	AA
CG	TT	AA	TC	CC	CC	CC	CC	TT	CC	GG	GG	CC	AA	AA	GG	CC	TT	GG	GG	TT	CC	GG	TT	GG	GG	AA
CG	TT	AA	TC	CC	CC	CC	CC	CT	CC	GG	GG	CC	AA	AA	GG	CC	TT	GG	GG	TT	CC	GG	TT	GG	GG	AA
GG	TT	AA	CT	CC	CT	CC	CC	TT	CC	GG	GG	CC	AA	AA	GG	CC	TT	GG	GG	TT	CC	GG	TT	GG	GG	AA
GG	TT	AA	CC	CC	CC	CC	CC	TT	CC	GG	GG	CC	AA	AA	GG	CC	TT	GG	GG	TT	CC	GG	TT	GG	GG	AA
GG	TT	AA	CC	CC	CC	CC	CC	TT	CC	GG	GG	CC	AA	AA	GG	CC	TT	GG	GG	TT	CC	GG	TT	GG	GG	AA
GG	TT	AA	CC	CC	CC	CC	CA	TT	CC	GG	GG	CC	AG	*AG*	*GT*	CC	TT	GA	GG	TT	CC	GA	TG	GG	GA	AG
GG	TT	AA	CC	*CC*	CC	CC	CC	TT	CC	GG	GG	CC	AA	*AA*	*GG*	CC	TT	GG	GG	TT	CC	GG	TT	GG	GG	AA
CG	TT	AA	TT	TC	CT	CC	CC	CT	CC	GA	GG	CC	*AA*	*AA*	*GG*	CC	TT	GG	GG	AT	CC	GG	TT	GG	GG	AA
GG	TT	AA	CT	CC	CT	CC	CC	TT	CC	GG	GG	CC	AA	AA	GG	CC	TT	GG	GG	TT	CC	GG	TT	GG	GG	AA
CG	TT	*AA*	*TT*	CC	CT	CC	CC	TT	CC	GG	GG	CC	*AA*	*AA*	*GG*	CC	TT	GG	GG	TT	CC	GG	TT	GG	GG	AA

19	19	19	19	19	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	20	20	20
35975494	35975525	35975547	35981928	35982587	4907095	4907407	4907813	4907975	4908208	4908242	4924920	4924999	4925039	4925077	4925103	4925169	4925429	4925446	4925506	4925595	4925635	4925805	4926101	7612282	7612309	7612494
rs1473254	rs1473255	**New**	**New**	rs16964640	rs10915296	rs6702058	rs6677619	rs7521565	**New**	**New**	rs3101219	rs3101220	rs3128678	rs3101221	rs7547299	rs3128679	rs3128680	rs74054014	**New**	**New**	rs3101223	**New**	rs3128681	rs6055253	**New**	**New**
19qMB35b	19qMB35b	19qMB35b	19qMB35c	19qMB35c	1pMB4a	1pMB4a	1pMB4a	1pMB4a	1pMB4a	1pMB4a	1pMB4c	1pMB4c	1pMB4c	1pMB4c	1pMB4c	1pMB4c	1pMB4c	1pMB4c	1pMB4c	1pMB4c	1pMB4c	1pMB4c	1pMB4c	20pMB7a	20pMB7a	20pMB7a
T	T	C	G	C	T	C	G	A	A	G	T	G	A	C	C	A	G	G	T	A	A	G	G	C	C	T
C	C	G	A	T	C	T	T	T	G	A	C	C	G	A	T	G	A	A	A	G	G	C	A	T	T	C
TT	*TT*	*CC*	GG	CC	*CT*	*TC*	*TG*	*AA*	*AA*	*GG*	*TT*	*GG*	*AG*	*CC*	*CC*	*AA*	*GG*	*GG*	*TT*	*AA*	*AA*	*GG*	*GG*	*CC*	*CC*	*TT*
TT	TT	CC	GG	CC	TC	CT	GT	TA	AA	GG	*TT*	*GG*	*GA*	*CC*	*TC*	*AA*	*GG*	*GG*	*TT*	*AA*	*AA*	*GG*	*GG*	*CC*	*CC*	*TT*
TT	TT	CC	GG	CC	*TT*	*CC*	*GG*	*AA*	*AA*	*GG*	TT	GG	GG	CC	CC	AA	GG	GG	TT	AA	AA	CG	GG	CT	CC	TT
TT	TT	CC	GG	CC	CC	TT	TT	AA	AA	GG	TT	GG	GA	CC	CC	AA	GG	GG	TT	AA	AA	GG	GG	CT	CC	TT
TC	TC	CC	GG	CC	TC	CT	GT	AA	AA	GG	TT	GG	AG	CC	CC	AA	GG	GG	TT	AA	AA	GG	GG	CT	CC	TT
TT	TT	CC	GG	CC	*TT*	*CC*	*GG*	*AA*	*AA*	*GG*	TT	GG	AA	CC	CC	AA	GG	GG	TT	AA	AA	GG	GG	CT	CC	TT
TC	TC	CC	GG	CC	TC	CT	GT	TA	AA	GG	TT	GG	GG	CC	TC	AA	GG	GG	TT	AA	AA	GG	GG	TT	CC	TT
TT	TT	CC	GG	CC	TT	CC	GG	AA	AA	GG	TT	GG	GG	*CC*	*CC*	AA	GG	GG	TT	AA	AA	GG	GG	CT	CC	TT
TC	TC	CC	GG	CC	TT	CC	GG	TA	AA	GG	TT	GG	GA	CC	*TC*	AA	GG	GG	TT	AA	AA	GG	GG	CC	CC	TT
TC	TC	CC	GG	CC	*TT*	CC	GG	AA	AA	GG	TT	GG	GA	CC	CC	AA	GG	GG	TT	AA	AA	GG	GG	CC	CC	TT
TC	TC	CC	GG	CC	TT	CC	TG	AT	AA	GG	TT	GG	AG	*CC*	*CT*	AA	GG	GG	TT	AA	AA	GG	GG	*CT*	*CC*	*TT*
TT	TT	CC	GG	CC	TC	CT	GT	AA	AA	GG	TT	GG	AA	*CC*	*CC*	AA	GG	GG	TT	AA	AA	GG	GG	CT	CC	TT
TT	TT	CC	GG	CC	TC	CT	GT	AA	AG	GG	TT	GG	AA	CC	CC	AA	GG	GG	TT	AA	AA	GG	GG	CT	CC	TT
TT	TT	CC	GG	CC	TT	CC	GG	TA	AA	GG	TT	GG	GA	CC	TC	AA	GG	GG	TT	AA	AA	GG	GG	CT	CC	TT
TC	TC	CC	GG	CC	TC	CT	GT	AA	AA	GG	TT	GG	AG	CC	CC	AA	GG	GG	TT	AA	AA	GG	GG	CC	CC	TT
TT	TT	CC	GG	CC	TT	CC	GG	AA	AA	GG	TT	GG	AA	CC	*CC*	AA	GG	GG	TT	AA	AA	GG	GG	CT	CC	TT
TC	TC	*CC*	GG	CC	TT	CC	GG	AA	AA	GG	TT	GG	AA	CC	*CC*	AA	GG	GG	TT	AA	AA	GG	GG	*CT*	*CC*	*TT*
TC	TC	CC	GG	CC	TC	CT	GT	AA	AA	GG	TT	GG	AA	*CC*	*CC*	AA	GG	GG	TT	AA	AA	GG	GG	CC	TC	TT
TT	TT	CC	GG	CC	TT	CC	GG	AA	AA	GG	TT	GG	AG	CC	CT	AA	GG	GG	TT	AA	AA	GG	GG	CT	CC	TT
TT	TT	CC	GG	CC	TT	CC	GG	AA	AA	GG	TT	GG	AA	CC	CC	AA	GG	GG	TT	AA	AA	GG	GG	CC	CC	TT
TT	TT	CC	GG	CC	TC	CT	GT	AA	AA	GG	TT	GG	AG	CC	CT	AA	GG	GG	TT	AA	AA	GG	GG	CT	CC	TT
TT	TT	CC	GG	CC	TT	CC	GG	AA	AA	GG	TT	GG	AA	CC	CC	AA	GG	GG	TT	AA	AA	GG	GG	CC	TC	TT
TT	TT	CC	GG	CC	TT	CC	GG	AA	AA	GG	TT	GG	AG	CC	CT	AA	GG	GG	TT	AA	AA	GG	GG	CT	CC	TT
TT	TT	CC	GG	CC	CT	TC	TG	AT	AA	GG	TT	GG	GG	CC	CT	AA	GG	GG	TT	AA	AA	GG	GG	CT	CC	TT
TC	TC	CC	GG	CC	*TC*	CT	*GT*	*TA*	*AA*	*GG*	TT	GG	GG	CC	CT	AA	AG	GG	TT	AA	AA	GG	GG	CT	CC	TT
TC	TC	CC	GG	CC	TT	CC	GG	AA	AA	GG	TT	GG	AA	CC	CC	AA	GG	GG	TT	AA	AA	GG	GG	CT	CC	TT
TT	TT	CC	GG	CC	TT	CC	GG	AA	AA	GG	TT	GG	AA	*CC*	*CT*	AA	GG	GG	TT	AA	AA	GG	GG	TT	CC	TT
TT	TT	CC	GG	CC	TT	CC	GG	AA	AA	GG	TT	GG	AA	CC	*CC*	AA	GG	GG	TT	AA	AA	GG	GG	CT	CC	TT
CC	CC	CC	GA	CC	TT	CC	GT	AT	AA	GG	TT	GG	GG	CC	TT	AA	GG	GG	TT	AA	AA	GG	GG	CT	CC	TT
TT	TT	CC	GG	CC	CT	TC	TG	AA	AA	GG	TT	GG	*GG*	*CC*	*TC*	AA	*GG*	GG	TT	AA	AA	GG	GG	CT	CC	TT
TT	TT	CC	GG	CC	TT	CC	GG	AA	AA	GG	TT	GG	GA	*CC*	*CC*	AA	GG	GG	TT	AA	AA	GG	GG	CT	CC	TT
TC	TC	CC	GA	CC	CT	TC	TG	AT	AA	GG	TT	GG	GG	CC	CT	AA	GG	GG	TT	AA	AA	GG	GG	CC	CC	TT
TT	TT	CC	GG	CC	CT	TC	TG	AA	AA	GG	TT	GG	GA	CC	TC	AA	GG	GG	AT	AA	AA	GG	GG	CT	CC	TT
TT	TT	CC	GG	CC	CT	TC	TG	AA	AA	GG	TT	GG	AA	CC	CC	AA	GG	GG	TT	AA	AA	GG	GG	CC	CC	TT
TT	TT	CC	GG	CC	TT	CC	GG	AA	AA	GG	TT	GG	GA	CC	CC	AA	GG	GG	TT	AA	AA	GG	GG	CT	CC	TT
TT	TT	CC	GG	CC	TT	CC	GG	AA	AA	GG	TT	GG	AA	CC	CC	AA	GG	GG	TT	AA	AA	GG	GG	TT	CC	TT
TT	TT	CC	GG	CC	CT	TC	TG	AA	AA	GG	TT	GG	GA	CC	*CC*	AA	GG	GG	TT	AA	AA	GG	GG	CC	CC	TT
TT	TT	CC	GG	CC	TT	CC	GG	TT	AA	GG	TT	GG	GG	*CC*	*CT*	AA	GG	GG	TT	AA	AA	GG	GG	TT	CC	TT
TT	TT	CC	GG	CC	TT	CC	GG	AA	AA	GG	TT	GG	GA	CC	TC	AA	GG	GG	TT	AA	AA	GG	GG	CT	CC	TT
TC	TC	CC	GG	CC	*TT*	CC	*GG*	AA	AA	GG	TT	GG	GG	CC	CC	AA	GG	GG	TT	AA	AA	GG	GG	CC	CC	TT
CC	CC	CC	GG	CC	CT	TC	TG	AA	AA	GG	TT	GG	*GG*	*CC*	*CC*	AA	GG	GG	TT	AA	AA	GG	GG	CC	CC	TT
TT	TC	CC	GG	CT	CT	TC	TG	AA	AA	GG	TT	GG	AA	*CC*	*CC*	AA	*GG*	GG	TT	AA	AA	GG	GG	CC	CC	TT
TC	TC	CC	GG	CC	*CT*	*TC*	*TG*	*AA*	*AA*	*GG*	TT	GG	GA	CC	TC	AA	GG	GG	TT	AA	AA	GG	GG	CT	CC	TT
TT	TT	CC	GG	CC	CC	TT	TT	AA	AA	GG	TT	GG	GG	CC	TC	AA	GG	GG	TT	AA	AA	GG	GG	CC	CC	TT
TT	TT	CC	GG	CC	TT	CC	GG	AT	AA	GG	TT	GG	AG	CC	CT	AA	GG	GG	TT	AA	AA	GG	GG	CC	CC	TT
TC	TC	CC	GG	CC	CC	TT	TT	AA	AA	GG	TT	GG	GG	CC	CC	AA	GG	GA	TT	AA	AA	GG	GG	CC	CC	TT
TT	TT	CC	GG	CC	CT	TC	TG	AA	AA	GG	TT	GG	GG	CC	TC	AA	GG	GG	TT	AA	AA	GG	GG	TT	CC	TT
TT	TT	CC	GG	CC	CT	TC	TG	AA	AA	GG	TT	GG	GG	CC	CC	AA	GG	GG	TT	AA	AA	GG	GG	CC	CC	TT
TC	CC	CC	GG	TC	CT	TC	TG	AA	AA	GG	TT	GG	GA	CC	TC	AA	GG	GG	TT	AA	AA	GG	GG	CC	CC	TT
TT	TC	CC	GG	CT	TC	CT	GT	AA	AA	GG	TT	GG	AG	*CC*	*CC*	AA	GG	GG	TT	AA	AA	GG	GG	CC	CC	TT
TT	TT	CG	GG	CC	CC	TT	TT	AA	AA	GG	TT	GG	AG	CC	*CC*	AA	GG	GG	TT	AA	AA	GG	GG	CC	CC	TT
TC	TC	CC	GG	CC	TT	CC	GG	AT	AA	GG	TT	GG	GA	CC	CC	AA	GG	GG	TT	AA	AA	GG	GG	CC	CC	TT
TT	TT	CC	GG	CC	CC	TT	TT	AA	AA	GG	TT	GG	GG	*CC*	*CC*	AA	GG	GG	TT	AA	AA	GG	GG	CT	CC	TT
TT	TT	CC	GG	CC	TC	CT	GT	AA	AA	GG	TT	GG	AA	*CC*	*CC*	AA	GG	GG	TT	AA	AA	GG	GG	CT	CC	TC
TT	TT	CC	GG	CC	TC	CT	GT	AA	AA	GG	TT	GG	AG	CC	CC	AA	GG	GG	TT	AA	AA	GG	GG	CC	CC	TT
TT	TT	CC	GG	CC	CC	TT	TT	AA	AA	GG	TT	GG	GG	CC	CC	AA	GG	GG	TT	AA	AA	GG	GG	TT	CC	TT
TT	TT	CC	GG	CC	TC	CT	GT	AA	AA	GG	TT	GG	AA	CC	CC	AA	GG	GG	TT	AA	AA	GG	GG	CC	CC	TT
TT	CT	CC	GG	TC	TC	CT	GT	AA	AA	GG	TT	GG	GG	CC	TC	AA	GG	GG	TT	AA	AA	GG	GG	TT	CC	TT
TT	TT	CC	GG	CC	TC	CT	GT	AA	AA	GG	TT	GG	AG	CC	CC	AA	GG	GG	TT	AA	AA	GG	GG	CT	CC	TT
TT	TT	CC	GG	CC	TC	CT	GT	AA	AA	GG	TT	GG	GG	CC	CC	AA	GG	GG	TT	AA	AA	GG	GG	CT	CC	TT
TT	TC	CC	GG	CT	CC	TT	TT	AA	AA	GG	TT	GG	AA	*CC*	*CC*	AA	GG	GG	TT	AA	AA	GG	GG	CC	CC	TT
TT	TT	CC	GG	CC	TC	CT	GT	AA	AA	GG	TT	GG	AA	*CC*	*CC*	AA	GG	GG	TT	AA	AA	GG	GG	CT	CC	TT
TC	*TC*	*CC*	*GG*	CC	TC	CT	GT	*AA*	AA	GG	*TT*	GG	*AG*	*CC*	*CC*	*AA*	*GG*	*GG*	TT	AA	AA	GG	GG	CT	CC	*TT*
TT	TT	CC	GG	CC	TC	CT	GT	AA	AA	GG	TT	GG	GG	CC	CC	AA	GG	GG	TT	AA	AA	GG	GG	CT	CC	TT
TT	TT	CC	GG	CC	TC	CT	GT	AA	AA	GG	TT	GG	AG	*CC*	*CC*	AA	GG	GG	TT	AA	AA	GG	GG	CT	CC	TT
CC	CC	CC	GG	CC	TT	CC	GG	AT	AA	GG	TT	GG	AA	*CC*	*CC*	AA	GG	GG	TT	AA	AA	GG	GG	CC	CC	TT
TC	TC	CC	GG	CC	CC	TT	TT	AA	AA	GG	TT	GG	GG	CC	CT	AA	GG	GG	TT	AA	AA	GG	GG	CC	CC	TT
TT	TT	CC	GG	CC	TC	CT	GT	AA	AA	GG	TT	GG	GG	CC	TT	AA	GG	GG	TT	AA	AA	GG	GG	CC	CC	TT
TT	TT	CC	GG	CC	TC	CT	GT	TA	AA	GG	CT	CG	GG	AC	TC	GA	AG	GG	TT	AA	GA	GG	AG	CC	CC	TT
TC	TC	CC	GG	CC	TC	CT	GT	AA	AA	GG	TT	GG	AG	CC	CC	AA	GG	GG	TT	AA	AA	GG	GG	CC	CC	TT
TT	TT	CC	GG	CC	TT	CC	GG	AA	AA	GG	TT	GG	AG	CC	CT	AA	GG	GG	TT	AA	AA	GG	GG	CC	CC	TT
CC	CC	CC	GG	CC	CC	TT	TT	AA	AA	GG	TT	GG	AG	CC	CC	AA	GG	GG	TT	AA	AA	GG	GG	CC	CC	TT
TT	TT	CC	GG	CC	TC	CT	GT	AA	AA	GA	TT	GG	GG	CC	*TT*	AA	GG	GG	TT	AA	AA	GG	GG	CT	CC	TT
TC	TC	CC	GG	CC	TT	CC	GG	AA	AA	GG	TT	GG	GG	*CC*	*TT*	AA	GG	GG	TT	AA	AA	GG	GG	CT	CC	TT
TC	TC	CC	GG	CC	TT	CC	GG	AT	AA	GG	TT	GG	GA	CC	*TC*	AA	GG	GG	TT	AA	AA	GG	GG	CC	CC	TT
TT	TT	CC	GG	CC	TC	CT	GT	AA	AA	GG	TT	GG	GG	CC	TT	AA	GG	GG	TT	AA	AA	GG	GG	CT	CC	TT
TT	TT	CC	GG	CC	TC	CT	GT	TA	AA	GG	TT	GG	AG	*CC*	*CC*	AA	GG	GG	TT	AA	AA	GG	GG	CT	CC	TT
TT	TT	CC	GG	CC	TC	CT	GT	AA	AA	GG	TT	GG	AA	*CC*	*CC*	AA	GG	GG	TT	AA	AA	GG	GG	CC	CC	TT
TT	TT	CC	GG	CC	TC	CT	GT	AA	AA	GG	*TT*	*GG*	*GG*	*CC*	*TC*	*AA*	*GG*	*GG*	*TT*	*AA*	*AA*	*GG*	*GG*	CC	CC	TT
TT	TT	CC	GG	CC	TC	CT	GT	AA	AA	GG	TT	GG	GA	CC	TC	AA	GG	GG	TT	AA	AA	GG	GG	CC	CC	TT
TT	TT	CC	GG	CC	TC	CT	GT	AA	AA	GG	TT	GG	GA	CC	TC	AA	GG	GG	TT	AA	AA	GG	GG	TT	CC	TT
TT	TT	CC	GG	CC	TT	CC	GG	AA	AA	GG	TT	GG	GG	CC	CT	AA	GG	GG	TT	AA	AA	GG	GG	*CC*	*CC*	*TT*
TT	TT	CC	GG	CC	CC	TT	TT	AA	AA	GG	TT	GG	AG	CC	CT	AA	GG	GG	TT	AA	AA	GG	GG	CC	CC	TT
TT	TT	CC	GG	CC	CC	TT	TT	AA	AA	GG	TT	GG	AG	CC	CC	AA	GG	GG	TT	AA	AA	GG	GG	CC	CC	TT
TC	TC	CC	GG	CC	CC	TT	TT	AA	AA	GG	TT	GG	GG	CC	*CT*	AA	GG	GG	TT	AA	AA	GG	GG	CT	CC	TT
TT	TT	CC	GG	CC	TT	CC	GG	AA	AA	GG	TT	GG	AG	*CC*	*CT*	AA	GG	GG	TT	GA	AA	GG	GG	TT	CC	TT
TT	TT	CC	GG	CC	TC	CT	GT	AA	AA	GG	TT	GG	GG	CC	*TT*	AA	GG	GA	TT	AA	AA	GG	GG	CC	CC	TT
TT	TT	CC	GG	CC	TT	CC	GG	AT	AA	GG	TT	GG	GA	CC	TC	AA	GG	GG	TT	AA	AA	GG	GG	CC	CC	TT
TT	TT	CC	GG	CC	TC	CT	GT	AA	AA	GG	TT	GG	GG	*CC*	*TT*	AA	GG	GG	TT	AA	AA	GG	GG	CT	CC	TT

20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	4	4	4	4	4	4	4
7612985	7613226	7613883	7613893	7614124	7614258	7620270	7620354	7620553	7620708	7621476	7621557	7621607	7621692	7621804	7621997	7622632	7631869	7632688	104975944	104976419	104976642	104976862	104976940	104977107	104983361
rs6140382	rs6038919	**New**	rs2206402	**New**	rs6055254	rs6038922	rs6038923	rs6133459	rs6055260	rs6086165	rs6038925	**New**	rs6038927	rs11698762	**New**	rs6140385	rs6117930	rs763927	**New**	**New**	rs36096554	rs6847777	rs9995008	**New**	rs10488856
20pMB7a	20pMB7a	20pMB7a	20pMB7a	20pMB7a	20pMB7a	20pMB7b	20pMB7b	20pMB7b	20pMB7b	20pMB7b	20pMB7b	20pMB7b	20pMB7b	20pMB7b	20pMB7b	20pMB7b	20pMB7c	20pMB7c	4qMb105a	4qMb105a	4qMb105a	4qMb105a	4qMb105a	4qMb105a	4qMb105b
A	A	C	T	G	A	A	A	C	A	A	A	G	T	G	A	T	A	C	C	C	T	A	G	A	A
G	G	A	C	A	C	C	G	T	G	T	C	A	C	C	G	C	G	T	A	T	C	G	A	G	G
AA	*AA*	*CC*	*TT*	*GG*	*AA*	*AA*	AA	CC	AA	AA	AA	GG	TT	GG	*AA*	TT	AA	CC	CC	CC	CC	GG	AA	GG	AA
AA	*GG*	*CC*	*CC*	*GG*	*CC*	CC	GG	TT	GG	TT	CC	GG	CC	GG	AA	CC	*AG*	*CC*	CC	CT	TT	GG	GA	AA	GA
AA	GG	CC	CT	GG	CC	CC	GG	TC	GG	TT	CC	GG	CC	GG	AA	CT	GG	CC	CC	CC	CT	GG	AG	AA	AG
AG	AG	CC	TT	GG	AC	AC	AG	CC	AG	AT	AC	GG	TC	GG	AA	TT	AG	CC	CC	CC	TT	GA	GG	AA	*GA*
AA	AG	CC	TT	GG	AC	AC	AG	CC	AG	AT	AC	GG	TC	GG	AA	TT	AG	CC	CC	CC	TT	GA	AG	AA	AA
AA	GG	AC	CT	GG	CC	CC	GG	TC	GG	TT	CC	GG	CC	GG	AA	CT	GG	CC	CC	CC	CT	GG	AG	AA	*AG*
AG	GG	CC	TT	GG	CC	CC	GG	CC	GG	TT	CC	GG	CC	GG	AA	TT	GG	CC	CC	CC	CT	GG	AG	AA	AG
AG	AG	CC	TT	GG	AC	AC	AG	CC	AG	AT	AC	GG	TC	GG	AA	TT	AG	CC	CC	CC	TT	GG	GG	AA	GG
AA	AA	CC	TT	GG	CA	AA	AA	CC	AA	AA	AA	GG	TT	CG	AA	TT	AA	TC	CC	CC	CT	GA	AG	GA	AA
AA	GA	CC	CT	GG	CA	CA	GA	TC	GA	TA	CA	GG	CT	GG	AA	CT	AA	CC	CC	CC	TT	GA	AG	AA	AA
AA	*GG*	*CC*	*CT*	*GG*	*CC*	CC	GG	TC	GG	TT	CC	GG	CC	GG	GA	CT	GG	CC	CC	CC	TT	GA	GG	AA	GA
AA	GG	CC	TT	GG	AC	AC	AG	CC	AG	AT	AC	GG	TC	GG	AA	TT	AG	CC	CC	CC	CC	GG	AA	AA	AG
AG	AG	CC	TT	GG	AC	AC	AG	CC	AG	AT	AC	GG	TC	GG	AA	TT	AG	CC	CC	CC	CT	GG	AG	AA	*AG*
AA	AG	CC	TT	GG	AC	AC	AG	CC	AG	AT	AC	GG	TC	GG	AA	TT	AG	CC	CC	CC	TT	GG	GG	AA	GG
AA	GA	CC	CT	GG	CA	CA	GA	TC	GA	TA	CA	GG	CT	GG	AA	CT	AA	CC	CC	CC	TT	GA	GG	AA	GA
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G	T	C	G	T	T	A	T	G	T	A	G	A	A	T	T	C	G	A	A	T	T	A	A	C	C	T	C
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GA	TG	CC	GG	TA	TG	AA	TT	GG	TT	AA	GG	AA	AA	TT	CC	TT	GG	AA	AT	TT	TT	AA	AG	CC	CC	TT	TT
GG	TT	CC	GG	TT	TT	AA	TT	GG	TT	AA	GG	AA	AA	TT	CC	TT	GG	GG	TT	TT	TT	AA	GG	CC	CC	TT	TT
GG	TT	CC	GG	TT	TT	AA	TT	GG	TT	AA	GG	AA	AA	TT	CC	TT	GG	AA	AT	TT	TT	AA	AG	CC	CC	TT	TT
GG	TT	CC	GG	TT	TT	AA	TT	GG	TT	AA	GG	AA	AA	TT	TC	CT	GG	AA	AT	TT	TT	AA	AG	CC	CC	TT	CT
GA	TG	CC	GG	TT	TT	AA	TT	GC	TT	AC	GG	AA	AG	TT	TC	CT	GG	AG	AT	TT	TT	AA	AG	CC	CC	TT	CT
AA	GG	*CC*	*GG*	TA	*TG*	AA	*TT*	CG	*TT*	*AA*	*GG*	*AA*	*GA*	*TT*	*CC*	*TT*	*GG*	*GA*	*TT*	*TT*	*TT*	*AA*	*GG*	*CC*	*CC*	*TT*	TT
AA	GG	CC	GG	TT	TT	AA	TT	CC	TT	AA	GC	AA	GG	TT	CC	TT	GG	GA	TA	TT	AT	AA	GA	CC	CC	TT	TC
AA	GG	CC	GG	TT	TT	AA	TT	CC	TT	AC	GG	GA	GG	AT	CC	TT	GG	GA	TT	TT	AT	AA	GG	CC	CC	TT	TT
AA	GG	CC	GG	TA	TG	AA	TT	CG	TT	CA	GG	AA	GA	TT	TC	CT	GG	AG	AT	TT	TA	AA	AG	CC	CC	TT	CT
GA	TG	CC	GG	TA	TG	AA	TT	GG	TT	AA	GG	AA	AA	TT	TC	CT	GG	AG	AT	TT	TT	AA	AG	CC	CC	TT	CT
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AA	GG	CC	GG	TT	TT	AA	TT	CC	TT	AC	GG	AA	GG	*TA*	CC	TT	GG	AG	TT	TT	TT	AA	GG	CC	CC	TT	TT
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GG	TT	CC	GG	TT	TT	AA	TT	GG	TT	AA	GG	AA	AA	TT	CC	TT	GG	AG	AT	TT	TT	AA	AG	CC	CC	TT	CT
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GG	TT	CC	GA	TT	TT	AA	TT	GG	TT	AA	GG	AA	AA	TT	*CC*	*TT*	*GG*	*AG*	*TT*	*TT*	*TT*	*AA*	*GG*	*CC*	*CC*	*TT*	TT
GG	TT	CC	GG	TT	TT	AA	TT	GG	TT	AC	GG	AA	AA	TT	CT	TC	GG	GA	TA	TT	TT	AA	GA	CC	CC	TT	TC
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AG	GT	CC	GG	TT	TT	AA	TT	CG	TG	AA	GG	AA	GA	TT	CC	TT	GT	GA	TA	TT	TT	AA	GA	CC	CC	TT	TC
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GG	TT	CC	GG	TT	TT	AA	TT	GG	TT	AC	GG	AA	AA	TT	CC	TT	GG	AA	AT	TT	TT	AA	GG	TC	TC	TT	CT
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AG	GT	CC	GG	TT	TT	AA	TT	CG	TT	CA	GG	AA	GA	AT	CC	TT	GG	AG	AT	TT	TA	AA	AG	CC	CC	TT	TT
GG	TT	CC	GA	TT	TT	AA	TT	GG	TT	AA	GG	AA	AA	TT	CT	TC	GG	GA	TA	TT	TT	AA	GA	CC	CC	TT	TC
AG	GT	CC	GG	AT	GT	AA	TT	GG	TT	CA	GG	AA	AA	TT	CT	TC	TG	AA	AA	TT	TT	AA	AA	CC	CC	TT	*CC*

