

Additional file 2

462 functional DMPs

probe	CHR	MAPINFO	Gene Name	UCSC_Ref Gene_Group_Anovar
cg13503915	19	52134227	<i>SIGLEC5</i>	upstream
cg14011486	1	26737247	<i>LIN28</i>	upstream
cg15577010	2	232395273	<i>NMUR1</i>	upstream
cg06571939	22	50701233	<i>MAPK12</i>	upstream;downstream
cg19925512	22	32750881	<i>RFPL3</i>	UTR5
cg16658020	17	39203641	<i>KRTAP2-1</i>	upstream
cg18188350	7	57207975	<i>ZNF479</i>	upstream
cg18856296	11	60609242	<i>CCDC86</i>	upstream
cg16333262	14	76617755	<i>C14orf118</i>	upstream
cg16166011	2	70996021	<i>ADD2</i>	upstream
cg18758796	5	131593413	<i>PDLIM4</i>	UTR5
cg04927537	17	76976091	<i>LGALS3BP</i>	upstream
cg26086917	16	89679694	<i>DPEP1</i>	upstream
cg19477247	3	113955994	<i>ZNF80</i>	UTR5
cg17707165	15	98103935	<i>LOC101927310</i>	upstream
cg00152799	18	54306261	<i>TXNL1</i>	upstream
cg07378309	3	121312164	<i>FBXO40</i>	upstream
cg20512303	5	131592959	<i>PDLIM4</i>	upstream
cg10454162	3	113955940	<i>ZNF80</i>	UTR5
cg03981535	1	201951234	<i>RNPEP</i>	upstream
cg02518129	21	27946082	<i>CYYR1</i>	upstream
cg03378815	18	28623390	<i>DSC3</i>	upstream
cg12564285	5	131593104	<i>PDLIM4</i>	upstream
cg11945372	22	18507747	<i>MICAL3</i>	upstream
cg02571142	8	42234803	<i>DKK4</i>	upstream
cg16340422	17	17110120	<i>PLD6</i>	upstream
cg08691338	16	84732980	<i>USP10</i>	upstream
cg16288713	13	79234144	<i>RNF219</i>	upstream
cg25983544	18	23713626	<i>PSMA8</i>	upstream
cg19871388	20	50419082	<i>SALL4</i>	upstream
cg01312482	5	178451176	<i>ZNF879</i>	UTR5
cg17344060	1	94345166	<i>DNTTIP2</i>	upstream
cg09190290	16	71927972	<i>IST1</i>	upstream
cg00191629	13	110439004	<i>IRS2</i>	upstream
cg00162304	11	60282281	<i>MS4A13</i>	upstream
cg27228211	7	27778939	<i>TAX1BP1</i>	upstream

