

Bisulfite Sequencing_COBRA_MS-Pyroseq	SNP ID or Infinium cg ID	Change in DS vs. normal PBL	Differentially methylated CpG sites	CpG sites Pyroseq	CpG sites	Temp	COBRA Enzyme(s)	Upstream	Downstream	Converted	size (bp)
FAM62C	rs1720830	GOM	CpG pos #1-10	10	14	57→48	BstUI	TTGATTATAAAGGGTTAGAAATTATGG CTGATCATTAAAGGGTTAGAAACCATGG	ATAAACTTAAACCTAACCCCAAC GTAAGCTTGGACTAGCCCCAGC	CONVERTED UNCONVERTED	290
TCF7 upstream region	rs756699	LOM	CpG pos #1-8	8	8	57→48	HpyCH4IV	TTTTGTTTTGAGAGGATGTTTTATG TTTTGCCCCTGAGAGGATGCCATG	TTCTCATAACCTAAACCCACTTAATC TTCTCATGGCCTGAGCCCACTTAATC	CONVERTED UNCONVERTED	330
TCF7 CGI	NA	GOM	CpG pos #1-17	17	17	60→51	NA	AGGGGAGTTGTTGTTGATTGTAT AGGGGAGCTGCTGTTGACTGCAT	AACCCCTAACCTAACCCCTCTAAC GACCCCTGGCCTGACTAACCCCTTAAC	CONVERTED UNCONVERTED	216
TMEM131 index	rs6760008	LOM	CpG pos #9-21	13	21	60→51	BstUI/HpyCH4IV	GGTAGGAAATGAGAGGGTAGTTAT GGCAGGAAATGCAGAGGGCAGCCAC	CCTAACCCACACAAACAAATACAAA CCTGACCACACAGCAGGATGCAGG	CONVERTED UNCONVERTED	339
TMEM131 CGI	NA	none	NA		34	57→48	NA	GAAGGAGGGAGGTAGTTTAGG GAAGGAGGGAGGAGGCCAGGTC	TCAAAAAACACCATCAAAAACTAA TCAAGGAAGCACCATCAAGAACTGAG	CONVERTED UNCONVERTED	360
SH3BP2 CGI	cg08822227	GOM	CpG pos #8-17	17	17	56→47	BstUI	TAGATTTTTGGTTTTTTGGAGAATT CAGACCCTGCCTCTTGAGAATC	ACACCTACCAATCCACACAACCTA ACACCTGCCAGTCCACACAGCTTG	CONVERTED UNCONVERTED	258
EIF4E	cg14972143	GOM	CpG pos #3-16	14	16	57→48	HpyCH4IV	GTTTAGTTAATGTTGGTGGTTATT GCTCAGCTAATGCTGGTGGTCATT	CTAACATCTAAACTTAAACTATTTC CTGGCATCTGGACTTAGGCTATTTC	CONVERTED UNCONVERTED	246
SUMO3	cg21053323	GOM	CpG pos #7-13	11	11	N/A	N/A	TTTATAGGGGTTAGGTTTTTAGAG CTCACAGGGGCCAGGCCCTCAGAG	TCTCCTAAATCATTACTAATTAATAATC TCTCTGAGTCATTGCTGGTTGGGGTC	CONVERTED UNCONVERTED	149
PLD6/LOC201164	cg05590257	GOM	CpG pos #1-16	16	22	57→48	BstUI	TTTTTTTTAAGTGTATTTTTTG CCTCCCCTAAGTGTCCACCTTTG	CCAACCTAAATCTCTACCTATTC CCAGCCTGGATCTCTGCCTGTTC	CONVERTED UNCONVERTED	235
CD3Z	cg09554443	LOM	CpG pos #9-11	3	11	63→54	BstUI/Hpy188III	GGGTAGGATTTGAAGGAGATTTTAG GGGCAGGATTTGAAGGAGACCCAG	CAATCTCCACTTCTAAAAAATA CAGTCTCCACTTCTGGGGAGGTA	CONVERTED UNCONVERTED	300
CPT1B	cg00983520	GOM	CpG pos #1-10	10	9	60→51	NA	AGGAATTTGATATTTATTTTAAAT AGGAACCTGACACCTACTCCAAT	ACTCCAAACCTTTAAACACCT GCTCCAGACCTTTGAGCAACCT	CONVERTED UNCONVERTED	139
NOD2	cg26954174	LOM	N/A	N/A	6	61→52	NA	GATGTAGTTGTTGGGAGGATAGAGT GATGTAGCTGCTGGGAGGACAGAC	CCCCACTAAAAACATAAACACATT CCCCACTGGGGACATGAGACACATT	CONVERTED UNCONVERTED	207
<b>Q-PCR</b>	<b>Exons</b>	<b>Primer Set</b>						<b>Upstream</b>	<b>Downstream</b>		
TMEM131 long isoform	Ex 19-20	F5/R5						CAATAATTTCAAGCCTGCCAGA	CGGTATAGCCTGAAGCTAATGTTACCG		76
TMEM131 short isoform	5'UTR to Ex3	F3/R3						GACATGAGGCTGAGCGATG	GAACGAATTGAGGGGAGTGA		422
TCF7	Ex 2-4 long isoforms	F2/R2 (KK)						TACTCGCCTTCAATCTGCT	TGCTGAGGTCAGGGAGTAG		241
NOD2	Ex 3-4	F4/R4						GCCTCGCCTTGAAGCTGC	CGCTTCTCATCAGGTACTGAGGAAGCG		97
NPDC1	Ex 7-8	F2/R2						CGTTGTACCCTACCAGCACCACG	GCTCCTTGGGTGGCTCTTTATG		68
HPRT	ex 4-6	F3/R3						GACCAAGTCAACAGGGGACAT	CCTGACCAAGGAAAGCAAAG		132