4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5
181146943	181147144	181147305	181147751	181147919	181147969	181148013	181148253	181157607	181157795	181157922	181157992	181158006	181158085	181158287	181158527	181158536	181158539	181158796	10008081	10008269	10008838	10009068	10009290	10009338	10009411
New	**New**	**New**	rs62333137	rs13118806	rs13119011	rs17068534	rs13119493	rs7658855	**New**	rs4241714	rs4861826	rs17770627	rs4241715	rs10002789	rs6844865	rs6822110	rs13108127	rs9993602	**New**	**New**	rs11134386	rs56309783	rs16883903	rs16883905	**New**
4qMB181b	4qMB181b	4qMB181b	4qMB181b	4qMB181b	4qMB181b	4qMB181b	4qMB181b	4qMB181c	4qMB181c	4qMB181c	4qMB181c	4qMB181c	4qMB181c	4qMB181c	4qMB181c	4qMB181c	4qMB181c	4qMB181c	5pMB10a	5pMB10a	5pMB10a	5pMB10a	5pMB10a	5pMB10a	5pMB10a
G	G	A	C	A	C	G	A	T	G	G	A	C	C	T	A	T	C	C	A	G	C	T	G	C	T
A	A	C	T	G	T	A	G	C	T	C	C	A	T	A	T	C	T	T	G	A	G	A	A	T	C
GG	**GG**	**AA**	**CC**	**AA**	**CC**	**GG**	**AA**	**TC**	**GG**	**CC**	**CA**	**CC**	**TT**	**AA**	**AA**	**CC**	**CC**	**CT**	**AA**	**GG**	**CC**	**TT**	**GG**	**CC**	**TT**
GG	**GG**	**AA**	**CC**	**AA**	**CC**	**GG**	**AA**	**TT**	**GG**	**CC**	**AA**	**AA**	**TT**	**AA**	**TT**	**CC**	**CC**	**CC**	**AA**	**GG**	**GG**	**TT**	**GG**	**CC**	**TT**
GG	**GG**	**AA**	**CC**	**AA**	**CC**	**GG**	**AA**	**CT**	**GG**	**CC**	**AC**	**CC**	**TT**	**AA**	**AA**	**CC**	**CC**	**TC**	*AA*	*GG*	**CC**	**TT**	**GG**	**CC**	**TT**
GG	**GG**	**AA**	**CC**	**AA**	**CC**	**GG**	**AA**	*TC*	*GG*	*CC*	*AA*	*CC*	*TT*	*AA*	*AA*	*CC*	*CC*	*CT*	**AA**	**GG**	**CC**	**TT**	**GG**	**CC**	**TT**
GG	**GG**	**AA**	**CC**	**AA**	**CC**	**GG**	**AA**	**CC**	**GG**	**CC**	**AA**	**CC**	**TT**	**AA**	**AA**	**CC**	**CC**	**TT**	**AA**	**GG**	**CC**	**TA**	**GA**	**CT**	**TT**
GG	**GG**	**AA**	**CC**	**AA**	**CC**	**GG**	**GA**	**TC**	**GG**	**CC**	**AA**	**CC**	**TT**	**AA**	**AA**	**CC**	**TC**	**CT**	**AA**	**GG**	**CG**	**TT**	**GG**	**CC**	**TT**
GG	**GG**	**AA**	**CC**	**AA**	**CC**	**GG**	**AA**	**CC**	**GG**	**CC**	**AA**	**CC**	**TT**	**AA**	**AA**	**CC**	**CC**	**TT**	**AA**	**GG**	**CC**	**TA**	**GA**	**CT**	**TT**
GG	**GG**	**AA**	**CC**	**AA**	**CC**	**GG**	**AA**	**TC**	**GG**	**CC**	**AA**	**AC**	**TT**	**AA**	**TA**	**CC**	**CC**	**CT**	**AA**	*GG*	**CC**	**TT**	**GG**	**CC**	**TT**
GG	**GG**	**AA**	**CT**	**AA**	**CC**	**GG**	**AG**	**CT**	**GG**	**CC**	**AA**	**CC**	**TT**	**AA**	**AA**	**CC**	**CT**	**TC**	**AA**	**GG**	**CC**	**TT**	**GG**	**CC**	**TT**
GG	**GG**	**AA**	**CC**	**AA**	**CC**	**GG**	**AA**	**CT**	**GG**	**CC**	**AA**	**CA**	**TT**	**AA**	**AT**	**CC**	**CC**	**TC**	**AA**	**GG**	**CG**	**TT**	**GG**	**CC**	**TT**
GG	**GG**	**AA**	**CC**	**AA**	**CC**	**GG**	**AA**	**CC**	**GG**	**CC**	**AA**	**CC**	**TT**	**AA**	**AA**	**CC**	**CC**	**TT**	**AA**	**GG**	**CC**	**TT**	**GG**	**CC**	**TT**
GG	**GG**	**AA**	**CC**	**AA**	**CC**	**GG**	**AA**	**CC**	**GG**	**CC**	**AA**	**CC**	**TT**	**AA**	**AA**	**CC**	**CC**	**TT**	**AA**	**GG**	**GG**	**TT**	**GG**	**CC**	**TT**
GG	**GG**	**AA**	**CC**	**AA**	**CT**	**GG**	**AA**	**TT**	**GG**	**CC**	**CA**	**CA**	**TT**	**AA**	**AT**	**CC**	**CC**	**CC**	**AA**	**GG**	**CC**	**TT**	**GG**	**CC**	**TT**
GG	**GG**	**AA**	**CT**	**AA**	**CC**	**GG**	**AG**	**CT**	**GG**	**CC**	**AA**	**CC**	**TT**	**AA**	**AA**	**CC**	**CT**	**TC**	**AA**	**GG**	**CC**	**TT**	**GG**	**CC**	**TT**
GG	**GG**	**AA**	**CC**	**AA**	**CC**	**GG**	**AA**	**TC**	**GG**	**CC**	**CA**	**CC**	**TT**	**AA**	**AA**	**CC**	**CC**	**CT**	**AA**	**GG**	**CC**	**TT**	**GG**	**CC**	**TT**
GG	**GG**	**AA**	**CC**	**AA**	**CC**	**GG**	**AG**	**TT**	**GG**	**CC**	**AA**	**AC**	**TT**	**AA**	**TA**	**CC**	**CT**	**CC**	**AA**	**GG**	**CC**	**TT**	**GG**	**CC**	**TT**
GG	**GG**	**AA**	**CC**	**AA**	**CC**	**GG**	**AA**	**TC**	**GG**	**CC**	**AA**	**CC**	**TT**	**TT**	**AA**	**TC**	**CC**	**CT**	**AA**	**GG**	**CC**	**TT**	**GG**	**CC**	**TT**
GG	**GG**	**AA**	**CC**	**AA**	**CC**	**GG**	**AA**	**TT**	**GT**	**CC**	**AA**	**AA**	**TT**	**AA**	**TT**	**CC**	**CC**	**CC**	**AA**	**GG**	**CC**	**TT**	**GG**	**CC**	**TT**
GG	*GG*	*AA*	*CC*	*AA*	*CC*	*GG*	*AA*	**TC**	**GG**	**CC**	**CA**	**CC**	**TT**	**AA**	**AA**	**CC**	**CC**	**CT**	**AA**	**GG**	**CC**	**TT**	**GG**	**CC**	**TT**
GG	**GG**	**AA**	**CC**	**AA**	**CC**	**GG**	**AA**	**TT**	**GG**	**CC**	**CA**	**CA**	**TT**	**AA**	**AT**	**CC**	**CC**	**CC**	**AA**	**GG**	**CC**	**TT**	**GG**	**CC**	**TT**
GG	**GG**	**AA**	**CC**	**AA**	**CC**	**GG**	**AA**	**TT**	**GG**	**CC**	**CA**	**CA**	**TT**	**AA**	**AT**	**CC**	**CC**	**CC**	**AA**	**GG**	**GG**	**TT**	**GG**	**CC**	**TT**
GG	**GG**	**AA**	**CC**	**AA**	**CC**	**GG**	**AA**	**CC**	**GG**	**CC**	**AA**	**CC**	**TT**	**AA**	**AA**	**CC**	**CC**	**TT**	**AA**	**GG**	**CC**	**TT**	**GG**	**CC**	**TT**
GG	**GG**	**AA**	**CC**	**AA**	**CC**	**GG**	**AA**	**CT**	**GG**	**CC**	**AA**	**CA**	**TT**	**TA**	**AT**	**CC**	**CC**	**TC**	**AA**	**GG**	**CC**	**TT**	**GG**	**CC**	**TT**
GG	**GG**	**AA**	**CC**	**AA**	**CC**	**GG**	**AA**	**TC**	**GG**	**CC**	**CA**	**CC**	**TT**	**AA**	**TA**	**CC**	**CC**	**CT**	**AA**	**GG**	**CG**	**TT**	**GG**	**CC**	**TT**
GG	**GG**	**AA**	**CC**	**AA**	**CC**	**GG**	**GA**	**TC**	**GG**	**CC**	**AA**	**CC**	**TT**	**AA**	**AA**	**CC**	**TC**	**CT**	**AA**	**GG**	**GG**	**TT**	**GG**	**CC**	**TT**
GG	**GG**	**AA**	**CC**	**AA**	**CC**	**GG**	**GA**	**TT**	**GG**	**CC**	**AA**	**CA**	**TT**	**AA**	**AT**	**CC**	**TC**	**CC**	**AA**	**GG**	**CG**	**TT**	**GG**	**CC**	**TT**
GG	**GG**	**AA**	**CC**	**AA**	**CC**	**GG**	**AA**	**TT**	**GG**	**CC**	**CA**	**CA**	**TT**	**AA**	**AT**	**CC**	**CC**	**CC**	**AA**	**GG**	**CG**	**TT**	**GG**	**CC**	**TT**
GG	**GG**	**AA**	**CC**	**AA**	**CC**	**GG**	**AA**	**CC**	**GG**	**CC**	**AA**	**CC**	**TT**	**AA**	**AA**	**CC**	**CC**	**TT**	**AA**	**GG**	**CC**	**TT**	**GG**	**CC**	**TT**
GG	**GG**	**AA**	**CC**	**AA**	**CC**	**GG**	**AA**	**TC**	**GG**	**CC**	**CA**	**CC**	**TT**	**AA**	**AA**	**CC**	**CC**	**CT**	**AA**	**GG**	**CG**	**TT**	**GG**	**CC**	**TT**
GG	**GG**	**AA**	**CC**	**AA**	**CC**	**GG**	**AA**	**TT**	**GG**	**CG**	**CA**	**CC**	**TC**	**AT**	**AA**	**CT**	**CC**	**CC**	**AA**	**GG**	**CC**	**TT**	**GG**	**CC**	**TT**
GG	**GG**	**AA**	**CT**	**AA**	**CC**	**AG**	**AA**	**TT**	**GG**	**CC**	**AA**	**CA**	**TT**	**AA**	**AT**	**CC**	**CC**	**CC**	**AA**	**GG**	**CG**	**TT**	**GG**	**CC**	**TT**
GG	**AG**	**AA**	**CT**	**AA**	**CC**	**AG**	**GA**	**TC**	**GG**	**CC**	**AA**	**CC**	**TT**	**AA**	**AA**	**CC**	**TC**	**CT**	*AA*	*GG*	*CC*	*TT*	*GG*	*CC*	*TT*
GG	**GG**	**AA**	**CC**	**AA**	**CC**	**GG**	**AA**	**TC**	**GG**	**CC**	**CA**	**CC**	**TT**	**AA**	**AA**	**CC**	**CC**	**CT**	**AA**	*GG*	**CC**	**TT**	**GG**	**CC**	**TT**
GG	**GG**	**AA**	**CC**	**AA**	**CC**	**GG**	**AA**	**CT**	**GG**	**CC**	**AC**	**CC**	**TT**	**AA**	**AA**	**CC**	**CC**	**TC**	**AA**	**GG**	**CG**	**TT**	**GG**	**CC**	**TT**
GG	**GG**	**AA**	**CT**	**GA**	**TC**	**GG**	**AA**	**TC**	**GG**	**CC**	**CA**	**CC**	**TT**	**AA**	**AA**	**CC**	**CC**	**CT**	**AA**	**GG**	**CG**	**TT**	**GG**	**CC**	**TT**
GG	**GG**	**AA**	**CC**	**GA**	**CC**	**GG**	**AA**	**CT**	**GG**	**CC**	**AC**	**CC**	**TT**	**AA**	**AA**	**CC**	**CC**	**TC**	**AA**	**GG**	**GG**	**TT**	**GG**	**CC**	**TT**
GG	**GG**	**AA**	**CC**	**AA**	**CC**	**GG**	**AA**	**TC**	**GG**	**CC**	**AA**	**AC**	**TT**	**AA**	**TA**	**CC**	**CC**	**CT**	**AA**	**GG**	**GG**	**TT**	**GG**	**CC**	**TT**
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GG	**GG**	**AA**	**CC**	**AA**	**CT**	**GG**	**AA**	**TT**	**GG**	**CC**	**AA**	**AA**	**TT**	**AA**	**TT**	**CC**	**CC**	**CC**	**AA**	**GG**	**CC**	**TA**	**GA**	**CT**	**TT**
GG	**GG**	**AA**	**CT**	**AA**	**CC**	**GG**	**AA**	**TC**	**GG**	**CC**	**AA**	**AC**	**TT**	**AA**	**TA**	**CC**	**CC**	**CT**	*AA*	*GG*	*CG*	*AT*	*GG*	*TC*	*TT*
GG	**GG**	**AA**	**CT**	**AA**	**CC**	**GG**	**AA**	**CC**	**GG**	**CC**	**AA**	**CC**	**TT**	**AA**	**AA**	**CC**	**CC**	**TT**	**AA**	**GG**	**CG**	**TT**	**GG**	**CC**	**TT**
GG	**GG**	**AA**	**CC**	**AA**	**CC**	**GG**	**AA**	**TT**	**GG**	**CC**	**AC**	**AC**	**TT**	**AA**	**TA**	**CC**	**CC**	**CC**	**AA**	**GG**	**CG**	**AT**	**GG**	**TC**	**TT**
GG	**GG**	**AA**	**CC**	**AA**	**CC**	**GG**	**AA**	**TC**	**GG**	**CC**	**AA**	**AC**	**TT**	**AA**	**TA**	**CC**	**CC**	**CT**	**AA**	**GG**	**CC**	**TA**	**GA**	**CT**	**TT**
GG	**GG**	**AA**	**CC**	**AA**	**CC**	**GG**	**AA**	**CT**	**GG**	**CG**	**AA**	**CC**	**TC**	**AT**	**AA**	**CT**	**CC**	**TC**	*AA*	*GG*	**CG**	**TT**	**GG**	**CC**	**TT**
GG	**GG**	**AA**	**CC**	**AA**	**CT**	**AG**	**AA**	**TT**	**GG**	**CC**	**AA**	**CA**	**TT**	**AA**	**AT**	**CC**	**CC**	**CC**	**AA**	**GG**	**CG**	**TT**	**GG**	**CC**	**TT**
GG	**GG**	**AA**	**CC**	**AA**	**CT**	**GG**	**AA**	**TT**	**GG**	**CC**	**AA**	**AA**	**TT**	**AA**	**TT**	**CC**	**CC**	**CC**	*AA*	*GG*	**CC**	*TT*	**GG**	**CC**	**TT**
GG	**GG**	**AA**	**CT**	**GA**	**CC**	**GG**	**AA**	**TC**	**GG**	**CC**	**AA**	**AC**	**TT**	**AA**	**TA**	**CC**	**CC**	**CT**	**AA**	**GG**	**CG**	**TT**	**GG**	**CC**	**TT**
GG	**GG**	**AA**	**CC**	**AA**	**CC**	**GG**	**AA**	**TT**	**GG**	**CG**	**AA**	**AC**	**TC**	**AT**	**TA**	**CT**	**CC**	**CC**	**AA**	**GG**	**CG**	**TT**	**GG**	**CC**	**TT**
GG	**GG**	**AA**	**CC**	**AA**	**CC**	**GG**	**AA**	**TT**	**GG**	**CG**	**AA**	**AC**	**TC**	**AT**	**TA**	**CT**	**CC**	**CC**	**AA**	**GG**	**CC**	**TT**	**GG**	**CC**	**TT**
GG	**GG**	**AA**	**CT**	**AA**	**TC**	**GG**	**AA**	**CC**	**GG**	**CC**	**AA**	**CC**	**TT**	**AA**	**AA**	**CC**	**CC**	**TT**	**AA**	**GG**	**GG**	**TT**	**GG**	**CC**	**TT**
GG	**GG**	**AA**	**CC**	**AA**	**CC**	**GG**	**AA**	**CT**	**GG**	**CC**	**AC**	**CC**	**TT**	**AA**	**AA**	**CC**	**CC**	**TC**	**AA**	**GG**	**GC**	**TT**	**GG**	**CC**	**TT**
GG	**GG**	**AA**	**CC**	**AG**	**CT**	**GG**	**AA**	**TT**	**GG**	**CC**	**AC**	**AC**	**TT**	**AA**	**TA**	**CC**	**CC**	**CC**	**AA**	**GG**	**GC**	**TT**	**GG**	**CC**	**TT**
GG	**GG**	**AC**	**TC**	**AA**	**CC**	**GA**	**AG**	**CT**	**GG**	**CC**	**AA**	**CC**	**TT**	**AT**	**AA**	**CT**	**CC**	**TC**	**AA**	**GG**	**GC**	**TT**	**GG**	**CC**	**CT**
GG	**GG**	**AA**	**CC**	**AA**	**CC**	**GG**	**AG**	**CT**	**GG**	**CC**	**AA**	**CC**	**TT**	**AA**	**AA**	**CC**	**CT**	**TC**	**AA**	**GG**	**CC**	**TT**	**GG**	**CC**	**TT**
GG	**GG**	**AA**	**CC**	**AG**	*CT*	**GG**	*AA*	**CT**	**GG**	**CC**	**AC**	**CC**	**TT**	**AA**	**AA**	**CC**	**CC**	**TC**	**AA**	**GG**	**GC**	**TT**	**GG**	**CC**	**TT**
GG	**GG**	**AA**	**CC**	**AA**	**CC**	**GG**	**AA**	**TT**	**GG**	**CC**	**AA**	**AA**	**TT**	**AA**	**TT**	**CC**	**CC**	**CC**	**AA**	**GG**	**CC**	**TT**	**GG**	**CC**	**TT**
GG	**GG**	**AA**	**CC**	**AA**	**CC**	**GG**	**AA**	**CT**	**GG**	**CC**	**CC**	**CC**	**TT**	**AA**	**AA**	**CC**	**CC**	**CC**	**AA**	**GG**	**GG**	**TT**	**GG**	**CC**	**TT**
AG	**GG**	**AA**	**CC**	**AG**	**CT**	**GG**	**AA**	**TT**	**GG**	**CC**	**CC**	**CC**	**TT**	**AA**	**AA**	**CC**	**CC**	**CC**	**AA**	**GG**	**GC**	**TT**	**GG**	**CC**	**TT**
GG	**GG**	**AA**	**CC**	**AA**	**CC**	**GG**	**AA**	**CC**	**GG**	**CC**	**AA**	**CC**	**TT**	**AA**	**AA**	**CC**	**CC**	**TT**	**AA**	**GG**	**GG**	**TT**	**GG**	**CC**	**TT**
GG	**GG**	**AA**	**CC**	**AA**	**TC**	**AG**	**AA**	**TC**	**GG**	**CC**	**AA**	**CC**	**TT**	**AA**	**AA**	**CC**	**CC**	**CT**	**AA**	**GG**	**GC**	**TT**	**GG**	**CC**	**TT**
GG	**GG**	**AA**	**CC**	**AA**	**CC**	**GG**	**AA**	**TT**	**GG**	**CC**	**AC**	**AC**	**TT**	**AA**	**TA**	**CC**	**CC**	**CC**	**AA**	**GG**	**GC**	**TT**	**GG**	**CC**	**TT**
GG	**GG**	**AA**	**CC**	**AA**	**CC**	**GG**	**AA**	**TT**	**GG**	**CG**	**AA**	**AC**	**TC**	**AT**	**TA**	**CT**	**CC**	**CC**	**AA**	**GG**	**GC**	**TT**	**GG**	**CC**	**TT**
GG	**GG**	**AA**	*CC*	**AA**	**CC**	**GG**	**AA**	*CC*	**GG**	**CC**	**AA**	**CC**	**TT**	**AA**	**AA**	**CC**	**CC**	**TT**	**AA**	**GG**	**GC**	**TT**	**GG**	**CC**	**TT**
GG	**GG**	**AA**	**TC**	**AA**	**CC**	**GG**	**AA**	**CT**	**GG**	**CG**	**AA**	**CC**	**TC**	**AT**	**AA**	**CT**	**CC**	**TC**	**AA**	**GG**	**CC**	**TA**	**GA**	**CT**	**TT**
GG	**GG**	**AA**	**TC**	**AA**	**CC**	**GG**	**AA**	**CC**	**GG**	**CC**	**AA**	**CC**	**TT**	**AA**	**AA**	**CC**	**CC**	**TT**	**AA**	**GG**	**CC**	**TT**	**GG**	**CC**	**TT**
GG	**GG**	**AA**	**TT**	**AA**	**CC**	**GG**	**AA**	**CC**	**GG**	**CC**	**AA**	**CC**	**TT**	**AA**	**AA**	**CC**	**CC**	**TT**	**AA**	**GA**	**CC**	**AT**	**AG**	**TC**	**TT**
GG	**GG**	**AA**	**CC**	**AA**	**CC**	**GG**	**AA**	**TT**	**GG**	**CC**	**AA**	**AA**	**TT**	**AA**	**TT**	**CC**	**CC**	**CC**	**AA**	**GG**	**GC**	**TT**	**GG**	**CC**	**TT**
GG	**GG**	**AA**	**TC**	**AA**	**CC**	**GG**	**AA**	**CT**	**GG**	**CC**	**AC**	**CC**	**TT**	**AA**	**AA**	**CC**	**CC**	**TC**	**AA**	**GG**	**CC**	**TA**	**GA**	**CT**	**TT**
GG	**GG**	**AA**	**CC**	**AA**	**CC**	**GG**	**AA**	**CC**	**GG**	**CC**	**AA**	**CC**	**TT**	**AA**	**AA**	**CC**	**CC**	**TT**	**AA**	**GG**	**GC**	**TT**	**GG**	**CC**	**TT**
GG	**GG**	**AA**	**CC**	**AA**	**CC**	**GG**	**AA**	**TC**	**GG**	**CC**	**CA**	**CC**	**TT**	**AA**	**AA**	**CC**	**CC**	**CT**	**AA**	**GG**	**CC**	**TT**	**GG**	**CC**	**TT**
GG	**GG**	**AA**	**CC**	**AA**	**CC**	**GG**	**AA**	**TT**	**GG**	**CC**	**CC**	**CC**	**TT**	**AA**	**AA**	**CC**	**CC**	**CC**	**AA**	**GG**	**CC**	**TA**	**GA**	**CT**	**TT**
GG	**GG**	**AA**	**CC**	**AA**	**CC**	**GG**	**AA**	**CT**	**GG**	**CC**	**AA**	**CA**	**TT**	**AA**	**AT**	**CC**	**CC**	**TC**	**AG**	*GG*	**CC**	**TT**	**GG**	**CC**	**TT**
GG	**GG**	**AA**	**CC**	**AA**	**CC**	**GG**	**AA**	**TC**	**GG**	**GC**	**AA**	**CC**	**CT**	**TA**	**AA**	**TC**	**CC**	**CT**	**AG**	**GG**	**CC**	**AT**	**AG**	**TC**	**TT**
GG	**GG**	**AA**	**CC**	**AA**	**CC**	**GG**	**AA**	**TC**	**GG**	**CC**	**AA**	**CC**	**TT**	**TA**	**AA**	**TC**	**CC**	**CT**	**AA**	**GG**	**CG**	**AT**	**AG**	**TC**	**TT**
GG	**AG**	**AA**	**TC**	**AG**	**CT**	**AA**	**AA**	**TT**	**GG**	**CC**	**CC**	**CC**	**TT**	**AA**	**AA**	**CC**	**CC**	**CC**	**AA**	**GG**	**CG**	**TT**	**GG**	**CC**	**TT**
GG	**GG**	**AA**	**CT**	**AA**	**CC**	**GG**	**AA**	**CC**	**GG**	**CC**	**AA**	**CC**	**TT**	**AA**	**AA**	**CC**	**CC**	**TT**	**AA**	**GG**	**CC**	**TT**	**GG**	**CC**	**TT**
GG	**GG**	**AA**	**CC**	**AG**	**CC**	**GG**	**AA**	**CC**	**GG**	**CC**	**AA**	**CC**	**TT**	**AA**	**AA**	**CC**	**CC**	**TT**	**AA**	**GG**	**CC**	**TA**	**GA**	**CT**	**TT**
GG	**GG**	**AA**	**CC**	**AA**	**CC**	**GG**	**AA**	**CT**	**GG**	**CC**	**AA**	**CA**	**TT**	**AA**	**AT**	**CC**	**CC**	**TC**	**AA**	**GG**	**CG**	**TT**	**GG**	**CC**	**TT**
GG	**GG**	**AA**	**CC**	**AA**	**CC**	**GG**	**AA**	**TT**	**GG**	**CC**	**CC**	**CC**	**TT**	**AA**	**AA**	**CC**	**CC**	**CC**	**AA**	**GG**	**CC**	**TT**	**GG**	**CC**	**TT**
GG	**GG**	**AA**	**CC**	**AA**	**CC**	**GG**	**AA**	**TT**	**GG**	**CC**	**CA**	**CA**	**TT**	**AA**	**AT**	**CC**	**CC**	**CC**	**AA**	**GG**	**CG**	**AT**	**AG**	**TC**	**TT**
GG	**GG**	**AA**	**CC**	**AG**	**CC**	**GG**	**AA**	**CC**	**GG**	**CC**	**AA**	**CC**	**TT**	**AA**	**AA**	**CC**	**CC**	**TT**	**AA**	**GG**	**CG**	**TT**	**GG**	**CC**	**TT**
GG	**GG**	**AA**	**CC**	**AA**	**CC**	**GG**	**AA**	**TT**	**GG**	**CG**	**AA**	**CC**	**TC**	**TT**	**AA**	**TT**	**CC**	**CC**	**AA**	**GG**	**CC**	**TT**	**GG**	**CC**	**TT**
GG	**GG**	**AA**	**CC**	**AA**	**CC**	**GG**	**AA**	**CT**	**GG**	**CC**	**AA**	**CA**	**TT**	**AA**	**AT**	**CC**	**CC**	**TC**	**AA**	**GG**	**CG**	**TT**	**GG**	**CC**	**TT**
GG	**AG**	**AA**	**TC**	**AA**	**CC**	**AG**	**AA**	**TC**	**GG**	**CC**	**CA**	**CC**	**TT**	**AA**	**AA**	**CC**	**CC**	**CT**	**AA**	**GG**	**CG**	**TT**	**GG**	**CC**	**TT**
GG	**GG**	**AA**	**CC**	**AA**	**CC**	**GG**	**AA**	**CT**	**GG**	**CC**	**AC**	**CC**	**TT**	**AA**	**AA**	**CC**	**CC**	**TC**	**AA**	**GG**	**CC**	**AA**	**AA**	**TT**	**TT**
GG	**GG**	**AA**	**CC**	**AA**	**CC**	**GG**	**AA**	**TC**	**GG**	**CC**	**CA**	**CC**	**TT**	**AA**	**AA**	**CC**	**CC**	**CT**	**AA**	**GG**	**CC**	**TA**	**GA**	**CT**	**TT**
GG	**GG**	**AA**	**CT**	**GA**	**CC**	**AG**	**AA**	**TC**	**GG**	**CC**	**AA**	**CC**	**TT**	**AA**	**AA**	**CC**	**CC**	**CT**	**AA**	**GG**	**CG**	**TT**	**GG**	**CC**	**TT**
GG	**GG**	**AA**	**CC**	**AA**	**CC**	**GG**	**AA**	**CC**	**GG**	**CC**	**AA**	**CC**	**TT**	**AA**	**AA**	**CC**	**CC**	**TT**	**AA**	**GG**	**CG**	**TT**	**GG**	**CC**	**TT**
GG	*GG*	*AA*	*CC*	*AA*	*CC*	*GG*	*AA*	**TT**	**GG**	**CC**	**AC**	**AC**	**TT**	**AA**	**TA**	**CC**	**CC**	**CC**	**AA**	**GG**	**CC**	**TT**	**GG**	**CC**	**TT**

5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
10009583	10009601	10028860	10029128	10029418	10029959	10030148	10030284	10030415	10030421	10030436	10030875	10030876	10030958	10030993	10031150	10031292	10031412	10031456	10031638	10031908	10031955	10032063	10032072	10032084	10032125	4365784
rs2963879	rs10065959	rs38086	rs38085	**New**	rs38084	**New**	**New**	**New**	rs40234	rs38083	**New**	**New**	rs38082	rs38081	rs17789005	rs43224	rs39736	rs38080	rs38079	rs38077	**New**	**New**	rs38076	rs553169	rs40233	**New**
5pMB10a	5pMB10a	5pMB10c	5pMB10c	5pMB10c	5pMB10c	5pMB10c	5pMB10c	5pMB10c	5pMB10c	5pMB10c	5pMB10c	5pMB10c	5pMB10c	5pMB10c	5pMB10c	5pMB10c	5pMB10c	5pMB10c	5pMB10c	5pMB10c	5pMB10c	5pMB10c	5pMB10c	5pMB10c	5pMB10c	5pMB4a
A	G	A	T	A	T	T	A	T	C	A	A	G	C	C	C	G	A	C	G	G	T	C	C	T	A	A
C	A	G	C	C	C	C	G	A	T	G	T	T	A	T	T	A	G	T	A	A	C	T	T	C	G	G
CC	GG	AA	TT	AA	TT	TT	AA	TT	CC	AA	AA	GG	CC	CC	CC	GG	AA	CC	GG	GG	TT	CC	CC	TT	AA	AA
AA	AA	GG	CC	AA	CC	TT	AA	TT	TT	GG	AA	GG	AA	TT	TT	GG	AA	TT	GG	GG	TT	CC	TT	TT	GG	AA
CC	*GG*	AA	TT	AA	TT	TT	AA	TT	CC	AA	AA	GG	CC	CC	CC	GG	AA	CC	GG	GG	TT	CC	CC	TT	AA	AA
CC	GG	GG	TT	AA	CC	TT	AA	TT	TT	GG	AA	GG	AA	CC	CC	AA	AA	TT	AA	AA	TT	CC	TT	CC	GG	AA
CC	*GG*	AA	TT	AA	TT	TT	AA	TT	CC	AA	AA	GG	CC	CC	CC	GG	AA	CT	GG	GG	TT	CC	CC	TC	AA	AA
CA	GA	AG	TT	AA	TT	TT	AA	TT	CC	AA	AA	GG	CC	CC	CC	GG	AA	CT	GG	GG	TT	CC	CC	TC	AA	AA
CC	GG	GG	TT	AA	CT	TT	AA	TT	TC	GA	AA	GG	AC	CC	CC	AG	AA	TT	AG	AG	TT	CC	TC	CC	GA	AA
CC	*GG*	GG	TC	AA	CC	TT	AA	TT	TT	GG	AA	GG	AA	CT	CC	AA	AG	TT	AA	AA	TT	CC	TT	CC	GG	AA
CC	GG	GG	TT	AA	CC	TT	AA	TA	TT	GG	AA	GG	AA	CC	CC	AA	AA	TT	AA	AA	TT	CC	TT	CC	GG	AA
CA	GA	GG	TT	AA	CT	TT	AA	TT	TC	GA	AA	GG	AC	CC	CC	AG	AA	TT	AG	AG	TT	CC	TC	CC	GA	AA
CC	GG	GG	TC	AA	CC	TT	AA	TT	TT	GG	AA	GG	AA	CT	CC	AA	AG	TT	AA	AA	TT	CC	TT	CC	GG	AA
AA	AA	AG	TC	AA	TC	TT	AA	*TT*	*CT*	*AG*	AA	GG	CA	CT	CC	GA	AG	CT	GA	*GA*	TT	CC	CT	TC	AG	AA
CC	GG	AG	TC	AA	TC	TT	AA	TT	CT	AG	AA	GG	CA	CT	CC	GA	AG	CT	GA	GA	TT	CC	CT	TC	AG	AA
CC	GG	AG	TC	AA	TC	TT	AA	TT	CT	AG	AA	GG	CA	CT	CC	GA	AG	CT	GA	GA	TT	CC	CT	TC	AG	AA
CC	*GG*	AG	TT	AA	TC	TT	GA	TT	CT	AG	AA	GG	CA	CC	CC	GA	AA	CT	GA	GA	TT	CC	CT	TC	AG	AA
CC	GG	GG	TC	AA	CC	TT	AA	TT	TT	GG	AA	GG	AA	CT	CC	AA	AG	TT	AA	AA	TT	TC	TT	CC	GG	AA
CC	*GG*	GA	TT	AA	CT	TT	AA	TT	CC	AA	AA	GG	CC	CC	CC	GG	AA	CC	GG	*GG*	TT	CC	CC	TT	*AA*	AA
CC	GG	GG	TT	AA	CC	TT	AA	AA	TT	GG	AA	GG	AA	CC	CC	AA	AA	TT	AA	AA	TT	CC	TT	CC	GG	AA
CC	GG	GG	TT	AA	CC	*TT*	*AA*	*TT*	*TT*	*GG*	*AA*	*GG*	*AA*	*CC*	*CC*	*AA*	*AA*	*TT*	*AA*	*AA*	*TT*	*CC*	*TT*	*CC*	*GG*	AA
CC	GG	GG	TT	AA	CC	TT	AA	TT	TT	GG	AA	GG	AA	CC	CC	AA	AA	TT	AA	AA	TT	CC	TT	CC	GG	AA
AA	*AA*	GG	CC	AA	CC	TT	AA	TT	TT	GG	AA	GG	AA	TT	TT	GG	AA	TT	GG	GG	TT	CC	TT	TT	GG	AA
CC	*GG*	GG	TT	AA	CC	TT	AA	TT	TT	GG	AA	GG	AA	CC	CC	AA	AA	TT	AA	AA	TT	CC	TT	CC	GG	AA
CC	GG	GG	TT	AA	CC	TT	AA	TT	TT	GG	AA	GG	AA	CC	CC	AA	AA	TT	AA	AA	TT	CC	TT	CC	GG	AA
CA	*GA*	GG	TC	AA	CC	TT	AA	AT	TT	GG	AA	GG	AA	CT	CC	AA	AG	TT	AA	AA	TT	CC	TT	CC	GG	AA
AA	AA	GG	TC	AA	TC	TT	AA	TT	CT	AG	AA	GG	CA	CT	CT	GG	AA	TT	GG	GG	TT	CC	CT	CT	AG	AA
CA	GA	AG	TC	AA	TC	TT	AA	TT	CT	AG	AA	GG	CA	CT	CT	GG	AA	CT	GG	GG	TT	CC	CT	TT	AG	AA
AA	AA	AG	TC	AA	TC	TT	AA	TT	CT	AG	AA	GG	CA	CT	CC	GA	AG	CT	GA	GA	TT	CC	CC	TC	AG	AA
CC	GG	GA	TT	AA	TT	TT	AA	TT	CC	AA	AA	GG	CC	CC	CC	GG	AA	CC	GG	GG	TT	CC	CC	TT	AA	AA
CA	GA	AG	TC	AA	TC	TT	AA	TT	CT	AG	AA	GG	CA	CT	CT	GG	AA	CT	GG	GG	CT	CC	CT	TT	AG	AA
CC	GG	GG	TT	AA	CC	TT	AA	TT	TT	GG	AA	GG	AA	CC	CC	AA	AA	TT	AA	*AA*	TT	CC	TT	CC	GG	AA
CA	GA	AG	TC	AA	TC	*TT*	*AA*	*TT*	*CT*	*AG*	*AA*	*GG*	*CA*	*CT*	*CC*	*GG*	*AA*	*CT*	*GG*	*GG*	*TT*	*CC*	*CT*	*TT*	*AG*	AA
CC	*GG*	AA	TT	AA	TT	TT	AA	TT	CC	AA	AA	GG	CC	CC	CC	GG	AA	CC	GG	GG	TT	CC	CC	TT	AA	AA
CC	*GG*	GA	TT	AA	CT	TT	AA	AT	TC	GA	AA	GG	AC	CC	CC	AG	AA	TC	AG	AG	TT	CC	TC	CT	GA	AA
CA	GA	AG	TC	AA	TC	CT	AA	TT	CT	AG	AA	GG	CA	CT	CT	GG	AA	CT	GG	GG	TT	CC	CT	TT	AG	AA
CA	GA	GG	TT	AA	CC	TT	AA	TT	TT	GG	AA	GG	AA	CC	CC	AA	AA	TT	AA	AA	TT	CC	TT	CC	GG	AA
AA	*AA*	GG	TT	AA	CC	TT	AA	TT	TT	GG	AA	GG	AA	CC	CC	AA	AA	TT	AA	AA	TT	CC	TT	CC	GG	AA
AA	AA	GG	TT	AA	CC	TT	AA	TT	TT	GG	AA	GG	AA	CT	CC	AA	AG	TT	AA	AA	TT	CC	TT	CC	GG	AA
CC	*GG*	AG	TT	AA	TT	TT	AA	TT	CC	AA	AA	GG	CC	CC	CC	GG	AA	CT	GG	GG	TT	CC	CC	TT	AA	AA
CC	GG	GG	TT	AA	CT	TT	AA	TT	TC	GA	AA	GG	AC	CC	CC	AG	AA	TT	AG	AG	TT	CC	TC	CC	GA	AA
CA	*GA*	GG	TC	AA	TC	TT	AA	TT	CT	AG	AT	GT	CA	CT	CC	GA	AG	TT	GA	GA	TT	CC	CT	CC	AG	*AA*
AA	*AA*	GG	CT	AA	CC	TT	AA	TT	TT	GG	AA	GG	AA	TC	CC	AA	AA	TT	AA	AA	TT	CC	TT	CC	GG	AA
CA	*GA*	GG	TC	AA	TC	TT	AA	TT	CT	AG	AA	GG	CA	CT	CT	GG	AA	TT	GG	*GG*	TT	CC	CT	CT	AG	AA
CC	GG	AG	TT	AA	TT	*TT*	*AA*	*TT*	*CC*	*AA*	*AA*	*GG*	*CC*	*CC*	*CC*	*GG*	*AA*	*CT*	*GG*	*GG*	*TT*	*CC*	*CC*	*TC*	*AA*	AA
CA	*GA*	GG	TT	AA	TC	TT	AA	TT	CT	AG	AA	GG	CA	CC	CC	GA	AA	TT	GA	GA	TT	CC	CT	CC	AG	AA
CC	GG	GA	TT	AA	CT	TT	AA	TT	TC	GA	AA	GG	AC	CC	CC	AG	AA	TC	AG	AG	TT	CC	TC	CT	GA	AA
CC	*GG*	AA	TT	AA	TT	TT	AA	TT	CC	AA	AA	GG	CC	CC	CC	GG	AA	CC	GG	GG	TT	CC	CC	TT	AA	AA
CA	GA	AG	TC	AA	TC	TT	AA	TT	CT	AG	AA	GG	CA	CT	CT	GG	AA	CT	GG	GG	TT	CC	CT	TT	AG	AA
CA	GA	GG	TC	AA	CC	TT	AA	TT	TT	GG	AA	GG	AA	CT	CT	AG	AA	TT	AG	AG	TT	CC	TT	CT	GG	AA
CC	GG	GG	TT	AA	CC	TT	AA	TT	TT	GG	AA	GG	AA	CT	CT	AG	AA	TT	AG	AG	TT	CC	TT	CT	GG	AA
AA	AA	GG	TC	AA	CC	TT	AA	TT	TT	GG	AA	GG	AA	CT	CC	AA	AG	TT	AA	AA	TT	CC	TT	CC	GG	AA
AC	AG	GG	CT	AA	CC	TT	AA	TT	TT	GG	AA	GG	AA	TC	TC	GA	AA	TT	GA	GA	TT	CC	TT	TC	GG	AA
CC	*GG*	GG	TT	AA	CC	TT	AA	AT	TT	GG	AA	GG	AA	TC	CC	AA	GA	TT	AA	AA	TT	CC	TT	CC	GG	AA
AC	AG	GG	CT	AA	CC	TT	AA	TT	TT	GG	AA	GG	AA	TC	CC	AA	GA	TT	AA	AA	TT	CC	TT	CC	GG	AA
CC	GG	GG	TT	AA	CC	TT	AA	TT	TT	GG	AA	GG	AA	CC	CC	AA	AA	TT	AA	AA	TT	CC	TT	CC	GG	AA
AC	AG	GG	CT	AA	CC	TT	AA	TT	TT	GG	AA	GG	AA	TC	TC	GA	AA	TT	GA	GA	TT	CC	TT	TC	GG	AA
CC	GG	GA	TT	AA	CT	TT	AA	TT	TC	GA	AA	GG	AC	CC	CC	AG	AA	TC	AG	AG	TT	CC	TC	CT	GA	AA
AA	AA	GG	CC	AA	CC	TT	AA	TT	TT	GG	AA	GG	AA	TT	CC	AA	GG	TT	AA	AA	TT	CC	TT	CC	GG	AA
AC	AG	GG	CT	AA	CC	TT	AA	TT	TT	GG	AA	GG	AA	TC	CC	AA	GA	TT	AA	AA	TT	CC	TT	CC	GG	AA
AA	AA	GG	CC	AA	CC	TT	AA	TT	TT	GG	AA	GG	AA	TT	CT	AG	GA	TT	AG	AG	TT	CC	TT	CT	GG	AA
AC	AG	GG	CT	AA	CC	TT	AA	TT	TT	GG	AA	GG	AA	TC	CC	AA	GA	TT	AA	AA	TT	CC	TT	CC	GG	AA
AC	AG	GG	CT	AA	CC	TT	AA	TT	TT	GG	AA	GG	AA	TC	CC	AA	GA	TT	AA	AA	TT	CC	TT	CC	GG	AA
AC	AG	GG	CT	AA	CC	TT	AA	TT	TT	GG	AA	GG	AA	TC	TC	GA	AA	TT	GA	GA	TT	CC	TT	TC	GG	AA
AC	*AG*	GG	CT	AA	CC	*TT*	*AA*	*TT*	*TT*	*GG*	*AA*	*GG*	*AA*	*TC*	*CC*	*AA*	*GA*	*TT*	*AA*	*AA*	*TT*	CC	*TT*	*CC*	*GG*	AA
CC	GG	GG	TT	AC	CT	TT	AA	TT	TC	GA	AA	GG	AC	CC	CC	AG	AA	TT	AG	AG	TT	CC	TC	CC	GA	AA
AC	AG	GG	CT	AA	CC	TT	AA	TT	TT	GG	AA	GG	AA	TC	CC	AA	GA	TT	AA	AA	TT	CC	TT	CC	GG	AA
CC	GG	GG	TT	CA	TC	TT	AA	TT	CT	AG	AA	GG	CA	CC	CC	GA	AA	TT	GA	GA	TT	CC	CT	CC	AG	*AA*
AA	AA	GG	CC	AA	CC	TT	AA	TT	TT	GG	AA	GG	AA	TT	CC	AA	GG	TT	AA	AA	TT	CC	TT	CC	GG	AA
CC	GG	AG	TT	AC	TT	TT	AA	TT	CC	AA	AA	GG	CC	CC	CC	GG	AA	CT	GG	GG	TT	CC	CC	TC	AA	AA
AC	AG	GA	CT	AA	CT	TT	AA	TT	TC	GA	AA	GG	AC	TC	CC	AG	GA	TC	AG	AG	TT	CC	TC	CT	GA	AA
CC	GG	GA	TT	AA	CT	TT	AA	TT	TC	GA	AA	GG	AC	CC	CC	AG	AA	TC	AG	AG	TT	CC	TC	CT	GA	AA
CC	*GG*	AA	TT	AA	TC	*TT*	*AA*	*TT*	*CT*	*AG*	*AA*	*GG*	*CC*	*CC*	*CC*	*GG*	*AA*	*CC*	*GG*	GG	TT	CC	CC	TT	*AA*	AA
CC	*GG*	AA	TT	AA	TT	*TT*	AA	TT	CC	*AA*	*AA*	*GG*	*CC*	*CC*	*CC*	GG	AA	CC	GG	GG	TT	CC	CC	*TT*	*AA*	AA
CC	*GG*	AA	TT	AA	CT	TT	AA	TT	TC	GA	AA	GG	CC	CC	CC	GG	AA	CC	GG	GG	TT	CC	CC	TT	AA	AA
CA	GA	GG	TT	AA	TC	TT	AA	TT	CT	AG	AA	GG	CA	CC	CC	GA	AA	TT	GA	GA	TT	CC	CT	CC	AG	AA
CA	GA	GG	TC	AA	CC	TT	AA	TT	TT	GG	AA	GG	*AA*	*CT*	CC	AA	AG	TT	AA	*AA*	TT	CC	TT	CC	*GG*	AA
CA	GA	GG	TC	AA	CC	TT	AA	TT	TT	GG	AA	GG	AA	CT	CC	AA	AG	TT	AA	AA	TT	CC	TT	CC	GG	AG
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CA	GA	GG	TC	AA	TC	TT	AA	TT	CT	AG	AA	GG	CA	CT	CC	GA	AG	TT	GA	GA	TT	CC	CT	CC	AG	AA
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rs62345110	**New**	**New**	rs261135	**New**	rs1428954	**New**	rs12716214	rs7717026	rs7702963	rs7717201	rs7716386	rs1428955	rs11748701	**New**	**New**	rs1833549	**New**	rs11952436	rs2012809	rs10039573	rs12518184	rs62393262	**New**	rs73361464	**New**
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C	G	T	C	T	G	T	C	G	C	A	A	G	T	T	T	T	G	A	G	A	A	T	T	A	T
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128226162	128226236	128226530	128226733	128226761	128226992	128227028	128227360	128227368	128232764	128233135	128233195	128233387	128233434	128233487	128233558	128233576	128233701	128233727	128233945	128234070	128234343	128234493	128234617	128234664	128234806	128235083	128235110	128235354
rs12153356	**New**	rs2106980	rs7730104	rs11745830	**New**	rs12657219	rs7734757	**New**	**New**	rs13169056	**New**	**New**	**New**	**New**	**New**	rs10079808	rs72789233	rs1363170	**New**	rs17678166	rs17616276	rs13360809	rs13356389	**New**	rs17678190	**New**	rs28548934	rs34888466
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GG	CC	GG	TT	GG	GG	GG	AA	AA	CC	GG	GG	AA	AA	CC	GG	CC	CT	AA	TT	CT	CC	TT	GG	CC	GG	AA	AA	TT
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AG	CC	AG	CT	AG	GG	GG	GA	AA	*CC*	*AG*	*GG*	*AA*	*AA*	*CC*	*GG*	*TC*	*CC*	*GA*	*TT*	*CC*	*CC*	*CT*	*AG*	*CC*	*AG*	*AA*	*GA*	*TT*
GG	CC	GG	TC	GG	GG	GG	AA	AA	CC	GG	GG	AA	AA	CC	GG	CT	CC	AG	TT	CC	CC	TC	GA	CC	GA	AA	AG	TT
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GA	CC	GA	CC	GA	GG	GG	AA	AA	CC	GA	GG	AA	AA	CC	GG	TT	CC	GG	TT	CC	CC	CC	AA	CC	AA	AA	GG	TT
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128235438	128235486	128235514	128235544	128235551	14849916	14850152	14850207	14850349	14850368
rs17616306	**New**	rs72789238	rs12153655	**New**	rs1010704	rs1010705	**New**	rs9396530	rs9396531
5qMB128c	5qMB128c	5qMB128c	5qMB128c	5qMB128c	6pMB14a	6pMB14a	6pMB14a	6pMB14a	6pMB14a
T	A	T	C	C	A	C	T	A	A
C	T	C	T	T	G	T	G	G	G

TT	AA	TT	CT	CC	GG	TT	TT	GG	GG
TT	*AA*	*TT*	*CC*	*CC*	GG	TT	TT	GG	GG
TT	AA	TT	CC	CC	GG	TT	TT	GG	GG
TT	AA	TT	TC	CC	GG	TT	TT	GG	GG
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TC	*AA*	*TC*	*CC*	*CT*	GG	TT	TT	GG	GG
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14850463	14850485	14850486	14850608	14850634	14850635	14850777	14850825	14850923	14851037	14851117	14851218	14851227	14851318	14851516	14851762	14851974	14852090	14852104	14856159	14856396	14856426	14856654	14856806	14857205	14857420	14857627	14857874	14857963	14869571
rs2500071	rs2500072	rs2500073	rs2500074	rs2500075	**New**	rs2500076	**New**	**New**	**New**	rs4145446	rs4145447	rs4145448	rs4145445	rs4715922	rs9476648	rs7766310	**New**	rs16875631	**New**	rs73372198	rs6929261	rs2472793	rs73372199	**New**	rs2500078	rs1474561	rs73372200	**New**	**New**
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T	C	A	A	T	G	G	T	G	G	T	G	C	T	C	T	T	A	C	A	A	C	T	C	C	C	G	C	C	G
C	T	G	G	C	A	A	C	A	A	C	A	T	A	G	C	A	G	G	T	G	T	C	T	T	T	A	A	T	A
CC	TT	GG	GG	CC	GG	AA	TT	GG	GG	CC	AA	TT	AA	GG	CC	AA	AA	CC	*AA*	*AA*	*CC*	*CC*	*CC*	*CC*	*TT*	*AG*	*CC*	CC	GG
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6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7
14869953	14870004	14870407	14870677	14870747	14870961	14871115	14871127	14871141	14871463	164286926	164286981	164287155	164287284	164288077	164288168	164288169	164288301	164288508	164289036	164289187	8265048	8265098	8265109	8265462	8266276	8266342	8266467	8272516	8272820
rs9464717	**New**	rs926242	**New**	rs7773235	rs7773606	**New**	rs2472797	rs2472798	**New**	**New**	rs12523851	rs11752895	**New**	rs9458956	**New**	**New**	**New**	rs9456908	rs73027012	**New**	rs3779357	rs3779356	**New**	**New**	rs11973424	rs3807808	rs3807807	**New**	**New**
6pMB14c	6pMB14c	6pMB14c	6pMB14c	6pMB14c	6pMB14c	6pMB14c	6pMB14c	6pMB14c	6pMB14c	6qMB164c	6qMB164c	6qMB164c	6qMB164c	6qMB164c	6qMB164c	6qMB164c	6qMB164c	6qMB164c	6qMB164c	6qMB164c	7pMB8a	7pMB8a	7pMB8a	7pMB8a	7pMB8a	7pMB8a	7pMB8a	7pMB8b	7pMB8b
G	T	A	G	T	T	G	G	G	C	C	T	G	C	A	G	C	C	A	C	A	A	A	T	A	A	C	A	A	A
T	A	G	C	C	C	T	A	A	T	T	C	C	T	G	A	T	T	C	T	G	G	C	G	G	G	T	G	C	G
GG	TT	GG	GG	TT	TT	GG	AA	AA	CC	CC	CT	GG	CC	AA	GG	CC	CC	AA	CT	AA	*AA*	*AA*	*TT*	*AA*	*AA*	*CC*	*AA*	AA	AA
GG	TT	GG	GG	TT	TT	GG	AA	AA	CC	CC	CT	GG	CC	AG	GG	CT	CC	AC	CC	AA	AA	AA	TT	AA	AA	CC	AA	AA	AA
GG	TT	GG	GG	TT	TT	GG	AA	AA	CC	CC	CT	GG	CC	AA	GG	CC	CC	AA	CC	AA	*AG*	*AC*	*TT*	*AA*	*AG*	*TT*	*GG*	AA	AA
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GG	AA	GG	GG	TT	TT	GG	AA	AA	CC	CC	CT	GC	CC	AA	GG	CC	CC	AA	CC	AA	GG	CC	TT	AA	AG	TT	GG	AA	AA
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GG	TT	GG	GG	TT	TT	GG	AA	AA	CC	CC	TT	GC	CC	AA	GG	CC	CC	AA	TC	AA	AA	AA	TT	AA	AA	CC	AA	AA	AA
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GG	TT	GG	GG	TT	TT	GG	AA	AA	*CC*	CC	CT	GG	CC	AA	GG	CC	CC	AA	CT	AA	AA	AA	TT	*AA*	AA	*TT*	GG	AA	AA
GG	TT	GG	GG	TT	TT	GG	AA	AA	*CC*	CC	TT	GG	CC	AA	GG	CC	CT	AA	CC	AA	AG	AC	TT	AA	AG	CT	AG	AA	AA
GG	*TT*	*GG*	*GG*	*TT*	*TT*	*GG*	*AA*	*AA*	*CC*	CC	CT	GC	CC	AA	GG	CC	CC	AA	CC	AA	AG	AC	TT	AA	AG	CT	AG	*AA*	*AA*
GG	TT	GG	GG	TT	TT	GG	AA	AA	CC	CC	TT	GG	CC	AA	GG	CC	CC	AA	CT	AA	AA	AA	TT	AA	AA	CC	AA	AA	AA
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GG	TT	GG	GG	TT	TT	GG	AA	AA	CC	CC	TT	GG	CC	AA	GG	CT	CC	AA	CT	AA	AA	AA	TT	AA	AA	TT	GG	AA	AA
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GG	TT	GG	GG	TT	TT	GG	AA	AA	CC	CC	TC	GG	CC	AA	GG	CC	CC	AA	TC	AA	AA	AA	TT	AA	AA	TT	GG	AA	AA
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GG	TT	GG	*GG*	TT	TT	GG	AA	AA	*CC*	CC	TT	CG	CC	AA	GG	CC	CC	AA	CC	AA	*GA*	*CA*	*TT*	*AA*	*AA*	*TT*	GG	*AA*	*AA*
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GG	TT	GG	GG	TT	TT	GG	AA	AA	CC	CC	CC	GG	CC	AA	GG	CC	CC	AA	CC	AA	AA	AA	TT	AA	AA	TC	GA	AA	AA
TG	TT	GG	GG	CT	CT	GG	GA	GA	CC	CC	TC	GG	CC	AA	GG	CC	CC	AA	CC	AA	AA	AA	TT	AA	AA	CC	AA	AA	AA
GG	TT	GG	GG	TT	TT	GG	AA	AA	*CC*	CC	TT	GG	CC	AA	GG	CC	CC	AA	TT	AA	AA	AA	TT	AA	AA	TT	GG	AA	AA
GG	TT	GG	GG	TT	TT	GG	AA	AA	CC	CC	CC	GG	CC	GG	GG	CC	CC	CC	CC	AA	GA	CA	TT	AA	AA	TC	GA	AA	AA
GG	TT	AA	GG	TT	TT	GG	GG	GG	*CC*	CC	TC	GG	CC	AG	GG	CC	CC	AC	CC	AA	*GG*	*CC*	*TT*	*AA*	*AA*	*TT*	*GG*	*AA*	*AA*
GG	TT	GG	GG	TT	TT	GG	AA	AA	*CC*	CC	TC	GG	CC	AA	GG	CC	CC	AA	TC	AA	AA	AA	TT	AA	AA	CC	AA	AA	AA
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GT	TT	GG	GG	TC	TC	GG	AG	AG	CC	CC	TC	GG	CC	AG	GG	CC	CC	AC	*CC*	*AA*	GG	CC	TT	AA	AA	TT	GG	AA	*AA*
GG	TT	GG	GG	TT	TT	GG	AA	AA	CC	CC	TC	GG	CC	AA	GG	CC	CC	AA	CC	AA	GG	CC	TT	AA	AA	TT	GG	AA	AA
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GG	TT	GA	GG	TT	TT	GG	AG	AG	CC	CC	TT	GG	CC	AA	GG	CC	CC	AA	CC	AA	GG	CC	TT	AA	AA	TT	GG	*AA*	*AA*
GG	TT	GA	GG	TT	TT	GG	AG	AG	CC	CC	TC	GG	CC	AG	GG	CC	CC	AC	CC	AA	AA	AA	TT	AA	AG	CC	AA	AA	*AA*
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GG	TT	*GG*	*GG*	*TT*	*TT*	*GG*	*AA*	*AA*	*CC*	CC	*TT*	GC	CC	AA	GG	CC	CC	AA	CC	AA	*AA*	AA	TT	*AA*	AA	CT	AG	AA	AA
GG	TT	GG	GG	TT	TT	GG	AA	AA	CC	CC	TC	GG	CC	AA	GG	CC	CC	AA	CC	AA	AG	AC	TT	AA	GA	CT	AG	AA	AA
GG	TT	AA	GG	TT	TT	GG	GG	GG	*CC*	CC	TC	GG	CC	AA	GG	CC	CC	AA	TC	AA	GG	CC	TT	AA	AA	TT	GG	AA	AA
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GG	TT	GG	GG	TT	TT	GG	AA	AA	*CC*	CC	TT	GG	CC	AA	GG	CC	CC	AA	CC	AA	AG	AC	TT	AA	AA	CT	AG	AA	AA