cg08546933	7	79763240	<i>GNAIL</i>	upstream
cg18634211	1	26737262	<i>LIN28</i>	UTR5
cg09547190	9	95857577	<i>C9orf89</i>	upstream
cg08458252	13	46961871	<i>C13orf18</i>	UTR5
cg11008866	3	121902442	<i>CASR</i>	upstream
cg23940614	15	84115479	<i>SH3GL3</i>	upstream
cg19727801	5	140619446	<i>PCDHB19P</i>	upstream
cg25108548	12	13196954	<i>KIAA1467</i>	upstream
cg16673296	20	30017604	<i>DEFB122</i>	upstream
cg18951352	6	149806077	<i>ZC3H12D</i>	UTR5
cg26075090	4	25865375	<i>SEL1L3</i>	upstream
cg24027965	2	149894786	<i>LYPD6B</i>	upstream
cg18016034	10	61900573	<i>ANK3</i>	UTR5
cg25178683	17	76976267	<i>LGALS3BP</i>	upstream
cg05938007	2	27994018	<i>MRPL33</i>	upstream
cg03829839	12	58146821	<i>CDK4</i>	upstream
cg07150062	14	104552032	<i>ASPG</i>	UTR5
cg24624629	17	39203621	<i>KRTAP2-1</i>	upstream
cg02415057	12	75784884	<i>GLIPR1L2</i>	UTR5
cg07348641	13	25746495	<i>FAM123A</i>	upstream;downstream
cg23312397	14	96670738	<i>BDKRB2(</i>	upstream
cg21117330	5	140772286	<i>PCDHGA4</i>	UTR5
cg00878163	17	56565644	<i>HSF5</i>	UTR5
cg11595575	5	140235510	<i>PCDHA6</i>	UTR5
cg15951740	12	46660255	<i>SLC38A1</i>	UTR5
cg02726377	4	108745279	<i>SGMS2</i>	upstream
cg16672337	19	22605111	<i>ZNF98</i>	UTR5
cg12351126	12	75784864	<i>GLIPR1L2</i>	UTR5
cg17885404	8	67976175	<i>CSPP1</i>	upstream
cg04862679	11	59578540	<i>MRPL16</i>	upstream
cg03945604	19	40724609	<i>TTC9B</i>	upstream
cg14338032	20	2081880	<i>STK35</i>	upstream
cg03350299	2	21266960	<i>APOB</i>	upstream
cg10982664	5	78407418	<i>BHMT</i>	upstream
cg08198187	12	31882596	<i>AMN1</i>	upstream
cg22084258	11	120435389	<i>GRIK4</i>	UTR5
cg16134349	10	61900552	<i>ANK3</i>	UTR5
cg26023019	21	31311859	<i>GRIK1</i>	UTR5
cg03389653	16	49316197	<i>CBLN1</i>	upstream
cg00108944	12	75784855	<i>GLIPR1L2</i>	UTR5
cg25154586	4	175444627	<i>HPGD</i>	upstream
cg07301105	2	232379665	<i>C2orf52</i>	upstream

cg08834401	2	71017846	<i>FIGLA</i>	upstream
cg03578013	3	24145718	<i>LOC152024</i>	upstream
cg23062385	6	143928702	<i>PHACTR2</i>	upstream
cg14663451	8	32504919	<i>NRG1</i>	UTR5
cg15834814	19	9609704	<i>ZNF560</i>	upstream
cg06743973	16	28985149	<i>SPNS1</i>	upstream
cg06484167	6	27832180	<i>HIST1H2AL</i>	upstream
cg07814122	12	13196942	<i>KIAA1467</i>	upstream
cg08168630	11	4390117	<i>OR52B4</i>	upstream
cg14015441	8	105479318	<i>DPYS</i>	upstream
cg04172000	19	16771088	<i>TMEM38A</i>	upstream
cg02320481	13	110438578	<i>IRS2</i>	UTR5
cg10368049	7	94023796	<i>COL1A2</i>	upstream
cg00711090	19	57018614	<i>ZNF471</i>	upstream
cg19836999	16	68270498	<i>ESRP2</i>	upstream
cg02986414	12	101188350	<i>ANO4</i>	upstream
cg21522026	5	140602959	<i>PCDHB14</i>	UTR5
cg09704056	1	98516154	<i>MIR137HG</i>	upstream
cg21215899	5	121414425	<i>LOX</i>	upstream
cg13922962	6	169654390	<i>THBS2</i>	upstream
cg14533206	13	110439006	<i>IRS2</i>	upstream
cg20457147	14	61787823	<i>PRKCH</i>	upstream
cg25162921	9	21801897	<i>MTAP</i>	upstream
cg10175387	9	138853745	<i>UBAC1</i>	upstream
cg07630707	12	132194958	<i>SFSWAP</i>	upstream
cg06870925	19	58962383	<i>ZNF324B</i>	upstream
cg07325776	8	91095455	<i>CALB1</i>	upstream
cg17090409	11	74443005	<i>CHRD12</i>	upstream
cg22487198	13	48611020	<i>NUDT15</i>	upstream
cg02605776	1	111507160	<i>C1orf103</i>	upstream
cg03764335	1	248568657	<i>OR2T1</i>	upstream
cg17110239	3	62860721	<i>CADPS</i>	UTR5
cg23839761	9	96108838	<i>C9orf129</i>	upstream
cg04579398	19	36485360	<i>SDHAF1</i>	upstream
cg23140290	13	26797279	<i>RNF6</i>	upstream
cg12302402	11	18230629	<i>LOC494141</i>	upstream
cg06961147	2	159824263	<i>TANCI</i>	upstream
cg04996219	5	11904110	<i>CTNND2</i>	UTR5
cg21068090	4	52917303	<i>SPATA18</i>	upstream
cg06808011	16	3286070	<i>ZNF200</i>	upstream
cg02866106	7	136553110	<i>CHRM2</i>	upstream
cg06259125	6	168720679	<i>DACT2</i>	upstream

