

**Table S6. Oligonucleotides used for recombinant detection by allele-specific hybridisation at hotspots F and K**

**Hotspot F**

rs number	chr12(hg19)	Allele-Specific Oligonucleotides		
		allele	probe name	sequence 5'-3'
rs11063787	5748205	G	F4.9G	AGCTTC TGGTATGCTCTT
"	"	A	F4.9A	AGCTTC TAGTATGCTCTT
rs11063788	5748248	T	F5.0T	GAGAAA ACTCCACAGAAA
"	"	G	F5.0G	GAGAAA ACGCCACAGAAA
rs11063789	5748324	A	F5.0aA	CTTCCAGAAAAGGGAAG
"	"	G	F5.0aG	CTTCCAGAAAAGGGAAG
rs1558780	5748391	C	F5.1C	CATGGC ACAYGATAGTAG
"	"	T	F5.1T	CATGGC ATAYGATAGTAG
rs10849308	5748656	T	F5.4T2	CGTGCT GAAGGTACTACT
"	"	C	F5.4C2	CGTGCT GGAGGTACTACT
rs365211	5748844	T	F5.5T2	CCACTCC ACTGTCCCC
"	"	A	F5.5A2	CCACTCC CTCTGTCCCC
rs365131	5748918	C	F5.6aC	CCTCAGG CAGTGGGAAGC
"	"	A	F5.6aA	CCTCAGG AGATGGGAAGC
rs393861	5749047	G	F5.8G	GATGAG AGTCCAGGCTGT
"	"	A	F5.8A	GATGAGA ATCCAGGCTGT
rs11063791	5749168	T	F5.9T	TCGCCT CAGCAATTCCC
"	"	C	F5.9C	TCGCCT CCGCAATTCCC
rs386440	5749281	A	F6.0A2	CTTGTG TTAGAAACCAGC
"	"	T	F6.0T2	CTTGTG TAAGAAACCAGC
rs10492181	5749363	A	F6.1A2	TGCCAAT CTACCGAGTCA
"	"	G	F6.1G2	TGCCAAT CCACCGAGTCA
rs9795821	5749807	T	F6.5T	TCACTGG TCATCAGAGAA
"	"	C	F6.5C	TCACTGG CCATCAGAGAA
rs384401	5749841	G	F6.6G2	GGGATGG TACCTCATTGT
"	"	A	F6.6A2	GGGATGG TATCTCATTGT
rs11063792	5749932	A	F6.6bA	CTTTTAC ACTGTTGGTGG
"	"	G	F6.6bG	CTTTTAC GCTGTTGGTGG
rs111733683	5750109	T	F6.8T	GCAGCA CTATTACAACA
"	"	C	F6.8C	GCAGCA CCATTACAACA
rs374793	5750357	A	F7.1A	TGGACAC AGGGCGAGGAA
"	"	G	F7.1G	TGGACAC GGGGCGAGGAA
rs417672	5750791	T	F7.5T2	GAATGGG GAGAGCCCC
"	"	C	F7.5C2	GAATGGG GGGAGCCCC
rs1558506	5750896	G	F7.6G	TCAATTAG TTATTGGTTC
"	"	C	F7.6C	TCAATTAC TTATTGGTTC
rs2110166	5751342	C	F8.1C	CAATTCT CTTTTCTGTCT
"	"	T	F8.1T	CAATTCT TTTTTCTGTCT
rs12811402	5752212	T	F8.9T	GTGAACA TGCAGAAAAAT
"	"	C	F8.9C	GTGAACA CAGAAAAAT

## Hotspot K

rs number	chr8(hg19)	Allele-Specific Oligonucleotides		
		allele	probe name	sequence 5'-3'
rs6999442	94300209	T	K4.9T	GTTCAATACATTACTCTG
"	"	C	K4.9C	GTTCAATGCATTACTCTG
rs35234504	94300343	G	K5.1G	TCTGGCTCATGGGTCACC
"	"	A	K5.1A	TCTGGCTTATGGGTCACC
rs2034306	94301420	T	K6.2T	AAGACATTTTGGACTTCT
"	"	C	K6.2C	AAGACATCTTGGACTTCT
rs7005566	94301642	T	K6.4T	GTGCCAGACACGTGGTAA
"	"	C	K6.4C	GTGCCAGGCACGTGGTAA
rs56791026	94301906	C	K6.6C	CTAAAAGCCTTACCAGAT
"	"	T	K6.6T	CTAAAAGTCTTACCAGAT
rs1374634	94302598	G	K7.3G	ACCAGGCGGGACACCGAC
"	"	A	K7.3A	ACCAGGCAGGACACCGAC
rs1374633	94302742	C	K7.4C	GAGAGGGCACCCCTGCCTA
"	"	T	K7.4T	GAGAGGGTACCCTGCCTA
rs1374632	94302766	G	K7.5G	TGTGATGCCCTCCCTGAT
"	"	C	K7.5C	TGTGATGGCCTCCCTGAT
rs7814351	94302818	T	K7.5aT	TCATGGTTTTTCACCTAAA
"	"	A	K7.5aA	TCATGGTATTCACCTAAA
rs6471366	94302844	T	K7.6T	TAACCTTGC AATAGTCC
"	"	C	K7.6C	TAACCTTCGCAATAGTCC
rs10716160	94302948	+	K7.7 +	AACCTCTAGCCTCCTGGG
"	"	-	K7.7 -	AACCTCTGCCTCCTGGGT
rs10088843	94303110	C	K7.8aC	ATTCACCCGCCTTGGCCT
"	"	T	K7.8aT	ATTCACCTGCCTTGGCCT
rs6471367	94303153	T	K7.9T	GAGCCACTGTRCCCGGCC
"	"	C	K7.9C	GAGCCACCGTRCCCGGCC
rs9918898	94304095	T	K8.8T	CCAACCTTTGTGAGCCTC
"	"	C	K8.8C	CCAACCTTCTGTGAGCCTC
rs1550883	94305178	A	K9.9A	TTCATGCGTCTCAGTCAC
"	"	G	K9.9G	TTCATGCATCTCAGTCAC
rs1550882	94305482	A	K10.2A	TGGGTCAATTTACAGAT
"	"	G	K10.2G	TGGGTCAAGTTTACAGAT
rs7829351	94306209	A	K10.9A	GTGTGTCAGTTTTAAAAAT
"	"	G	K10.9G	GTGTGTCGGTTTTAAAAAT