7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8
8273971	8274043	8274146	8274285	8274372	8274411	8283857	8283948	8284272	8284339	8284561	8284590	8284595	8284664	8284792	8285352	5076371	5076433	5076509	5076639	5076649	5076654	5076684	5076849	5076925	5076932	5077025	5077488	5077518	5077570
New	rs9640062	**New**	rs6961662	**New**	rs6965830	**New**	**New**	**New**	**New**	**New**	**New**	**New**	rs10230640	rs13227209	rs2349178	rs58768701	rs4875470	rs11136836	rs4875471	**New**	rs4875472	rs4875150	**New**	**New**	**New**	**New**	rs4875473	rs4875151	**New**
7pMB8b	7pMB8b	7pMB8b	7pMB8b	7pMB8b	7pMB8b	7pMB8c	7pMB8c	7pMB8c	7pMB8c	7pMB8c	7pMB8c	7pMB8c	7pMB8c	7pMB8c	7pMB8c	8pMB5a	8pMB5a	8pMB5a	8pMB5a	8pMB5a	8pMB5a	8pMB5a	8pMB5a	8pMB5a	8pMB5a	8pMB5a	8pMB5a	8pMB5a	8pMB5a
G	C	A	A	A	T	T	C	C	A	T	C	A	C	C	A	A	T	C	G	G	C	C	G	T	C	A	A	G	G
A	T	G	G	G	G	C	G	T	G	C	T	G	T	G	G	G	G	T	C	C	T	T	A	G	A	G	G	A	A
GG	CC	AA	AA	AA	TT	TT	CC	CC	AA	TT	CC	AA	CC	CC	GG	AA	GG	CC	GG	GG	CC	CC	GG	TT	CC	AA	AG	GG	GG
GG	CC	AA	AA	AA	TT	TC	CC	CC	AA	TT	CC	AA	CC	CC	GG	AA	GG	CC	GC	GG	CT	CT	GG	TT	CC	AA	GG	GG	GG
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GG	CC	AA	AA	AA	TT	TT	CC	CC	AA	TT	CC	AA	CC	CC	AA	AA	GG	CC	GG	GG	CC	CC	GG	TT	CC	AA	GA	GG	GG
GG	CT	AA	AG	AA	TG	TT	CC	CC	AA	TT	CC	AA	CT	CG	GG	AA	GG	CC	GC	GG	CT	CT	GG	TT	CC	AA	GG	GG	GG
GG	CT	AA	AG	AA	TG	TT	CC	CC	AA	TT	CC	AA	CT	CG	AG	AA	GG	CC	GG	GG	CC	CC	GG	TT	CC	AA	GG	GG	GG
GG	CC	AA	AG	AA	TG	TT	CC	CT	AA	TT	CC	AA	CT	CG	AG	AA	GG	CC	GG	GG	CC	CC	GG	TT	CC	AA	GG	GG	GG
GG	CT	AA	AG	AA	TG	TT	CC	CC	AA	TT	CC	AA	CT	CG	AG	AA	GG	CT	GG	GG	CC	CC	GG	TT	CC	AA	GG	GA	GG
GG	CT	AA	AG	AA	TG	TT	CC	CC	AA	TT	CC	AA	CT	CG	GG	AA	GG	TT	GG	GG	CC	CC	GG	TT	CC	AA	GG	AA	GG
GG	TT	AA	GG	AA	GG	TT	CC	CC	AA	TT	CC	AA	TT	GG	GG	AA	GG	CC	GC	GG	CT	CT	GG	TT	CC	AA	GG	GG	GG
GG	CT	AA	AG	AA	TG	TT	CC	CC	AA	TT	CC	AA	CT	CG	GG	AG	GG	CC	CC	GG	TT	TT	GG	TT	CC	AA	GG	GG	GG
GG	CT	AA	AG	AA	TG	TT	CC	CC	AA	TT	CC	AA	CT	CG	AG	AA	GG	CC	GG	GG	CC	CC	GG	TT	CC	AA	GG	GG	GG
GG	CT	AA	AG	AA	TG	TT	CC	CC	AA	TT	CC	AA	CT	CG	AG	AA	GG	CT	GG	GG	CC	CC	GG	TT	CC	AA	GG	GA	GG
GG	CC	AA	AA	AA	TT	TT	CC	CC	AA	TT	CC	AA	CC	CC	AG	AA	GG	CC	GG	GG	CC	CC	GG	TT	CC	AA	GG	GG	GG
GG	CC	AA	AA	AA	TT	TT	CC	CC	AA	TT	CC	AA	CC	CC	AA	AA	GG	CC	CC	GG	TT	TT	GG	TT	CC	AG	GG	GG	GG
GG	CT	AA	AG	AA	TG	TT	CC	CC	AA	TT	CC	AA	CT	CG	AG	AA	GG	CC	GG	GG	CC	CC	GG	TT	CC	AA	AA	GG	GG
GG	CC	AA	AA	AA	TT	TT	CC	CC	AA	TT	CC	AA	CC	CC	AA	AA	GG	TT	GG	GG	CC	CC	GG	TT	CC	AA	GG	AA	GG
GG	TT	AA	GG	AA	GG	TT	CC	CC	AA	TT	CC	AA	TT	GG	GG	AA	GG	CC	GG	GG	CC	CC	GG	TT	CC	AA	GA	GG	GG
GG	CC	AA	AA	AA	TT	TT	CC	CC	AA	TT	CC	AA	CC	CC	AG	AA	GG	CC	GG	GG	CC	CC	GG	TT	CC	AA	GG	GG	GG
GG	CT	AA	AG	AA	TG	TT	CC	CC	AA	TT	CC	AA	CT	CG	AG	AA	GG	CC	GG	GG	CC	CC	GG	TT	CC	AA	GA	GG	GG
GG	TT	AA	AG	AA	TG	TT	CC	CC	AA	TT	CC	AA	CT	CG	AG	AA	GG	CC	GC	GG	CT	CT	GG	TT	CC	AA	GG	GG	GG
GG	TT	AA	AG	AA	TG	TT	CC	CC	AA	TT	CC	AA	CT	CG	AG	AA	GT	CC	CG	GC	TC	TC	GG	TG	CC	AA	GG	GG	GG
GG	TT	AA	GG	AA	GG	TT	CC	CC	AA	TT	CC	AA	TT	GG	GG	AA	GG	CC	GC	GG	CT	CT	GG	TT	CC	AA	GG	GG	GG
GG	CT	AA	AG	AA	TG	TT	CC	CC	AA	TT	CC	AA	CT	CG	AG	AA	GG	CT	GG	GG	CC	CC	GG	TT	CC	AA	GG	GA	GG
GG	CT	AA	AG	AA	TG	TT	CC	CC	AA	TT	CC	AA	CT	CG	AG	AA	GG	CT	GG	GG	CC	CC	GG	TT	CC	AA	GG	GA	GG

8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
5081571	5081602	5081735	5081979	5082011	5082034	5082041	5082154	5082348	5082418	5082588	5082594	5082620	5092469	5092495	5092508	5092530	5092758	5093070	5093130	5093164	5093307	5093345	5093495	5093555	5094050
New	rs4077749	**New**	**New**	rs4496985	rs11785418	**New**	rs68047479	**New**	rs11136837	rs11136838	**New**	rs4131676	rs7835971	**New**	rs4610774	**New**	**New**	rs10099523	**New**	**New**	**New**	rs4875478	**New**	**New**	rs7016448
8pMB5b	8pMB5b	8pMB5b	8pMB5b	8pMB5b	8pMB5b	8pMB5b	8pMB5b	8pMB5b	8pMB5b	8pMB5b	8pMB5b	8pMB5b	8pMB5c	8pMB5c	8pMB5c	8pMB5c	8pMB5c	8pMB5c	8pMB5c	8pMB5c	8pMB5c	8pMB5c	8pMB5c	8pMB5c	8pMB5c
T	C	C	G	T	A	T	C	A	A	C	G	C	T	C	T	G	T	A	T	G	A	C	G	A	T
C	G	T	T	C	G	G	T	G	G	G	A	T	G	T	C	C	C	C	A	A	G	T	C	T	C
TT	CG	CC	GG	CT	AG	TT	CC	AA	AA	CC	GG	TC	GT	TC	TT	GG	CT	AA	AT	GG	AA	TT	GG	AA	TT
TT	GG	CC	GG	TT	GG	TT	CC	AA	AA	CC	GG	CC	TG	CC	TT	GG	TT	AA	TT	GG	AA	TT	GG	AA	TT
TT	CC	CC	GG	CC	AA	TT	CC	AA	GG	CG	GG	CC	GT	CC	TT	GG	CT	AA	TT	GG	AA	CT	GG	AA	TT
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TT	CC	CC	GG	CC	AA	TT	CC	AA	GG	CC	GG	CC	GG	CC	TT	GG	CC	AA	TT	GG	AA	CC	GG	AA	TT
TT	GC	CC	GG	TC	GA	TT	CC	AA	AA	CC	GG	CT	TG	CT	TT	GG	TC	AA	TA	GG	AA	TT	GG	AA	TT
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TT	GC	CC	GG	TC	GA	TT	CT	AA	AA	CC	GG	CC	TG	CC	TC	GG	TT	AC	TT	GG	AA	TT	GG	AA	TC
TT	CG	CC	GG	CT	AG	TT	CC	AA	GA	CC	GG	CC	GT	CC	TT	GG	CT	AA	TT	GG	AA	CT	GG	AA	TT
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TT	CC	CC	GG	CC	AA	TT	CC	AA	AG	CG	GG	TC	GT	CC	TT	GG	TT	AA	TT	GG	AA	TT	GG	AA	TT
TT	*GC*	CC	GG	TC	GA	TT	CC	AA	AG	CC	GG	CC	TG	CC	TT	GG	TT	AA	*TT*	*GA*	AA	TT	GG	AA	TT
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TT	CC	CC	GG	CC	AA	TG	CC	AA	GG	GG	GG	CC	TT	CC	TT	GG	TT	AA	TT	GG	AA	TT	GG	AA	TT
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8	8	8	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
5094085	5094237	5094265	58913655	58914468	58914495	58914718	58914749	58916041	58916285	58916386	58916506	58916686	58916903	58916932	58916974	58917005	58917190	58917393	58917784	58918013	58918254	58918672	58918757	58918863	58918865	58918959	58919257	58919722	58919730
rs7823489	**New**	rs7012732	rs4309	rs56219365	rs4311	rs4312	rs4313	rs4316	rs4320	rs61758679	rs4321	rs4323	rs4324	rs4325	rs4326	rs4327	rs4329	rs4330	rs4331	rs4332	rs4333	rs4334	rs4335	rs4336	rs4337	rs4338	rs1987692	rs4341	rs4342
8pMB5c	8pMB5c	8pMB5c	ACE	ACE	ACE	ACE	ACE	ACE	ACE	ACE	ACE	ACE	ACE	ACE	ACE	ACE	ACE	ACE	ACE	ACE	ACE	ACE	ACE	ACE	ACE	ACE	ACE	ACE	ACE
C	A	A	C	C	T	A	C	C	G	C	T	C	A	C	G	C	A	C	A	T	T	A	G	T	G	A	T	G	A
T	G	G	T	T	C	T	T	T	A	G	C	T	G	A	A	G	G	A	G	C	C	C	A	A	T	G	A	C	C
TC	AA	AA	TC	CC	CT	AA	CC	TC	AG	CC	CT	TC	GA	AC	AG	GC	GG	CC	GG	TC	CC	CC	AA	AT	TG	AA	AT	CG	CA
CC	AA	AG	TT	CC	CC	AA	CC	TT	AA	CC	CC	TT	GG	AA	AA	GG	AA	AA	AA	TT	TT	AA	GG	AA	TT	AA	AA	CC	CC
CC	AA	GA	TC	CC	CT	AA	CC	TC	AG	CC	CT	TC	GA	AC	AG	GC	AG	AC	AG	TC	TC	AC	GA	AT	TG	AA	AT	CG	CA
CC	AA	AG	CC	CC	TT	AA	CC	CC	GG	CC	TT	CC	AA	CC	GG	CC	AA	AA	AA	TT	TT	AA	GG	TT	GG	AA	TT	GG	AA
CT	AA	AA	TC	CC	CT	AA	CC	TC	AG	CC	CT	TC	GA	AC	AG	GC	AG	AC	AG	TC	TC	AC	GA	AT	TG	AA	AT	CG	CA
CT	AA	AA	TC	CC	CT	AA	CC	TC	AG	CG	CT	TC	GA	AC	AG	GC	AG	AC	AG	TC	TC	AC	GA	AT	TG	AA	AT	CG	CA
CC	AA	GG	TC	CC	CT	AA	CC	TC	AG	CC	CT	TC	GA	AC	AG	GC	GG	CC	GG	CC	CC	CC	AA	AT	TG	AA	AT	CG	CA
CT	AA	AA	CC	CC	TT	AA	CC	CC	GG	CC	TT	CC	AA	CC	GG	CC	AA	AA	AA	TT	TT	AA	GG	TT	GG	AA	TT	GG	AA
CC	AA	GA	CC	CC	TT	AA	CC	CC	GG	CC	TT	CC	AA	CC	GG	CC	AA	AA	AA	TT	TT	AA	GG	TT	GG	AA	TT	GG	AA
CC	AA	AG	TT	CC	CC	AA	CC	TT	AA	CC	CC	TT	GG	AA	AA	GG	GG	CC	GG	CC	CC	CC	AA	AA	TT	AA	AA	CC	CC
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CC	AA	AA	TT	CC	CC	AA	CC	TT	AA	CC	CC	TT	GG	AA	AA	GG	GG	CC	GG	CC	CC	CC	AA	AA	TT	AA	AA	CC	CC
CC	AA	AA	CT	CC	TC	AA	CC	CT	GA	CC	TC	CT	AG	CA	GA	CG	AG	AC	AG	TC	TC	AC	GA	TA	GT	AA	TA	GC	AC
CC	AA	AG	CC	CC	TT	AA	CC	CC	GG	CC	TT	CC	AA	CC	GG	CC	AA	AA	AA	TT	TT	AC	GG	TT	GG	AA	TT	GG	AA
CC	AA	AA	TT	CT	CC	AA	CC	TT	AA	CC	CC	TT	GG	AA	AA	GG	GG	CC	GG	CC	CC	CC	AA	AA	TT	AA	AA	CC	CC
CC	AA	AA	CT	CC	TC	AA	CC	CT	GA	CC	TC	CT	AG	CA	GA	CG	AG	AC	AG	TC	TC	AC	GA	TA	GT	AA	TA	GC	AC
CC	AA	AG	TT	CC	CC	AA	CC	TT	AA	CC	CC	TT	GG	AA	AA	GG	GG	CC	GG	CC	CC	CC	AA	AA	TT	AA	AA	CC	CC
CC	AA	AG	CC	CC	TT	AA	CC	CC	GG	CC	TT	CC	AA	CC	GG	CC	AA	AA	AA	TT	TT	AA	GG	TT	GG	AA	TT	GG	AA
CC	AA	AA	TC	CC	CT	AA	CC	TC	AG	CC	CT	TC	GA	AC	AG	GC	GA	CA	GA	CT	CT	CA	AG	AT	TG	AA	AT	CG	CA
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CC	AA	AG	TT	CC	CC	AA	CC	TT	AA	CC	CC	TT	GG	AA	AA	GG	GG	CC	GG	CC	CC	CC	AA	AA	TT	AA	AA	CC	CC
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TC	AA	AA	TT	CC	CC	AA	CC	TT	AA	CC	CC	TT	GG	CA	AA	GG	GA	CA	GG	CC	CC	CC	AA	AA	TT	AA	AA	CC	CC
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CT	AA	AA	CC	CC	TC	AT	CT	CC	GG	CC	TT	CC	AA	CC	GG	CC	AA	AA	AA	TT	TT	AA	GG	TT	GG	AA	TT	GG	AA
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CT	AA	GA	TT	CC	TT	AA	CC	TT	AA	CC	TT	CC	AA	CC	GG	CC	AA	AA	GG	CC	CC	AA	GG	TT	GG	AA	AA	CC	AA
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17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
58920456	58922309	58923464	58924154	58924749	58925184	58925639	58926075	58927493	58928224	58929369	58929841	58929981	58930699	58930717	58930766	58930855	58930947	58930991	58931041	58931867	58931939	58932830	58933344	58936624
rs4344	rs3730043	rs4351	rs4353	New	rs4354	rs4358	rs4359	rs4362	rs4363	rs1055086	rs9896208	rs12449782	rs4455027	New	rs4325633	rs4274487	rs4575595	rs11868323	rs11868324	rs7502639	rs7502672	rs4968653	rs7221678	rs8075924
ACE	ACE	ACE	ACE	ACE	ACE	ACE	ACE	ACE	ACE	ACE	ACE	ACE	ACE	ACE	ACE	ACE	ACE	ACE	ACE	ACE	ACE	ACE	ACE	ACE
G	C	G	A	G	C	G	T	T	G	A	T	G	T	C	G	A	G	C	A	G	G	T	C	C
A	T	A	G	A	T	A	C	C	A	G	C	A	C	T	A	G	A	G	G	A	A	C	T	T
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GG	CC	GG	AA	GG	CC	GG	TT	TT	GG	AA	TT	GG	CC	CC	GG	AA	GG	CG	AA	GG	GG	TT	CC	CC
AG	CC	AG	GA	GG	CC	GG	CT	CT	AG	GA	CT	AG	CC	CC	AG	GA	AG	GC	GA	AG	AG	CT	TC	CC
AA	CC	AA	GG	GG	CC	GG	CC	CC	AA	GG	CC	AA	CC	CC	AA	GG	AA	GG	GG	AA	AA	CC	TT	CC
AA	CC	AA	GG	GG	CC	GG	CC	CC	AA	GG	CC	AA	CC	CC	AG	GG	AA	GG	GG	AA	AA	CC	TT	CC
AA	CC	AA	GG	GG	CC	GG	CC	CC	AA	GG	CC	AA	CC	CC	AA	GG	AA	GG	GG	AA	AA	CC	TT	CC
GG	CC	GG	AA	GG	CC	GG	TT	TT	GG	AA	CC	GG	CC	CC	GG	AA	GG	CC	AA	GG	GG	TT	CC	CT
AG	CC	AG	GA	GG	CC	GG	CT	CT	AG	GA	CT	AG	CC	CC	AG	GA	AG	GG	GA	AG	AG	CT	TC	CC
AA	CC	AA	GG	GG	CC	GG	CC	CC	AA	GG	CC	AA	CC	CC	AA	GG	AA	GG	GG	AA	AA	CC	TT	CC
AA	CC	AA	GG	GG	CC	GG	CC	CC	AA	GG	CC	AG	CC	CC	AG	GA	AG	GG	GA	AG	AG	CT	TC	CC
GA	CC	AG	AG	GG	CC	GG	CT	TC	AA	GG	TC	AG	CT	CC	GA	AG	GA	GC	AA	GA	AG	CT	CT	CC
GA	CC	AG	GG	GG	CC	GG	TT	CC	AA	GG	TC	GG	CC	CC	AA	GG	AA	CG	AA	AG	GA	TC	TC	CC
GA	CC	AG	GG	GG	CC	GG	CT	CC	AA	GG	TT	GG	CC	CC	GA	AA	GG	GC	AA	GG	AA	CC	CC	CC
GG	CC	AA	GG	GG	CC	GG	CC	CC	AA	GG	TT	GG	CC	CC	AA	AA	GG	GC	AA	AA	AG	CC	CC	CC
GA	CC	AG	GG	GG	CC	GG	CT	TC	AA	GG	TT	GG	CC	CC	AA	AA	GG	CC	AA	GA	AG	CT	CT	CC
GA	CC	AG	GG	GG	CC	GG	CT	CC	AA	GG	TT	GG	CC	CC	AA	AG	GA	GC	AA	AA	AG	CT	CT	CC
GA	CC	AG	GG	GG	CC	GG	CT	TC	AA	GG	TC	AG	CT	CC	GA	AG	GA	GC	AA	GA	AG	CT	CT	CC
GA	CC	AG	GG	GG	CC	GG	CT	CC	AA	GG	TT	GG	CC	CC	AG	GA	AG	CC	AA	AA	GG	TT	TT	CT
GA	CC	AG	GA	GG	CC	GG	TT	CC	AA	GG	CC	GG	CC	CC	AA	GG	AA	CC	AA	AA	GG	TT	TC	CC
GG	CC	AA	GG	GG	CC	GG	CC	CC	AA	GG	TC	AG	CC	CC	GA	AA	GG	GG	AA	AG	GA	TC	TC	TC
AA	CC	AG	GG	GG	CC	GG	CT	CC	AA	GG	CT	GA	CC	CC	AG	GA	AG	CG	GA	GA	AG	CT	CT	CT
GA	CC	AG	GG	GG	CC	GG	CT	CC	AA	GG	CT	GA	TC	CC	AG	GA	AG	CG	AA	AG	GA	TC	TC	CC
AG	CC	GA	AG	GG	CC	GG	TC	CC	AA	GG	TT	AA	CC	CC	GA	AA	GG	CG	AA	AG	GA	TC	TC	TC
GA	CC	AG	GG	GG	CC	GG	CT	CC	AA	GG	TT	GG	CT	CC	AA	AG	AA	CC	AA	AA	AG	CT	CT	CC
GA	CC	AG	GG	GG	CC	GG	CT	TC	AA	GG	TT	GG	CC	CC	AA	AG	GA	GC	AA	GA	AG	CT	CT	CC
GA	CC	AG	GG	GG	CC	GG	CT	TC	AA	GG	CT	GG	CC	CC	AA	GG	AA	CC	AA	AG	GA	TC	TC	CC
GA	CC	AG	GG	GG	CC	GG	CT	CC	AA	GG	TT	GG	CC	CC	AA	GA	AA	CC	AA	AA	GG	TT	TT	CC
AA	CC	AG	GG	GG	CC	GG	CT	CC	AA	GG	CC	GG	CC	CC	AA	AG	AA	CC	AA	GG	AA	CC	CC	CC
GG	CC	AA	GG	GG	CC	GG	CC	CC	AA	GG	CC	GG	CC	CC	AA	GG	AA	CC	AG	GG	AA	CC	CC	CC
GA	CC	AG	GG	GG	CC	GG	CT	TC	AA	GG	CT	GA	CC	CC	GG	AA	GG	GG	AA	GA	AG	CT	CT	CT

17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
58937488	58937588	58938359	58938385	58938452	58939792	58939833	58940281	58940389	58940591	58941215	58941294	58941524	58941857	58941858	58942517	58942596	58942997	58943409	58943479	58943572	58943645	58944213	58944556	58945384	58945492	58946485	58947076
rs4267385	rs4550514	rs4316818	**New**	rs4459610	rs55668739	**New**	rs10853044	rs11079504	rs12938582	**New**	rs12947354	rs11658531	rs7221779	rs7221780	**New**	rs6504164	rs8066276	rs4500803	rs4517853	rs8066114	**New**	rs4589625	rs12452105	rs4611524	rs4968654	rs4277404	rs12451780
ACE	ACE	ACE	ACE	ACE	ACE	ACE	ACE	ACE	ACE	ACE	ACE	ACE	ACE	ACE	ACE	ACE	ACE	ACE	ACE	ACE	ACE	ACE	ACE	ACE	ACE	ACE	ACE
C	T	T	G	A	C	G	T	A	C	C	A	G	C	C	C	T	T	T	T	C	G	G	A	T	T	C	T
T	C	C	C	T	A	A	C	G	T	G	C	A	G	T	T	C	C	A	C	G	A	A	T	C	C	T	G
CT	*TT*	*TC*	*GG*	*AT*	*CA*	*GG*	*TC*	*AG*	*CT*	**CG**	**AC**	**AA**	**GG**	**TT**	*TT*	*NA*	*CC*	*AA*	*CC*	*CC*	*GG*	*NA*	*TA*	*CT*	*CT*	*CC*	*TT*
CC	*TT*	*TT*	*GG*	*AA*	*CC*	*GG*	*TT*	*AA*	*CC*	*CC*	*AA*	**GG**	**CC**	**CC**	*CC*	*NA*	*TT*	*TT*	*TT*	*CC*	*GG*	*NA*	*AA*	*TT*	*TT*	**CC**	**TG**
TT	*TT*	*CC*	*GG*	*TT*	*AA*	*GG*	*CC*	*GG*	*TT*	**GG**	*CC*	*AA*	*GG*	*TT*	*TT*	*NA*	*CC*	*AA*	*CC*	*CC*	*GG*	*NA*	*TT*	*CC*	*CC*	*CC*	*TT*
CT	**TT**	**TC**	**GG**	**AT**	**CA**	**GG**	**TC**	**AG**	**CT**	**CG**	**AC**	**GA**	**CG**	**CT**	**CT**	*NA*	**TC**	**TA**	**TC**	**CC**	**GG**	*NA*	**AT**	**TC**	**TC**	**CC**	**TT**
TC	**TT**	**CT**	**GG**	**TA**	**AC**	**GG**	**CT**	**GA**	**TC**	**GC**	**CA**	**AG**	**GC**	**TC**	*TC*	*NA*	*CT*	*AT*	*CT*	*CC*	*GG*	*NA*	*TA*	*CT*	*CT*	**CC**	*TT*
TC	**CT**	**CT**	**GG**	**TA**	**CC**	**GG**	**CT**	**GA**	**TC**	**CC**	**CA**	**AG**	**GC**	**TC**	*TC*	*NA*	**CT**	**AT**	**CT**	**GC**	*GG*	*NA*	**TA**	*CT*	*CT*	**CC**	**GT**
CC	*TT*	*TT*	*GG*	*AA*	*CC*	*GG*	*TT*	*AA*	*CC*	*CC*	*AA*	*GG*	*CC*	*CC*	*CC*	*NA*	*TT*	*TT*	*TT*	*CC*	*GG*	*NA*	*AA*	*TT*	*TT*	*CC*	*TT*
TT	**TC**	**CC**	**GG**	**TT**	**AC**	**GG**	*CC*	*GG*	*TT*	*GG*	**CC**	*AA*	*GG*	*TT*	*TT*	*NA*	*CT*	*AT*	*CT*	*CC*	*GG*	*NA*	*TA*	*CT*	*CT*	**CC**	**GT**
TT	*TT*	*CC*	*GG*	*TT*	*AA*	*GG*	*CC*	*GG*	*TT*	*GG*	**CC**	*AA*	*GG*	*TT*	*TT*	*NA*	*CC*	*AA*	*CC*	*CC*	*GG*	*NA*	*TT*	*CC*	*CC*	*CC*	*TT*
CC	**TT**	**TT**	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**CC**	**CC**	**AA**	**GG**	**CC**	**CC**	*CC*	*NA*	*TT*	*TT*	*TT*	*CC*	*GG*	*NA*	*AA*	*TT*	*TT*	**CC**	*TT*
CC	*TT*	*TT*	*GG*	*AA*	*CC*	*GG*	*TT*	*AA*	*CC*	*CC*	*AA*	*GG*	*CC*	*CC*	*CC*	*NA*	*TT*	*TT*	*TT*	*CC*	*GG*	*NA*	*AA*	*TT*	*TT*	*CC*	*TT*
CT	*TT*	*TC*	*GG*	*AT*	*CA*	*GG*	*TC*	*AG*	*CT*	*CG*	*AC*	*GA*	*CG*	*CT*	*CT*	*NA*	*TC*	*TA*	*TC*	*CC*	*GG*	*NA*	*AT*	*TC*	*TC*	**CC**	*TT*
CT	**TC**	**TC**	**GG**	**AT**	**CC**	**GG**	**TC**	**AG**	**CT**	**CG**	**AC**	**GA**	**CG**	**CT**	*CT*	*NA*	*TT*	*TT*	*TT*	*CC*	*GG*	*NA*	*AA*	*TT*	*TT*	*CC*	*TT*
CC	**TT**	**TT**	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**CC**	**CC**	**AA**	**GG**	**CC**	**CC**	**CC**	*NA*	**TT**	**TT**	**TT**	**CC**	**GG**	*NA*	**AA**	**TT**	**TT**	**CC**	**TT**
CT	**TT**	**TC**	**GG**	**AT**	**CA**	**GG**	**TC**	**AG**	**CT**	**CC**	**AC**	**GA**	**CG**	**CT**	*CT*	*NA*	*TC*	*TA*	**TC**	**CC**	*GG*	*NA*	*AT*	*TC*	*TC*	*CC*	*TT*
CT	**TC**	**TC**	**GG**	**AT**	**CC**	**GG**	*TT*	*GA*	*TC*	*GC*	**CA**	**AG**	*GC*	**TC**	*TC*	*NA*	*CT*	*AT*	*CT*	*CC*	*GG*	*NA*	*TA*	*CT*	*CT*	*CC*	*TT*
CC	*TT*	*TT*	*GG*	*AA*	*CC*	*GG*	*TT*	*AA*	*CC*	*CC*	*AA*	*GG*	*CC*	*CC*	*CC*	*CC*	*CT*	*TT*	*TT*	*CC*	*GG*	*AA*	*AA*	*TT*	*TT*	*CC*	*TT*
CC	**TT**	*TT*	*GG*	*AA*	**CC**	**GG**	*TT*	*AA*	*CC*	*CC*	**AA**	*GG*	*CC*	*CC*	*CD*	*TT*	*TT*	*TT*	*TT*	*CC*	*GG*	*AA*	*AA*	*TT*	*TT*	*CC*	*TT*
TC	**CT**	**CT**	**GG**	**TA**	**CC**	**GG**	**CT**	**GA**	**TC**	**CC**	**CA**	**AG**	**GC**	**TC**	**CC**	**CT**	**CT**	**AT**	**CT**	**GC**	**GG**	**GA**	**TA**	**CT**	**CT**	**CC**	*TT*
CC	**TT**	**TT**	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**CC**	**CC**	**AA**	**GG**	**CC**	**CC**	*DD*	*TT*	**TT**	**TT**	**TT**	**CC**	**GG**	*AA*	**AA**	*TT*	*TT*	**CC**	**TT**
TC	**CT**	**CT**	**GG**	**TA**	**CC**	**GG**	**CT**	**GA**	**TC**	**CC**	**CA**	**AG**	**GC**	**TC**	*CD*	*CC*	*CT*	*AT*	*CT*	*GC*	*GG*	*GA*	*TA*	*CT*	*CT*	**CC**	*TT*
CC	**TT**	**TT**	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**CC**	**CG**	**AA**	**GG**	**CC**	**CC**	*DD*	*CT*	*TT*	*TT*	*TT*	*CC*	*GG*	*AA*	*AA*	*TT*	*TT*	*CC*	*TT*
TC	**CT**	**CT**	**GG**	**TA**	**CC**	**GG**	**CT**	**GA**	**TC**	**CC**	**CA**	**AG**	**GC**	**TC**	*CC*	*CT*	*CT*	*AT*	*CT*	*GC*	*GG*	*GA*	*TA*	*CT*	*CT*	*CC*	*TT*
CT	**TC**	**TC**	**GG**	**AT**	**CC**	**GG**	**TC**	**AG**	**CT**	**GC**	**AC**	**GA**	**CG**	**CT**	*TC*	*TC*	*TC*	*TA*	*TC*	*CG*	*GG*	*AA*	*AT*	*TC*	*TC*	*CC*	*TG*
CC	**TT**	**TT**	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**CC**	**CC**	**AA**	**GG**	**CC**	**CC**	*CD*	*TT*	*TT*	*TT*	*TT*	*CC*	*GG*	*AA*	*AA*	*TT*	*TT*	*CC*	*TT*
TT	**CT**	**CC**	**GG**	**TT**	**CA**	**GG**	*CC*	*GG*	*TT*	**CC**	**AC**	**AA**	**GG**	**TT**	*CC*	*CC*	*CC*	*AT*	*CT*	*GG*	*GG*	*GG*	*TT*	*CC*	*CT*	*CT*	*TT*
TT	*CC*	*CC*	*GC*	*TT*	*CC*	*GG*	*CC*	*GG*	*TT*	*CG*	**CC**	*AA*	*GG*	*TT*	*CC*	*CC*	*CC*	*AA*	*CC*	*GG*	*GG*	*GG*	*TT*	*CC*	*CC*	*CC*	*TT*
TT	**TT**	**CC**	**GG**	**TT**	**AA**	**GG**	*CC*	*GG*	*TT*	*CC*	**CC**	**AA**	**GG**	**TT**	*CC*	*CC*	*CC*	*TT*	*TT*	*GG*	*GG*	*GG*	*TT*	*CC*	*TT*	**TT**	*TT*
TC	**TT**	*CT*	**GG**	*TA*	*AC*	*GG*	*CT*	*GA*	*TC*	*CC*	**CA**	*AG*	*GC*	*TC*	*CD*	*CT*	*CT*	*TT*	*TT*	*GC*	*GG*	*GA*	*TA*	*CT*	*TT*	*TC*	*TT*
TC	*CT*	*CT*	*GG*	*TA*	*CC*	*GG*	*CT*	*GA*	*TC*	*CC*	*CA*	*AG*	*GC*	*TC*	*CC*	*CT*	*CT*	*AT*	*CT*	*GC*	*GG*	*AA*	*TA*	*CT*	*CT*	*CC*	*GT*
CC	*TT*	*TT*	**GG**	*AA*	*CC*	*GG*	*TT*	*AA*	*CC*	*CC*	**AA**	*GG*	*CC*	*CC*	*CC*	*TT*	*TT*	*TT*	*TT*	*CC*	*GG*	*AA*	*AA*	*TT*	*TT*	**CC**	*TT*
CC	**TT**	**TT**	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**CC**	**GC**	**AA**	**GG**	**CC**	**CC**	*TC*	*TT*	*TT*	*TT*	*TT*	*CC*	*GG*	*AA*	*AA*	*TT*	*TT*	**CC**	**TT**
CT	**TC**	**TC**	**GG**	**AT**	**CC**	**GG**	**TC**	**AG**	**CT**	**CC**	**AC**	**GA**	**CG**	**CT**	**CC**	**TC**	*TC*	**TA**	**TC**	*CG*	*GG*	*AA*	**AT**	**TC**	*TC*	**CC**	**TG**
CC	**TT**	**TT**	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**CC**	**CC**	**AA**	**GG**	**CC**	**CC**	**CC**	**TT**	**TT**	**TT**	**TT**	**CC**	**GG**	**AG**	**TA**	**CT**	**CT**	**CC**	**TT**
CC	**TT**	**TT**	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**CC**	**CC**	**AA**	**GG**	**CC**	**CC**	*CC*	*TT*	*TT*	*TT*	*TT*	*CC*	*GG*	*AA*	*AA*	*TT*	*TT*	*CC*	*TT*
CT	**TC**	**TC**	**GG**	**AT**	**CC**	**GG**	**TC**	**AG**	**CT**	**CC**	**AC**	**GA**	**CG**	**CT**	**CC**	**TC**	*TC*	**TA**	**TC**	*CG*	*GG*	*AA*	**TA**	*CT*	*CT*	*CC*	*TT*
CT	**TT**	**TC**	**GG**	**AT**	**CA**	**GG**	*TC*	*AG*	*CT*	*CC*	**AC**	*GA*	**CG**	**CT**	*CC*	*TC*	*TC*	*TA*	*TC*	*CG*	*GG*	*AA*	*TT*	*CC*	*CC*	*CC*	*TG*
CT	*TC*	**TC**	**GG**	**AT**	**CC**	*GG*	*TC*	*AG*	*CT*	*CC*	**AC**	*GA*	*CG*	*CT*	*CC*	*TC*	*TC*	*TA*	*TC*	*CG*	*GG*	*AA*	*AT*	*TC*	*TC*	*CC*	*TG*
CC	*TT*	*TT*	*GG*	*AA*	*CC*	*GG*	*TT*	*AA*	*CC*	*CC*	**AA**	*GG*	*CC*	*CC*	*CC*	*TT*	*TT*	*TT*	*TT*	*CC*	*GG*	*AA*	*AA*	*TT*	*TT*	**CC**	*TT*
CT	**TC**	**TC**	**GG**	**AT**	**CC**	**GG**	*TC*	*AG*	*CT*	**GC**	**AC**	**GA**	**CG**	**CT**	*TC*	*TC*	*TC*	*TA*	*TC*	*CG*	*GG*	*AA*	*AT*	*TC*	*TC*	*CC*	*TG*
TT	*CC*	*CC*	*GG*	*TT*	*CC*	*GG*	*CC*	*GG*	*TT*	*CC*	*CC*	*AA*	*GG*	*TT*	*CC*	*CC*	*CC*	*AA*	*CC*	*GG*	*GG*	*AA*	*TT*	*CC*	*CC*	*CC*	*GG*
CC	*TT*	*TT*	*GG*	*AA*	*CC*	*GG*	*TT*	*AA*	*CC*	*GC*	*AA*	*GG*	*CC*	*CC*	*TC*	*TT*	*TT*	*TT*	*TT*	*CC*	*GG*	*AA*	*AA*	*TT*	*TT*	**CC**	*TT*
TT	**CC**	**CC**	**GG**	**TT**	**CC**	**GG**	**CC**	**GG**	**TT**	**CG**	**CA**	**AA**	**GG**	**TT**	**CC**	*CC*	**CC**	**AA**	**CC**	**GG**	**GG**	*AA*	**TT**	**CC**	**CC**	**CC**	*GG*
CC	**TT**	**TT**	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**CC**	**CG**	**AA**	**GG**	**CC**	**CC**	**CT**	**TT**	**TT**	**TT**	**TT**	**CC**	**GG**	*AA*	**AA**	**TT**	**TT**	**CC**	*TT*
CC	**TT**	**TT**	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**CC**	**GG**	**AA**	**GG**	**CC**	**CC**	**TT**	**TT**	**TT**	**TT**	**TT**	**CC**	**GG**	*AA*	**AA**	**TT**	**TT**	**CC**	**TT**
TT	**TT**	**CC**	**GG**	**TT**	**AA**	**GG**	**CC**	**GG**	**TT**	**GC**	**AC**	**AA**	**GG**	**TT**	*CC*	*CC*	*CC*	*AA*	*CC*	*GG*	*GG*	*AA*	*TT*	*CC*	*CC*	*CC*	*GG*
CT	**TC**	**TC**	**GG**	**AT**	**CC**	**GG**	**TC**	**AG**	**CT**	**CC**	**AC**	**GA**	**CG**	**CT**	**CC**	*TC*	*TC*	**TA**	**TC**	*CG*	*GG*	*AA*	*AT*	*TC*	*TC*	**CC**	*TG*
CT	**TC**	**TC**	**GG**	**AT**	**CC**	**GG**	**TC**	**AG**	**CT**	**CC**	**AC**	**GA**	**CG**	**CT**	**CC**	**TC**	**TC**	**TA**	**TC**	**CG**	**GG**	**AA**	**AT**	**TC**	**TC**	**CC**	**TG**
CT	**TC**	**TC**	**GG**	**AT**	**CC**	**GG**	*TC*	*AG*	*CT*	*CC*	**AC**	**GA**	**CG**	**CT**	*CC*	*TC*	*TC*	*TA*	*TC*	*CG*	*GG*	*AA*	*AT*	*TC*	*TC*	*CC*	*TG*
TC	**CT**	**CT**	**GG**	**TA**	**CC**	**GG**	*CT*	*GA*	**TC**	**CC**	**CA**	**AG**	**GC**	**TC**	*CC*	*CT*	*CT*	*AT*	*CT*	*GC*	*GG*	*AG*	*TA*	*CT*	*CT*	*CC*	*GT*
TT	**CC**	**CC**	**GG**	**TT**	**CC**	**GG**	*CC*	*GG*	*TT*	**CC**	**CC**	**AA**	**GG**	**TT**	*CC*	*CC*	*CC*	*AA*	*CC*	*GG*	*GG*	*AA*	*TT*	*CC*	*CC*	**CC**	*GG*
TC	**CT**	**CT**	**GG**	**TA**	**CC**	**GG**	*CT*	*GA*	**TC**	**CC**	**CA**	**AG**	**GC**	**TC**	*CC*	*CT*	*CT*	*AT*	*CT*	*GC*	*GG*	*AG*	*TA*	*CT*	*CT*	*CC*	*GT*
CT	**TT**	**TC**	**GG**	**AT**	**CA**	**GG**	*TC*	*AG*	*CT*	*CC*	**AC**	**AA**	**CG**	**CT**	*CC*	*TC*	*TC*	*TA*	*TC*	*CC*	*GG*	*GA*	*AT*	*TC*	*TC*	*CC*	*TT*
TT	*CC*	*CC*	*GG*	*TT*	*CC*	*GG*	*CC*	*GG*	*TT*	*CC*	*CC*	*AA*	*GG*	*TT*	*CC*	*CC*	*CC*	*AA*	*CC*	*GG*	*GG*	*AA*	*TT*	*CC*	*CC*	*CC*	*GG*
CC	**TT**	**TT**	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**CC**	**CC**	**AA**	**GG**	**CC**	**CC**	**CC**	**TT**	**TT**	**TT**	**TT**	**CC**	**GG**	**GG**	**AA**	**TT**	**TT**	**CC**	**TT**
TT	**TC**	**CC**	**GG**	**TT**	**AC**	**GG**	**CC**	**GG**	**TT**	**CC**	**CC**	**AA**	**GG**	**TT**	**CC**	**CC**	**CC**	**AA**	**CC**	**CG**	**GG**	**AA**	**TT**	**CC**	**CC**	**CC**	**TG**
TT	**TT**	**CC**	**GG**	**TT**	**AA**	**GG**	**CC**	**GG**	**TT**	**CC**	**CA**	**AA**	**GG**	**TT**	*CC*	*CC*	**CC**	**AA**	**CC**	*CC*	*GG*	**AA**	**TT**	**CC**	**CC**	**CC**	**TT**
CT	**TC**	**TC**	**GG**	**AT**	**CC**	**GG**	**TC**	**AG**	**CT**	**CG**	**AC**	**GA**	**CG**	**CT**	*CC*	*TC*	*TC*	*TA*	*TC*	*CG*	*GG*	*GA*	*AT*	*TC*	*TC*	*CC*	*TG*
TC	**CT**	**CT**	**GG**	**TA**	**CC**	**GG**	**CT**	**GA**	**TC**	**CC**	**CA**	**AG**	**GC**	**TC**	**CC**	**CT**	**CT**	**AT**	**CT**	**GC**	**GG**	**AG**	**TA**	**CT**	**CT**	**CC**	**GT**
TC	**CT**	**CT**	**GG**	**TA**	**CC**	**GG**	**CT**	**GA**	**TC**	**CC**	**CA**	**AG**	**GC**	**TC**	*CC*	*CT*	*CT*	*AT*	*CT*	*GC*	*GG*	*AG*	**TA**	*CT*	*CT*	*CC*	*GT*
TT	*CC*	*CC*	*GG*	*TT*	*CC*	*GG*	*CC*	*GG*	*TT*	*CC*	**CC**	*AA*	*GG*	*TT*	*CC*	*CC*	*CC*	*AA*	*CC*	*GG*	*GG*	*AA*	*TT*	*CC*	*CC*	**CC**	*GG*
CT	**TC**	**TC**	**GG**	**AT**	**CC**	**GG**	*TC*	*AG*	*CT*	*CC*	**AC**	**GA**	**CG**	**CT**	*CC*	*TC*	*TC*	*TA*	*TC*	*CG*	*GG*	*GA*	*AT*	*TC*	*TC*	*CC*	*TG*
TC	*TT*	*CT*	*GG*	*TA*	*CC*	*GG*	*CT*	*GA*	*TC*	*CC*	*CA*	*AG*	*GC*	*TC*	*CC*	*CT*	*CT*	*AT*	*CT*	*CC*	*GG*	*AA*	*TT*	*CC*	*CC*	*CC*	*TT*
CT	*TC*	*TC*	*GG*	*AT*	*CC*	*GG*	*TC*	*AG*	*CT*	**GG**	**AC**	*GA*	*CG*	*CT*	*CC*	*TC*	*TC*	*TA*	*TC*	*CG*	*GG*	*GA*	*AT*	*TC*	*TC*	*CC*	*TG*
CC	*TT*	*TT*	*GG*	*AA*	*CC*	*GG*	*TT*	*AA*	*CC*	*CC*	*AA*	*GG*	*CC*	*CC*	*CC*	*TT*	*TT*	*TT*	*TT*	*CC*	*GG*	*AG*	*TA*	*CT*	*CT*	*CC*	*TT*
TT	**CT**	**CC**	**GG**	**TT**	**CA**	**GG**	*CC*	*GG*	*TT*	*CC*	**CC**	**AA**	**GG**	**TT**	*CC*	*CC*	*CC*	*AA*	*CC*	*GC*	*GG*	*AA*	*TT*	*CC*	*CC*	*CC*	*GT*
CT	**TC**	**TC**	**GG**	**AT**	**CC**	**GG**	**TC**	**AG**	**CT**	**CC**	**AC**	**GA**	**CG**	**CT**	**CC**	**TC**	**TC**	**TA**	**TC**	**CG**	**GA**	**GA**	**AT**	**TC**	**TC**	**CC**	**TG**
TC	**CT**	**CT**	**GG**	**TA**	**CC**	**GG**	**CT**	**GA**	**TC**	**CC**	**CA**	**AG**	**GC**	**TC**	**CC**	*CT*	**CT**	**AT**	**CT**	*GC*	**GG**	*AA*	**TT**	**CC**	**CC**	**CC**	**GT**
CT	**TC**	**TC**	**GG**	**AT**	**CC**	**GG**	**TC**	**AG**	**CT**	**CC**	**AC**	**GA**	**CG**	**CT**	**CC**	**TC**	**TC**	**TA**	**TC**	**CG**	**GG**	*GA*	**AT**	*TC*	*TC*	**CC**	**TG**
TC	**CT**	**TC**	**GG**	**AT**	**CC**	**GG**	**TC**	**AG**	**CT**	**CC**	**AC**	**GA**	**CG**	**CT**	**CC**	**TC**	**CC**	**TA**	**TC**	**CG**	**GG**	**GA**	**AT**	**TC**	**TC**	**CC**	**TT**
CC	*TT*	*CT*	*GG*	*TA*	*CC*	*GG*	*CT*	*GA*	*TC*	**CG**	**CA**	*AG*	*GC*	*TC*	*CC*	*CT*	*CT*	*AT*	*CT*	*GC*	*GG*	*AG*	*TA*	*CT*	*CT*	*CC*	*TT*
TT	*CC*	*TT*	*GG*	*AA*	*CC*	*GG*	*TT*	*AA*	*CC*	*CC*	**AA**	*GG*	*CC*	*CC*	*CC*	*TT*	*TC*	*TT*	*TT*	*CC*	*GG*	*GG*	*AA*	*TT*	*TT*	*CC*	*TT*
TT	*TT*	*TC*	*GG*	*AT*	*CC*	*GG*	*TC*	*AG*	*CT*	*CC*	*AC*	*GA*	*CG*	*CT*	*CC*	*TC*	*TC*	*TA*	*TC*	*CG*	*GG*	*AA*	*TT*	*CC*	*CC*	*CC*	*TT*
TC	*CT*	*CC*	*GG*	*TT*	*CC*	*GG*	*CC*	*GG*	*TT*	*CC*	*AC*	*AA*	*GG*	*TT*	*CC*	*CC*	*CC*	*AA*	*CC*	*GG*	*GG*	*AA*	*TT*	*CC*	*CC*	**CC**	*GT*
TT	*CT*	*TC*	*GG*	*AT*	*CC*	*GG*	*TC*	*GG*	*TT*	*CC*	*AC*	*GA*	*CG*	*CT*	*CC*	*TC*	*CC*	*TA*	*TC*	*CC*	*GG*	*AA*	*TT*	*CC*	*CC*	*CC*	*GT*
TC	**CT**	**TC**	**GG**	**AT**	**CC**	**GG**	*TC*	*AG*	**CT**	**CC**	**AC**	**GA**	**CG**	**CT**	*CC*	*TC*	*CC*	*TA*	*TC*	*CG*	*GG*	*GA*	*AT*	*TC*	*TC*	**CC**	*TT*
CT	*TT*	*CC*	*GG*	*TT*	*CA*	*GG*	*CC*	*GG*	*TT*	*CG*	**CC**	*AA*	*GG*	*TT*	*CC*	*CC*	*CC*	*AA*	*CC*	*GC*	*GG*	*AA*	*TT*	*CC*	*CC*	*CT*	*TT*
CC	*TT*	*CC*	*GG*	*TT*	*CC*	*GG*	*CC*	*GG*	*TT*	*CC*	*CA*	*AA*	*GG*	*TT*	*CC*	*CC*	*CC*	*AA*	*CC*	*GG*	**GG**	*AA*	*TT*	*CC*	*CC*	**CC**	*TT*
TT	**TC**	**CC**	**GG**	**TT**	**AC**	**GG**	**CC**	**GG**	**TT**	**GC**	**CA**	**AA**	**GG**	**TT**	*CC*	*CC*	*CC*	*TA*	**TC**	*CG*	*GG*	*GA*	*AT*	*TC*	*TC*	**CC**	**TG**
CT	*TT*	*TC*	*GG*	*AT*	*CA*	*GG*	*TC*	*AG*	*CT*	**GG**	**AC**	*GA*	*CG*	*CT*	**CC**	**TC**	**TC**	**TA**	**TC**	**CC**	**GG**	*GA*	**AT**	**TC**	**TC**	**CT**	**TT**
CT	**TC**	**CT**	**GG**	**TA**	**CC**	**GG**	**CT**	**GA**	**TC**	**CC**	**CA**	**AG**	**GC**	**TC**	**CC**	**CT**	**CT**	**AT**	**CT**	**GC**	**GG**	**AG**	**TA**	**CT**	**CT**	**CC**	*TT*
TT	**TC**	**CC**	**GG**	**TT**	**AC**	**AG**	**CC**	**GG**	**TT**	**CC**	**CA**	**AA**	**GG**	**TT**	**CC**	**CC**	**CC**	**AA**	**CC**	**CG**	**GG**	**AA**	**TT**	**CC**	**CC**	**TC**	**TG**
TC	**CT**	**TC**	**GG**	**AT**	**CC**	**GG**	**TC**	**AG**	**CT**	**CC**	**AC**	**GA**	**CG**	**CT**	**CC**	**TC**	**TC**	**TA**	**TC**	**CG**	**GG**	**AA**	**TT**	**CC**	**CC**	**CC**	**GT**
TT	**CC**	**CC**	**GG**	**TT**	**CC**	**GG**	**CC**	**GG**	**TT**	**CC**	**CA**	**AA**	**GG**	**TT**	**CC**	*CC*	*CC*	*AA*	*CC*	*GG*	**GG**	*AA*	*TT*	*CC*	*CC*	*CC*	*TG*
CT	*TC*	*CC*	*GG*	*TT*	*CC*	*GG*	*CC*	*GG*	*TT*	*CC*	*CA*	*AA*	*GG*	*TT*	*CC*	*CC*	*CC*	*AA*	*CC*	*GG*	*GG*	*AA*	*TT*	*CC*	*CC*	*CC*	*TT*
CC	*TT*	*CC*	*GG*	*TT*	*CC*	*GG*	*CC*	*GG*	*TT*	*CC*	*CC*	*AA*	*GG*	*TT*	*CC*	*CC*	*CC*	*AA*	*CC*	*GG*	*GG*	*AA*	*TT*	*CC*	*CC*	*CC*	*TT*
CC	**TT**	**TT**	**GG**	**AA**	**CC**	**GG**	*TT*	*AA*	*CC*	**GG**	**AA**	**GG**	**CC**	**CC**	*CC*	*TT*	*TT*	*TT*	*TT*	*CC*	*GG*	**GG**	*AA*	*TT*	*TT*	*CC*	*TT*
CC	**TT**	**TT**	**GG**	**AA**	**CC**	**GG**	*TT*	*AA*	*CC*	**CG**	**AA**	**GG**	**CC**	**CC**	*CC*	*TT*	*TT*	*TT*	**TT**	**CC**	**GG**	**GG**	*AA*	**TT**	*TT*	**CC**	*TT*
TT	**CT**	**CC**	**GG**	**TT**	**CA**	**GG**	*CC*	*GG*	*TT*	*CG*	**CC**	**AA**	**GG**	**TT**	*CC*	*CC*	*CC*	*AA*	*CC*	*GC*	*GG*	*AA*	*TT*	*CC*	*CC*	*CC*	*TT*