cg06961429	14	101493361	<i>MIR329-2</i>	upstream;downstream
cg03612569	15	48483440	<i>CTXN2</i>	upstream
cg00668034	1	28098848	<i>STX12</i>	upstream
cg07909285	8	106330885	<i>ZFPM2</i>	upstream
cg17501395	6	149806331	<i>ZC3H12D</i>	upstream
cg13891189	9	116164001	<i>ALAD</i>	upstream
cg16878332	2	84743573	<i>DNAH6</i>	upstream
cg19507068	7	79764176	<i>GNAI1</i>	UTR5
cg20480368	3	174576768	<i>NAALADL2</i>	upstream
cg03000419	11	82997694	<i>CCDC90B</i>	upstream
cg02961664	3	81811363	<i>GBE1</i>	upstream
cg15235893	2	235406363	<i>ARL4C</i>	upstream
cg24197374	5	140800686	<i>PCDHGA11</i>	UTR5
cg18242139	1	50574837	<i>ELAVL4</i>	UTR5
cg21337580	8	11141424	<i>MTMR9</i>	upstream
cg00510507	10	61900413	<i>ANK3</i>	UTR5
cg21160842	11	32112091	<i>RCN1</i>	upstream
cg22033530	19	55692003	<i>SYT5</i>	upstream;downstream
cg10761315	14	104552034	<i>ASPG</i>	UTR5
cg04518342	5	131593106	<i>PDLIM4</i>	upstream
cg07168818	9	135285198	<i>C9orf171</i>	upstream
cg22550299	6	169654842	<i>THBS2</i>	upstream
cg03084288	19	4277656	<i>SHD</i>	upstream
cg18663063	5	68710907	<i>MARVELD2</i>	upstream;downstream
cg02233750	22	43539658	<i>MCAT</i>	upstream
cg18009000	10	71811927	<i>H2AFY2</i>	upstream
cg23358625	19	23945641	<i>RPSAP58</i>	upstream
cg16648019	18	53253316	<i>TCF4</i>	UTR5
cg24018665	12	108522859	<i>WSCD2</i>	upstream
cg26963093	2	88469730	<i>THNSL2</i>	upstream
cg03033508	13	26797157	<i>RNF6</i>	upstream
cg20106459	19	55866087	<i>COX6B2</i>	UTR5
cg06916670	1	202829945	<i>LOC148709</i>	upstream
cg25010500	5	140619586	<i>PCDHB19P</i>	upstream
cg06584561	13	31456352	<i>LINC00545</i>	upstream;downstream
cg01216565	17	80607047	<i>WDR45B</i>	upstream
cg06209491	1	40138402	<i>NT5C1A</i>	upstream
cg08057103	13	110438916	<i>IRS2</i>	upstream
cg08357436	17	56565641	<i>HSF5</i>	UTR5
cg21964800	11	63272764	<i>LGALS12</i>	upstream
cg01020079	12	51236704	<i>TMPRSS12</i>	UTR5
cg10767045	10	89264128	<i>MINPP1</i>	upstream;downstream

cg13002243	14	27291831	<i>LOC101927062</i>	upstream
cg06960024	10	27150529	<i>ABII</i>	upstream
cg20104432	7	138817981	<i>TTC26</i>	upstream
cg12463140	19	17665823	<i>COLGALT1</i>	upstream
cg07688291	7	123431142	<i>RNU6-2</i>	upstream
cg11630226	8	143781816	<i>LY6K</i>	UTR5
cg22034203	1	31231421	<i>LAPTM5</i>	upstream
cg11235829	1	44439777	<i>ATP6V0B</i>	upstream;downstream
cg06483432	4	55523233	<i>KIT</i>	upstream
cg14387743	6	133056278	<i>VNN3</i>	upstream
cg14630685	12	57630931	<i>NDUFA4L2</i>	UTR5
cg03698781	1	35135423	<i>MIR552</i>	upstream
cg13405783	8	54164296	<i>OPRK1</i>	upstream
cg01892167	11	4208212	<i>LOC100506082</i>	upstream
cg16229875	14	23589066	<i>CEBPE</i>	upstream
cg26803268	10	18549536	<i>CACNB2</i>	UTR5
cg07163456	3	192636424	<i>C3orf59</i>	upstream
cg15054400	1	94345486	<i>DNTTIP2</i>	upstream
cg22490229	1	248342534	<i>OR2M2</i>	upstream
cg03760072	3	133502685	<i>SRPRB</i>	upstream
cg14013591	20	57874597	<i>EDN3</i>	upstream
cg15564579	3	119298083	<i>ADPRH</i>	upstream
cg00068810	4	75857963	<i>PARM1</i>	upstream
cg18197594	10	94334836	<i>IDE</i>	upstream
cg21402921	15	27112305	<i>GABRA5</i>	UTR5
cg16928454	4	55523124	<i>KIT</i>	upstream
cg08939787	2	238767226	<i>RAMP1</i>	upstream
cg19408180	21	43809237	<i>TMPRSS3</i>	UTR5
cg22439241	21	30366036	<i>RNF160</i>	upstream
cg12896271	4	119512856	<i>LOC729218</i>	upstream
cg03486287	9	99145998	<i>SLC35D2</i>	upstream
cg19909036	15	90294776	<i>MESPI</i>	upstream
cg18950481	1	246952889	<i>LOC149134</i>	upstream
cg23289456	20	749620	<i>C20orf54</i>	upstream
cg16706260	12	27849370	<i>REP15</i>	upstream;downstream
cg18444875	8	107460168	<i>OXR1</i>	UTR5
cg04602992	17	62009628	<i>CD79B</i>	UTR5
cg14558114	2	88469736	<i>THNSL2</i>	upstream
cg05224280	17	65372550	<i>PITPNC1</i>	upstream
cg11916930	14	50320808	<i>NEMF</i>	upstream
cg14993491	1	55504971	<i>PCSK9</i>	upstream
cg19154323	2	208890802	<i>PLEKHM3</i>	upstream