17	17	17	17	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	6	6	6
58947279	58947512	58948884	58950280	5203088	5203090	5203171	5203446	5203717	5203905	5204302	5204309	5204367	5204819	5205100	5205217	5205346	5205580	5205866	5205946	5206146	5206744	12399098	12399163	12399174
New	rs12937693	**New**	rs12451328	rs7110263	rs12574989	rs12788013	**New**	rs1609812	**New**	rs7946748	rs7480526	rs10768683	rs713040	**New**	rs10742583	rs10742584	rs11036364	rs16911905	rs1003586	**New**	rs7936823	rs2070698	rs10478698	rs2327543
ACE	ACE	ACE	ACE	HBB	HBB	HBB	HBB	HBB	HBB	HBB	HBB	HBB	HBB	HBB	HBB	HBB	HBB	HBB	HBB	HBB	HBB	EDN1	EDN1	EDN1
A	C	G	C	T	C	C	C	G	G	G	A	C	A	A	G	G	A	G	C	G	G	T	T	G
G	T	A	A	G	T	G	G	A	T	A	C	G	G	G	A	A	G	C	T	A	A	C	G	A
AA	CC	GG	AC	**GG**	**CC**	**CC**	**CC**	AA	GG	GG	CC	GG	**GG**	AA	AA	AA	AA	GG	CC	GG	GG	CT	TT	GG
AA	**CT**	GG	**CA**	**GT**	**CT**	**CC**	**CC**	**AG**	GG	**GG**	**CA**	**GC**	**GA**	**AA**	AG	AA	AA	**GG**	**CC**	**GG**	GG	CT	TT	GG
GG	CC	GG	CC	GG	CC	CC	CC	AA	GG	GG	CC	GG	GG	AA	AA	AA	AA	GG	CC	GG	GG	**TC**	**TT**	**GG**
AG	**CC**	**GG**	**CC**	**GG**	**CC**	**CC**	**CC**	AA	GG	**GG**	**CC**	**GG**	**GG**	**AA**	**AA**	AA	AA	**GG**	**CT**	**GG**	GG	**TC**	**TT**	**AG**
GA	CC	GG	CC	GG	CC	**CC**	**CC**	AA	GG	**GG**	**CC**	**GG**	**GG**	**AA**	AA	AA	AA	GG	**CC**	**GG**	GA	**TC**	**TT**	**GG**
AA	TC	GG	**AC**	**GG**	**CC**	**CC**	**CC**	**AA**	GG	**GG**	**CC**	**GG**	**GG**	**AG**	**AA**	AA	AA	**GG**	**TC**	**GG**	GG	**TT**	**TT**	**GG**
AA	CC	GG	CC	GG	CC	**CC**	CC	AA	GG	GG	CC	GG	GG	AA	AA	AA	AA	GG	CC	GG	GG	**TC**	**TT**	**GG**
AA	**TC**	**GG**	**AC**	GG	CC	CC	CC	AA	GG	GG	CC	GG	GG	AA	AA	AA	AA	GG	CC	GG	GG	**TT**	**TT**	**GG**
AA	CC	GG	CC	GG	CC	CC	CC	AA	GG	GG	CC	GG	GG	AA	AA	AA	AA	**GG**	CC	GG	GA	**CC**	**TT**	**GG**
AA	CC	GG	CC	**GG**	**CC**	**CC**	**CC**	**AA**	GG	**GG**	**CA**	**GG**	**GG**	**AA**	**AA**	AA	**GG**	**GG**	**CC**	**GG**	**AA**	**TT**	**TT**	**GA**
AA	CC	GG	CC	**GT**	**CC**	**CG**	CC	**AG**	**GG**	**GA**	**CA**	GC	GA	**AA**	**AG**	AA	**AA**	**GG**	**CT**	**GG**	**GG**	CT	TT	GG
AA	CC	GG	CC	**GG**	**CC**	**CC**	CC	**AA**	**GG**	**GG**	**CC**	GG	GG	**GG**	**AA**	**AA**	**GA**	**GG**	**CC**	**GG**	**AG**	CT	TT	GG
AA	CC	GG	CC	**GT**	**CT**	**CC**	**CC**	**AG**	GG	**GG**	**CA**	**GC**	**GA**	**GA**	**AG**	AA	**AA**	**GG**	**CT**	**GG**	GG	**CC**	**TT**	**GG**
AA	**CC**	**GG**	**CC**	**GT**	**CT**	**CC**	**CC**	**AG**	GG	**GG**	**AA**	**GC**	**GA**	**AA**	**AG**	AA	**GG**	**GG**	**CC**	**GA**	AA	**CC**	**TG**	**GG**
AA	CC	GG	CC	**GG**	**CC**	**CC**	**CC**	**AA**	GG	**GG**	**CC**	**GG**	**GG**	**AA**	AA	AA	**AA**	**GG**	**CC**	**GG**	GG	**TC**	**TT**	**GG**
AA	CC	GG	CC	**GG**	**CC**	**CC**	CC	**AA**	GG	**GG**	**CC**	**GG**	GG	**AA**	**AA**	**AA**	**GA**	**GG**	**CC**	**AG**	**AG**	CT	TT	GG
AA	CC	GG	CC	GG	CC	CC	CC	AA	GG	GG	CC	GG	GG	AA	AA	AA	GG	GG	CC	GG	AA	CC	**TT**	**GG**
AA	CC	GG	CC	GG	CC	**CC**	CC	AA	GG	GG	CC	GG	GG	AA	AA	AA	GG	**GG**	CC	GG	AA	CC	TT	GG
AA	CC	GG	CC	**TG**	**CC**	**GC**	**CC**	**GA**	**GG**	**AG**	**AA**	**CG**	**AG**	**AA**	**GA**	**AA**	**GA**	**GG**	**CC**	**GG**	**GG**	**CC**	**TT**	**GG**
AA	**CC**	**GG**	**CC**	GG	CC	CC	CC	AA	GG	GG	CC	**CG**	GG	**AA**	AA	AA	GG	GG	CC	GG	AA	**CC**	**TT**	**GG**
AA	CC	GG	CC	GG	CC	CC	CC	AA	GG	GG	CC	GG	GG	AA	AA	AA	GG	GG	CC	GG	AG	**CT**	**TT**	**GG**
AA	CC	GG	CC	GG	CC	CC	CC	AA	GG	GG	CC	GG	GG	AA	AA	AA	GG	GG	CC	GG	AA	**CC**	**TT**	**GG**
AA	CC	GG	CC	**TG**	**CC**	**GC**	**CC**	**GA**	GG	**AG**	**AC**	**CG**	**AG**	**AA**	**GA**	AA	**AG**	**GG**	**TC**	**GG**	**GA**	CC	TT	GG
AA	CT	AG	CA	GG	CC	CC	CC	AA	GG	GG	CA	GG	GG	AA	AA	BA	GG	GG	CC	GG	AA	**CT**	**TT**	**GG**
AA	CC	GG	CC	GG	CC	CC	CC	AA	GG	GG	CC	**GG**	**GG**	AA	AA	AA	GG	GG	**CC**	GG	AA	TC	TT	GG
AA	CC	GG	CC	**GG**	**CC**	**CC**	**CC**	**AA**	**GG**	**GG**	**CC**	**GG**	GG	**AA**	**AA**	**AA**	**GG**	**GG**	**CC**	**GG**	**GA**	**CC**	**TT**	**GG**
AA	CC	GG	CC	GG	CC	**CC**	CC	AA	GG	GG	CC	GG	GG	AG	AA	AA	GG	GG	CC	GG	AA	**CT**	**TT**	**GG**
AA	**CC**	**GG**	**CC**	**GG**	**CC**	**CC**	CC	**AA**	**GG**	**GG**	**CC**	**GG**	GG	**AA**	**AA**	**AA**	**GG**	**GG**	**CC**	**GG**	**GA**	CC	TT	GG
AA	CC	GG	CC	GG	CC	CC	CC	AA	GG	GG	AC	GG	GG	AG	AA	AA	AG	GG	CC	GG	AA	**CC**	**TT**	**GG**
AA	TC	GG	AC	GG	CC	CC	CC	AA	GG	GG	CA	GG	GG	AA	AA	BA	GG	GG	CC	GG	AA	CC	TT	GG
AA	CC	GG	CC	**GG**	**CC**	**CC**	CC	**AA**	**GG**	**GG**	**CA**	GG	GG	**AA**	**AA**	BA	**GG**	**GG**	**CC**	**GG**	**AA**	**CC**	**TT**	**GG**
AA	**CC**	**GG**	**CC**	GG	CC	CC	CC	AA	GG	GG	AA	GG	GG	AA	AA	AA	GG	GG	CC	GG	AA	**CT**	**TT**	**GG**
AA	**CT**	**GG**	**CA**	GG	CC	**CC**	**CC**	**AA**	GG	**GG**	**AC**	**GG**	**GG**	**GG**	AA	BB	GG	**GG**	**CC**	**GG**	AA	**CT**	**TT**	**GG**
AA	**CC**	**GG**	**CC**	**GG**	**CC**	**CC**	**CC**	AA	GG	**GG**	**AC**	**GG**	**GG**	**AA**	AA	AB	GG	**GG**	**CC**	**GG**	AA	**TT**	**TT**	**GA**
AA	CC	GG	CC	GG	CC	**CC**	CC	AA	GG	**GG**	CA	GG	**GG**	**AA**	AA	AA	GG	GG	CC	GG	AA	**CT**	**TT**	**GG**
AA	CC	GG	CC	GT	CC	**CC**	**CC**	**AG**	GG	**GG**	**AA**	**GC**	**GA**	**AA**	**AG**	AA	**GA**	**GG**	**CC**	**GG**	AG	**CT**	**TT**	**GG**
AA	CT	GG	CA	**GT**	**CC**	**CC**	CC	**AG**	GG	**GG**	**CA**	**GC**	GA	**AA**	**AG**	BA	**GA**	**GG**	**CC**	GG	**AG**	**CT**	**TT**	**GG**
AA	CT	GG	CA	GT	CC	**CG**	CC	AG	GG	GA	CA	GC	GA	AA	AG	AA	GA	GG	CC	GG	AG	**CC**	**TT**	**GG**
AA	CC	**GG**	CC	GG	CC	CC	CC	AA	GG	GG	CA	GG	GG	AA	AA	BA	GG	GG	CC	GG	AA	**CC**	**TT**	**GG**
AA	CT	GG	CA	GG	CC	CC	CC	AA	GG	GG	CA	GG	GG	AA	AA	BA	GG	GG	CC	GG	AA	**TT**	**TT**	**GG**
AA	TT	GG	AA	GG	CC	CC	CC	AA	GG	GG	CA	GG	GG	AA	AA	BA	GG	GG	CC	GG	AA	**CC**	**TT**	**GG**
AA	CC	GG	CC	**GT**	**CC**	**CG**	CC	**AG**	**GG**	**GA**	**CA**	GC	GA	**AA**	**AG**	BA	**GA**	**GG**	**CC**	**GG**	**AG**	**CT**	**TT**	**GG**
AA	TT	GG	AA	**GG**	**CC**	**CC**	**CC**	**AA**	GG	**GG**	**AC**	**GG**	**GG**	**AG**	**AA**	AB	**GG**	**GG**	**CC**	**GG**	AA	**CT**	**TT**	**GG**
AA	CC	GG	CC	**GG**	**CC**	**CC**	**CC**	AA	GG	**GG**	**AC**	**GG**	**GG**	**AA**	**AA**	AA	**GA**	**GG**	**CC**	**GG**	AA	**CT**	**TT**	**GG**
AA	**CC**	**GG**	**CC**	**GT**	**CT**	**CC**	**CC**	**AG**	GG	**GG**	**CA**	**GC**	**GA**	**AA**	AG	BA	GA	**GG**	**CC**	**GG**	AG	**CT**	**TT**	**GG**
AA	TT	GG	AA	GG	CC	CC	CC	AA	GG	GG	CA	GG	GG	AA	AA	BA	GG	GG	CC	GG	AA	CC	TT	GG
AA	CT	GG	CA	**GG**	**CC**	**CC**	**CC**	**AA**	GG	**GG**	**CC**	**GG**	**GG**	**GG**	**AA**	BB	**GG**	**GG**	**CC**	**GG**	AA	**TT**	**TT**	**GG**
AA	**CT**	**GG**	**CA**	GG	CC	**CC**	**CC**	AA	GG	**GG**	**CC**	**GG**	**GG**	**AA**	AA	BA	AG	**GG**	CC	**GG**	AA	**CT**	**TT**	**GG**
AA	CT	GG	CA	**GG**	**CC**	**CC**	CC	**AA**	**GG**	**GG**	**CC**	**GG**	GG	**AA**	**AA**	**AA**	**AA**	**GG**	**TT**	**GG**	**GG**	**CC**	**TT**	**GG**
AA	TC	GG	AC	**GG**	**CC**	**CC**	CC	**AA**	**GG**	**GG**	**CC**	**GG**	GG	**AA**	**AA**	**AA**	**GA**	**GG**	**CC**	**GG**	**AG**	**CC**	**TT**	**GG**
AA	TT	GG	AA	**GG**	**CC**	**CC**	CC	**AA**	**GT**	**GG**	**AC**	**GG**	GG	**AA**	**AA**	**AA**	**GA**	**CG**	**CC**	**GG**	**GA**	**CT**	**TT**	**GG**
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rs2248580	rs1800542	rs2070699	rs10478713	rs1476046	rs9296343	rs10478717	rs10478718	rs10478720	rs1800543	rs5369	rs1794849	rs2071942	rs10478723	rs1626492	rs6912834	rs2071943	rs1629862	rs1630736	rs5370	rs9296344	rs4714383	**New**	rs62483572	rs507392	rs484199	rs7789679	**New**	**New**	rs564449
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C	G	G	G	G	C	C	C	C	T	A	T	G	G	A	A	G	A	C	G	T	C	G	G	G	C	G	C	C	T
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AA	GG	TT	GG	GG	CG	CC	CC	CT	TT	GG	CC	GG	GG	GG	AA	GG	GG	TT	GG	TT	CC	GG	GG	AA	TC	GG	CC	CC	GG
CC	GG	GG	AG	GA	CC	CC	CC	CC	TC	AG	TC	GA	GG	AG	AA	GA	AG	CC	GT	CT	CT	GG	GG	AA	TC	GG	CC	CC	GG
CC	GG	GG	GG	AA	CC	CC	CC	CC	CC	GG	CC	AA	GG	GG	AA	AA	GG	CC	TT	TT	CC	GG	GG	AA	TC	GG	CC	CC	GG
AC	GG	TG	GG	GA	CC	CC	CC	CC	TC	GG	CC	GA	GG	GG	AA	GA	GG	TC	GT	TT	CT	GG	GG	AA	TC	GG	CC	CC	GG
CC	GG	GG	GG	GA	CC	TC	CC	CC	TC	GG	TC	GA	GG	AG	GA	GA	GG	CC	GT	TT	CC	GG	GG	AA	CC	GG	CC	CC	GG
AC	GG	TG	GG	GA	CC	CC	CC	CC	TC	GG	CC	GA	GG	GG	AA	GA	GG	TC	GT	TT	CT	GG	GG	AA	CT	GA	CC	CC	GG
AA	GG	TT	GG	GG	CC	CC	CC	CC	TT	GG	CC	GG	GG	GG	AA	GG	GG	TT	GG	TT	TC	GG	GG	AA	CC	GG	CG	CT	GG
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AC	GG	TG	GG	GA	CC	CC	CC	CC	TC	GG	CC	GA	GG	GG	AA	GA	GG	TC	GT	TT	TT	GG	GG	AA	CC	GG	CG	CT	GG
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AA	GG	TT	GG	GG	CC	CC	CC	CC	TT	GG	CC	GG	GG	GG	AA	GG	GG	TT	GG	TT	TC	GG	GG	AA	CC	GG	CC	CC	GG
CC	GG	GG	GG	GG	CC	TT	CC	CC	TT	GG	TT	GG	GG	AA	GG	GG	GG	CC	GG	TT	CC	GG	GG	AA	TC	GG	CC	CC	GG
AA	GG	TG	GG	GG	CC	CC	CC	CC	TT	GG	CC	GG	GG	GG	AA	GG	GG	TT	GG	TT	CC	GG	GG	AA	CC	GG	CC	CC	GG
CC	GG	GG	GG	GA	CC	CC	CC	CC	TC	AG	TC	GA	GG	AG	AA	GA	AG	CC	GT	TT	CT	GG	GG	AA	CC	GG	CC	CC	GG
AA	GG	TT	GG	GG	CC	CC	CC	CC	TT	GG	CC	GG	GG	GG	AA	GG	GG	TT	GG	TT	CT	GG	GG	AA	TC	GG	CC	CC	GG

7	7	7	19	19	19	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
100159354	100159464	100159726	11353060	11353555	11354355	61231940	61232031	61232955	61234873	61236316	61236508	61239272	61239494	61241016	61241179	61242633	61242943	61243114	61243530	61243575	61245973	61253385	61253412	61253881
New	rs551238	rs4729606	**New**	**New**	rs72992936	**New**	**New**	**New**	rs2301105	rs2301106	rs7143164	**New**	**New**	**New**	rs1951795	rs2301107	**New**	rs61997399	rs72714566	**New**	rs12232182	rs1957754	**New**	**New**
EPO	EPO	EPO	EPOr	EPOr	EPOr	HIF1A	HIF1A	HIF1A	HIF1A	HIF1A	HIF1A	HIF1A	HIF1A	HIF1A	HIF1A	HIF1A	HIF1A	HIF1A	HIF1A	HIF1A	HIF1A	HIF1A	HIF1A	HIF1A
C	G	T	A	G	G	G	C	G	C	T	G	T	T	C	A	G	C	A	G	G	C	T	A	C
T	T	C	C	A	A	A	A	A	T	C	C	C	A	T	C	A	G	C	A	A	T	C	C	A
CC	**GG**	**CC**	AA	GG	GG	GG	CC	GG	CC	TT	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	CC	AA	CA
CC	**GT**	**CT**	**AA**	**GG**	**GG**	GG	CC	GG	CC	TT	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	CC	AA	AC
CC	TT	TT	**AA**	GG	GG	GG	CC	GG	CC	TT	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	CC	AA	CC
CC	**TT**	**TT**	**AA**	GG	GG	GG	**CC**	**GG**	CC	TT	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	CC	AA	CC
CC	**GT**	**CT**	**AA**	**GG**	**GG**	GG	CC	GG	CC	TT	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	CC	AA	CC
CC	TT	TT	AA	GG	GG	GG	CC	GG	CC	TT	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	CC	AA	CC
CC	TT	TT	AA	GG	GG	GG	CC	GG	CC	TT	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**CT**	**AA**	**CC**
CC	TT	TT	AA	GG	GG	GG	CC	GG	CC	TT	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**CC**	**AA**	**AA**
CC	TT	TT	AA	GG	GG	GG	CC	GG	CC	TT	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	CC	**AA**	**CC**
CC	TT	**CT**	AA	GG	GG	GG	CC	GG	CC	TT	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	CC	AA	**CA**
CC	TT	TT	AA	GG	GG	GG	CC	GG	CC	TT	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	CC	AA	CC
CC	TT	TT	AA	GG	GG	GG	CC	GG	CC	TT	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	CC	AA	CC
CC	TT	TT	**AA**	**GG**	**GG**	**AG**	**CA**	**GG**	**CC**	**TT**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	CC	AA	CC
CC	**TT**	**TT**	**AA**	**GG**	**GG**	**GG**	**CC**	**GG**	**CC**	**TT**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	CC	AA	CC
CC	**GT**	**TT**	**AA**	**GG**	**GG**	GG	**CC**	**GG**	**CC**	**TT**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	CC	AA	CC
CC	TT	TT	AA	GG	GG	GG	CC	GG	**CC**	**TT**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	CC	AA	CA
CC	TT	TT	AA	GG	GG	GG	CC	GG	CC	TT	GG	TT	TT	CC	CC	GG	CC	AA	GG	GG	TT	CC	AA	CC
CC	TT	TT	AA	GG	GG	GG	CC	GG	CC	TT	GG	TT	TT	CC	CC	GG	CC	AA	GG	GG	TT	CC	AA	CC
CC	**TG**	**TT**	**AA**	GG	GG	**GG**	**CC**	**GG**	**CC**	**TT**	GG	TT	TT	CC	CC	GG	CC	AA	GG	GG	TT	CC	AA	CC
CC	**TT**	**TT**	**AC**	GG	GG	**GG**	**CC**	**GG**	**CC**	**TT**	GG	TT	TT	**CC**	**CC**	**GG**	**CC**	**AA**	**GG**	**GG**	TT	CC	AA	CC
CC	**TT**	**TT**	**AA**	**GG**	**GG**	GG	CC	**GG**	**CC**	TT	GG	TT	TT	CC	CC	GG	CC	AA	GG	GG	TT	CC	AA	CC
CC	**TG**	**TC**	**AA**	**GG**	**GG**	GG	**CC**	**GA**	CC	TT	GG	TT	TT	CC	CC	GG	CC	**AA**	**GG**	**GA**	TT	CC	AA	CC
CC	**TT**	**TT**	**AA**	**GG**	**GG**	**GG**	**CC**	**GG**	**CC**	**TT**	**GG**	**TT**	**TA**	**CC**	**CC**	GG	CC	AA	GG	GG	TT	CC	AC	CC
CC	**TG**	**TC**	**AA**	**GG**	**GG**	**NA**	**NA**	**GG**	**CC**	**TT**	GG	TT	TT	CC	CA	NA	NA	AA	GG	GG	NA	CC	AA	CC
CC	**TG**	**TC**	**AA**	**GG**	**GG**	**GG**	**CC**	**GG**	**CC**	**TT**	GG	TT	**TT**	**CC**	**CC**	GG	CC	AA	GG	**GG**	TT	CC	AA	CC
CC	GG	TC	AC	GG	GG	GG	CC	**GG**	**CC**	**TT**	**GG**	**TT**	**TT**	**CC**	**CC**	**GG**	**CC**	**AA**	**GG**	**GG**	TT	**CC**	**AA**	**CC**
CC	TT	TT	AA	GG	GG	GG	CC	**GG**	**CC**	**TT**	**GG**	**TT**	**TT**	**CC**	**CC**	GG	CC	AA	GG	GG	TT	CC	CA	CC
CC	TT	TT	AA	GG	GG	GG	CC	**GG**	**CC**	**TT**	**GG**	**TT**	**TT**	**CC**	**CC**	**GG**	**CC**	**AA**	**GG**	**GG**	**TT**	**CC**	**AA**	**CC**
CC	TT	TT	**AA**	GG	GG	GG	CC	**GG**	**CC**	**TT**	GG	TT	TT	CC	CC	GG	CC	AA	GG	GG	TT	CC	AA	CC
CC	TT	TT	AA	GG	GG	NA	NA	GG	CC	TT	GG	TT	TT	CC	CC	NA	NA	AA	GG	GG	NA	CC	AA	CC
CC	TT	TT	AA	GG	GG	NA	NA	GG	CC	TT	GG	TT	TT	CC	CC	NA	NA	AA	GG	GG	NA	**CC**	**AA**	**CC**
CC	**TT**	**TT**	**AA**	**GG**	**GG**	NA	NA	GG	CC	TT	GG	TT	TT	**CC**	**CC**	NA	NA	AA	GG	GG	NA	CC	AA	AC
CC	**TG**	**TT**	**AA**	**GG**	**GG**	NA	NA	GG	CC	TT	GG	TT	TT	CC	**CA**	NA	NA	AA	GG	GG	NA	CC	AA	CC
CC	**TG**	**TT**	**AA**	**GG**	**GG**	NA	NA	GG	CC	TT	GG	TT	TT	CC	CC	NA	NA	AA	GG	GG	NA	CC	AA	CC
CC	TT	TT	**AA**	**GG**	**GG**	NA	NA	GG	CC	TT	GG	**TT**	TT	**CC**	**CC**	NA	NA	AA	GG	GG	NA	CC	AA	CC
CC	**TT**	**TT**	**AA**	**GA**	**GG**	NA	NA	GG	CC	**TT**	**GG**	**TT**	**TT**	**CC**	**CC**	NA	NA	**AA**	GG	GG	NA	CC	AA	CC
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CC	TT	TT	AA	GG	GG	NA	NA	GG	CC	TT	GG	TT	TT	CC	CC	NA	NA	AA	GG	GG	NA	**CC**	**AA**	**CC**
CC	**TG**	TT	**AA**	GG	GG	NA	NA	GG	CC	TT	GG	TT	TT	CC	CC	NA	NA	AA	GG	GG	NA	CC	AA	CC
CC	**TT**	**TT**	**AA**	**GG**	**GG**	NA	NA	GG	CC	TT	GG	TT	TT	CC	CC	NA	NA	AA	GG	GG	NA	CC	AA	CC
CC	**TT**	**TT**	**AA**	**GG**	**GG**	NA	NA	GG	CC	TT	GG	TT	TT	CC	CC	NA	NA	AA	GG	GG	NA	CC	AA	CC
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CC	**TT**	**TT**	**AA**	**GG**	**GG**	NA	NA	GG	CC	TT	GG	TT	TT	CC	CC	NA	NA	AA	GG	GG	NA	CC	AA	CC
CC	**TG**	**TC**	**AA**	**GG**	**GG**	NA	NA	GG	CC	TT	GG	TT	TT	CC	CC	NA	NA	AA	GG	GG	NA	CC	AA	CC
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CC	GT	CT	AA	GG	GG	GG	CC	GG	CC	**TT**	**GG**	**TT**	**TT**	**CC**	**CC**	**GG**	**CC**	**AA**	**GG**	**GG**	**TT**	**CC**	**AA**	**CC**
CC	TG	TT	**AA**	GG	GG	GG	CC	GG	CC	TT	GG	TT	TT	**CC**	**CC**	**GG**	**CC**	**AC**	**GG**	**GG**	TT	**CC**	**AA**	**CC**
CC	TG	TT	AA	GG	GG	GG	CC	GG	**CC**	**TT**	GG	TT	TT	**CC**	**CC**	**GG**	**CC**	**AA**	**GG**	**GG**	TT	**CC**	**AA**	**CC**
CC	TG	TT	AA	GG	GG	GG	CC	GG	CC	TT	GG	TT	TT	**CT**	**CA**	**GG**	**GC**	**AA**	**AG**	**GG**	**TC**	**CC**	**AA**	**CA**
CC	TG	TC	**AA**	**GG**	**GG**	GG	CC	GG	CC	**TT**	**GG**	**TT**	**TT**	**CC**	**CC**	**GG**	**CC**	**AA**	**GG**	**GG**	**TT**	**CC**	**AA**	**CC**
CC	**GT**	**CT**	**AA**	**GG**	**GG**	**GG**	**CC**	**GG**	**CC**	**TT**	GG	TT	TT	**CT**	**CA**	**GG**	**CC**	**AA**	**GG**	**GG**	**TC**	CC	AA	**CA**
CC	**GT**	**CT**	**AA**	**GG**	**GG**	GG	CC	GG	CC	TT	GG	TT	TT	**CC**	**CC**	**GG**	**CC**	**AA**	**GG**	**GG**	**TT**	CC	AA	CC
CC	**GG**	**CT**	**AA**	**GG**	**GG**	**GG**	**CC**	**GG**	**CC**	**TT**	**GG**	TT	**TT**	**CC**	**CC**	GG	**CC**	**AA**	GG	GG	TT	**CC**	**AA**	**CC**
CC	**TT**	**TT**	**AA**	**GG**	**GG**	**GG**	**CC**	**GG**	**CC**	**TT**	GG	TT	TT	**CC**	**CC**	**GG**	**CC**	**AA**	**GG**	**GG**	**TT**	**CC**	**AA**	**CC**
CC	**GG**	**CC**	**AA**	**GG**	**GG**	GG	**CC**	**GG**	**CC**	**TT**	GG	TT	TT	CC	**CC**	**GG**	**CC**	**AA**	**GG**	**GG**	TT	CC	**AA**	CC
CC	TG	TT	AA	GG	GG	GG	CC	GG	CC	**CC**	**GG**	**TT**	**TT**	**CT**	**CA**	**GG**	**CC**	**AA**	**GG**	**GG**	**CC**	**CC**	**AA**	**AA**
CC	TG	TT	AA	GG	GG	GG	CC	GG	CC	CT	GG	TT	TT	**TT**	**AA**	**GG**	**CC**	**AA**	**GG**	**GG**	**CC**	**CC**	**AA**	**AA**
CC	TG	TT	AA	GG	GG	GG	CC	GG	CC	TT	GG	TT	TT	CC	CC	GG	CC	AA	GG	GG	TT	CC	AA	CC
CC	GT	CT	**AC**	GG	GG	GG	CC	GG	CC	**TT**	GG	TT	**TT**	**CC**	**CC**	**GG**	**CC**	**AA**	**GG**	**GG**	TT	CC	AA	CC
CC	GT	CT	AA	GG	GG	GG	CC	GG	CC	TT	GG	TT	TT	**CC**	**CC**	GG	**CC**	**AA**	GG	GG	TT	CC	AA	CC
CC	TG	TT	AA	GG	GG	GG	CC	GG	CC	**TT**	**GG**	**TC**	**TT**	**CC**	**CC**	**GG**	**CC**	**AA**	**GG**	**GG**	**TT**	**CC**	**AA**	**CC**
CC	**TT**	**TT**	**AA**	**GG**	**GG**	GG	CC	GG	CC	TC	GG	TT	TT	**CC**	**CC**	**GG**	**CC**	**AA**	**GG**	**GG**	**TC**	**CC**	**AA**	**CA**
CC	**TT**	TT	**AA**	**GG**	**GG**	GG	CC	GG	CC	TT	GG	TT	TT	CC	CC	GG	CC	AA	GG	GG	TT	CC	AA	CC
CC	**GT**	**TT**	**AA**	**GG**	**GA**	GG	CC	GG	CC	TT	GG	TT	TT	**CC**	**CC**	**GG**	**CC**	**AA**	**GA**	**GG**	**TT**	**CC**	AA	**CC**
CT	**TT**	**TT**	**AA**	**AG**	**GG**	NA	NA	NA	NA	TC	GG	TT	TT	**CT**	**CA**	**GG**	**CC**	**AA**	**GG**	**GG**	**TC**	**CC**	**AA**	**CA**
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CC	TT	TT	AA	GG	GG	NA	NA	NA	NA	TT	GG	TT	TT	CC	CC	GG	CC	AA	GG	GG	TT	CC	AA	CC
CC	TT	TT	AA	GG	GG	NA	NA	NA	NA	TT	GG	TT	TT	**CC**	**CC**	GG	**CC**	**AC**	**GG**	**GG**	TT	CC	**AA**	**CC**
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CC	TT	TT	AA	GG	GG	NA	NA	NA	NA	TC	GG	TT	TT	**CT**	**CA**	**GG**	**CC**	**AA**	**GG**	**GG**	TC	**CC**	**AA**	**CA**
CC	TT	TT	AA	GG	GG	NA	NA	NA	NA	**TT**	**GG**	**TT**	**TT**	**CC**	**CC**	**GG**	**CC**	**AA**	**GG**	**GG**	TT	**CC**	**AA**	**CC**
CC	TT	TT	AA	GG	GG	NA	NA	NA	NA	**TC**	**GG**	**TT**	**TT**	**CT**	**CA**	**GG**	**CC**	**AA**	**GG**	**GG**	TC	**CC**	**AA**	**CA**
CC	TT	TT	**AA**	**GG**	**GG**	NA	NA	NA	NA	TT	GC	TT	TT	**CC**	**CA**	**GG**	**CC**	**AA**	**GG**	**GA**	TC	CC	AA	CC
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CC	TT	TT	**AA**	**GG**	**GG**	NA	NA	NA	NA	TT	GC	TT	TT	**CC**	**CA**	**GG**	**CC**	**AA**	**GG**	**GA**	**TC**	**CC**	**AA**	**CC**
CC	**TT**	**TT**	**AA**	**GG**	**GG**	NA	NA	NA	NA	TC	GG	TT	TT	**CT**	**CA**	**GG**	**CC**	**AA**	**GG**	**GG**	**TC**	**CC**	**AA**	**CA**
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CC	TT	TT	**AA**	**GG**	**GG**	NA	NA	NA	NA	TT	GG	TT	TT	CC	CC	GG	CC	AA	GG	GG	TT	CC	AA	CC
CC	TT	TT	AA	GG	GG	NA	NA	NA	NA	**TT**	GG	**TT**	**TT**	**CC**	**CC**	GG	CC	AA	GG	GG	TT	CC	AA	CC
CC	TT	TT	AA	GG	GG	NA	NA	NA	NA	**TT**	**GG**	**TT**	**TT**	**CC**	**CC**	GG	CC	AA	GG	GG	TT	CC	AA	CC
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CC	TT	TT	**AA**	GG	GG	NA	NA	NA	NA	TC	GG	TT	TT	CT	CA	GG	CC	AA	GG	GG	TC	**CC**	**AA**	**CA**
CC	TT	TT	AA	GG	GG	NA	NA	NA	NA	**TT**	**GG**	**TT**	**TT**	**CC**	**CC**	**GG**	**CC**	**AA**	**GG**	**GG**	**TT**	**CC**	AA	**CC**

14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
61253942	61254849	61255048	61255445	61255542	61255680	61255919	61256231	61256384	61256965	61257475	61257574	61258419	61259208	61259284	61259553	61260485	61262281	61263874	61264570	61265698	61265902	61266370	61266701	61267051
New	**New**	rs8005745	rs3783752	**New**	**New**	**New**	rs2284999	rs17256373	rs61755705	rs10137588	rs10148514	**New**	**New**	rs4899056	**New**	rs1957756	**New**	**New**	**New**	rs12887165	**New**	rs72714570	rs1957757	rs12434438
HIF1A	HIF1A	HIF1A	HIF1A	HIF1A	HIF1A	HIF1A	HIF1A	HIF1A	HIF1A	HIF1A	HIF1A	HIF1A	HIF1A	HIF1A	HIF1A	HIF1A	HIF1A	HIF1A	HIF1A	HIF1A	HIF1A	HIF1A	HIF1A	HIF1A
T	T	T	A	A	C	G	C	A	G	T	C	A	A	T	G	A	G	T	G	C	C	C	T	G
A	C	A	G	G	A	C	T	G	C	G	T	G	T	C	A	T	A	C	C	A	T	G	C	A
TT	*TT*	*AA*	*GG*	*AA*	*CC*	*GG*	*TT*	*AA*	*GG*	*GG*	*TT*	*AA*	*AA*	*CC*	*GG*	*TT*	*GG*	*TT*	*GG*	*AA*	*CC*	*CC*	*CC*	*AA*
TT	*TT*	*AA*	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**GG**	**GG**	**TT**	**AA**	**AA**	**CC**	**GG**	*TT*	*GG*	*TT*	*GG*	*AA*	*CC*	*CC*	*CC*	*AA*
TT	*TT*	*AA*	**GA**	**AA**	**CC**	**GG**	**TC**	**AA**	**GG**	**TG**	**CT**	**AA**	**AA**	*CC*	**GG**	**TA**	**GA**	**TT**	**GG**	**AC**	**CC**	**CC**	**TC**	**GA**
TT	*TT*	*AA*	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**GG**	**GG**	**TT**	**AG**	**AA**	*CC*	**GG**	*TT*	**GG**	**TT**	**GG**	**AA**	**CT**	**CG**	**CC**	**AA**
TT	*TT*	*AA*	*GG*	**AA**	**CC**	*GG*	*TT*	**AA**	**GG**	**GG**	*TT*	*AA*	*AA*	*CC*	**GG**	*TT*	**AG**	**TT**	*GG*	**CA**	**CC**	**CC**	*CC*	*AA*
TT	*TT*	*AA*	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**GG**	**GG**	**TT**	*AA*	**AA**	*CC*	**GG**	*TT*	**AG**	*TT*	**GG**	**AA**	**CC**	**CC**	*CC*	*GA*
TT	**TT**	**AT**	**AG**	**AA**	**CC**	**GG**	**TC**	**AA**	**GG**	*GG*	*TT*	*AA*	*AA*	*CC*	**GG**	**TA**	**GA**	*TT*	*GG*	*AA*	*CC*	*CC*	*CC*	*AG*
TT	**TT**	**AA**	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**GG**	*GG*	*TT*	*AA*	**AA**	**CC**	**GG**	*TT*	*GG*	**TT**	*GG*	*AA*	*CC*	**CC**	**CC**	**GG**
TT	*TT*	*AA*	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**GG**	*GG*	*TT*	*AA*	*AA*	*CC*	**GG**	**TT**	*GG*	**TT**	**GG**	*AA*	*CC*	**CC**	**CC**	**AA**
TT	**TT**	**AA**	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**GG**	**GG**	*TT*	**AA**	**AA**	**CC**	**GG**	*TT*	**GG**	**TT**	**GG**	**AA**	**CC**	**CG**	**CC**	**AG**
TT	*TT*	*AA*	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**GG**	*GG*	*TT*	**AA**	**AA**	**CC**	**GG**	*AT*	*GG*	*TT*	*GG*	*AA*	*CC*	*CC*	*CC*	*AA*
TT	*TT*	*AA*	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**GG**	*GG*	*TT*	*AA*	*AA*	*CC*	**GG**	*TT*	*GG*	*TT*	*GG*	*AA*	*CC*	*CC*	*CC*	*AA*
TT	*TT*	*AA*	**AG**	**AA**	**CC**	**GG**	**TC**	**AG**	**GG**	**GG**	**TT**	*AA*	*AA*	*CC*	*GG*	*TT*	*GG*	*TT*	*GG*	**AC**	**CT**	*CC*	*CC*	*AA*
TT	**TT**	**AA**	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**GG**	**GG**	**TT**	*AA*	*AA*	*CC*	**GG**	*TT*	**GG**	**TT**	*GG*	**AA**	**CC**	**CC**	*CC*	**GA**
TT	**TT**	*AA*	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**GG**	**GG**	**TT**	**AA**	**AA**	**CC**	**GG**	*TT*	**GG**	*TT*	*GG*	**AC**	*CC*	*CC*	*CC*	*AA*
TT	**TT**	**AA**	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**GG**	*GG*	*TT*	*AA*	**AA**	**CC**	**GG**	**TT**	**GG**	**TT**	*GG*	*AA*	*CC*	*CC*	*CC*	*AA*
TT	*TT*	*AA*	*GG*	*AA*	*CC*	*GG*	*TT*	*AA*	*GG*	*GG*	*TT*	*AA*	*AA*	*CC*	*GG*	*TT*	*GG*	*TT*	*GG*	*AA*	*CC*	*CC*	*CC*	*AA*
TT	**TT**	*AA*	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**GG**	*GG*	*TT*	*AA*	*AA*	**CC**	**GG**	**TT**	*GG*	**TT**	*GG*	*AA*	*CC*	**CC**	*CC*	**AA**
TT	*TT*	*AA*	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**GG**	**GG**	**TT**	*AA*	*AA*	*CC*	*GG*	*TT*	*GG*	*TT*	*GC*	*AA*	*CC*	*CC*	*CC*	*AA*
TT	*TT*	*AA*	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**GG**	**GG**	**TT**	**AA**	*AA*	*CC*	**GG**	*TT*	**GG**	**TT**	**GG**	**AA**	**CC**	**CC**	**CC**	*AA*
TT	*TT*	*AA*	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**GG**	**GG**	**TT**	*AA*	**AA**	*CC*	**GG**	*TT*	**GA**	**TT**	*GG*	**AA**	**CC**	**CC**	*CC*	*AA*
TT	*TT*	*AA*	*GG*	*AA*	*CC*	*GG*	*TT*	*AA*	*GG*	**GT**	*TT*	*AA*	*AA*	*CC*	*GG*	*TT*	**GG**	*TT*	*GG*	**AC**	**CC**	*CC*	*CC*	*AA*
TT	**TT**	*AA*	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**GG**	**GG**	**TT**	**AA**	**AA**	**CC**	**GG**	*TT*	**GG**	**TT**	**GC**	**AA**	**CC**	**CC**	*CC*	*AA*
TT	*TC*	*AA*	*GA*	*AA*	**CC**	*GG*	*TC*	*AA*	*GG*	*GT*	*TC*	*AA*	*AT*	*CT*	**GG**	*TT*	*GG*	*TT*	*GG*	**CA**	*CC*	*CC*	*CT*	*AG*
TT	**TT**	**AA**	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**GG**	**GG**	**TT**	**AA**	**AA**	**CC**	**GG**	*TT*	**GG**	**TT**	**GG**	**AA**	**CC**	**CC**	*CC*	**AA**
TT	**TT**	**AA**	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**GG**	*GG*	*TT*	**AA**	**AA**	**CC**	**GG**	**TT**	**GG**	**TT**	**GC**	**AA**	**CC**	**CC**	**CC**	**AA**
TT	*TT*	*AA*	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**GG**	*GG*	*TT*	**AA**	**AA**	**CC**	**GG**	*TT*	*GG*	**TT**	*CG*	*AA*	*CC*	**CC**	**CC**	**AA**
TT	**TT**	**AA**	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**GG**	*GG*	**TT**	**AA**	**AA**	**CC**	**GG**	**TT**	**GG**	**TT**	**GG**	**AA**	**CC**	**CC**	**CC**	**AA**
TT	*TT*	*AA*	**GG**	**AA**	**CC**	*GG*	**TT**	**AA**	*GG*	*GG*	*TT*	*AA*	*AA*	*CC*	**GG**	*TT*	*GA*	*TT*	*GG*	*AA*	*CC*	*CC*	*CC*	*AA*
TT	*TT*	*AA*	*GG*	*AA*	*CC*	*GG*	*TT*	*AA*	*GG*	*GG*	*TT*	*AA*	*AA*	*CC*	*GG*	*TT*	*GG*	*TT*	*GG*	*AA*	*CC*	*CC*	*CC*	*AA*
TT	**TT**	**AA**	**GG**	**AA**	**CC**	*GG*	*TT*	*AA*	*GG*	*GG*	*TT*	*AA*	*AA*	*CC*	**GG**	*TT*	*GG*	**TT**	*GG*	*AA*	*CC*	**CC**	**CC**	**AA**
TT	*TT*	*AA*	*GG*	**AA**	**CC**	**GG**	**TT**	**AA**	**GG**	**GG**	**TT**	*AA*	*AA*	*CC*	*GG*	*TT*	**GG**	*TT*	*GG*	**AA**	**CC**	*CC*	*CC*	*GA*
TT	**TC**	*AA*	**GA**	**AA**	**CC**	**GG**	**TC**	**AA**	**GG**	**GT**	**TC**	**AA**	**AT**	*CT*	**GG**	*TT*	**GG**	**TT**	**GG**	**CA**	**CC**	**CC**	**CT**	**AG**
TT	**TT**	*AA*	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**GG**	**GG**	**TT**	*AA*	**AA**	*CC*	**GG**	*TT*	**GG**	**TT**	**GG**	**AA**	**CC**	**CC**	*CC*	**AG**
TT	*TT*	*AA*	**GG**	**AA**	**CC**	*GG*	**TT**	**AA**	**GG**	**GG**	**TT**	*AA*	*AA*	*CC*	*GG*	*TT*	**GG**	*TT*	*GG*	**AA**	**CC**	**CC**	*CC*	*AA*
TT	*TT*	*AA*	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**GG**	**GG**	**TT**	**AA**	**AA**	**CC**	**GG**	*TT*	**GG**	*TT*	*GG*	**CA**	*CC*	*CC*	*CC*	*AA*
TT	*TT*	*AA*	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**GG**	*GG*	*TT*	**AA**	**AA**	**CC**	**GG**	*TT*	*GG*	**TT**	*GG*	*AA*	*CC*	**CC**	**CC**	**AG**
TT	*TT*	*AA*	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**GG**	*GG*	*TT*	**AA**	**AA**	**CC**	**GG**	*TT*	*GG*	**TT**	*GG*	*AA*	*CC*	**CC**	**CC**	**AA**
TT	**TT**	**AT**	**AG**	**AA**	**CC**	**GG**	**CT**	**GA**	**GG**	*GG*	*TT*	*AA*	**AA**	*CC*	**GG**	*TT*	*GG*	**TT**	*GG*	*AA*	*CC*	**CC**	**CT**	**AG**
TT	*TT*	*AA*	**GG**	**AA**	**CC**	*GG*	**TT**	**AA**	**GG**	*GG*	*TT*	*AA*	*AA*	*CC*	**GG**	*TT*	*GG*	**TT**	*GG*	**AA**	*CC*	**CC**	**CC**	**AA**
TT	*TT*	*AA*	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**GG**	*GG*	*TT*	*AA*	*AA*	*CC*	**GG**	*TT*	*GG*	**TT**	*GG*	*AA*	*CC*	**CC**	*CC*	**AA**
TT	**TT**	**AA**	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**GG**	*GG*	*TT*	*AA*	*AA*	*CC*	**GG**	*TT*	*GG*	**TT**	*GG*	*AA*	*CC*	**CC**	**CC**	**AA**
TT	*TT*	*AA*	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**GG**	**GG**	**TT**	*AA*	*AA*	*CC*	**GG**	*TT*	*GG*	**CT**	**GG**	**AA**	**CC**	**CC**	*CC*	**AA**
TT	*TT*	*AA*	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**GG**	**GG**	**TT**	*AA*	*AA*	*CC*	**GG**	*TT*	**GG**	**TT**	**GG**	**AA**	**CC**	**CC**	**CC**	**AG**
TT	**TT**	*AA*	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**GG**	**GG**	**TT**	**AA**	*AA*	*CC*	**GG**	*TT*	**GG**	**TT**	**GG**	**AA**	**CC**	**CC**	*CC*	**AG**
TT	*TT*	*AA*	**GG**	*AA*	*CC*	**GG**	**TT**	*AA*	**GG**	**GG**	**TT**	*AA*	*AA*	*CC*	*GG*	*TT*	*GG*	*TC*	*GG*	**AA**	**CC**	*CC*	*CC*	*AA*
TT	**TC**	*AA*	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**GG**	**GG**	**TT**	**AA**	**TA**	**CC**	**GG**	*TT*	**GG**	**TT**	**GG**	**AA**	**CC**	**CC**	*CC*	**AA**
TT	**TT**	**AA**	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**GG**	**GG**	**TT**	**AA**	**AA**	**CC**	**GG**	**TT**	**GG**	**TT**	**GG**	**AA**	**CC**	**CC**	**CC**	**AA**
TT	*TC*	*AA*	**GA**	**AA**	**CC**	**GG**	**TC**	**AA**	**GG**	*GT*	*TC*	**AA**	**AT**	**CT**	**GG**	**TT**	**GG**	**TT**	**GG**	*AA*	*CC*	**CC**	**CT**	**AG**
TT	**TT**	**AT**	**AG**	**AA**	**CC**	**GG**	**CT**	**AA**	**GG**	**TG**	**TC**	**AA**	**AA**	**TC**	**GG**	**TT**	**GG**	**TT**	**GG**	**CA**	**CC**	**CC**	**TC**	**GA**
TT	**TT**	**AA**	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**GG**	*GG*	**TT**	**AA**	**AA**	**CC**	**GG**	**TT**	**GG**	**TT**	**GG**	**AA**	**CC**	**CC**	**CC**	**AA**
TT	**TT**	**AA**	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**GG**	**GG**	**TT**	**AA**	**AA**	**CC**	**GG**	*TT*	**GG**	**TT**	**GG**	**AA**	**CC**	**CC**	**CC**	**AA**
TT	**TT**	**AA**	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**GG**	*GG*	*TT*	**AA**	**AA**	**CC**	**GG**	**TT**	**GA**	**TT**	**GG**	**AA**	**CC**	**CC**	**CC**	**AA**
TT	**TT**	**AA**	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**GG**	*GG*	*TT*	**AA**	**AA**	**CC**	**GG**	**TT**	**GG**	**TT**	**GG**	*AA*	*CC*	**GC**	**CC**	**AG**
TT	**TT**	**AA**	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**GG**	**GG**	**TT**	**AA**	**AA**	**CC**	**GA**	**TT**	**GG**	**TT**	**GG**	**AA**	**CC**	**CC**	**CC**	**AA**
AT	**TT**	**AA**	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**GG**	**GG**	**TT**	**AA**	**AA**	**CC**	**GG**	*TT*	**GG**	**TT**	**GG**	**AA**	**CC**	**CC**	**CC**	**AG**
TT	**TT**	**AA**	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**GG**	**GG**	**TT**	**AA**	**AA**	**CC**	**GG**	*TT*	**GA**	**TT**	**GG**	**AA**	**CC**	**CC**	**CC**	**AA**
TT	**TT**	**AA**	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**GG**	**GG**	**TT**	**AA**	**AA**	**CC**	**GG**	**TT**	**GG**	**TT**	**GG**	**AA**	**CC**	**CC**	**CC**	**AA**
TT	**TT**	**AA**	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**GG**	**GG**	**TT**	**AA**	**AA**	**CC**	**GG**	**TT**	**GG**	**TT**	**GG**	**AA**	**CC**	**CC**	**CC**	**AA**
TT	**TT**	**AA**	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**GC**	**GG**	**TT**	**AA**	**AA**	**CC**	**GG**	*TT*	**GG**	**TT**	**GG**	**AA**	**CC**	**CC**	*CC*	**AA**
TT	**TT**	**AA**	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**GG**	*GG*	*TT*	**AA**	**AA**	**CC**	**GG**	**TT**	**GG**	**TT**	**GG**	**AA**	*CC*	**CC**	**CC**	**GG**
TT	**TT**	**AA**	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**GG**	*GG*	**TT**	**AA**	**AA**	**CC**	**GG**	**TT**	**GG**	**TT**	**GG**	**AA**	**CC**	**CC**	**CC**	**GG**
TT	*TT*	*AA*	*GG*	*AA*	**CC**	*GG*	*TT*	*AA*	*GG*	*GG*	*TT*	*AA*	*AA*	*CC*	*GG*	*TT*	*GG*	*TT*	*GG*	*AA*	*CC*	*CC*	*CC*	*AA*
TT	**TT**	*AA*	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**GG**	**GG**	**TT**	**AA**	**AA**	**CC**	**AA**	*TT*	**GG**	**TT**	**GG**	**AA**	**CC**	**CC**	**CC**	**AA**
TT	*TT*	*AA*	*GG*	*AA*	**CC**	*GG*	*TT*	*AA*	*GG*	*GG*	*TT*	*AA*	*AA*	*CC*	**GG**	*TT*	*GG*	*TT*	*GG*	*AA*	*CC*	*CC*	*CC*	*AA*
TT	**TT**	**AA**	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**GG**	*GG*	*TT*	**AA**	**AA**	**CC**	**GG**	**TT**	*GG*	**TT**	**GG**	*AA*	*CC*	**CC**	**CC**	**AA**
TT	**TT**	**AA**	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**GG**	**GG**	**TT**	**AA**	**AA**	**CC**	**GG**	**TT**	**GG**	**TT**	**GG**	**AA**	**CC**	**CC**	**CC**	**AG**
TT	**TT**	**AA**	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**GG**	**GG**	**TT**	**AA**	**AA**	**CC**	**GG**	**TT**	**GG**	**TT**	**GG**	**AA**	**CC**	**CC**	**CC**	**AA**
TT	**TT**	*AA*	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**GG**	**GG**	**TT**	**AA**	**AA**	**CC**	**GG**	*TT*	**GG**	**TT**	**GG**	**AA**	**CC**	**CG**	**CC**	**AA**
TT	**TT**	**AA**	**GG**	**GA**	**CC**	**GG**	**TT**	**AA**	**GG**	**GG**	**TT**	**AA**	**AA**	**CC**	**GG**	**TT**	**GG**	**TT**	**GG**	**AA**	**CC**	**CC**	**CC**	**AG**
TT	*TT*	*TA*	*AG*	**AA**	*CC*	*CG*	**CT**	*AA*	**GG**	**TG**	**CT**	*AA*	*AA*	*TC*	*GG*	*TT*	*GG*	*TT*	*GG*	**CC**	*CC*	*CC*	*TC*	*GA*
TT	*TT*	*AA*	*GG*	*AA*	*CC*	*GG*	*TT*	*AA*	*GG*	*GG*	*TT*	*AA*	*AA*	*CC*	*GG*	*TT*	*GG*	*TT*	*GG*	*AA*	*CC*	*CC*	*CC*	*AA*
TT	*TT*	*AA*	**GG**	**AA**	**CA**	**GG**	**TT**	**AA**	**GG**	*GG*	*TT*	**AA**	**AA**	**CC**	**GG**	**TT**	*GG*	**TT**	**GG**	*AA*	*CC*	**CC**	**CC**	**AA**
TT	**TT**	**AA**	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**GG**	*GG*	*TT*	**AA**	**AA**	**CC**	**GG**	**TT**	**GG**	**TT**	**GG**	*AA*	*CC*	**CC**	**CC**	**AA**
TT	*TT*	*AA*	*GG*	*AA*	*CC*	*GG*	*TT*	*AA*	*GG*	*GG*	*TT*	*AA*	*AA*	*CC*	**GG**	*TT*	*GG*	*TT*	*GG*	*AA*	*CC*	*CC*	*CC*	*AA*
TT	**TT**	**AA**	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**GG**	*GG*	*TT*	*AA*	*AA*	*CC*	**GG**	**TT**	**GG**	**TT**	**GG**	**AA**	**CC**	**CC**	**CC**	**AG**
TT	**TT**	**AA**	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**GG**	*GG*	*TT*	*AA*	*AA*	**CC**	**GG**	**TT**	*GG*	**TT**	*GG*	*AA*	*CC*	**CC**	**CC**	**AA**
TT	**TT**	**AA**	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**GG**	*GG*	*TT*	**AA**	**AA**	**CC**	**GG**	**TT**	**GG**	**TT**	**GG**	*AA*	*CC*	**CC**	**CC**	**AG**
TT	**TT**	*AT*	**GA**	**AA**	**CC**	**GC**	**TC**	**AA**	**GG**	**GT**	**TC**	**AA**	**AA**	**CT**	**GG**	*TT*	**GG**	*TT*	*GG*	**CC**	*CC*	*CC*	*CT*	*AG*
TT	**TT**	**AA**	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**GG**	**GG**	**TT**	**AA**	**AA**	**CC**	**GG**	*TT*	*GG*	**TT**	**GG**	**AA**	**CC**	**CC**	*CC*	*AA*
TT	**TT**	**AT**	**GA**	**AA**	**CC**	**GC**	**TC**	**AA**	**GG**	**GT**	**TC**	*AA*	*AA*	*CT*	**GG**	**TT**	**GG**	**TT**	**GG**	**AC**	**CC**	**CC**	**CT**	**AG**
TT	**TT**	**AA**	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**GG**	**GG**	**TT**	**AA**	**AA**	**CC**	**GG**	**TT**	**GG**	**TT**	**GG**	**AA**	**CC**	**CC**	**CC**	**AG**
TT	**TT**	*AA*	**GG**	**AA**	**CC**	*GG*	**TT**	**AA**	**GG**	**GG**	**TT**	*AA*	*AA*	*CC*	**GG**	*TT*	**GG**	**TT**	**CG**	**AA**	**CC**	**CC**	*CC*	**AG**
TT	**TT**	*AA*	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**GG**	**GG**	*TT*	*AA*	*AA*	*CC*	**GG**	*TT*	**GG**	**TT**	**GC**	**AA**	**CC**	**CC**	*CC*	*AA*
TT	**TT**	**AA**	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**GG**	*GG*	*TT*	*AA*	*AA*	*CC*	**GG**	*TT*	*GG*	**TT**	*GG*	*AA*	*CC*	**CC**	**CC**	**AA**
TT	**TT**	*AA*	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**GG**	*GG*	**TT**	**AA**	**AA**	**AA**	**CC**	**GG**	*TT*	*GG*	**TT**	*GG*	*AA*	*CC*	**CC**	**CC**	**AA**
TT	**TT**	**AT**	**GA**	**AA**	**CC**	**GC**	**TC**	**AA**	**GG**	**GT**	**TC**	**AA**	**AA**	**CT**	**GG**	*TT*	*GG*	*TT*	*GG*	*AC*	*CC*	*CC*	*CT*	*AG*
TT	**TT**	**AA**	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**GG**	**GG**	*TT*	**AA**	**AA**	**CC**	**GG**	**TT**	**GG**	**TT**	**GG**	**AA**	**CC**	**CC**	**CC**	**AG**
TT	**TT**	**AA**	**GG**	**AA**	**CC**	**GG**	**TT**	**AA**	**GG**	*GG*	**TT**	**AA**	**AA**	**CC**	**GG**	**TT**	**GG**	**TT**	*GG*	*AA*	*CC*	**CC**	**CC**	**AA**

14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
61267217	61267349	61268230	61268395	61268707	61269708	61269954	61269961	61270271	61271253	61272695	61272809	61273215	61275383	61276301	61276600	61276685	61276905	61277310	61277328	61277758	61277922	61278227	61278847	61279095	61279411
rs2301108	rs2301109	**New**	rs11622129	rs11158358	rs2301110	rs2301111	rs56946275	rs966824	rs7153817	rs4899057	rs11621525	rs10873142	rs72714575	rs2301113	rs1555585	rs6573398	**New**	rs11549465	rs11549467	rs4902080	rs1967773	rs4902081	rs8020184	rs3783751	rs12896279
HIF1A	HIF1A	HIF1A	HIF1A	HIF1A	HIF1A	HIF1A	HIF1A	HIF1A	HIF1A	HIF1A	HIF1A	HIF1A	HIF1A	HIF1A	HIF1A	HIF1A	HIF1A	HIF1A	HIF1A	HIF1A	HIF1A	HIF1A	HIF1A	HIF1A	HIF1A
A	G	C	T	G	C	G	C	T	G	G	T	C	C	C	T	A	T	C	G	T	T	C	C	C	G
G	A	T	G	C	A	C	T	C	A	A	A	T	T	A	C	G	A	T	A	C	C	G	T	G	A
GG	AA	CC	GG	CC	AA	CG	CC	CC	GG	GG	TT	TT	TC	**AA**	**CT**	AG	AA	TT	GG	NA	TT	NA	TT	GG	AA
GG	AA	CC	GG	CC	AA	GC	CC	CC	GG	**AA**	**TT**	**TT**	**CT**	**AA**	**CT**	**AA**	AA	TT	GG	NA	TC	NA	TT	GG	AA
AG	**GA**	CC	GG	CC	AA	CC	CC	CC	GG	GG	TT	TT	CC	AA	**TC**	**GA**	AA	TT	GG	NA	**TC**	NA	TT	**CG**	AA
GG	**AA**	**CC**	**GG**	**CC**	**AC**	**CC**	**CC**	**CC**	GA	**GG**	TT	TT	CC	AA	**CT**	**AG**	AA	TT	GG	NA	TT	NA	TT	**GG**	AA
GG	AA	**CC**	**TG**	**GC**	**CA**	**CG**	**CC**	CC	GG	**GG**	TT	TT	CC	AA	**TC**	GA	AA	TT	GG	NA	TC	NA	TT	GG	AA
GG	AA	CC	GG	CC	AA	CC	CC	CC	GG	GG	TT	TT	CC	AA	**TC**	GA	AT	TT	GG	NA	TT	NA	TT	GG	AA
AG	AA	CC	GG	CC	CA	CC	CC	CC	GA	GG	TT	TT	CC	AA	CC	AA	AA	CC	GG	NA	CC	NA	TT	GG	AA
GG	**AA**	**CC**	**TT**	**GG**	AA	**GG**	**CC**	**CC**	**GG**	GG	TT	TT	CC	AA	**TC**	GA	AA	TC	GG	NA	TC	NA	TT	GG	AA
GG	**AA**	CC	GG	CC	AA	CC	CC	CC	GA	GG	TT	TT	CC	AA	TC	GG	AA	CT	GG	NA	TC	NA	TT	GG	AA
GG	**AA**	CC	GG	CC	AA	CC	CC	CC	GG	GG	TT	TT	CC	**CC**	**CC**	**AA**	**AT**	**CT**	**GG**	NA	TT	NA	**TT**	**GG**	**AA**
GG	AA	CC	GG	CC	AA	CC	CC	**CC**	GG	GA	TT	TT	CC	AA	TC	GA	AA	CT	GG	NA	CC	NA	TT	GG	AA
GG	AA	CC	GG	CC	AA	CC	CC	CC	GA	GG	TT	TT	CC	AA	CC	AA	TA	TT	GG	NA	TT	NA	TT	GG	AA
GA	**AG**	**CC**	**GG**	**CC**	**AA**	**GC**	**CC**	**CC**	**AG**	GG	TT	TT	CC	AA	**CT**	AG	AA	CC	GG	NA	TT	NA	TT	GG	AA
GG	**AA**	**CC**	**GT**	**CG**	**AC**	**GC**	**CC**	**CC**	**GA**	GG	TT	TT	CC	AA	**CT**	**AG**	AA	TT	GG	NA	**CT**	NA	TT	**GG**	AA
GG	**AA**	**CC**	**GG**	**CC**	**AA**	**CC**	**CC**	**CC**	**AG**	GG	TT	TT	CT	AA	CC	AA	AA	TT	GG	NA	TC	NA	TT	GG	AA
GG	**AA**	CC	GG	CG	AA	CC	CC	CC	GG	GG	TT	TT	CC	AA	TC	AA	AA	CC	GG	NA	CC	NA	TT	GG	AA
GG	AA	CC	GG	CC	AA	CC	CC	CC	AA	GG	TT	TT	TT	AA	CC	AA	TT	CC	GG	CC	CC	GG	TT	GG	AA
GG	**AA**	**CC**	GG	**CC**	AA	**CC**	**CC**	**CC**	**AA**	GG	TT	TT	TT	AA	CC	AA	TT	CC	GG	CC	CC	GG	TT	GG	AA
GG	**AA**	**CC**	**GG**	**CC**	**AC**	**CC**	**CC**	**CC**	**AA**	GA	TT	TT	TT	AA	**CT**	**AG**	**TT**	**CC**	**GG**	CC	**CT**	GG	TT	**GG**	AA
GG	**AA**	**CC**	**GG**	**CC**	**AA**	CC	**CC**	CC	AA	**AG**	**TT**	**TT**	**CT**	**AA**	**TC**	**AA**	TT	CC	GG	CC	**CC**	GG	**TT**	**GG**	AA
GG	AA	**CT**	**GG**	**CC**	**AA**	**CC**	**CC**	**CC**	**AA**	GG	TT	TT	TC	**AA**	**CT**	AA	TT	CC	GG	CC	CC	GG	TT	**GG**	AA
AG	**GA**	**CC**	**GT**	**CG**	**CA**	**GC**	**CC**	**TC**	AA	AG	TT	TT	TT	AA	**TC**	AA	TT	CC	GG	CC	CC	GG	TT	GG	AA
GG	**AA**	**CC**	**GG**	**CC**	**AA**	**CC**	**CC**	**CC**	AA	**GA**	TT	TT	TT	**AA**	**CC**	**AA**	**TT**	**CC**	**GG**	**CC**	**CC**	**GG**	**TT**	**GG**	**AA**
GA	**AG**	**CC**	**GT**	**CG**	**AC**	**CG**	**CT**	**CT**	**AG**	AG	TT	TC	CD	AC	**CT**	**AA**	TT	CC	GG	CT	CT	GG	TC	GC	AG
GG	AA	**CC**	**GG**	**CC**	**AA**	**CC**	**CC**	**CC**	AA	AG	TT	TT	CT	**AA**	**TC**	**AA**	**TT**	**CC**	**GG**	**CC**	**CC**	**GG**	**TT**	**GG**	**AA**
GG	**AA**	**CC**	**GG**	**CC**	AC	**CC**	**CC**	**CC**	**AA**	AG	TT	TT	CT	**AA**	**TC**	**AA**	**TT**	**CC**	**GG**	**CC**	CC	**GG**	**TT**	**GG**	**AA**
GG	**AA**	CC	GG	CC	AA	**CC**	**CC**	**CC**	**AA**	AG	TT	TT	TT	**AA**	CC	**AA**	**TT**	**CC**	**GG**	**CC**	CC	**GG**	**TT**	**GG**	**AA**
GG	**AA**	**CC**	GG	**CC**	AA	**CC**	**CC**	**CC**	**AA**	GG	TT	TT	TT	**AA**	CC	**AA**	**TT**	**CC**	**GG**	**CC**	CC	**GG**	**TT**	**GG**	**AA**
GG	**AA**	**CC**	**GG**	**CC**	AA	**CC**	**CC**	**CC**	**AA**	GG	TT	TT	TT	AA	CC	AA	TT	CC	GG	CC	CC	GG	TT	GG	AA
GG	AA	CC	GG	CC	AA	CC	CC	CC	**AA**	AA	TT	TT	CC	AA	CC	AA	TT	CC	GG	CC	CC	GG	TT	GG	AA
GG	AA	CC	GG	CC	AA	CC	CC	CC	AA	AA	TT	TT	CC	**AA**	CC	AA	**TT**	**CC**	**GG**	**CC**	CC	**GG**	**TT**	GG	AA
GG	**AA**	CC	**TG**	**GC**	**CA**	**GC**	**CC**	CC	**GA**	GA	TT	TT	DC	AA	**TC**	GA	TT	CC	GG	CC	CC	GG	TT	GG	AA
GA	**AG**	**CC**	**GT**	**CG**	**AC**	**CG**	**CT**	**CT**	**AG**	**AG**	TT	TC	CD	**AC**	**CT**	**AA**	TT	**CC**	**GG**	CT	**CT**	GG	**TC**	**GC**	**AG**
GG	**AA**	**CC**	**GT**	**CG**	**AC**	**CG**	**CC**	**CC**	**AG**	AG	TT	TT	CD	AA	**CT**	**AG**	TT	CC	GG	CC	CC	GG	TT	GG	AA
GG	**AA**	**CC**	**GG**	**CC**	**AA**	**CC**	**CC**	**CC**	**AA**	AA	TT	TT	CC	**AA**	**CC**	**AA**	TT	**CC**	**GG**	CC	**CC**	GG	**TT**	**GG**	**AA**
GG	AA	**CC**	**GG**	**CC**	**AC**	**CC**	**CC**	**CC**	**AA**	**AA**	**TT**	**TT**	**CC**	**AA**	**CT**	**AA**	**TT**	**CC**	**GG**	**CC**	**CC**	**GG**	**TT**	**GG**	**AA**
GG	**AA**	**CC**	GT	**CG**	AC	**CG**	**CC**	**CC**	**AG**	AG	TT	TT	CD	**AA**	CT	AG	**TT**	**CC**	**GG**	**CC**	CC	GG	**TT**	GG	AA
GG	**AA**	CC	GG	CC	AA	**CC**	**CC**	**CC**	**AA**	AA	TT	TT	CC	**AA**	CC	AA	TT	**CC**	GG	CC	CC	GG	**TT**	GG	AA
GA	**AG**	**CC**	**GG**	**CC**	**AA**	**CG**	**CC**	**CC**	**AG**	AG	TT	TT	CD	AA	CT	AA	TT	CC	GG	CC	CC	GG	TT	GG	AA
GG	**AA**	**CC**	**GG**	**CC**	**AA**	**CC**	**CC**	**CC**	**AA**	AA	TT	TT	CC	AA	CC	AA	TT	CC	GG	CC	CC	GG	TT	GG	AA
GG	**AA**	CC	GG	**CC**	AA	**CC**	**CC**	**CC**	**AA**	AA	TT	TT	CC	AA	CC	AA	TT	CC	GG	CC	CC	GG	TT	GG	AA
GG	**AA**	**CC**	**GG**	**CC**	AA	**CC**	**CC**	**CC**	**AA**	AA	TT	TT	CC	AA	CC	AA	TT	CC	GG	CC	CC	GG	TT	GG	AA
GG	**AA**	**CC**	**GG**	**CC**	**CA**	**CC**	**CC**	CC	AA	AG	TT	TT	CC	AA	**CT**	**AA**	**TT**	**CC**	**GG**	**CC**	**CC**	GG	TT	**GG**	**AA**
GG	**AA**	**CC**	**GT**	**CG**	**AC**	**CG**	**CC**	**CC**	**AG**	AG	TT	TT	CD	**AA**	**CT**	**AG**	**TT**	**CC**	**GG**	**CC**	**CC**	**GG**	**TT**	**GG**	**AA**
GG	**AA**	**CC**	**GT**	**CG**	**AC**	**CG**	**CC**	**CC**	**AG**	AG	TT	TT	CC	AA	**CT**	**AA**	**TT**	**CC**	**GG**	**CC**	**CC**	GG	**TT**	**GG**	**AA**
GG	AA	CC	**GG**	CC	**AC**	CC	CC	CC	AA	AA	TT	TT	CC	AA	**CC**	AA	TT	**CC**	GG	CC	**CC**	GG	TT	**GG**	**AA**
GG	**AA**	**CC**	**GG**	**CC**	**AA**	**CC**	**CC**	**CC**	AA	**GG**	TT	TT	CC	**AA**	**CT**	**AA**	**TT**	**CC**	**GG**	**CC**	**CC**	GG	**TT**	**GG**	**AA**
GG	**AA**	**CC**	**GG**	**CC**	**AA**	**CC**	**CC**	**CC**	**AA**	AA	TT	TT	CC	**AA**	**CC**	**AA**	**TT**	**CC**	**GG**	**CC**	**CC**	**GG**	**TT**	**GG**	**AA**
GA	**AG**	CC	GT	CG	AC	CG	CT	**CT**	**AG**	AG	TT	**TC**	CD	**AC**	CT	AA	**TT**	**CC**	**GG**	**CT**	CT	GG	**TC**	GC	AG
AG	**GA**	CC	TG	GC	CA	GC	CC	**TC**	GA	AA	TT	TT	CC	CA	CC	AA	TT	TC	GG	CC	CC	CG	TT	GG	AA
GG	**AA**	**CC**	GG	**CC**	AA	**CC**	**CC**	**CC**	**AA**	AA	**TT**	**TT**	CC	**AA**	**CC**	**AA**	**TT**	**CC**	**GG**	**CC**	CC	**GG**	**TT**	**GG**	**AA**
GG	**AA**	**CC**	**GG**	**CC**	AA	**CC**	**CC**	**CC**	**AA**	AA	**TT**	**TT**	**CT**	**AA**	**CC**	**AA**	**TT**	**CC**	**GA**	**CC**	**CC**	**GG**	**TT**	**GG**	**AA**
GG	**AA**	**CC**	GG	**CC**	AA	**CC**	**CC**	**CC**	**AA**	AA	**TT**	**TT**	**CC**	**AA**	**CC**	**AA**	**TT**	**CC**	**GG**	**CC**	CC	**GG**	**TT**	**GG**	**AA**
GG	**AA**	**CC**	**TT**	**CG**	AC	**CG**	**CC**	**CC**	**AG**	AA	TT	TT	CC	**CC**	CC	**AA**	**TT**	**CT**	**GG**	**CC**	CC	**CC**	**TT**	**GG**	**AA**
GG	**AA**	**CC**	**GG**	**CC**	**AA**	**CC**	**CC**	**CC**	**AA**	**AA**	**TT**	**TT**	**CT**	**AA**	**CC**	**AA**	**TT**	**CC**	**GG**	**CC**	**CC**	**GG**	**TT**	**GG**	**AA**
GG	**AA**	CC	**GT**	**CG**	**AC**	**CG**	**CC**	**CC**	AG	AA	TT	TT	CC	**AC**	**CC**	**AA**	**TT**	**CT**	**GG**	**CC**	**CC**	**GC**	**TT**	**GG**	**AA**
GG	**AA**	**CT**	**GG**	**CC**	**AA**	**CC**	**CC**	**CC**	**AA**	AA	TT	TT	CC	**AA**	**CC**	**AA**	**TT**	**CC**	**GG**	**CC**	**CC**	**GG**	**TT**	**GG**	**AA**
GG	**AA**	**CC**	**GG**	**CC**	**AA**	**CC**	**CC**	**CC**	**AA**	**AA**	**TT**	**TT**	**CC**	**AA**	**CC**	**AA**	**TT**	**CC**	**GG**	**CC**	**CC**	**GG**	**TT**	**GG**	**AA**
GG	**AA**	**CC**	**GG**	**CC**	**AA**	**CC**	**CC**	**CC**	**AA**	**AA**	**TT**	**TT**	**CC**	**AA**	**CC**	**AA**	**TT**	**CC**	**GG**	**CC**	**CC**	**GG**	**TT**	**GG**	**AA**
GG	**AA**	**CC**	**GG**	**CC**	**AA**	**CC**	**CC**	CC	AA	AA	TT	TT	CC	**AA**	**CC**	**AA**	**TT**	**CC**	**GG**	**CC**	**CC**	**GG**	**TT**	**GG**	**AA**
GG	**AA**	**CC**	**TT**	**GG**	CC	**GG**	**CC**	**CC**	**GG**	GA	TT	TT	CC	**AC**	CC	**AA**	**TT**	**CT**	**GG**	**CC**	CC	**GC**	**TT**	**GG**	**AA**
GG	**AA**	**CC**	TT	**GG**	CC	**GG**	**CC**	**CC**	**GG**	AA	TT	TT	CC	**CC**	**CC**	**AA**	**TT**	**TT**	**GG**	**CC**	CC	**CC**	**TT**	**GG**	**AA**
GG	AA	CC	GG	CC	AA	CC	CC	CC	AA	AA	TT	TT	CC	AA	CC	AA	TT	**CC**	**GG**	CC	CC	GG	TT	GG	AA
GG	**AA**	**CC**	**GG**	**CC**	**AA**	**CC**	**CC**	CC	**AA**	AA	**TT**	**TT**	**TT**	**AA**	**CT**	**AA**	**TT**	**CC**	**GG**	**CC**	**CC**	**GG**	**TT**	**GG**	**AA**
GG	AA	CC	GG	CC	AA	CC	CC	CC	AA	AA	TT	TT	CC	AA	CC	AA	TT	CC	GG	CC	CC	GG	TT	GG	AA
GG	**AA**	CC	GG	CC	AA	**CC**	**CC**	**CC**	AA	AA	TT	TT	CT	**AA**	CC	**AA**	**TT**	**CC**	**GA**	**CC**	CC	**GG**	**TT**	**GG**	**AA**
GG	**AA**	**CC**	**GT**	**CG**	**AC**	**CG**	**CC**	**CC**	**AG**	**AG**	**TT**	**TT**	**CC**	**AA**	**CC**	**AA**	**TT**	**CC**	**GG**	**CC**	**CC**	**GG**	**TT**	**GG**	**AA**
GG	**AA**	**CC**	**GG**	**CC**	**AC**	**CC**	**CC**	**CC**	AA	**AG**	TT	TT	**CC**	**AA**	**CC**	**AA**	**TT**	**CC**	**GG**	**CC**	**CC**	**GG**	**TT**	**GG**	**AA**
GG	**AA**	**CC**	**GG**	**CC**	**AA**	**CC**	**CC**	**CC**	**AA**	**AA**	**TT**	TT	**CC**	**AC**	**CC**	**AA**	**TT**	**CC**	**GG**	**CC**	**CC**	**GC**	**TT**	**GG**	**AA**
GG	**AA**	**CC**	**GT**	**CG**	**AC**	**CG**	**CC**	**CC**	**AG**	**GG**	TA	TC	CC	**AC**	**TC**	**AA**	**TA**	**CT**	**GG**	**CC**	**CC**	**GC**	**TT**	**GG**	**AA**
AG	GA	CC	TG	GC	CA	GC	CC	TC	GA	**GG**	AT	CT	CC	CA	**TC**	**GA**	TT	CC	GG	TC	TC	CG	CT	CG	GA
GG	AA	CC	GG	CC	AA	CC	CC	CC	AA	AG	TT	TT	CC	**AA**	**CT**	**AA**	**TT**	**CC**	**GG**	**CC**	**CC**	**GG**	**TT**	**GG**	**AA**
GG	**AA**	**CC**	GG	**CC**	AA	**CC**	**CC**	**CC**	**AA**	AA	TT	TT	CC	**AA**	**CC**	**AA**	**TT**	**CC**	**GG**	**CC**	CC	**GG**	**TT**	**GG**	**AA**
GG	**AA**	**CC**	GG	CC	AA	**CC**	**CC**	**CC**	**AA**	AA	TT	TT	CC	**AA**	**CC**	**AA**	**TT**	**CC**	**GG**	**CC**	CC	**GG**	**TT**	**GG**	**AA**
GG	AA	CC	GG	CC	AA	CC	CC	CC	AA	AA	TT	TT	CC	AA	CC	AA	TT	CC	GG	CC	CC	GG	TT	GG	AA
GG	**AA**	**CC**	**TT**	**CG**	**AC**	**CG**	**CC**	**CC**	**AG**	AG	**TA**	**TC**	**CC**	**AC**	**CC**	**AA**	**TT**	**CT**	**AG**	**CC**	**CC**	**GC**	**TT**	**GG**	**AA**
GG	**AA**	**CC**	GG	**CC**	AA	**CC**	**CC**	**CC**	**AA**	AA	TT	TT	CC	**AA**	**CC**	**AA**	**TT**	**CC**	**GG**	**CC**	CC	**GG**	**TT**	**GG**	**AA**
GG	**AA**	CC	GT	**CG**	AC	**CG**	**CC**	**CC**	**AG**	AG	**TA**	**TC**	CC	**AC**	**CC**	**AA**	**TT**	**CT**	**GG**	**CC**	CC	**GC**	**TT**	**GG**	**AA**
GA	**AG**	**CC**	**GT**	**CG**	**AC**	**CG**	**CC**	**CT**	**AG**	**GG**	TA	TC	CC	AC	**CT**	**AG**	TT	CC	GG	CT	**CT**	GC	TC	GC	AG
GG	**AA**	**CC**	**GG**	**CC**	**AA**	**CC**	**CC**	**CC**	**AA**	AA	TT	TT	CC	**AA**	**CC**	**AA**	**TT**	**CC**	**GG**	**CC**	**CC**	**GG**	**TT**	**GG**	**AA**
GA	**AG**	**CC**	**GT**	**CG**	**AC**	**CG**	**CC**	**CT**	**AG**	**AG**	TA	TC	**CC**	**AC**	**CT**	**AA**	**TT**	**CC**	**GG**	**CT**	**CT**	**GC**	**TC**	**GC**	**AG**
GG	**AA**	**CC**	**GT**	**CG**	**AC**	**CG**	**CC**	**CC**	**AG**	**AG**	**TA**	**TC**	**CC**	**AC**	**CC**	**AA**	**TT**	**CT**	**GG**	**CC**	**CC**	**GC**	**TT**	**GG**	**AA**
GG	**AA**	**CC**	**GT**	**CG**	**AC**	**CG**	**CC**	CC	AG	**AG**	**TA**	TC	**CC**	**AC**	**CC**	**AA**	**TA**	**CT**	**GG**	**CC**	**CC**	**GC**	**TT**	**GG**	**AA**
GG	AA	CC	**GG**	**CC**	**AA**	**CC**	**CC**	**CC**	AA	AA	TT	TT	CC	**AA**	**TC**	**AA**	**TT**	**CC**	**GG**	**CC**	**CC**	**GG**	**TT**	**GG**	**AA**
GG	**AA**	CC	GG	CC	AA	CC	CC	CC	AA	AA	TT	TT	CC	**AA**	CC	**AA**	**TT**	**CC**	**GG**	**CC**	CC	**GG**	**TT**	**GG**	**AA**
GG	**AA**	CC	GG	CC	AA	CC	CC	CC	AA	AA	TT	TT	CC	**AA**	**CC**	**AA**	**TT**	**CC**	**GG**	**CC**	CC	**GG**	**TT**	**GG**	**AA**
GA	**AG**	**CC**	GT	**CG**	AC	**CG**	**CC**	**CT**	**AG**	AG	TA	TC	CC	**AC**	**CT**	**AA**	**TT**	**CC**	**GG**	**CT**	**TT**	**GC**	**TC**	**GC**	**AG**
GG	**AA**	**CC**	GT	CG	AC	**CG**	**CC**	**CC**	**AG**	AG	TA	TC	CC	**AC**	**CC**	**AA**	**TT**	**CT**	**GG**	**CC**	**CC**	**GC**	**TT**	**GG**	**AA**
GG	**AA**	CC	GG	CC	AA	CC	CC	CC	AA	AA	**TT**	**TT**	CC	**AA**	**CC**	**AA**	**TT**	**CC**	**GG**	**CC**	CC	**GG**	**TT**	**GG**	**AA**