cg18715057	2	88469819	<i>THNSL2</i>	UTR5
cg00523161	2	11888753	<i>LPIN1</i>	UTR5
cg05008496	12	26348011	<i>SSPN</i>	upstream
cg00919013	8	12613847	<i>LONRF1</i>	upstream
cg12819826	19	10216676	<i>PPAN</i>	upstream
cg18648167	19	51320867	<i>MGC45922</i>	upstream
cg11556592	17	79283300	<i>C17orf55</i>	upstream
cg22930588	3	62860710	<i>CADPS</i>	UTR5
cg25325723	20	6104886	<i>FERMT1</i>	upstream
cg16391973	5	158689566	<i>UBLCP1</i>	upstream
cg00592995	20	56196368	<i>ZBP1</i>	upstream
cg18909295	5	175223293	<i>CPLX2</i>	upstream
cg11245806	2	20252225	<i>LAPTM4A</i>	upstream
cg09655253	6	39895417	<i>MOCSI</i>	UTR5
cg22181201	11	76571587	<i>ACER3</i>	upstream
cg16049600	5	140579298	<i>PCDHB11</i>	upstream
cg04316580	6	53530944	<i>KLHL31</i>	upstream
cg17695841	11	45825485	<i>SLC35C1</i>	upstream
cg09734798	4	68423941	<i>STAP1</i>	upstream
cg06436854	16	89043527	<i>CBFA2T3</i>	upstream
cg24586758	5	140480200	<i>PCDHB3</i>	UTR5
cg10527010	3	10857795	<i>SLC6A11</i>	upstream
cg21235373	5	37371915	<i>NUP155</i>	upstream
cg01906015	8	63161579	<i>NKAIN3</i>	UTR5
cg23128634	5	170288788	<i>RANBP17</i>	upstream
cg25744767	7	79764178	<i>GNAI1</i>	UTR5
cg15306126	12	46663900	<i>SLC38A1</i>	upstream
cg27146131	6	88182107	<i>SLC35A1</i>	upstream
cg16589911	1	161184489	<i>FCER1G</i>	upstream;downstream
cg01819759	13	79234251	<i>RNF219</i>	upstream
cg17496659	1	3568245	<i>TP73</i>	upstream
cg09648933	17	62009835	<i>CD79B</i>	upstream
cg01376079	11	67070233	<i>SSH3</i>	upstream;downstream
cg20626896	12	51442762	<i>LETMD1</i>	UTR5
cg04830357	5	140718339	<i>PCDHGA1</i>	UTR5
cg15653044	17	4545718	<i>ALOX15</i>	upstream
cg14165978	1	40156757	<i>HPCAL4</i>	UTR5
cg11037477	4	99851008	<i>EIF4E</i>	UTR5
cg07357987	2	223289306	<i>SGPP2</i>	UTR5
cg02704217	17	12568507	<i>MYOCD</i>	upstream
cg18070959	5	1856726	<i>LOC101929034</i>	upstream
cg20648632	6	88182161	<i>SLC35A1</i>	upstream

cg10562340	3	46250357	<i>CCR1</i>	upstream
cg26980244	8	24772513	<i>NEFM</i>	UTR5
cg17945440	8	109096299	<i>RSPO2</i>	upstream
cg14189571	4	188916943	<i>ZFP42</i>	UTR5
cg13052223	5	140165651	<i>PCDHA1</i>	upstream
cg02884181	5	158689508	<i>UBLCP1</i>	upstream
cg25742326	1	901449	<i>PLEKHNI</i>	upstream;downstream
cg25342674	1	31881983	<i>SERINC2</i>	upstream
cg15004182	20	29896584	<i>DEFB116</i>	upstream
cg04053572	1	163038665	<i>RGS4</i>	UTR5
cg10258721	7	94023442	<i>COL1A2</i>	upstream
cg18423935	3	120626667	<i>STXBP5L</i>	upstream
cg00193200	3	120626653	<i>STXBP5L</i>	upstream
cg08538752	21	10990890	<i>TPTE</i>	UTR5
cg07737781	7	73038866	<i>MLXIPL</i>	UTR5
cg03469082	4	46126448	<i>GABRG1</i>	upstream
cg09703048	14	20584899	<i>OR4K17</i>	upstream
cg22150661	8	104032860	<i>ATP6V1C1</i>	upstream
cg10494684	17	26645200	<i>TMEM97</i>	upstream
cg07590929	16	68270679	<i>ESRP2</i>	upstream
cg15858239	8	63161609	<i>NKAIN3</i>	UTR5
cg05498618	9	36036451	<i>RECK</i>	upstream
cg20165416	10	89264080	<i>MINPP1</i>	upstream;downstream
cg05605052	19	23945659	<i>RPSAP58</i>	upstream
cg00295572	1	3568236	<i>TP73</i>	upstream
cg03774803	2	198650880	<i>BOLL</i>	UTR5
cg17393016	17	79283390	<i>C17orf55</i>	upstream
cg26642082	1	234508347	<i>COA6</i>	upstream;downstream
cg01734112	2	26624760	<i>C2orf39</i>	upstream
cg20024110	6	32977708	<i>HLA-DOA</i>	upstream
cg25784220	19	58609602	<i>ZSCAN18</i>	UTR5
cg10775141	16	30457534	<i>SEPHS2</i>	upstream
cg27458987	12	33050050	<i>PKP2</i>	upstream
cg23893806	6	143999122	<i>PHACTR2</i>	UTR5
cg16312655	12	46663902	<i>SLC38A1</i>	upstream
cg22058122	18	6414958	<i>L3MBTL4</i>	upstream
cg03878133	2	164593411	<i>FIGN</i>	upstream
cg19700376	2	74875760	<i>MIAP</i>	upstream
cg11545232	3	156544835	<i>LEKR1</i>	UTR5
cg19078576	5	17217877	<i>BASPI</i>	UTR5
cg15613567	10	134901497	<i>GPR123</i>	upstream
cg26643967	19	36485282	<i>SDHAF1</i>	upstream