14	14	14	14	16	16	16	16	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
61280258	61280680	61280720	61280864	164619	165299	165386	165653	150326128	150326147	150326659	150326941	150327044	150328227	150328266	150329336	150329812	150330183	150330544	150330640	150330810	150331448	150331570	150331879	150332716	150332791
rs10137529	**New**	**New**	rs35244739	rs2238369	rs72763684	rs72763685	rs2858942	rs3793342	rs3793341	rs1549758	rs1007311	rs1799983	rs3918174	rs1541861	**New**	rs1800780	rs1800782	rs61761735	rs61761737	rs2853792	rs2566508	rs73167652	rs3918227	rs3918181	rs3918228
HIF1A	HIF1A	HIF1A	HIF1A	HBA2_1	HBA2_1	HBA2_1	HBA2_1	NOS3	NOS3	NOS3	NOS3	NOS3	NOS3	NOS3	NOS3	NOS3	NOS3	NOS3	NOS3	NOS3	NOS3	NOS3	NOS3	NOS3	NOS3
T	C	G	C	T	C	C	A	G	A	T	A	T	A	C	G	A	G	C	A	G	T	A	C	G	G
C	T	T	T	C	T	A	C	A	G	C	G	G	G	A	T	G	T	G	G	A	G	G	A	A	A
CC	CC	GG	TC	NA	NA	NA	NA	GG	AA	CC	GG	GG	AA	AA	GG	GG	GG	CC	AA	AG	TT	AA	CC	GG	GG
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150333365	150333714	150333974	150334175	150334848	150335183	150335584	150335776	150336543	150336756	150336775	150337316	150337848	150338421	150339022	150339235	150339783	150340504	150340837	150342438	46001430	46002411	46002449	46002728	46003000	46003762	46004101	46004452	46005042	46005101
rs3918186	rs3918188	rs2566511	rs2853795	rs2853796	rs2566514	rs3730306	rs891511	rs1008140	rs61761751	rs3918196	rs753482	rs743506	rs743507	rs891512	rs1808593	rs2256314	rs7830	rs3918208	rs61762634	**New**	rs3733829	rs3733828	**New**	**New**	**New**	rs10416308	**New**	rs3736329	**New**
NOS3	NOS3	NOS3	NOS3	NOS3	NOS3	NOS3	NOS3	NOS3	NOS3	NOS3	NOS3	NOS3	NOS3	NOS3	NOS3	NOS3	NOS3	NOS3	NOS3	PHD1	PHD1	PHD1	PHD1	PHD1	PHD1	PHD1	PHD1	PHD1	PHD1
A	C	C	A	G	C	C	G	T	G	G	C	G	C	A	G	G	G	T	C	G	A	A	C	G	T	G	G	C	C
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AA	AA	CC	AA	TT	CC	CC	GG	TT	GG	GG	AA	AA	TT	GG	TT	AA	GG	TC	CC	GG	GA	GG	CC	GG	TT	GG	GG	AC	CC
AA	AA	CC	AA	TT	CC	TT	GG	TT	GG	GG	AA	AA	TT	GG	TT	AA	GG	TT	CC	GG	GA	GG	CC	GG	TT	GG	GG	AC	CC
AA	CA	CC	AA	GT	CC	CT	GG	TT	GG	GG	AA	AA	TT	GG	TT	AA	GG	TT	CC	GG	AG	GG	CC	GG	TT	GG	GG	CA	CC
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19	1	1	1	1	1	1	1	1	1	1	1
46005277	229578650	229578750	229579210	229579216	229579391	229579394	229579445	229579548	229579604	229579813	229580054
rs34636581	**New**	rs2491404	rs2808583	rs2572254	rs2572253	rs2790892	**New**	rs2808584	**New**	rs2790891	rs2491405
PHD1	PHD2	PHD2	PHD2	PHD2	PHD2	PHD2	PHD2	PHD2	PHD2	PHD2	PHD2
C	G	C	G	T	C	G	A	A	C	G	C
T	C	T	C	C	A	A	T	G	T	A	A

CC	*NA*	*TT*	**GG**	**TT**	**CC**	**GG**	**AA**	**AA**	**CC**	**GG**	**CC**
CC	*NA*	**TT**	**GC**	**TC**	**CA**	**GA**	**AA**	**AG**	**CC**	**GA**	**CA**
CC	*NA*	*TT*	**GG**	**TT**	**CC**	**GG**	**AA**	**AA**	**CC**	**GG**	**CC**
CC	*NA*	*TT*	**GG**	**TT**	**CC**	**GG**	**AA**	**AA**	**CC**	**GG**	**CC**
CC	*NA*	*TT*	**CC**	**CC**	**AA**	**AA**	**AA**	**GG**	**CC**	**AA**	**AA**
CC	*NA*	*TT*	**GG**	**TT**	**CC**	**GG**	**AA**	**AA**	**CC**	**GG**	**CC**
CC	*NA*	*TT*	**GG**	**TT**	**CC**	**GG**	**AA**	**AA**	**CC**	**GG**	**CC**
CC	*NA*	*TT*	**GG**	**TT**	**CC**	**GG**	**AA**	**AA**	**CC**	**GG**	**CC**
CC	*NA*	*TT*	**CC**	**CC**	**AA**	**AA**	**AA**	**GG**	**CC**	**AA**	**AA**
CC	*NA*	*TT*	**GC**	**TC**	**CA**	**GA**	**AA**	**AG**	**CC**	**GA**	**CA**
CC	*NA*	*TT*	**GG**	**TT**	**CC**	**GG**	**AA**	**AA**	**CC**	**GG**	**CC**
CC	*NA*	*TT*	**GC**	**TC**	**CA**	**GA**	**AA**	**AG**	**TC**	**AA**	**CA**
CC	*NA*	*TT*	**GG**	**TT**	**CC**	**GG**	**AA**	**AA**	**CC**	**GG**	**CC**
CC	*NA*	*TT*	**GC**	**TC**	**CA**	**GA**	**AA**	**AG**	**CC**	**GA**	**CA**
CC	*NA*	*TT*	**CC**	**CC**	**AA**	**AA**	**AA**	**GG**	**CC**	**AA**	**AA**
CC	*NA*	*TT*	**CC**	**CC**	**AA**	**AA**	**AA**	**GG**	**CC**	**AA**	**AA**
CC	*GG*	*TT*	*CC*	*CC*	*AA*	*AA*	*AA*	*GG*	*CC*	*AA*	*AA*
CC	*GG*	*TT*	**GC**	**TC**	**CA**	**GA**	**AA**	**AG**	**CC**	**AG**	**AC**
CC	*GG*	*TT*	**CC**	**CC**	**AA**	**AA**	**AA**	**GG**	**CC**	**AA**	**AA**
CC	*GG*	*TT*	*CC*	*CC*	*AA*	*AA*	*AA*	*GG*	*CC*	**GG**	**CC**
CC	*GG*	*TT*	**CC**	**CC**	**AA**	**AA**	**AA**	**GG**	**CC**	**AA**	**AA**
CC	*GG*	*TT*	**CG**	**CT**	**AC**	**AG**	*AA*	*GA*	*CC*	*GA*	**CA**
CC	*GG*	*TT*	**CC**	**CC**	**AA**	**AA**	**AA**	**GG**	**CC**	**AA**	**AA**
CC	*NA*	*NA*	**CC**	**CC**	**AA**	**AA**	**AT**	**GG**	**CC**	**AA**	**AA**
CC	*GG*	*TT*	**CC**	**CC**	**AA**	**AA**	**AA**	**GG**	**CC**	**AA**	**AA**
CC	**GG**	**TT**	*CC*	*CC*	*AA*	*AA*	*AA*	*GG*	*CC*	*AA*	*AA*
CC	*GG*	*TT*	*CC*	*CC*	**AA**	**AA**	**AA**	**GG**	**CC**	**AA**	**AA**
CC	**GG**	**TT**	**CC**	**CC**	**AA**	**AA**	**AA**	**GG**	**CC**	**AA**	**AA**
CC	*GG*	*TT*	**CC**	**CC**	**AA**	**AA**	**AA**	**GG**	**CC**	**AA**	**AA**
CC	*NA*	*NA*	*CG*	*CT*	*AC*	*AG*	*AA*	*GA*	*CC*	*AG*	*AC*
CC	*NA*	*NA*	**GG**	**TT**	**CC**	**GG**	**AA**	**AA**	**CC**	**GG**	**CC**
CC	*NA*	*NA*	**GG**	**TT**	**CC**	**GG**	**AA**	**AA**	**CC**	**GG**	**CC**
CT	*NA*	*NA*	**CG**	**CT**	**AC**	**AG**	**AA**	**GA**	**CC**	**AG**	**AC**
CC	*NA*	*NA*	**CC**	**CC**	**AA**	**AA**	**AA**	**GG**	**CC**	**AA**	**AA**
CC	*NA*	*NA*	**GG**	**TT**	**CC**	**GG**	**AA**	**AA**	**CC**	**GG**	**CC**
CC	*NA*	*NA*	**CC**	**CC**	**AA**	**AA**	**AA**	**GG**	**CC**	**AA**	**AA**
CC	*NA*	*NA*	**CC**	**CC**	**AA**	**AA**	**AA**	**GG**	**CC**	**AA**	**AA**
CC	*NA*	*NA*	**CG**	**CT**	**AC**	**AG**	**AA**	**GA**	**CC**	**AG**	**AC**
CC	*NA*	*NA*	**CG**	**CT**	**AC**	**AG**	**AA**	**GA**	**CC**	**AG**	**AC**
CC	*NA*	*NA*	**CG**	**CT**	**AC**	**AG**	**AA**	**GA**	**CC**	**AG**	**AC**
CC	*NA*	*NA*	*CG*	*CT*	*AC*	*AG*	*AA*	**GA**	**CC**	**AG**	**AC**
CC	*NA*	*NA*	**CG**	**CT**	**AC**	**AG**	**AA**	**GA**	**CC**	**AG**	**AC**
CC	*NA*	*NA*	**GG**	**TT**	**CC**	**GG**	**AA**	**AA**	**CC**	**GG**	**CC**
CC	*NA*	*NA*	**CG**	**CT**	**AC**	**AG**	**AA**	**GA**	**CC**	**AG**	**AC**
CC	*NA*	*NA*	**GG**	**TT**	**CC**	**GG**	**AA**	**AA**	**CC**	**GG**	**CC**
CC	*NA*	*NA*	*CC*	*CC*	*AA*	*AA*	*AA*	*GG*	*CC*	*AA*	*AA*
CT	*NA*	*NA*	**GG**	**TT**	**CC**	**GG**	**AA**	**AA**	**CC**	**GG**	**CC**
TC	*NA*	*NA*	**CC**	**CC**	**AA**	**AA**	**AA**	**GG**	**CC**	**AA**	**AA**
CC	*NA*	*NA*	**GG**	**TT**	**CC**	**GG**	**AA**	**AA**	**CC**	**GG**	**CC**
CC	**GG**	**TC**	**CG**	**CT**	**AC**	**AG**	**AA**	**AG**	**CC**	**GA**	**CA**
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CC	**GG**	*TC*	**CG**	**CT**	**AC**	**AG**	**AA**	**AG**	**CC**	**GA**	**CA**
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CC	**GG**	**TT**	**CC**	**CC**	**AA**	**AA**	**AT**	**GG**	**CC**	**AA**	**AA**
CC	*GG*	*TT*	*CC*	*CC*	*AA*	*AA*	*AA*	*GG*	*CC*	*AA*	*AA*
CC	*GG*	*TT*	**CC**	**CC**	**AA**	**AA**	**AA**	**GG**	**CC**	**AA**	**AA**
CC	*GG*	*TC*	**CG**	**CT**	**AC**	**AG**	**AA**	**AG**	**CC**	**GA**	**CA**
CC	*GG*	*TT*	*CC*	*CC*	*AA*	*AA*	*AA*	*GG*	*CC*	*AA*	*AA*
CC	*GG*	*TC*	*CG*	*CT*	*AC*	*AG*	*AA*	*AG*	*CC*	*GA*	*CA*
CC	*GG*	*TT*	*CC*	*CC*	*AA*	*AA*	*AA*	*GG*	*CC*	*AA*	*AA*
CC	*GG*	*CT*	*GC*	*TC*	*CA*	*GA*	*AA*	*AA*	*CC*	*GG*	*CC*
CC	**GG**	**TC**	**CG**	**CT**	**AC**	**AG**	**AA**	**AG**	**CC**	**GA**	**CA**
CC	*GG*	*TC*	**CG**	**CT**	**AC**	**AG**	**AA**	**AG**	**CC**	**GA**	**CA**
CC	*GG*	*TT*	**CC**	**CC**	**AA**	**AA**	**AA**	**GG**	**CC**	**AA**	**AA**
CC	*CC*	*CC*	**GG**	**TT**	**CC**	**GG**	**AA**	**AA**	**CC**	**GG**	**CC**
CC	*GC*	*TC*	*CG*	*CT*	*AC*	*AG*	*AA*	*GA*	*CC*	*AG*	*AC*
CC	*GG*	*CT*	*GC*	*TC*	*CA*	*GA*	*AA*	*AG*	*CC*	*GA*	*CA*
CC	*GC*	*TC*	**CG**	**CT**	**AC**	**AG**	**AA**	**GA**	**CC**	**AG**	**AC**
CC	*CG*	*CT*	**GC**	**TC**	**CA**	**GA**	**AA**	**AG**	**CC**	**GA**	**CA**
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CC	*GG*	*CT*	**GC**	**TC**	**CA**	**GA**	**AA**	**AG**	**CC**	**GA**	**CA**
CC	*GG*	*TT*	**CC**	**CC**	**AA**	**AA**	**AA**	**GG**	**CC**	**AA**	**AA**
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CC	*GC*	*TC*	**CG**	**CT**	**AC**	**AG**	**AA**	**GA**	**CC**	**AG**	**AC**
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CC	*GG*	*TT*	**CC**	**CC**	**AA**	**AA**	**AA**	**GG**	**CC**	**AA**	**AA**
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CC	**GC**	**TC**	**CG**	**CT**	**AC**	**AG**	**AA**	**GA**	**CC**	**AG**	**AC**
CC	**GG**	**CT**	**GC**	**TC**	**CA**	**GA**	**AA**	**AG**	**CC**	**GA**	**CA**
CC	*GG*	*TT*	**CC**	**CC**	**AA**	**AA**	**TA**	**GG**	**CC**	**AA**	**AA**

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rs2572252	rs2437148	rs2474623	rs2808585	rs2572251	rs2790890	rs2739515	New	rs2739514	rs2572249	rs2572248	rs2739513	rs2808586	rs2808587	New	rs2486741	New	rs2437147	New	rs2486735	rs971534	New	rs971533	rs2749700	rs2808591	New	rs2790887	New	rs2808592	rs2749702
PHD2	PHD2	PHD2	PHD2	PHD2	PHD2	PHD2	PHD2	PHD2	PHD2	PHD2	PHD2	PHD2	PHD2	PHD2	PHD2	PHD2	PHD2	PHD2	PHD2	PHD2	PHD2	PHD2	PHD2	PHD2	PHD2	PHD2	PHD2	PHD2	PHD2
T	A	T	C	C	C	G	T	G	G	A	C	C	C	A	G	C	T	G	C	C	T	T	A	G	C	G	C	G	A
C	G	C	T	T	T	A	C	A	A	G	T	T	T	C	C	T	C	A	T	A	C	C	G	A	T	C	T	A	G
TT	AA	TT	CC	CC	CC	GG	TT	GG	GG	AA	CC	CC	CC	AA	GG	CC	TT	GG	CC	CC	TT	TT	AA	GG	CC	GG	CC	GG	AA
TC	AG	TC	CT	CT	CT	GA	TT	GA	GA	AG	CT	CT	CT	AA	GC	CC	TC	GG	TT	CA	TT	TC	AG	GA	CC	GC	CC	GA	AG
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TT	AA	TT	CC	CC	CC	GG	TT	GG	GG	AA	CC	CC	CC	AA	GG	CC	TT	GG	CC	CC	TT	TT	AA	GG	CC	GG	CC	GG	AA
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229590508	229590851	229590936	229591216	229591282	229591695	229591782	229591783	229592189	229592222	229592623	229592690	229597855	229598015	229598088	229598099	229598250	229598555	229598935	229598974	229599134	229599348	229599349	229599406	229599650	229599819	229599829	229600071
New	rs2808593	**New**	rs11122287	rs11804336	rs569104	**New**	**New**	rs2749703	rs2474627	rs2474628	**New**	rs743120	rs2486734	rs2486733	rs2486732	rs480902	rs2790884	rs508618	rs2808597	rs2486731	rs2808598	rs2790883	rs2790882	rs1416916	rs1416914	rs1416913	rs2491411
PHD2	PHD2	PHD2	PHD2	PHD2	PHD2	PHD2	PHD2	PHD2	PHD2	PHD2	PHD2	PHD2	PHD2	PHD2	PHD2	PHD2	PHD2	PHD2	PHD2	PHD2	PHD2	PHD2	PHD2	PHD2	PHD2	PHD2	PHD2
G	G	G	A	C	A	A	A	C	C	C	C	C	A	C	T	T	A	G	T	A	C	A	C	A	C	A	C
A	T	A	G	T	G	T	T	T	G	T	A	T	G	T	G	C	G	A	C	G	T	G	T	G	T	C	G
GG	*GG*	*GG*	*AA*	**CC**	*AA*	**AA**	**AA**	**CC**	**CC**	**CC**	**CC**	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
GG	*GT*	*GG*	*AG*	*CC*	*AA*	**AT**	**AT**	**CT**	**CG**	**CT**	*CC*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
GG	**GG**	**GG**	**AA**	**CC**	**AA**	**AA**	**AA**	**CC**	**CC**	**CC**	*CC*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
GG	*GG*	**GG**	*AA*	**CC**	*AA*	*AA*	*AA*	**CC**	**CC**	*CC*	*CC*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
GG	*TT*	**GG**	**GG**	*CC*	*AA*	*TT*	*TT*	*TT*	**CG**	*TT*	*CC*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
GG	*GG*	**GG**	*AA*	**CC**	*AA*	*AA*	*AA*	**CC**	**CC**	*CC*	*CC*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
GG	*GG*	*GG*	*AA*	*CC*	*AA*	*AA*	*AA*	*CC*	*CC*	*CC*	*CC*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
GG	*GG*	*GG*	*AA*	*CC*	**AA**	*AA*	*AA*	*CC*	*CC*	**CC**	*CC*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
GG	*TT*	*GG*	*GG*	*CC*	*AA*	*TT*	*TT*	*TT*	*GG*	**TT**	*CC*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
GG	*GT*	*GG*	*AG*	*CC*	**AA**	**AT**	**AT**	*CT*	**CG**	**CT**	**CC**	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
GG	*GG*	*GG*	*AA*	*CC*	**AG**	**AA**	**AA**	*CC*	*CC*	*CC*	*CC*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
GG	*GT*	*GG*	*AG*	*CC*	*AA*	*AT*	*AT*	*CT*	*CG*	*CT*	*CC*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
GG	**GG**	**GG**	**AA**	*CC*	*AA*	*AA*	*AA*	**CC**	**CC**	*CC*	*CC*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
GG	*GT*	**GG**	**AG**	*CC*	*AA*	*AT*	*AT*	**CT**	**CG**	*CT*	*CC*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
GG	**TT**	**GG**	**GG**	**CT**	*AA*	*TT*	*TT*	**TT**	**GG**	**TT**	*CC*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
GG	*TT*	*GG*	*GG*	*CC*	**AA**	**TT**	**TT**	*TT*	*GG*	**TT**	*CC*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
GG	*TT*	*GG*	*GG*	*TT*	*AA*	*TT*	*TT*	*TT*	*GG*	*TT*	*CC*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
GG	*TT*	*GG*	*GG*	*TT*	*BA*	**AT**	**AT**	*TT*	*CG*	**CT**	*CC*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
GG	**TT**	**GG**	**GG**	**TT**	**AA**	**AT**	**TT**	**TT**	**GG**	**TT**	*CC*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
GG	**GG**	**GG**	*GG*	**CC**	*BB*	*AA*	*AA*	**CC**	**CC**	*TT*	*CC*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
GG	*TT*	*GG*	*GG*	*TT*	*AA*	*TT*	*TT*	**TT**	*GG*	*TT*	*CC*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
GG	*TT*	*GG*	*GG*	*TT*	*AA*	*AT*	*TT*	*TT*	*GG*	*TT*	*CC*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
GG	**TT**	**GG**	**GG**	**TC**	**AA**	**TT**	**TT**	**TT**	**GC**	**TT**	*CC*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
GG	*TT*	*GG*	**GG**	*TT*	*AA*	*TT*	*TT*	**TT**	**GC**	*TT*	*DD*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
GG	**TT**	**GG**	**GG**	**TT**	*AA*	*TT*	*TT*	**TT**	**GG**	**TT**	*CC*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
GG	**TT**	*GG*	*GG*	*TT*	**AA**	**TT**	**TT**	*TT*	*GG*	**TT**	**CC**	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
GG	*TT*	*GG*	*GG*	*TT*	*AA*	*TT*	*TT*	*TT*	*GG*	*TT*	*CC*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
GG	**TT**	*GG*	*GG*	*TT*	**AA**	**TT**	**TT**	*TT*	*GG*	**TT**	**CC**	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
GG	*TT*	*GG*	*GG*	*TT*	*AA*	*TT*	*TT*	*TT*	*GG*	*TT*	*CC*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
GG	*TG*	*GG*	*GA*	*TC*	*AA*	*TA*	*TA*	*TC*	*GC*	*TC*	*DC*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
GG	**GG**	*GG*	*AA*	*CC*	**AA**	**AA**	**AA**	*CC*	*CC*	**CC**	**CC**	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
GG	*GG*	*GG*	*AA*	*CC*	*GA*	*AA*	*AA*	**CC**	**CC**	*CC*	*CC*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
GG	**TG**	**GG**	**GA**	**TC**	*AA*	*TA*	*TA*	**TC**	**GC**	**TC**	*DC*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
GG	**TT**	**GG**	**GG**	**TC**	**AA**	*TT*	*TT*	**TT**	**GG**	*TT*	*DD*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
GG	**GG**	**GA**	**AA**	*CC*	*AA*	*AA*	*AA*	**CC**	**CC**	*CC*	*CC*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
GG	**TT**	**GG**	**GG**	**TC**	**AA**	*TT*	*TT*	**TT**	**GG**	**TT**	*DD*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
GG	*TT*	*GG*	*GG*	*TT*	**AA**	**TT**	**TT**	*TT*	*GG*	**TT**	*DD*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
GG	*TG*	*GG*	*GA*	*TC*	*AA*	*TA*	*TA*	*TC*	*GC*	**TC**	*DC*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
GG	*TG*	*GG*	*GA*	*TC*	**AA**	**TA**	**TA**	*TC*	*GC*	**TC**	*DC*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
GG	*TG*	*GG*	*GA*	*TC*	*AA*	*TA*	*TA*	*TC*	*GC*	**TC**	*DC*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
GG	*TG*	*GG*	*GA*	*TC*	*AA*	*TA*	*TA*	*TC*	*GC*	*TC*	*DC*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
GG	*TG*	*GG*	*GA*	*TC*	**AA**	**TA**	**TA**	*TC*	*GC*	**TC**	*DC*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
GG	**GG**	**GG**	**AA**	**CC**	*AA*	*AA*	*AA*	**CC**	**CC**	**CC**	*CC*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
GG	**TG**	**GG**	**GA**	**TC**	**AG**	**TA**	**TA**	**TC**	**GC**	**TC**	*DC*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
GG	**GG**	**GG**	**AA**	**CC**	*AA*	*AA*	*AA*	**CC**	**CC**	**CC**	*CC*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
GG	*TT*	*GG*	*GG*	*TT*	*AA*	*TT*	*TT*	**TT**	**GC**	*TT*	*DD*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
GG	**GG**	**GG**	**AA**	**CC**	*GA*	**AA**	**AA**	**CC**	**CC**	**CC**	*CC*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
GG	*TT*	*GG*	*GG*	*TT*	*AA*	*TT*	*TT*	*TT*	*GG*	*TT*	*DD*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
GG	*GG*	*GG*	*AA*	*CC*	**AA**	**AA**	**AA**	*CC*	*CC*	**CC**	*CC*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
GG	**GT**	*GG*	*AG*	*CT*	**AA**	**AT**	**AT**	*CT*	*CG*	**CT**	**CC**	*CT*	*AG*	*TT*	*TG*	*CC*	*AA*	*AA*	*TC*	*AG*	*TC*	*GG*	*CT*	*GA*	*CC*	*AC*	*NA*
GA	**TG**	*GG*	*GA*	*TC*	**AA**	**TA**	**AT**	*CT*	*CG*	**CT**	**AC**	**CT**	**GA**	*TT*	*TG*	*TC*	*AA*	*AA*	*TC*	*AA*	*TC*	*GG*	*CT*	*GA*	*CC*	*AC*	*NA*
GG	**TT**	**GG**	*GG*	*TT*	**AA**	**TT**	**TT**	*TT*	**GG**	**TT**	**CC**	*TT*	*GG*	*TT*	*GG*	*CC*	*AA*	*AA*	*CC*	*AA*	*CC*	*GG*	*TT*	*AA*	*CC*	*CC*	*NA*
GG	**GG**	*GG*	*AA*	*CC*	**AA**	**AA**	**AA**	*CC*	*CC*	**CC**	**CC**	*CC*	*AA*	*TT*	*TT*	*TC*	*AA*	*AA*	*TT*	*AA*	*TT*	*GG*	*CC*	*GG*	*CC*	*AA*	*NA*
GG	**TT**	*GG*	*GG*	*TT*	**AA**	**TT**	**TT**	*TT*	*GG*	**TT**	**CC**	*TT*	*GG*	*TT*	*GG*	*CC*	*AA*	*AA*	*CC*	*AA*	*CC*	*GG*	*TT*	*AA*	*CC*	*CC*	*NA*
GG	**GT**	**GG**	**AG**	**CT**	**GA**	**AT**	**AT**	**CT**	**CG**	**CT**	**CC**	**CT**	**AG**	**TC**	**TG**	**CC**	*AG*	*GG*	**TC**	**AG**	**TC**	**GA**	**CT**	*GA*	**CT**	*AC*	*NA*
GG	**TT**	**GG**	**GG**	**TT**	**AA**	**TT**	**TT**	**TT**	**GG**	**TT**	*CC*	*TT*	*GG*	*TT*	*GG*	*CC*	*AA*	*AA*	*CC*	*AA*	*CC*	*GG*	*TT*	*AA*	*CC*	*CC*	*NA*
GG	**TG**	**GG**	**GA**	**TC**	*AG*	*TA*	*TA*	**TC**	**GC**	*TT*	*CC*	*TC*	*GA*	*TT*	*GT*	*CT*	*AA*	*AA*	*CT*	*GA*	*CT*	*GG*	*TC*	*AG*	*CC*	*CA*	*NA*
GG	**TG**	**GG**	**GA**	**TC**	**AA**	**TA**	**AT**	**CT**	**CG**	**CT**	*CC*	*TC*	*GA*	*CT*	*GT*	*CT*	*GA*	*GA*	*CT*	*GA*	*CT*	*AG*	*TC*	*AG*	*TC*	*CA*	*NA*
GG	**TT**	**GG**	**GG**	**TT**	**AA**	**TT**	**TT**	**TT**	**GG**	**TT**	**CC**	*TT*	*GG*	*TT*	*GG*	*CC*	*AA*	*AA*	*CC*	*AG*	*CC*	*GG*	*TT*	*AA*	*CC*	*CC*	*NA*
GG	**TT**	**GG**	**GG**	*TT*	*AA*	*TT*	*TT*	**TT**	**GG**	*TT*	*CC*	*TT*	*GG*	*TT*	*GG*	*CC*	*GA*	*AA*	*CC*	*GA*	*CC*	*GG*	*TT*	*AA*	*CC*	*CC*	*NA*
GG	**TT**	*GG*	*GG*	*TT*	**AA**	**TT**	**TT**	*TT*	*GG*	**TT**	**CC**	*TT*	*GG*	*TT*	*GG*	*CC*	*AA*	*AA*	*CC*	*GA*	*CC*	*GG*	**TT**	*AA*	*CC*	*CC*	*NA*
GG	*TG*	*GG*	*GA*	*TC*	**AG**	**TA**	**AT**	*CC*	*CG*	**CT**	**CC**	*TC*	*GA*	*CT*	*GT*	*CT*	*GA*	*GA*	*CT*	*GA*	*CT*	*AG*	*TC*	*AG*	*TC*	*CA*	*NA*
GG	*TT*	*GG*	*GG*	*TT*	*AA*	*TT*	*TT*	*TT*	*GG*	*TT*	*CC*	*TT*	*GG*	*CT*	*GG*	*CC*	*GA*	*GA*	*CC*	*GA*	*CC*	*AG*	*TT*	*AA*	*TC*	*CC*	*NA*
GG	*TG*	*GG*	*GA*	*TC*	*AG*	*TA*	*AT*	*CC*	*CC*	*CT*	*CC*	*TC*	*GA*	*CT*	*GT*	*CC*	*GA*	*GA*	*CT*	*GA*	*CT*	*AG*	*TC*	*AG*	*TC*	*CA*	*NA*
GG	*TT*	*GG*	*GG*	*TT*	*AA*	*TT*	*TT*	*TT*	*GG*	*TT*	*CC*	*TT*	*GG*	*TT*	*GG*	*CC*	*AA*	*AA*	*CC*	*AA*	*CC*	*GG*	*TT*	*AA*	*CC*	*CC*	*NA*
GG	*GG*	*GG*	*AA*	*CC*	**AG**	**AA**	**AA**	*CC*	*CC*	**CC**	**CC**	*CC*	*AA*	*TT*	*TT*	*CC*	*AA*	*AG*	*TT*	*AA*	*TT*	*GG*	*CC*	*GG*	*CC*	*AA*	*NA*
GG	*TG*	*GG*	*GA*	*TC*	*AG*	*TA*	*AA*	*CC*	**CC**	*CT*	*CC*	**TC**	**GA**	**CT**	**GT**	**CT**	**GA**	**GA**	**CT**	**GA**	**CT**	**AG**	**TC**	**AG**	**TC**	**CA**	*NA*
GG	*GT*	*GG*	*AG*	*CT*	*AA*	*AT*	*AT*	*CT*	*CG*	*CT*	*CC*	*CT*	*AG*	*TT*	*TG*	*CC*	*AA*	*GA*	*TC*	*AA*	*TC*	*GG*	*CT*	*GA*	*CC*	*AC*	*NA*
GG	*TT*	*GG*	*GG*	*TT*	*AA*	*TT*	*TT*	*TT*	*GG*	*TT*	*CC*	*TT*	*GG*	*TT*	*GG*	*CC*	*AA*	*AA*	*CC*	*GG*	*CC*	*GG*	*TT*	*AA*	*CC*	*CC*	*NA*
GG	*TT*	*GG*	*GG*	*CC*	*AA*	*TT*	*TT*	*TT*	**CC**	*CC*	*CC*	*TT*	*GG*	*TT*	*GG*	*CC*	*GA*	*AA*	*CT*	*GA*	*TT*	*GA*	*TT*	*GG*	*TT*	*CC*	*GG*
GG	*TT*	*GG*	*GG*	*CT*	*AA*	*TA*	*TT*	*TT*	*GG*	*TT*	*CC*	*TT*	*GA*	*TT*	*GG*	*CC*	*GA*	*AA*	*CT*	*GA*	*TC*	*GA*	*TC*	*GG*	*TT*	*CC*	*GG*
GG	*TT*	*GG*	*GG*	*TT*	*AA*	*TA*	*TT*	*TT*	*CG*	*TT*	*CC*	*TT*	*GG*	*TT*	*GG*	*CC*	*GG*	*AA*	*CC*	*GG*	*TT*	*GG*	*TT*	*GG*	*CT*	*AC*	*GG*
GG	*TT*	*GG*	*GG*	*TT*	*AA*	*TT*	*TT*	*TT*	*GC*	*TT*	*CC*	*TT*	*GG*	*TT*	*GG*	*CC*	*GG*	*AA*	*CC*	*GG*	*TT*	*GG*	*TT*	*GG*	*TT*	*CC*	*GG*
GG	*TT*	*GG*	*GG*	*CT*	*AA*	*TA*	*TT*	*TT*	*CG*	*CT*	*CC*	*TT*	*GG*	*TT*	*GG*	*CC*	*GG*	*AA*	*CC*	*GG*	*TT*	*GG*	*TT*	*GG*	*TT*	*CC*	*GG*
GG	*TT*	*GG*	*GG*	*CT*	*AA*	*TA*	*TT*	*TT*	*CG*	*TT*	*CC*	*TT*	*GG*	*TT*	*GG*	*CC*	*GA*	*AA*	*CC*	*GG*	*TT*	*GG*	*TT*	*GG*	*TT*	*CC*	*GG*
GG	*TT*	*GG*	*GG*	*TT*	*AA*	*TT*	*TT*	*TT*	*GG*	*TT*	*CC*	*TT*	*GG*	*TT*	*GG*	*CC*	*AG*	*AA*	*CC*	*GG*	*TT*	*GG*	*TT*	*GG*	*TT*	*CC*	*GG*
GG	*TT*	*GG*	*GG*	*TT*	*AA*	*TA*	*TT*	*TT*	*GG*	*TT*	*CC*	*TT*	*GG*	*TT*	*GG*	*CC*	*AG*	*AA*	*CC*	*GG*	*TT*	*GG*	*TT*	*GG*	*TT*	*CC*	*GG*
GG	*TT*	*GG*	*GG*	*TC*	*AA*	*TA*	*TT*	*TT*	*CG*	*TT*	*CC*	*TT*	*GG*	*TT*	*GG*	*CT*	*GG*	*AA*	*CC*	*GG*	*TT*	*GG*	*TT*	*GG*	*TT*	*CC*	*GG*
GG	**TT**	**GG**	**GG**	**TT**	**AA**	**AT**	**TT**	**TT**	**GC**	**TT**	**CC**	*TT*	*GG*	*TT*	*GG*	*CC*	*GA*	*AA*	*CC*	*GG*	*TT*	*GA*	*TT*	*GG*	*CT*	*AC*	*GG*
GG	**TT**	**GG**	**GG**	**TT**	**AA**	**TA**	**TT**	**TT**	**GG**	**TT**	*CC*	*TT*	*GG*	*TT*	*GG*	*CC*	*AG*	*AA*	*CC*	*GG*	*TT*	*GG*	*TT*	*GG*	*TT*	*CC*	*GG*
GG	**GT**	**GG**	**AG**	**TC**	**AA**	**AT**	**AT**	**CT**	**GC**	**TC**	*CC*	*TT*	*GG*	*TT*	*GG*	*CC*	*GG*	*AA*	*CC*	*GG*	*TT*	*GG*	*TT*	*GG*	*TT*	*CC*	*GG*
GG	**TT**	**GG**	**GG**	**CT**	**AA**	**TT**	**TT**	**TT**	**GG**	**TT**	*CC*	**TT**	**GG**	**TT**	**GG**	**CC**	*GG*	**AA**	**CC**	**GG**	*TT*	*GG*	**TT**	*GG*	**TT**	**CC**	**GG**
GG	**TG**	**GG**	**GA**	**TC**	*AA*	*TA*	*TA*	**TC**	**CG**	**CT**	*CC*	*TT*	*GG*	*TT*	*GG*	*CC*	*GG*	*AA*	*CC*	*GG*	*TT*	*GG*	*TT*	*GG*	*TT*	*CC*	*GG*
GG	**TG**	**GG**	*GA*	*CC*	*AA*	*TA*	*TA*	**TC**	**CG**	*CT*	*CC*	*TT*	*GG*	*TT*	*GG*	*CC*	*GG*	*AA*	*CC*	*GG*	*TT*	*GG*	*TT*	*GG*	*TT*	*CC*	*GG*
GG	*TT*	*GG*	*GG*	*TT*	**AA**	*TT*	*TT*	*TT*	*GG*	*TT*	*CC*	*TT*	*GG*	*TT*	*GG*	*CC*	*GG*	*AA*	*CC*	*GG*	*TT*	*GA*	*TT*	*GG*	*TT*	*CC*	*GG*
GG	*TT*	*GG*	*GG*	*CT*	*AA*	*TT*	*TT*	*TT*	*CG*	*TT*	*CC*	*TT*	*GG*	*TT*	*GG*	*CC*	*GG*	*AA*	*CC*	*GG*	*TT*	*GA*	*TT*	*GG*	*TT*	*CC*	*GG*
GG	**GT**	*GG*	*AG*	*CC*	**AA**	**AT**	**AT**	*CT*	**GC**	**TC**	**CC**	*TT*	*GG*	*TT*	*GG*	*CC*	*GG*	*AA*	*CC*	*GG*	*TT*	*GG*	*TT*	*GG*	*TT*	*CC*	*GG*
GG	**TG**	**GG**	*GA*	*CC*	**AA**	**TA**	**TA**	*TC*	**CG**	**CT**	*CC*	**CT**	**AG**	**CT**	**TG**	**TC**	**AG**	*AA*	**TC**	**AG**	**CT**	**AG**	**CT**	**AG**	**TC**	**CA**	**CG**
GG	*TT*	*GG*	*GG*	*TT*	*AA*	*AT*	*TT*	*TT*	*GG*	**TT**	*CC*	*TT*	*GG*	*TT*	*GG*	*CC*	*GG*	*AA*	*CC*	*GG*	*TT*	*GG*	*TT*	*GG*	*CC*	*AA*	*GG*

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229600105	229600804	229600882	229601012	229601346	229601610	229601958	229602050	229602207	229602503	229602506	229603194	229603248	229603750	229603843	229603926	229604075	229604166	229604256	229604361	229604374	229604611	229605028	229605539	229605868	229606074	229606308	229606810
rs2808599	rs2790881	rs2790880	rs2790879	rs2808600	rs2486730	rs2474630	rs2790877	rs2486729	rs2491412	rs2486728	rs2808601	rs2790875	rs2244994	rs2244992	rs2808602	rs2244986	rs2749711	rs2739518	rs2808603	rs2749712	rs2790874	rs2472262	rs2808604	rs2486727	rs2486726	rs2790873	rs2808605
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T	A	C	A	T	T	G	A	C	A	T	A	A	C	T	A	C	G	C	T	T	A	C	T	A	A	A	A
C	G	T	C	C	G	A	G	T	T	G	G	G	G	C	G	T	A	T	C	A	G	T	C	G	G	G	C
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	AA	AA	CC	TT	AA	CC	GG	CC	TT	TT	AA	CC	TT	AA	AA	NA	AA
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NA	AA	CC	AA	TT	GG	GG	GG	TT	NA	NA	**AA**	**AA**	**CC**	**TT**	**AA**	**CC**	**GG**	**CC**	**TT**	**TT**	**AA**	CC	**TT**	**AA**	AA	**AA**	**AA**
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NA	AG	CT	**AC**	TC	GT	AA	GA	CC	NA	NA	**AG**	**AG**	**CG**	**TC**	**AG**	**CT**	**GA**	**CT**	**TC**	**TA**	**AG**	**CT**	**TC**	**AG**	**AG**	**AG**	**AC**
NA	GG	TT	CC	CC	TT	AA	AA	TT	NA	NA	**GG**	**GG**	**GG**	**CC**	GG	TT	AA	**TT**	CC	**AA**	GG	**TT**	**CC**	**GG**	**GG**	GG	**CC**
NA	GA	TC	CA	CT	TG	AG	AG	CT	NA	NA	**GA**	**GA**	GC	CT	GA	TC	AG	TC	CT	AT	GA	**TC**	CT	**GA**	**GA**	GA	CA
NA	**GA**	TC	CA	CT	TG	AG	AG	CT	NA	NA	**GA**	**GA**	**GC**	**CT**	**GA**	**TC**	**AG**	**TC**	**CT**	**AT**	**GA**	**TC**	**CT**	**GA**	**GA**	GA	**CA**
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CC	**GG**	TT	CC	TT	TT	GG	AA	TT	AA	GG	AG	**AA**	CC	TT	AA	CC	GA	CT	TC	TA	AG	CT	TC	AG	AG	AA	AC
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CT	**AG**	**CT**	**CA**	**CT**	**GT**	**GA**	**AG**	**CT**	**TA**	**TG**	**GA**	**AG**	**CG**	**TC**	**AG**	**CT**	**GA**	**CT**	**TC**	**TA**	**AG**	**CT**	**TC**	**AG**	**AG**	AA	**AC**
TT	GG	TT	AA	TT	TT	AA	GG	TT	AA	GG	AA	GG	**GG**	**CC**	GG	TT	**AA**	**TT**	**CC**	**AA**	**GG**	TT	**CC**	GG	GG	AA	**CC**

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rs2486725	**New**	rs2790872	rs2808607	rs2474631	rs6702297	rs540817	rs2355867	rs11807268	rs537135	rs512143	rs536125	rs513913	rs2790871	rs479200	rs2790870	rs576462	**New**	rs12033229	rs2491416	rs2808611	**New**	rs2808614	rs2808615	rs1769602	rs10147032	rs10137361
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G	C	A	G	T	C	T	A	C	T	G	G	G	G	G	A	C	T	T	T	A	A	A	G	T	T	C
C	T	T	A	A	T	C	C	T	C	C	A	T	C	A	G	T	C	C	C	G	T	G	A	C	A	T
GG	CC	AA	GG	TT	CC	CC	AA	CC	TT	GG	GG	GG	NA	NA	NA	NA	NA	NA	NA	GG	NA	NA	NA	NA	NA	NA
GC	CC	AT	GA	TA	CC	CC	AA	CC	TT	GG	GG	GG	NA	NA	NA	NA	NA	NA	NA	**GG**	NA	NA	NA	NA	NA	NA
CG	**CC**	**AA**	**GG**	**TT**	**TC**	CC	**AA**	**TC**	**CT**	**CG**	AG	**TG**	NA	NA	NA	NA	NA	NA	NA	GG	NA	NA	NA	NA	NA	NA
CG	**CC**	AA	**GA**	**TT**	**TT**	CC	AA	**TT**	CC	**CC**	AA	**TT**	NA	NA	NA	NA	NA	NA	NA	GG	NA	NA	NA	NA	NA	NA
CC	CC	TT	**AA**	**AA**	CC	CC	CC	**CC**	TT	**GG**	GG	**GG**	NA	NA	NA	NA	NA	NA	NA	AA	NA	NA	NA	NA	NA	NA
GC	**CC**	AA	**GG**	**TT**	**CC**	**CC**	AA	**CT**	**TC**	**GC**	GA	**GT**	NA	NA	NA	NA	NA	NA	NA	GG	NA	NA	NA	NA	NA	NA
GG	CC	AA	GG	TT	CC	CC	AA	CC	TT	GG	GG	GG	NA	NA	NA	NA	NA	NA	NA	GG	NA	NA	NA	NA	NA	NA
GG	**CC**	**AA**	GG	**TT**	**CC**	CC	**AA**	**TC**	**CT**	**CG**	**AG**	**TG**	NA	NA	NA	NA	NA	NA	NA	GG	NA	NA	NA	NA	NA	NA
CC	CC	TT	AA	AA	CC	CC	CC	CC	TT	**GG**	GG	**GG**	NA	NA	NA	NA	NA	NA	NA	AA	NA	NA	NA	NA	NA	NA
GC	CC	AT	GA	TA	CC	CC	AC	CC	TT	GG	GG	**GG**	NA	NA	NA	NA	NA	NA	NA	GA	NA	NA	NA	NA	NA	NA
GG	CC	AA	GG	TT	CC	CC	AA	TC	CT	CG	AG	**TG**	NA	NA	NA	NA	NA	NA	NA	GG	NA	NA	NA	NA	NA	NA
GC	CC	AT	GA	TA	CC	CC	AC	**CC**	**TT**	**GG**	GG	**GG**	NA	NA	NA	NA	NA	NA	NA	GA	NA	NA	NA	NA	NA	NA
GG	CC	AA	GG	TT	CC	CC	AA	TC	CT	CG	AG	TG	NA	NA	NA	NA	NA	NA	NA	GG	NA	NA	NA	NA	NA	NA
GC	**CC**	**AT**	**GA**	**TA**	**CC**	**CC**	**AC**	**CC**	**TT**	**GG**	**GG**	**GG**	NA	NA	NA	NA	NA	NA	NA	**GA**	NA	NA	NA	NA	NA	NA
CC	**CC**	TT	**AA**	**AA**	**CC**	**CC**	**CA**	**CC**	**TT**	**GG**	GG	**GG**	NA	NA	NA	NA	NA	NA	NA	AG	NA	NA	NA	NA	NA	NA
CC	**CC**	**TT**	AA	**AA**	**CC**	CC	CC	**CC**	**TT**	**GG**	**GG**	**GG**	NA	NA	NA	NA	NA	NA	NA	**AA**	NA	NA	NA	NA	NA	NA
CC	CC	TT	AA	AA	CC	NA	CC	CC	TT	GG	GG	GG	CC	NA	GG	TT	TT	TT	NA	AA	NA	NA	NA	NA	NA	NA
CC	CC	TT	AA	AA	CC	NA	CC	CC	TT	GG	GG	GG	CC	NA	GG	TT	TT	TT	NA	AA	NA	NA	NA	NA	NA	NA
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CC	CC	TT	**AA**	**AA**	CC	CC	**CC**	**CC**	TT	**GG**	GG	**GG**	NA	NA	NA	NA	NA	NA	NA	AA	NA	NA	NA	NA	NA	NA
CC	**CC**	TT	**AA**	**AA**	CC	NA	CA	**CC**	**TT**	**GG**	GG	**GG**	CC	NA	GG	TT	TT	TT	NA	AA	NA	NA	NA	NA	NA	NA
CC	CC	TT	AA	AA	CC	NA	CC	**CC**	**TT**	**GG**	**GG**	**GG**	CC	NA	GG	TT	TT	TT	NA	**AA**	NA	NA	NA	NA	NA	NA
CC	CC	TT	AA	AA	CC	NA	CC	CC	TT	GG	GG	**GG**	CC	NA	GG	TT	TT	TT	NA	AA	NA	NA	NA	NA	NA	NA
CC	**CC**	**TT**	AA	**AA**	**CC**	NA	**CC**	**CC**	**TT**	**GG**	**GG**	**GG**	**CC**	NA	**GG**	**TT**	**TT**	**TT**	NA	**AA**	NA	NA	NA	NA	NA	NA
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CG	CC	TA	AG	AT	CC	CC	CA	CC	TT	GG	GG	GG	NA	NA	NA	NA	NA	NA	NA	AG	NA	NA	NA	NA	NA	NA
GG	CC	**AA**	GG	**TT**	**CC**	CC	AA	**CC**	**TT**	**GG**	**GG**	**GG**	NA	NA	NA	NA	NA	NA	NA	**GG**	NA	NA	NA	NA	NA	NA
GG	CC	AA	GG	TT	TC	CC	AA	TC	CT	CG	AG	**TG**	NA	NA	NA	NA	NA	NA	NA	GG	NA	NA	NA	NA	NA	NA
CG	**CC**	**TA**	**AG**	**AT**	**CC**	**CC**	**CC**	**CC**	**TT**	**GG**	GG	**GG**	NA	NA	NA	NA	NA	NA	NA	AG	NA	NA	NA	NA	NA	NA
CC	**CC**	TT	**AA**	**AA**	**CC**	**CC**	**CA**	**CC**	**TT**	**GG**	**GG**	**GG**	NA	NA	NA	NA	NA	NA	NA	AA	NA	NA	NA	NA	NA	NA
GG	CC	AA	GG	TT	CC	CC	AA	CC	TT	**GG**	GG	**GG**	NA	NA	NA	NA	NA	NA	NA	GG	NA	NA	NA	NA	NA	NA
CC	CC	TA	AG	AT	CC	CC	CA	CC	TT	GG	GG	GG	NA	NA	NA	NA	NA	NA	NA	AG	NA	NA	NA	NA	NA	NA
CC	CC	TT	AA	AA	CC	CC	CC	CC	**TT**	**GG**	GG	**GG**	NA	NA	NA	NA	NA	NA	NA	AA	NA	NA	NA	NA	NA	NA
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CG	CC	**TA**	AG	AT	**CC**	CC	CA	**CC**	**TT**	**GG**	**GG**	**GG**	NA	NA	NA	NA	NA	NA	NA	AG	NA	NA	NA	NA	NA	NA
CG	CC	TA	AG	**AT**	CC	CC	CA	**CC**	**TT**	**GG**	GG	**GG**	NA	NA	NA	NA	NA	NA	NA	AG	NA	NA	NA	NA	NA	NA
CG	CC	TA	AG	AT	CC	CC	CA	CC	TT	GG	GG	**GG**	NA	NA	NA	NA	NA	NA	NA	AG	NA	NA	NA	NA	NA	NA
CG	**CC**	**TA**	AG	**AT**	**CC**	CC	**CA**	**CC**	**TT**	**GG**	**GG**	**GG**	NA	NA	NA	NA	NA	NA	NA	**AG**	NA	NA	NA	NA	NA	NA
GG	**CC**	**AA**	**GG**	**TT**	**CC**	**CC**	**AA**	**CC**	**TT**	**GG**	**GG**	**GG**	NA	NA	NA	NA	NA	NA	NA	GG	NA	NA	NA	NA	NA	NA
CG	**CC**	TA	**AG**	**AT**	**CT**	**CC**	**CA**	**CT**	**TC**	**GC**	**GA**	**GT**	NA	NA	NA	NA	NA	NA	NA	AG	NA	NA	NA	NA	NA	NA
CG	**CC**	AA	**GG**	**TT**	**CC**	CC	**AA**	**CC**	**TT**	**GG**	GG	**GG**	NA	NA	NA	NA	NA	NA	NA	GG	NA	NA	NA	NA	NA	NA
CC	CC	TT	AA	AA	CC	CC	CC	CC	TT	GG	GG	GG	NA	NA	NA	NA	NA	NA	NA	AA	NA	NA	NA	NA	NA	NA
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CC	**CC**	**TT**	**AA**	**AA**	**CC**	**CC**	**CC**	**CC**	**TT**	**GG**	GG	**GG**	NA	NA	NA	NA	NA	NA	NA	AA	NA	NA	NA	NA	NA	NA
GG	**CC**	**AA**	GG	**TT**	**CT**	CC	**AA**	**CT**	**TC**	**GC**	**GA**	**GT**	NA	NA	NA	NA	NA	NA	NA	GG	NA	NA	NA	NA	NA	NA
GC	**CC**	**AT**	GA	**TA**	**CC**	**CC**	**AC**	**CC**	**TT**	**GG**	**GG**	**GG**	**GC**	GA	**AG**	**CT**	TT	**CT**	CT	**GA**	AA	GG	**GG**	NA	NA	NA
GC	**TC**	**AT**	GA	**TA**	**CC**	CC	**AC**	**CC**	**TT**	**GG**	**GG**	**GG**	**GC**	**GA**	**AG**	**CT**	**TT**	**CT**	CT	**GA**	AA	GG	AA	NA	NA	NA
CC	**CC**	**TT**	AA	**AA**	**CC**	CC	**CC**	**CC**	**TT**	**GG**	**GG**	**GG**	**CC**	**AA**	**GG**	**TT**	**TT**	**TT**	TT	**AA**	AA	GG	AA	NA	NA	NA
GG	**CC**	**AA**	GG	**TT**	**CC**	**CC**	**AA**	**CC**	**TT**	**GG**	**GG**	**GG**	**GG**	**GG**	**AA**	**CC**	**TT**	**CC**	**CC**	**GG**	**AA**	**GG**	**AA**	NA	NA	NA
CC	**CC**	**TT**	AA	**AA**	**CC**	CC	**CC**	**CC**	**TT**	**GG**	**GG**	**GG**	CC	AA	GG	TT	TT	TT	TT	AA	AA	GG	AA	NA	NA	NA
GC	**CC**	**AT**	**GA**	**TA**	**TC**	**CC**	**AC**	**TC**	**CT**	**CG**	**AG**	**TG**	GC	GA	AG	CT	TT	CT	CT	**GA**	AA	GG	AA	NA	NA	NA
CC	**CC**	**TT**	**AA**	**AT**	**CC**	**CC**	**CA**	**CC**	**TT**	**GG**	**GG**	**GG**	CG	AG	GA	TC	TT	TC	TC	AG	AA	GG	AA	NA	NA	NA
CG	**CC**	TA	**AG**	**AT**	**CC**	**CC**	**CA**	**CC**	**TT**	**GG**	GG	**GG**	CG	AG	GA	TC	TT	TC	TC	**AG**	AA	GG	AA	NA	NA	NA
CG	**CC**	**TA**	**AG**	**AT**	**CC**	**CT**	**CA**	**CC**	**TT**	**GG**	**GG**	**GT**	CG	AG	GA	TC	TT	TC	TC	**AG**	AA	GG	AA	NA	NA	NA
CC	**CC**	**TT**	**AA**	**AA**	**CC**	**CC**	**CA**	**CC**	**TT**	**GG**	**GG**	**GG**	**CC**	**AA**	**GG**	**TT**	**TT**	**TT**	**TT**	**AA**	AA	GG	AA	NA	NA	NA
CC	**CC**	TT	**AA**	**AA**	**CC**	**CC**	**CC**	**CC**	**TT**	**GG**	GG	**GG**	CC	AA	GG	TT	TT	TT	TT	AA	AA	GG	AA	NA	NA	NA
CC	**CC**	**TT**	AA	**AA**	**CC**	**CC**	**CC**	**CC**	**TT**	**GG**	**GG**	**GG**	**CC**	**AA**	**GG**	**TT**	**TT**	**TT**	TT	**AA**	AA	GG	AA	NA	NA	NA
CG	**CC**	**TA**	AG	**AT**	**CT**	CC	**CA**	**CT**	**TC**	**GC**	**GA**	**GT**	CG	AA	GG	TT	TT	TT	TT	**AA**	AA	GG	AA	NA	NA	NA
CC	CC	TT	AA	AA	CC	CC	CC	CC	TT	GG	GG	GG	CC	AA	GG	TT	TT	TT	TT	AA	AA	GG	AA	NA	NA	NA
CG	CC	TA	AG	AT	CT	CC	CA	CT	TC	**GC**	GA	GT	CG	AG	GA	TC	TT	TT	TT	AA	AA	GG	AA	NA	NA	NA
CC	CC	TT	AA	AA	CC	CC	CC	CC	TT	GG	GG	GG	CC	AA	GG	TT	TT	TT	TT	AA	AA	GG	AA	NA	NA	NA
GG	**CC**	**AA**	GG	**TT**	**CT**	CC	**AA**	**CT**	**TC**	**GC**	**GA**	**GT**	GG	GG	AA	CC	TT	CC	CC	**GG**	AA	GG	AG	NA	NA	NA
CG	**CC**	**TA**	**AG**	**AT**	**CC**	**CC**	**CA**	**CC**	**TT**	**GG**	**GG**	**GG**	**CG**	AG	**GA**	TC	**TT**	TC	TC	**AG**	AA	GG	AA	NA	NA	NA
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CC	**CC**	TT	**AA**	**AA**	**CC**	**CC**	**AC**	**CC**	**TT**	**GG**	GG	**GG**	CC	AA	GG	TT	TT	TT	TT	AA	AA	GG	AA	NA	NA	NA
GG	**CC**	**AA**	**GG**	**TT**	**TC**	**CC**	**AA**	**TC**	**CT**	**CG**	**AG**	**TG**	GG	AG	GA	CC	CT	TT	NA	**GG**	AA	AA	AA	CC	AA	CC
GG	CC	AA	GG	AA	CC	CC	AA	CC	TT	GG	GG	GG	CC	AA	GG	TT	CC	CT	NA	AA	TT	AA	GG	CC	AA	CC
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GC	CC	AT	GG	TT	CC	CC	AA	CC	TT	GG	GG	GG	CC	AA	GG	CT	CC	TC	NA	AA	TT	AA	GA	CC	AA	CC
GG	**CC**	**AT**	GA	**AT**	**CT**	CC	**AC**	**CT**	**TC**	**GC**	**GA**	**GT**	CG	AG	GA	TC	CC	CT	NA	AA	TA	AA	GG	CC	AA	CC
GC	CC	AT	GG	AT	CC	CC	AA	CC	TT	GG	GG	GG	CG	AG	GA	TC	CC	CT	NA	**AA**	TT	AA	GA	CC	AA	CC
GG	**CC**	**AA**	GG	**TT**	**CT**	CC	**AA**	**TT**	**CC**	**CC**	**AA**	**TT**	GG	GG	AA	CC	CC	TT	NA	AA	AT	AA	AA	CC	AA	CC
CC	CC	TT	**GA**	AT	CC	CC	**AC**	**CC**	TT	**GG**	GG	GG	GG	GG	AA	CC	CT	TT	NA	AA	AT	AA	GA	**TT**	AA	CC
GC	CC	AT	GA	AT	CC	CC	AC	**CC**	TT	**GG**	GG	**GG**	GC	GA	AG	CT	CC	CT	NA	**AA**	TT	AA	AG	**TC**	**TA**	**TC**
CG	**CC**	**TA**	**AG**	**TA**	**CC**	**CC**	**CA**	**CC**	**TT**	**GG**	**GG**	**GG**	GC	GA	AG	CT	CC	TC	NA	**GA**	AT	AA	AG	CC	AA	CC
GC	CC	AT	GA	TT	CC	CC	AC	CC	TT	GG	GG	GG	GG	GA	AG	CC	CC	TT	NA	**AA**	TT	AA	AG	CC	AA	CC
GC	**CC**	AT	**GA**	**AT**	**CT**	**CC**	**AC**	**CT**	**TC**	**GC**	GA	**GT**	CG	AG	GG	TC	CC	CC	NA	AA	TT	AA	GG	CC	AA	CC
CG	CC	TA	GG	TT	CC	CC	AA	CC	TT	GG	GG	GG	CG	AG	GA	CC	CC	TT	NA	**AA**	TT	GA	GA	CC	AA	CC
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GG	CC	AA	GG	AT	CC	CC	AA	CC	TT	GG	GG	GG	GC	GA	AG	CC	CC	TT	NA	AA	TT	AA	GA	CC	AA	CC
GC	**CC**	**AT**	GA	**AT**	**CC**	**CC**	**AC**	**CC**	**TT**	**GG**	**GG**	**GG**	**CG**	**AG**	**GA**	**TC**	**CT**	**CT**	NA	**AG**	**TA**	**GA**	**GA**	CC	AA	CC
GC	**CC**	**AT**	GG	**TA**	**CC**	CC	**AA**	**CC**	**TT**	**GG**	**GG**	**GG**	GC	GA	AG	CT	CC	TT	NA	AA	TT	AA	GG	CC	AA	CC
CC	**CC**	**TT**	AG	**TA**	**CC**	CC	CA	**CC**	**TT**	**GG**	GG	**GG**	GG	GG	AA	CC	TC	TT	NA	AA	TT	AG	AG	**TC**	**TA**	**TC**

14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
33466368	33466572	33468434	33468679	33469850	33469936	33470344	33470440	33470475	33470694	33470855	33471397	33471509	33471644	33472359	33472896	33472987	33472992	33473257	33473325	33473515	33473523	33473736	33474478	33475625	33475631
rs1680706	rs10138194	**New**	rs6571624	rs1769605	**New**	**New**	**New**	rs1680703	rs1680702	rs1032015	rs1769607	rs1680699	rs1769608	rs1769609	**New**	**New**	rs1680698	rs1769610	**New**	rs61973047	**New**	rs1769612	rs1680696	rs12436947	rs12436949
PHD3	PHD3	PHD3	PHD3	PHD3	PHD3	PHD3	PHD3	PHD3	PHD3	PHD3	PHD3	PHD3	PHD3	PHD3	PHD3	PHD3	PHD3	PHD3	PHD3	PHD3	PHD3	PHD3	PHD3	PHD3	PHD3
G	G	C	C	A	G	C	C	A	A	T	T	G	A	T	T	A	T	G	G	C	T	A	A	G	G
A	A	T	T	G	C	T	A	G	G	C	C	A	G	A	A	C	G	A	A	T	C	G	C	A	A
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GG	AA	CT	TT	GG	GG	CC	CC	GG	GG	TT	TT	AA	AA	AA	TT	AA	GG	GG	GG	CC	TT	GG	AA	AA	AA
GG	AA	CC	CC	GG	GG	CC	CC	GG	GG	CC	CC	AA	GG	AA	TT	AA	GG	AA	GG	TT	TT	GG	CC	GG	GG
GG	AA	CT	CT	GG	GG	CC	CC	GG	GG	CT	CT	AA	GA	AA	TT	AA	GG	AG	GG	TC	TT	GG	CA	GA	GA
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GG	AA	CT	CT	GG	GG	CC	CC	GG	GG	CT	CT	AA	GA	AA	TT	AA	GG	AG	GG	TC	TT	GG	CA	GA	GA
GG	AA	TC	CC	GG	GG	CC	CC	GG	GG	CC	CC	AA	GG	AA	TT	AA	GG	AA	GG	TT	TT	GG	CC	GG	GG
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GG	AA	CC	TT	GG	GG	CC	CC	GG	GG	TT	TT	AA	AA	AA	TT	AA	GG	GG	GG	CC	TT	GG	AA	AA	AA
AG	GA	CC	CT	GG	GG	CC	CC	GG	GG	CT	CT	AA	GA	AA	TT	AA	GG	AG	GG	TC	TT	GG	CA	GA	GA

14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
33477075	33477445	33477834	33478724	33479010	33479173	33479231	33479780	33479907	33480133	33480293	33480517	33480548	33480643	33481116	33481618	33481787	33481986	33482633	33482640	33483283	33483522	33483577	33483722	33483920	33483932
rs12435664	**New**	rs1680695	rs10139331	rs1032014	rs1769616	**New**	rs10148380	rs1680694	**New**	**New**	rs3216002	rs10149089	rs996347	rs1680692	rs28700924	**New**	**New**	rs1680691	rs12885361	rs11850695	**New**	rs1629140	rs1680690	rs1680689	rs1769617
PHD3	PHD3	PHD3	PHD3	PHD3	PHD3	PHD3	PHD3	PHD3	PHD3	PHD3	PHD3	PHD3	PHD3	PHD3	PHD3	PHD3	PHD3	PHD3	PHD3	PHD3	PHD3	PHD3	PHD3	PHD3	PHD3
T	C	T	C	G	T	C	C	C	G	T	A	A	T	A	G	C	G	A	T	T	A	A	G	T	A
C	G	G	G	T	C	T	G	T	A	C	C	C	C	G	C	G	A	G	C	A	G	G	A	C	G
TT	*CC*	*TT*	*CC*	*GG*	*TT*	*CC*	*CC*	*CC*	*GG*	*TT*	*AA*	**AA**	*TT*	*AA*	*GG*	*CC*	*GG*	*AA*	*TT*	**TT**	*AA*	*AA*	*GG*	*TT*	*AA*
TT	*CC*	*TT*	*CC*	*GG*	*TT*	*CC*	**CC**	**CC**	**GG**	**TT**	**AA**	**AA**	**TT**	**AA**	*GG*	*CC*	*GG*	*AA*	*TT*	**TT**	*AA*	*AA*	*GG*	*TT*	*AA*
CT	**CC**	**TT**	**CC**	**GG**	**CT**	**CC**	**CC**	**TC**	**GG**	**TT**	**AA**	**AA**	**TT**	**AA**	**GG**	**CC**	**GG**	**AA**	**CT**	**AT**	**AA**	**GA**	**AG**	**CT**	**GA**
TT	*CC*	*GT*	*CC*	*TG*	*CT*	*CC*	*CC*	*TC*	*GG*	*TT*	**AA**	**AA**	**CT**	**GA**	**GG**	**CC**	**GG**	**GA**	**TT**	**TT**	**AA**	**AA**	**GG**	**TT**	**AA**
CC	*CC*	*TT*	**CC**	*GG*	*CC*	**CC**	**CC**	**TT**	*GG*	*TT*	*AA*	**AA**	**TT**	*AA*	**GG**	**CC**	**GG**	**AA**	**CC**	**TA**	**AA**	**GG**	**AA**	**CC**	**GG**
TT	**CC**	*TG*	*CC*	**GT**	*TC*	*CC*	**CC**	**CC**	*GH*	**TT**	**AA**	**AA**	**TC**	**AG**	**GG**	**CC**	**GG**	**AG**	**TT**	**TT**	**AA**	**AG**	**GA**	**TC**	**AG**
TT	*CC*	*TT*	*CC*	*GG*	*TT*	*CC*	*CC*	*CC*	*GG*	*TT*	**AA**	**AA**	**TT**	**AA**	**GG**	**CC**	**GG**	**AA**	**TT**	*TT*	**AA**	**AA**	**GG**	**TT**	**AA**
TC	*CC*	**TT**	**CC**	**GG**	**TC**	**CC**	**CC**	**CT**	*GG*	*TT*	**AA**	**AA**	**TT**	**AA**	**GG**	**CC**	**GG**	**AA**	**TC**	**TT**	**AA**	**AG**	**GA**	**TC**	**AG**
TT	*CC*	*GG*	**CC**	**TT**	*CC*	*CC*	**CC**	*CC*	*HH*	*TT*	**AA**	**AA**	**CC**	**GG**	**GG**	**CC**	**GG**	**GG**	**TT**	*TT*	**AA**	**GG**	**AA**	**CC**	**GG**
TT	*CC*	**TT**	**CC**	**GG**	**TT**	**CC**	**CC**	**CC**	*GG*	*TT*	**AA**	**AA**	**TT**	**AA**	**GG**	**CC**	**GG**	**AA**	**TT**	**TT**	**AA**	**AA**	**GG**	**TT**	**AA**
TT	*CC*	*TT*	**CC**	*GG*	*TT*	*CC*	*CC*	*CC*	*GG*	*TT*	**AC**	**AA**	**TT**	**AA**	**GG**	**CC**	**GG**	**AA**	**TT**	*TT*	**AA**	**AA**	**GG**	**TT**	**AA**
TT	*CC*	*TG*	**CC**	*GT*	*TC*	*CC*	**CC**	**CT**	*GG*	*TT*	**AA**	**AA**	**TC**	**AG**	**GG**	**CC**	**GG**	**AG**	**TT**	*TT*	*AA*	**AA**	*GG*	**TT**	**AA**
TT	**CC**	**GG**	**CC**	**TT**	**CC**	**CC**	**CC**	**TT**	**GG**	**TT**	**AA**	**AA**	**CC**	**GG**	**GG**	**CC**	**GG**	**GG**	**TT**	**TT**	**AA**	**AA**	**GG**	**TT**	**AA**
TT	**CC**	**TT**	**CC**	**GG**	**TT**	**CC**	**CC**	**CC**	**GG**	**TT**	*AA*	**AA**	*TT*	*AA*	*GG*	*CC*	*GG*	*AA*	*TT*	**TT**	*AA*	*AA*	*GG*	*TT*	*AA*
TT	*CC*	**TT**	*CC*	*GG*	**TT**	*CC*	**CC**	**CC**	**GG**	**TT**	**AA**	**AA**	**TT**	**AA**	**GG**	**CC**	**GG**	**AA**	**TT**	**TT**	**AA**	**AA**	**GG**	**TT**	**AA**
CT	*CC*	**TT**	**CC**	**GG**	*CT*	**CC**	**CC**	**TC**	*GG*	*TT*	**AA**	**AA**	**TT**	**AA**	**GG**	**CC**	**GG**	**AA**	**CT**	*TT*	**AA**	**GA**	**AG**	**CT**	**GA**
TT	*CC*	*GG*	*CC*	*TT*	*CC*	*CC*	*CC*	*TT*	*GG*	*TT*	*AA*	*AA*	*CC*	*GG*	*GG*	*CC*	*GG*	*GG*	*TT*	*TT*	*AA*	*GG*	*AA*	*CC*	*GG*
TT	*CD*	**GT**	**CC**	**TG**	*CD*	*CC*	**CC**	*TC*	*GH*	*TT*	**AA**	**AA**	**CT**	**GA**	**GG**	**CC**	**GG**	**GA**	**TT**	*TT*	**AA**	**GA**	**AG**	**CT**	**GA**
TT	**CC**	**GT**	**CG**	**TG**	**CC**	**CC**	**CG**	**TT**	**GG**	**TT**	**AA**	**AC**	**CT**	**GA**	**GC**	**CC**	**GG**	**GA**	**TT**	**TT**	**AA**	**GA**	**AG**	**CT**	**GG**
TT	*CC*	*GT*	*CG*	*TG*	*CC*	**CC**	*CG*	*TT*	**GG**	*TT*	*AA*	**AC**	*CT*	*GA*	*GC*	*CC*	*GG*	*GA*	*TT*	**TT**	*AA*	*GA*	*AG*	*CT*	*GG*
TT	*CD*	*GT*	*CC*	*TG*	*CC*	*CC*	*CC*	*TC*	*GH*	*TT*	**AC**	**AA**	**CT**	**GA**	**GG**	**CC**	**GG**	**GA**	**TT**	**TT**	**AA**	**GA**	**AG**	**CT**	**GA**
TT	*CD*	*GT*	*CC*	*TG*	*CC*	*CC*	*CC*	*TC*	*GH*	*TT*	**AA**	**AA**	**CT**	*GA*	*GG*	**CC**	**GG**	**GA**	**TT**	**TT**	**AA**	**GA**	**AG**	**CT**	**GA**
TT	**CC**	**GT**	**CG**	**TG**	**CC**	**CC**	**CG**	**TT**	**GG**	*TT*	**AA**	**AC**	**CT**	**GA**	**GC**	**CC**	**GG**	**GA**	**TT**	**TT**	**AA**	**GA**	**AG**	**CT**	**GG**
TT	*CC*	*GT*	*CC*	*TG*	*CT*	*CC*	**CC**	*TC*	*GG*	*TT*	**AA**	**AA**	**CT**	**GA**	**GG**	**CC**	**GG**	**GA**	**TT**	**TT**	**AA**	**GA**	**AG**	**CT**	**GA**
TT	*CC*	*GT*	*CG*	*TG*	*CC*	**CC**	**CG**	**CT**	*HG*	**TT**	*AA*	*AC*	*TT*	*AA*	*GC*	*CC*	*GG*	*AA*	*TT*	**TT**	*AA*	*AA*	*GG*	*TT*	*AG*
TT	*DC*	*GG*	*CC*	*TT*	*CC*	*CC*	*CC*	*CC*	*HH*	*TT*	**AA**	**AA**	**TT**	**AA**	**GG**	**CC**	**GG**	**AA**	**TT**	*TT*	**AA**	**AA**	**GG**	**TT**	**AA**
TT	*CC*	*GG*	*CC*	*TT*	*CC*	*CC*	*CC*	*CC*	*HH*	*TT*	**AA**	**AA**	**TT**	**AA**	**GG**	**CC**	**GG**	**AA**	**TT**	*TT*	**AA**	**AA**	**GG**	**TT**	**AA**
TT	*CC*	**GG**	**CC**	**TT**	**CC**	**CC**	**CC**	**TC**	**GH**	*TT*	**AA**	**AA**	**CT**	**GA**	**GG**	**CC**	**GG**	**GA**	**TT**	*TT*	**AA**	**GA**	**AG**	**CT**	**GA**
TT	*CC*	*GG*	*CC*	*TT*	*CC*	*CC*	*CC*	*TT*	*GG*	*TT*	**AA**	**AA**	**CC**	**GG**	**GG**	**CC**	**GG**	**GG**	**TT**	*TT*	**AA**	**GG**	**AA**	**CC**	**GG**
TT	*CC*	*GT*	*CC*	*TG*	*CT*	*CC*	*CC*	*TC*	*GG*	*TT*	**AA**	**AA**	*CT*	*GA*	*GG*	**CC**	*GG*	*GA*	*TT*	*TT*	*AA*	*GA*	*AG*	*CT*	*GA*
TT	*CC*	**TT**	**CC**	**GG**	**TT**	**CC**	**CC**	**CC**	**GG**	*TT*	**AA**	**AA**	**TT**	**AA**	**GG**	**CC**	**GG**	**AA**	**TT**	*TT*	**AA**	**AA**	**GG**	**TT**	**AA**
TC	*CC*	*TT*	*CC*	*GG*	*TC*	*CC*	*CC*	*CT*	*GG*	*TT*	**AA**	**AA**	**TT**	**AA**	*GG*	**CC**	**GG**	**AA**	**TC**	**TA**	**AA**	**AG**	**GA**	**TC**	**AG**
TT	*CC*	*TT*	**CC**	*GG*	*TT*	*CC*	**CC**	**CC**	**GG**	*TT*	**AA**	**AA**	**TT**	**AA**	**GG**	**CC**	**GG**	**AA**	**TT**	**TT**	**AA**	**AA**	**GG**	**TT**	**AA**
TT	**CC**	**TG**	**CC**	**GT**	**TC**	**CC**	**CC**	**CT**	**GG**	**TT**	**CA**	**AA**	**TC**	**AG**	**GG**	**CC**	**GG**	**AG**	**TT**	**TT**	**AA**	**AG**	**GA**	**TC**	**AG**
TT	*CC*	*TG*	*CC*	*GT*	*TC*	*CC*	*CC*	*CT*	*GG*	*TT*	**AA**	**AA**	**TC**	**AG**	**GG**	**CC**	**GG**	**AG**	**TT**	**TT**	**AA**	**AG**	**GA**	**TC**	**AG**
TT	*CC*	*TG*	*CC*	*GT*	*TC*	*CC*	*CC*	**CT**	*GG*	**TT**	**AA**	**AA**	**TC**	**AG**	**GG**	**CC**	**GG**	**AG**	**TT**	**TT**	**AA**	**AG**	**GA**	**TC**	**AG**
TT	*CC*	*GG*	*CC*	*TT*	*CC*	*CC*	*CC*	*TT*	*GG*	*TT*	**AA**	**AA**	**CC**	**GG**	**GG**	**CC**	**GG**	**GG**	**TT**	*TT*	**AA**	**GG**	**AA**	**CC**	**GG**
CT	*CC*	*TG*	*CC*	*GT*	*CC*	*CC*	*CC*	*TT*	*GG*	*TT*	**AA**	**AA**	**TC**	**AG**	**GG**	**CC**	**GG**	**AG**	**CT**	*AT*	**AA**	**GG**	**AA**	**CC**	**GG**
TT	*CC*	*TT*	**CC**	**GG**	*TT*	*CC*	**CC**	*CC*	*GG*	*TT*	**AC**	**AA**	**TT**	**AA**	**GG**	**CC**	**GG**	**AA**	**TT**	*TT*	**AA**	**AA**	**GG**	**TT**	**AA**
TT	*CC*	*TT*	*CC*	**GG**	*TT*	*CC*	**CG**	*CC*	*GG*	*TT*	**AA**	**AC**	**TT**	**AA**	**GC**	**CC**	**GG**	**AA**	**TT**	**TT**	**AA**	**AA**	**GG**	**TT**	**AG**
CT	*CC*	*TG*	*CC*	*GT*	*CC*	*CC*	*CC*	*TT*	*GG*	*TT*	**AA**	**AA**	**TC**	**AG**	**GG**	**CC**	**GG**	**AG**	**CT**	*AT*	*AA*	**GG**	**AA**	**CC**	**GG**
TC	*CC*	*TT*	**CC**	**GG**	*TC*	*CC*	*CC*	*CT*	*GG*	*TT*	**AA**	**AA**	**TT**	**AA**	**GG**	**CC**	**GG**	**AA**	**TC**	*TA*	**AA**	**AG**	**GA**	**TC**	**AG**
TC	*CC*	*TT*	*CC*	*GG*	*TC*	*CC*	*CC*	**CT**	*GG*	*TT*	**CA**	**AC**	**TT**	**AA**	**GC**	**CC**	**GG**	**AA**	**TC**	**TA**	**AA**	**AG**	**GA**	**TC**	**AG**
TT	**CC**	**TT**	**CC**	**GG**	**TT**	**CC**	**CC**	**CC**	**GG**	**TT**	*AC*	**AA**	*TT*	*AA*	*GG*	*CC*	*GG*	*AA*	*TT*	**TT**	*AA*	*AA*	*GG*	*TT*	*AA*
TC	**CC**	**TT**	**CC**	**GG**	**TC**	**CC**	**CC**	**CT**	**GG**	**TT**	**AA**	**AA**	**TT**	**AA**	**GG**	**CC**	**GG**	**AA**	**TC**	**TA**	**AA**	**AG**	**GA**	**TC**	**AG**
CC	*CC*	*TT*	*CC*	*GG*	*CC*	*CC*	*CC*	*TT*	*GG*	*TT*	*AA*	**AA**	**TT**	*AA*	*GG*	*CC*	**GG**	**AA**	**CC**	**TA**	**AA**	**GG**	**AA**	**CC**	**GG**
TT	**CC**	*TT*	**CC**	**GG**	*TT*	**CC**	**CC**	**CC**	**GG**	**TT**	**AC**	**AA**	**TT**	**AA**	**GG**	**CC**	**GG**	**AA**	**TT**	**TT**	**AA**	**AA**	**GG**	**TT**	**AA**
TT	**CC**	*TT*	**CC**	**GG**	**TT**	**CC**	**CC**	**CC**	**GG**	**TT**	**AC**	**AA**	**TT**	**AA**	**GG**	**CC**	**GG**	**AA**	**TT**	**TT**	**AA**	**AA**	**GG**	**TT**	**AA**
TT	*CC*	**TG**	**CC**	**GT**	**TC**	**CC**	**CC**	**CT**	*GG*	*TT*	**CA**	**AA**	**TC**	**AG**	**GG**	**CC**	**GG**	**AG**	**TT**	*TT*	**AA**	**AG**	**GA**	**TC**	**AG**
TT	*CC*	*GT*	*CG*	*TG*	*CC*	*CC*	*CG*	*TT*	*GG*	*TT*	**AA**	**AC**	**CT**	**GA**	**GC**	**CC**	**GG**	**AA**	**TT**	*TT*	**AA**	**AA**	**GG**	**TT**	**AG**
TT	*CC*	**TT**	**CC**	**GG**	**TT**	**CC**	**CC**	**CC**	**GG**	*TT*	**AA**	**AA**	**TT**	**AA**	**GG**	**CC**	**GG**	**AA**	**TT**	*TT*	**AA**	**AA**	**GG**	**TT**	**AA**
TC	*CC*	**TT**	**CC**	**GG**	**TC**	**CC**	**CC**	**CT**	**GG**	*TT*	**AA**	**AA**	**TT**	**AA**	**GG**	**CC**	**GG**	**AA**	**TC**	**TA**	**AA**	**AG**	**GA**	**TC**	**AG**
TC	*CC*	**TT**	**CC**	**GG**	**TC**	**CC**	**CC**	**CT**	**GG**	*TT*	**AA**	**AA**	**TT**	**AA**	**GG**	**CC**	**GG**	**AA**	**TC**	*TA*	**AA**	**AG**	**GA**	**TC**	**AG**
TT	*CC*	**TT**	**CC**	**GG**	**TT**	**CC**	**CC**	**CC**	**GG**	*TT*	**AC**	**AA**	**TT**	**AA**	**GG**	**CC**	**GG**	**AA**	**TT**	*TT*	**AA**	**AA**	**GG**	**TT**	**AA**
TT	*CC*	*TT*	*CC*	*GG*	*TT*	*CC*	*CC*	*CC*	*GG*	*TT*	**AC**	**AA**	**TT**	**AA**	**GG**	**CC**	**GA**	**AA**	**TT**	**TT**	**AA**	**AA**	**GG**	**TT**	**AA**
TT	**CC**	**GG**	**CC**	**TT**	**CC**	**CC**	**CC**	**TT**	**GG**	**TT**	*AA*	**AA**	*CC*	*GG*	*GG*	*CC*	*GG*	*GG*	*TT*	**TT**	*AA*	*GG*	*AA*	*CC*	*GG*
TT	**CC**	**GG**	**CC**	*TT*	*CC*	*CC*	**CC**	**TT**	**GG**	**TT**	**AA**	**AA**	**CC**	**GG**	**GG**	**CC**	**GG**	**GG**	**TT**	**TT**	**AA**	**GG**	**AA**	**CC**	**GG**
TC	**CC**	**TT**	**CC**	**GG**	**TC**	**CC**	**CC**	**CT**	**AG**	**TT**	**AA**	**AA**	**TT**	**AA**	**GG**	**CC**	**GG**	**AA**	**TC**	**TA**	**AA**	**AG**	**GA**	**TC**	**AG**
CT	**CC**	**TG**	**CC**	**GT**	**CC**	**CC**	**CC**	**TT**	**GG**	**TT**	**AA**	**AA**	**TC**	*AG*	*GG*	*CC*	**GG**	**AG**	**CT**	**AT**	**AA**	**GG**	**AA**	**CC**	**GG**
TT	**CC**	**GT**	**CC**	**TG**	**CT**	**CC**	**CC**	**TC**	**GA**	**TT**	**AA**	**AA**	**CT**	**GA**	**GG**	**CC**	**GG**	**GA**	**TT**	**TT**	**AA**	**GA**	**AG**	**CT**	**GA**
TT	*CC*	**TT**	**CG**	**GG**	**TC**	**CC**	**CG**	**CT**	**GG**	*TT*	**AA**	**AC**	**TT**	**AA**	**GC**	**CC**	**GG**	**AA**	**TT**	*TT*	**AA**	**AA**	**GG**	**TT**	**AG**
CT	*CC*	**TG**	**CC**	**GT**	**CC**	**CC**	**CC**	**TT**	**GG**	*TT*	**AA**	**AA**	**TC**	**AG**	**GG**	**CC**	**GG**	**AG**	**CT**	*AT*	**AA**	**GG**	**AA**	**CC**	**GG**
TT	*CC*	*GT*	*CC*	*TG*	*CC*	*CC*	*CC*	*TT*	*GG*	*TT*	*AA*	*AA*	*CT*	*GA*	*GG*	*CC*	*GG*	*GA*	*TT*	*TT*	*AA*	*GG*	*AA*	*CC*	*GG*
TT	*CC*	*TG*	*CC*	*GT*	*TC*	*CC*	*CC*	*CT*	*GG*	*TT*	**AA**	**AA**	**TC**	**AG**	**GG**	**CC**	**GG**	**GA**	**TT**	**TT**	**AA**	**GG**	**AA**	**CC**	**GG**
TT	*CC*	*TG*	*CC*	*GT*	*CC*	*CC*	*CC*	*TT*	*GG*	*TT*	*AA*	*AA*	*TC*	*AG*	*GG*	*CC*	*GG*	*AG*	*TT*	*TT*	*AA*	*GG*	*AA*	*CC*	*GG*
TT	*CC*	**TT**	**CC**	**GG**	**TT**	**CC**	**CC**	**CC**	*GG*	*TT*	*AA*	**AA**	*TT*	*AA*	*GG*	*CC*	*GG*	*AA*	*TT*	*TT*	*AA*	*AA*	*GG*	*TT*	*AA*
TT	**CG**	**TT**	**CC**	**GG**	**TT**	**CC**	**CC**	**CC**	**GG**	**TT**	**AA**	**AA**	**TT**	**AA**	**GG**	**CC**	**GG**	**AA**	**TT**	**TT**	**AA**	**AA**	**GG**	**TT**	**AA**
CT	*CC*	*TG*	*CC*	*GT*	*CC*	*CC*	**CC**	**TT**	*GG*	*TT*	**AA**	**AA**	**TC**	**AG**	**GG**	**CC**	**GG**	**AG**	**CT**	**AT**	**AA**	**GG**	**AA**	**CC**	**GG**
TT	**CC**	**TG**	**CC**	*GT*	**TC**	*CC*	*CC*	*CT*	*GG*	**TT**	**AA**	**AA**	**TC**	**AG**	**GG**	**CC**	**GG**	**AG**	**TT**	**TT**	**AA**	**AG**	**GA**	**TC**	**AG**
TT	**CC**	**GG**	**CC**	**TT**	**CC**	**CC**	**CC**	**TT**	**GG**	**TT**	**AA**	**AA**	**CC**	**GG**	**GG**	**CC**	**GG**	**GG**	**TT**	**TT**	**AA**	**GG**	**AA**	**CC**	**GG**
TT	*CC*	*TT*	*CC*	*GG*	*TT*	*CC*	*CC*	*CC*	*GG*	*TT*	*AA*	*AA*	*TT*	*AA*	*GG*	*CC*	*GG*	*AA*	*TT*	**TT**	*AA*	*AA*	*GG*	*TT*	*AA*
TT	*CC*	*TT*	*CC*	*GG*	*TT*	*CC*	*CC*	*CC*	*GG*	*TT*	*AA*	*AA*	*TT*	*AA*	*GG*	*CC*	*GG*	*AA*	*TT*	**TT**	*AA*	*AA*	*GG*	*TT*	*AA*
TT	*CC*	*TG*	*CC*	*GT*	*TC*	*CC*	*CC*	*CT*	*GG*	*TT*	**AA**	**AA**	**TC**	**AG**	**GG**	**CC**	**GG**	**AG**	**TT**	*TT*	**AA**	**AG**	**GA**	**TC**	**AG**
TT	*CC*	*TT*	*CG*	*GG*	*TC*	*CC*	*CG*	*CT*	*GG*	*TT*	**AA**	**AC**	**TT**	**AA**	**GC**	**CC**	**GG**	**AA**	**TT**	*TT*	**AA**	**AA**	**GG**	**TT**	**AG**
TT	*CC*	*TT*	*CC*	*GG*	*TT*	*CC*	*CC*	*CC*	*GG*	*TT*	*AA*	**AA**	*TT*	*AA*	*GG*	*CC*	*GG*	*AA*	*TT*	*TT*	*AA*	*AA*	*GG*	*TT*	*AA*
TT	*CC*	**TT**	**CC**	**GG**	*TT*	**CC**	**CC**	**CC**	*GG*	*TT*	**CC**	**AA**	**TT**	**AA**	**GG**	**CC**	**GG**	**AA**	**TT**	**TT**	**AA**	**AA**	**GG**	**TT**	**AA**
TT	*CC*	*TG*	*CC*	**GT**	*TC*	*CC*	**CC**	*CT*	*GG*	*TT*	**AA**	**AA**	**TC**	**AG**	**GG**	**CC**	**GG**	**AG**	**TT**	*TT*	**AA**	**AG**	**GA**	**TC**	**AG**
TC	*CC*	**TT**	**CC**	**GG**	**TC**	**CC**	**CC**	**CT**	**GG**	*TT*	**AC**	**AA**	**TT**	*AA*	*GG*	**CC**	*GA*	*AA*	*TC*	*TA*	*AA*	*AG*	*GA*	*TC*	*AG*
TT	**CC**	**TT**	**CG**	**GG**	**TC**	**CT**	**CG**	**TC**	**GG**	**CT**	*AA*	**CA**	*TT*	*AA*	*GG*	*CC*	**GG**	*AA*	*TT*	**TT**	*AA*	*AA*	*GG*	*TT*	*AA*
TT	**CC**	**GT**	**CC**	**TG**	*CT*	*CC*	**CC**	**TC**	**GG**	*TT*	*AA*	**AA**	*CT*	*GA*	*GG*	*GC*	*GG*	*GA*	*TT*	**TT**	*AA*	*GA*	*AG*	*CT*	*GA*
CT	**CC**	**TT**	**CC**	**GG**	**CT**	**CC**	**CC**	**TC**	**AG**	**TT**	**CA**	**AA**	**TT**	**AA**	**GG**	**CC**	**GG**	**AA**	**CT**	**AT**	**AA**	**GA**	**AG**	**CT**	**GA**
TT	**CC**	**TT**	**CG**	**GG**	**TC**	**CC**	**CG**	**CT**	**GG**	**TT**	**AA**	**AC**	**TT**	**AA**	**GC**	**CC**	**GG**	**AA**	**TT**	**TT**	**AA**	**AA**	**GG**	**TT**	**AG**
TT	**CC**	**TT**	**CC**	**GG**	**TT**	**CC**	**CC**	**CC**	**GG**	**TT**	**AA**	**AA**	**TT**	**AA**	**GG**	**CC**	**GG**	**AA**	**TT**	**TT**	**AA**	**AA**	**GG**	**TT**	**AA**
TC	**CC**	**TT**	**CC**	*GG*	*TC*	*CC*	**CC**	**CT**	**GG**	*TT*	**AC**	**AA**	**TT**	**AA**	**GG**	**CC**	**GA**	**AA**	**TC**	**TA**	**AA**	**AG**	**GA**	**TC**	**AG**
TT	*CC*	*TT*	*CC*	*GG*	*TT*	*CC*	*CC*	*CC*	*GG*	*TT*	**AA**	**AA**	**TT**	**AA**	**GG**	**CC**	**GG**	**AA**	**TT**	**TT**	**AG**	**AA**	**GG**	**TT**	**AA**
TT	*CC*	*GG*	*CC*	*TT*	*CC*	*CC*	*CC*	*TT*	*GG*	*TT*	**AA**	**AA**	**CC**	**GG**	**GG**	**CC**	**GG**	**GG**	**TT**	**TT**	**AA**	**GG**	**AA**	**CC**	**GG**
TT	*CC*	**TG**	**CC**	**GT**	*TC*	**CC**	**CC**	**CT**	*GG*	*TT*	**AA**	**AA**	**TC**	**AG**	**GG**	**CC**	**GG**	**AG**	**TT**	**TT**	**AA**	**AG**	**GA**	**TC**	**AG**
TT	*CC*	*TT*	*CC*	*GG*	*TT*	*CC*	*CC*	*CC*	*GG*	*TT*	**AC**	**AA**	**TT**	**AA**	**GG**	**CG**	**GG**	**AA**	**TT**	**TT**	**AA**	**AA**	**GG**	**TT**	**AA**
TT	*CC*	*GT*	**CC**	**TG**	*CT*	*CC*	**CC**	**TC**	*GG*	*TT*	**AA**	**AA**	**CT**	**GA**	**GG**	**GC**	**GG**	**GA**	**TT**	*TT*	**AA**	**GA**	**AG**	**CT**	**GA**

14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	11	11	11	11	11	11	11	11	11	11	11	11	11	6	6	6	6	6	6
33483986	33484473	33485109	33485635	33485838	33486257	33486312	33486645	33487467	33487668	33489202	33489647	33490432	33490552	33491276	5226507	5226969	5226987	5226994	5226995	5227016	5227059	5227115	5227150	5227262	5227454	5227460	5227639	43845464	43845507	43845566	43845772	43845808	43845961
rs72552326	rs1384372	**New**	rs1531800	rs1769619	**New**	rs12435737	rs61973048	rs2236563	rs2236564	rs992898	**New**	rs72666240	rs900358	rs1680688	rs2187608	rs59374378	**New**	rs11036455	rs72639633	**New**	**New**	rs33988501	rs33993529	rs1061234	rs55972053	**New**	rs28400425	rs833061	rs833062	**New**	rs13207351	rs1570360	**New**
PHD3	PHD3	PHD3	PHD3	PHD3	PHD3	PHD3	PHD3	PHD3	PHD3	PHD3	PHD3	PHD3	PHD3	PHD3	HBG1	HBG1	HBG1	HBG1	HBG1	HBG1	HBG1	HBG1	HBG1	HBG1	HBG1	HBG1	HBG1	VEGF	VEGF	VEGF	VEGF	VEGF	VEGF
C	A	G	C	C	G	G	T	G	A	G	G	A	C	G	G	A	T	A	C	A	C	C	G	G	G	G	C	C	T	C	A	A	G
A	G	A	G	T	T	A	G	A	G	A	A	G	A	A	C	G	C	G	T	G	T	A	T	A	A	A	T	T	C	G	G	G	C
CC	AA	GG	CC	CC	GG	GG	GG	GG	AA	GG	GG	AA	AA	GG	GC	AG	TC	AA	CC	AG	CT	CA	GT	GA	GG	GG	CT	TT	TT	CC	GG	GG	GG
CC	AA	GG	CC	CC	GG	GG	GG	GG	AA	GG	GG	AA	AA	GG	GG	GA	CT	AG	TC	GA	CC	AA	TG	AA	AA	GG	CC	CC	TT	CC	AA	AA	GG
CC	AA	AG	CC	CC	GG	AG	GG	AG	AA	GG	GG	AA	CA	GG	GC	AG	TC	GA	CC	AG	CT	AA	GT	AA	AG	GG	CT	CT	TT	CC	AG	AG	GG
CC	AA	GG	CC	CC	GG	GG	GG	GG	AA	GG	GG	GA	AA	GG	GC	AG	TC	GA	CC	AG	CT	AA	GT	AA	AG	GG	CT	TT	TT	CC	GG	GG	GG
CC	AA	AA	CC	CC	GG	AA	GG	AA	AA	GG	GG	AA	CC	GG	GG	GA	CT	AG	TC	GA	CC	AA	TG	AA	AA	GG	CC	TT	TT	CC	GG	GG	GG
CC	AG	GG	CG	CT	GG	GG	GT	GG	AA	GA	GG	AA	AC	GG	GC	GG	CC	AA	CC	GG	TT	AA	TT	AA	GG	GG	CT	TT	TT	CC	GG	GG	GG
CA	AA	GG	CC	CC	GG	GG	GG	GG	AA	GG	GG	AA	AA	GG	GG	AA	TT	AG	CC	AG	CC	CA	GT	GA	GA	GG	CC	TT	TT	CC	GG	GG	GG
CC	AA	GA	CC	CC	GG	GA	GG	GA	AA	GG	GG	AA	AC	GG	GG	GA	CT	AG	CC	GA	CC	CA	TG	AA	GA	GG	CC	TT	TT	CC	GG	GG	GG
CC	GG	GG	GG	TT	GG	GG	TT	GG	AA	AA	GG	AA	CC	GG	GG	GA	CT	AA	CC	GA	TC	AC	TG	AG	GG	GG	CC	TT	TT	CC	GG	GG	GG
CC	AA	GG	CC	CC	GG	GG	GG	GG	AA	GG	GG	AA	AA	GG	GC	AG	TC	GA	CC	AG	CT	AA	GT	AA	AG	GG	CT	CT	TT	CC	AG	AG	GG
CC	AA	GG	CC	CC	GG	GG	GG	GG	AA	GG	GG	AA	AA	GG	GC	GG	CC	AA	CC	AG	CT	AA	TT	AA	GG	GG	CT	TT	TT	CC	GG	GG	GG
CC	AA	GG	CC	CC	GG	GG	GG	GG	AA	GG	GG	AG	AA	GG	GC	GG	CC	AA	CC	GG	TT	AA	TT	AA	AG	GG	CT	TT	TT	CC	GG	GG	GG
CC	AA	GG	CC	CC	GG	GG	GG	GG	AA	GG	GG	GG	AA	GG	GC	GG	CC	AA	CC	GG	TT	AA	TT	AA	GG	GG	CT	TT	TT	CC	GG	GG	GG
CC	AA	GG	CC	CC	GG	GG	GG	GG	AA	GG	GG	AG	AA	GG	GC	AG	TC	GA	CC	AG	CT	AA	GT	AA	AG	GG	CT	TT	TT	CC	GG	GG	GG
AC	AA	GG	CC	CC	GG	GG	GG	GG	AA	GG	GG	AA	AA	GG	GC	AG	TC	GA	CC	AG	CT	AA	GT	AA	AG	GG	CT	CT	TT	CC	AG	AG	CG
CC	AA	AG	CC	CC	GG	AG	GG	AG	AA	GG	GG	AA	CA	GG	GC	GG	CT	AA	CC	GG	TC	AA	TG	AA	GA	GG	CC	CT	TT	CC	AG	AG	GG
CC	GG	GG	GG	TT	GG	GG	TT	GG	AA	GG	GG	AA	CC	AA	GG	GA	CT	AG	CT	GA	CC	AA	TG	AA	AA	GG	CC	TT	TT	CC	GG	GG	GG
CC	GA	GG	GC	TC	GG	GG	TT	GG	AA	GG	GG	AA	CA	AG	GC	GG	TC	AA	CC	GG	CT	AA	GT	AA	AG	GG	CC	TT	TT	CC	GG	GG	GG
CC	GA	GA	GC	TC	GG	GA	TT	GA	AA	AG	GG	AA	CC	AG	GC	GG	CC	AA	CC	GG	TT	AA	TT	AA	GG	GG	CT	TT	TT	CC	GG	GG	GG
CC	GA	GA	GC	TC	GG	GA	TT	GA	AA	GG	GG	AA	CC	AG	GC	AG	TC	GA	TC	AG	CT	AA	GT	AA	AG	GG	CT	TC	TT	CC	GA	GG	GG
CC	GA	GG	GC	TC	GG	GG	TT	GG	AA	GG	GG	AA	CA	AG	GG	GA	CT	AG	CC	GA	TC	AC	TG	AG	GA	GG	CC	TT	TT	CC	GG	GG	GG
CC	GA	GG	GC	TC	GG	GG	TT	GG	AA	GG	GG	AA	CA	AG	GG	GA	CT	AG	CT	GA	CC	AA	TG	AA	AA	AG	CC	TT	TT	CC	GG	GG	GG
CC	GA	GA	GC	TC	GG	GA	TT	GA	AA	GG	GG	AA	CC	AG	GG	GA	CT	AG	CC	GA	CC	AC	TG	AG	GA	GG	CC	TT	TT	CC	GG	GG	GG
CC	GA	GG	GC	TC	GG	GG	TT	GG	AA	GG	GA	AA	CA	AG	GC	AG	CT	AA	CC	AG	CT	CA	GT	GA	GG	GG	CT	TT	TT	CC	GG	GG	GG
CC	AA	GA	CC	CC	GG	GA	TT	GA	AA	GG	GG	AA	AC	GG	GG	GA	CT	AG	CT	GA	CC	AA	TG	AA	AA	GG	CC	TT	TT	CC	GG	GG	GG
CC	AA	GG	CC	CC	GG	GG	TT	GG	AA	GG	GG	AA	AA	GG	GG	GA	CT	AG	CT	GA	CC	AA	TG	AA	AA	GG	CC	TC	TT	CC	GA	GG	GG
CC	AA	GG	CC	CC	GG	GG	TT	GG	AA	GG	GG	AG	AA	GG	GG	GA	CT	AG	CT	GA	CC	AA	TG	AA	AA	GG	CC	TT	TT	CC	GG	GG	GG
CC	GA	GG	GC	TC	GG	GG	TT	GG	AA	GG	GG	AA	CA	AG	GG	GA	CT	AG	CT	GA	CC	AA	TG	AA	AA	GG	CC	TT	TT	CC	GG	GG	GG
CC	GG	GG	GG	TT	GG	GG	TT	GG	AA	GG	GG	AA	CC	AA	GG	GA	CT	AG	CT	GA	CC	AA	TG	AA	AA	GG	CC	TT	TT	CC	GG	GG	GG
CC	GA	GG	GC	TC	GG	GG	TT	GG	AA	GG	GA	AA	CA	AG	GG	AG	CT	GA	CC	AG	CC	AC	GT	AA	AG	GG	CC	CT	TT	CC	AG	AG	GG
CC	AA	GG	CC	CC	GG	GG	GT	GG	AA	GG	GG	AA	AA	GG	GC	AG	CT	GA	CC	AG	CT	AA	GT	AA	AG	GG	CT	TT	TT	CC	GG	GG	GG
CC	AA	GA	CC	CC	GG	GA	TT	GA	AA	GG	AG	GA	AC	GG	GG	AG	CT	GA	CT	AG	CC	AA	GT	AA	AA	GG	CC	TT	TT	CC	GG	GG	GG
CC	AA	GG	CC	CC	GG	GG	GT	GG	AA	GG	GA	AA	AA	GG	GG	AG	CT	GA	CT	AG	CC	AA	GT	AA	AA	GG	CC	TT	TC	CC	GG	GG	GG
CC	AG	GG	CG	CT	GG	GG	TT	GG	AA	GG	GG	AA	AC	GA	GC	AG	CT	GA	CC	AG	CT	AA	GT	AA	AG	GG	CT	TC	TT	CC	GA	GA	GG
CC	AG	GG	CG	CT	GG	GG	GT	GG	AA	GG	GG	AA	AC	GA	GG	AG	CT	GA	CT	AG	CC	AA	GT	AA	AA	GG	CC	TC	TT	CC	GA	GA	GG
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New	rs2010963	rs25648	rs58159269	rs833067	rs1885657	rs943070	rs1413711	rs3024987	rs4392721	rs3025042	**New**	rs62401162	**New**	rs3025006	rs3025007	rs3025009	rs3025010	rs3025011	rs3025012	rs3025015	rs3025017	rs3025052	rs3025018	**New**	**New**	rs3025020	rs3025021
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43857208	43857502	43857581	43858529	43858534	43858565	43858692	43858741	43859015	43859053	43859337	10158002	10158337	10159956	10160354	10161447	10162014	10162112	10162634	10162952	10163363	10163428	10163798	10163835	10163884	10164052	10164493	10165577	10165661
rs3025022	New	New	rs3025028	rs3025029	rs3025030	New	New	rs3025032	rs3025033	rs3025035	rs10433558	rs779805	rs779807	rs524411	rs1678593	rs779812	rs779813	rs2543458	rs73024548	rs34661876	rs1678607	rs1678606	rs62238314	rs73024555	New	rs9829290	rs2600006	rs2600005
VEGF	VEGF	VEGF	VEGF	VEGF	VEGF	VEGF	VEGF	VEGF	VEGF	VEGF	VHL	VHL	VHL	VHL	VHL	VHL	VHL	VHL	VHL	VHL	VHL	VHL	VHL	VHL	VHL	VHL	VHL	VHL
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rs1703153	rs1642742	**New**	rs1681668	rs1642741	rs458106	rs1136249	rs17610448	rs74049332	rs3752382	**New**	**New**	**New**	rs35152987	rs3813727	**New**	rs3813726
VHL	VHL	VHL	VHL	VHL	VHL	VHL	VHL	HBD	HBD	HBD	HBD	HBD	HBD	HBD	HBD	HBD
C	G	G	C	T	A	T	T	G	G	C	A	A	C	A	C	T
G	A	A	T	C	G	G	G	A	A	T	G	G	A	G	T	C
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GG	AA	GG	TT	CC	GG	GG	TT	**GG**	**GG**	**CC**	**AA**	**AA**	**CC**	**GA**	**CC**	**TT**
GG	**AA**	**GG**	**TT**	**CC**	**GG**	**GG**	**TT**	**GG**	**GG**	**CC**	**AA**	**AA**	**CC**	**GA**	**CC**	**TT**
GG	AA	GG	TT	CC	GG	GG	TT	**GG**	**GG**	**CC**	**AA**	**AA**	**CC**	**GA**	**CC**	**TT**
CC	GG	GG	TT	CC	GG	GG	TT	**GG**	**GG**	CC	**AA**	**AA**	CC	**GA**	**CC**	**TT**
CC	GG	GG	TT	CC	GG	GG	TT	**GG**	**GG**	**CC**	**AA**	**AG**	**CC**	**GA**	**CC**	**TT**
CC	GG	GG	CT	CC	GG	TG	**TT**	**GG**	**GG**	**CC**	**AA**	**AA**	**CA**	**AA**	**CC**	**TT**
CG	GG	GG	TC	CT	GA	GT	TT	**GG**	**GG**	**CC**	**AA**	**AA**	**CC**	**GA**	**CC**	**TT**
CG	**GA**	GG	**CT**	**CC**	GG	**TG**	**TT**	**GG**	**GG**	**CC**	**AA**	**AA**	**CC**	**AA**	**CC**	**TT**
CG	GA	GG	**TT**	**CC**	GG	**GG**	TT	**GG**	**GG**	**CC**	**AA**	**AA**	**CC**	**GG**	**CC**	**TT**
CC	GG	GG	TC	CC	GG	TT	TT	**GG**	**GG**	**CC**	**AA**	**AA**	**CC**	**GA**	**CC**	**TT**
GG	AA	GG	TT	CC	GG	GG	TT	**GG**	**GG**	**CC**	**AA**	**AA**	**CC**	**AG**	**CC**	**TT**
CC	GG	**GG**	**TT**	**CC**	**GG**	**TG**	**TT**	**GG**	**GG**	**CC**	**AA**	**AA**	**CC**	**GG**	**CC**	**TT**
CG	GG	GG	TC	CT	GA	GT	TT	**GG**	**GG**	**CT**	**AA**	**AA**	**CC**	**AG**	**CC**	**TT**
CC	GG	GG	TT	CC	GG	GG	TT	**GG**	**GG**	**CC**	**AA**	**AA**	CC	**GG**	**CC**	**TT**
CC	**GG**	**GG**	TT	CC	GG	TG	**TT**	**GG**	**GG**	**CC**	**AA**	**AA**	**CC**	**AA**	**CC**	**TT**
CG	**GG**	**GG**	CC	CT	GA	TT	TT	**GG**	**GG**	**CC**	**AA**	**AA**	**CC**	**GG**	**CC**	**TT**
GC	AG	GA	TC	CC	GG	GT	TT	**AG**	**GA**	**CC**	**AA**	**AA**	**CC**	**GA**	**CC**	**TT**
GG	AA	GG	TT	CC	GG	GG	TT	**GG**	**GG**	**CC**	**AA**	**AA**	**CC**	**AG**	**CC**	**TT**
GG	AA	GG	TT	CC	GG	GG	**TT**	GG	GG	CC	AA	AA	CC	GG	CC	TT
GG	AA	GG	TT	CC	GG	GG	TT	GG	GG	CC	AA	AA	CC	AG	CC	TT
GG	AA	GG	**TT**	**CC**	GG	GG	**TT**	**GG**	**GG**	**CC**	**AA**	**AA**	**CC**	**AG**	**CC**	**TT**
CC	**GG**	**GG**	**CC**	**CT**	**GG**	**TT**	**TT**	**GG**	**GG**	**CC**	**AA**	**AA**	**CC**	**GG**	**CC**	**TT**
GG	AA	GG	**TT**	**CC**	GG	GG	**TT**	**AA**	**GG**	**CC**	**AA**	**AA**	**CC**	**GG**	**CC**	**TT**
GG	AA	GG	TT	CC	GG	GG	TT	**AG**	**GG**	**CC**	**AA**	**AA**	**CC**	**GA**	**CC**	**TT**
GG	AA	GG	TT	CC	GG	GG	TT	**GG**	**GG**	**CC**	**AA**	**AA**	**CC**	**AG**	**CC**	**TT**
GG	**AA**	**GG**	TT	CC	GG	GG	**TT**	**AG**	**GG**	CC	**AA**	**AA**	CC	**GG**	**CC**	**TT**
CG	GA	GG	CT	CC	GG	TG	**TT**	**GG**	**GG**	**CC**	**AA**	**AA**	**CC**	**AA**	**CC**	**TT**
GG	AA	GG	TT	CC	GG	GG	TT	**AG**	**GG**	**CC**	**AA**	**AA**	**CC**	**AA**	**CC**	**TT**
GC	**AG**	**GG**	TC	CT	GG	GT	**TT**	**AG**	**GG**	**CC**	**AA**	**AA**	**CC**	**GA**	**CC**	**TT**
GG	AA	GG	TT	CC	GG	GT	TT	**AA**	**GG**	**CC**	**AA**	**AA**	**CC**	**GG**	**CC**	**TT**
GG	AA	GG	TT	CC	GG	GG	TT	**GG**	**GG**	**CC**	**AA**	**AA**	**CC**	**AG**	**CC**	**TT**
GC	AG	**GG**	**TC**	**CC**	GG	GT	**TT**	**GG**	**GG**	**CC**	**AA**	**AA**	**CC**	**AG**	**CC**	**TT**
GG	AA	GG	TT	CC	GG	GG	TT	**GG**	**GG**	**CC**	**AA**	**AA**	**CC**	**GG**	**CC**	**TT**
CG	GA	GG	CT	**CC**	GG	**TT**	**GT**	**AA**	**GG**	**CC**	**AA**	**AA**	**CC**	**GG**	**CC**	**TT**
GG	**AA**	**GG**	**TT**	**CC**	**GG**	**GG**	**TT**	**GG**	**GG**	**CC**	**AA**	**AA**	**CC**	**GG**	**CC**	**TT**
GG	AA	GG	TT	CC	GG	GT	TT	**GG**	**GG**	**CC**	**AA**	**AA**	**CC**	**AA**	**CC**	**TT**
CG	GA	GG	CT	TC	GG	TG	TT	**GG**	**GG**	**CC**	**AA**	**AA**	**CC**	**GA**	**CC**	**TT**
CG	**GA**	**GG**	CT	CC	GG	TG	**TT**	**GG**	**GG**	**CC**	**AA**	**AA**	**CC**	**GA**	**CC**	**TT**
GG	**AA**	GG	TT	CC	GG	GG	**TT**	**GG**	**GG**	**CC**	**AA**	**AA**	**CC**	**GA**	**CC**	**TT**
CG	**GA**	**GG**	CT	CC	GG	TG	**GT**	**GG**	**GG**	**CC**	**AA**	**AA**	**CC**	**GG**	**CC**	**TT**
GG	**AA**	**GG**	TT	CC	GG	GG	**TT**	**GG**	**GG**	**CC**	**AA**	**AA**	**CC**	**AA**	**CC**	**TT**
GG	AA	GG	TT	CC	GG	**GG**	**TT**	**GG**	**GG**	**CC**	**AA**	**AA**	**CC**	**AA**	**CC**	**TT**
CG	GA	GG	CT	CC	GG	TG	TT	**GG**	**GG**	**CC**	**AA**	**AA**	**CC**	**GG**	**CC**	**TT**
CG	**GA**	GG	**CT**	**CC**	GG	**TG**	**TT**	**GG**	**GG**	**CC**	**AA**	**AA**	**CC**	**GG**	**CC**	**TT**
CC	**GG**	**GG**	**CC**	**TT**	GG	**TT**	**TT**	**GG**	**GG**	**CC**	**AA**	**AA**	**CC**	**AA**	**CC**	**TT**
GG	**AA**	**GG**	**TT**	**CC**	**GG**	**GG**	**TT**	**GG**	**GG**	**CC**	**AA**	**AA**	**CC**	**GA**	**CC**	**TT**
GG	**AA**	**GG**	**TT**	**CC**	**GG**	**GG**	**TT**	**GG**	**GG**	**CC**	**AA**	**AA**	**CC**	**AA**	**CC**	**TT**
CC	**GG**	**GG**	CC	CC	**GG**	TT	**GT**	**GG**	**GG**	**CC**	**AA**	**AA**	**CC**	**GG**	**CC**	**TT**
CC	GG	GG	CC	TT	GG	TT	TT	**GG**	**GG**	**CC**	**AA**	**AA**	**CC**	**GA**	**CC**	**TT**
CG	GA	GG	CT	TC	GG	TG	TT	**GG**	GG	CC	AA	AA	CC	GA	CC	TT
GG	AA	GG	TT	CC	GG	GG	TT	**GG**	**GG**	**CC**	**AG**	**AA**	**CC**	**AG**	**CC**	**TT**
GG	AA	GG	TT	CC	GG	GG	TT	**GG**	**GG**	**CC**	**AA**	**AA**	**CC**	**GA**	**CC**	**TT**
CG	**GA**	**GG**	CT	CC	GG	TG	**GT**	**GG**	**GG**	**CC**	**AA**	**AA**	**CC**	**GA**	**CC**	**TT**
GC	AG	GG	TC	CC	GG	GT	TT	**GG**	**GG**	**CC**	**AA**	**AA**	**CC**	**GA**	**CC**	**TT**
CG	GA	GG	CT	CC	GG	TG	TT	**GG**	**GG**	**CC**	**AA**	**AA**	**CC**	**GA**	**CC**	**TT**
CC	**GG**	**GG**	**CC**	CC	GG	TT	**TT**	**GG**	**GG**	**CC**	**AA**	**AA**	**CC**	**AA**	**CC**	**TT**
GG	AA	GG	TT	CC	GG	GG	TT	**GG**	**GG**	**CC**	**AA**	**AA**	**CC**	**GA**	**CC**	**TT**
GG	AA	GG	TT	CC	GG	GG	TT	**GA**	**GG**	**CC**	**AA**	**AA**	**CC**	**AG**	**CC**	**TT**
GG	AA	GG	TT	CC	GG	GG	TT	**GG**	**GG**	**CC**	**AA**	**AA**	**CC**	**GA**	**CC**	**TT**
GG	AA	GG	TT	CC	GG	GG	TT	**GA**	**GG**	**CC**	**AA**	**AA**	**CC**	**GG**	**CC**	**TT**
GG	AA	GG	TT	CC	GG	GG	TT	**AA**	**GG**	**CC**	**AA**	**AA**	**CC**	**GG**	**CC**	**TT**
GG	AA	GG	TT	CC	GG	GG	TT	**GG**	**GG**	**CC**	**AA**	**AA**	**CC**	**GG**	**CC**	**TT**
GG	AA	GG	TT	CC	GG	GG	TT	**GG**	**GG**	**CC**	**AA**	**AA**	**CC**	**GA**	**CC**	**CT**
GG	AA	GG	TT	CC	GG	GG	TT	**GG**	**GG**	**CC**	**AA**	**AA**	**CC**	**GA**	**CC**	**TT**
GG	AA	GG	TT	CC	GG	GG	**TT**	**GG**	**GG**	**CC**	**AA**	**AA**	**CC**	**GA**	**CC**	**TT**
GG	AA	GG	TT	CC	GG	GG	TT	**GA**	**GG**	**CC**	**AA**	**AA**	**CC**	**AG**	**CC**	**TT**
GG	AA	GG	TT	CC	GG	GG	TT	**AA**	**GG**	**CC**	**AA**	**AA**	**CC**	**GG**	**CC**	**TT**
GG	AA	GG	TT	CC	GG	GG	TT	**GG**	**GG**	**CC**	**AA**	**AA**	**CC**	**GA**	**CC**	**TT**
GG	AA	GG	TT	CC	GG	GG	TT	**GG**	**GG**	**CC**	**AA**	**AA**	**CC**	**AA**	**CC**	**TT**
GG	AA	GG	TT	CC	GG	GG	TT	**GG**	**GG**	**CC**	**AA**	**AA**	**CC**	**GG**	**CC**	**TT**
GG	**AA**	**GG**	**TT**	**CC**	**GG**	**GG**	**TT**	**AA**	**GG**	**CC**	**AA**	**AA**	**CC**	**GG**	**CC**	**TT**
GG	AA	GG	TT	CC	GG	GG	TT	**GG**	**GG**	**CC**	**AA**	**AA**	**CC**	**GA**	**TC**	**TT**
GG	AA	GG	TT	CC	GG	GG	TT	**GG**	**GG**	**CC**	**AA**	**AA**	**CC**	**GA**	**CC**	**TT**
GG	AA	GG	TT	CC	GG	GG	**TT**	**GG**	**GG**	**CC**	**AA**	**AA**	**CC**	**GA**	**CC**	**TT**
GG	AA	GG	TT	CC	GG	GG	TT	**GA**	**GA**	**CC**	**AA**	**AA**	**CC**	**GG**	**CC**	**TT**
GG	AA	GG	TT	CC	GG	GG	TT	**GG**	**GG**	**CC**	**AA**	**AA**	**CC**	**GA**	**CC**	**TT**