cg00043095	2	223289277	<i>SGPP2</i>	UTR5
cg04621103	6	37321149	<i>RNF8</i>	upstream
cg24964103	6	133035379	<i>VNN1</i>	upstream
cg27063372	16	616857	<i>NHLRC4</i>	upstream
cg01210325	12	2944760	<i>NRIP2</i>	upstream
cg21324555	10	72648679	<i>PCBD1</i>	upstream
cg24121168	3	58652503	<i>FAM3D</i>	UTR5
cg18863595	3	6902845	<i>GRM7</i>	UTR5
cg16096646	4	119771931	<i>SYNPO2</i>	UTR5
cg27473053	19	50472464	<i>SIGLEC16</i>	upstream
cg02964602	2	203130213	<i>NOP58</i>	upstream
cg05027516	14	22039204	<i>OR10G3</i>	upstream
cg15633390	4	99851211	<i>EIF4E</i>	UTR5
cg02105093	17	27070369	<i>TRAF4</i>	upstream;downstream
cg17873750	1	116382984	<i>NHLH2</i>	UTR5
cg03868206	3	160284293	<i>KPNA4</i>	upstream
cg25268605	1	47698518	<i>TAL1</i>	upstream
cg19389372	19	36485356	<i>SDHAF1</i>	upstream
cg16345226	19	16771394	<i>TMEM38A</i>	upstream
cg14972143	4	99851003	<i>EIF4E</i>	UTR5
cg09181644	4	141490428	<i>UCP1</i>	upstream
cg19192120	11	67070517	<i>SSH3</i>	upstream;downstream
cg06096336	2	231989800	<i>PSMD1</i>	UTR5
cg18373318	5	53813164	<i>SNX18</i>	upstream
cg11461808	7	1126579	<i>GPER</i>	UTR5
cg19321979	1	156610966	<i>BCAN</i>	upstream
cg16406186	8	110988444	<i>KCNV1</i>	upstream
cg26186727	18	70534534	<i>NETO1</i>	UTR5
cg21554861	4	99851060	<i>EIF4E</i>	UTR5
cg21680327	1	36108225	<i>PSMB2</i>	upstream
cg08931687	5	140561245	<i>PCDHB16</i>	upstream
cg15132169	6	149805995	<i>ZC3H12D</i>	UTR5
cg13303179	3	46759335	<i>PRSS50</i>	UTR5
cg11668923	10	128076936	<i>ADAM12</i>	UTR5
cg05790550	9	96108842	<i>C9orf129</i>	upstream
cg09958192	16	67926607	<i>PSKH1</i>	upstream
cg14429906	11	11862429	<i>USP47</i>	upstream
cg10555383	8	143859990	<i>LYNX1</i>	upstream
cg00210210	6	99798738	<i>C6orf168</i>	upstream
cg22721334	19	58609618	<i>ZSCAN18</i>	UTR5
cg09678939	6	149806081	<i>ZC3H12D</i>	UTR5
cg02165355	5	178368071	<i>ZNF454</i>	upstream

cg10368935	10	18240316	<i>SLC39A12</i>	upstream
cg15389881	13	113950913	<i>LAMP1</i>	upstream
cg22039638	2	70996014	<i>ADD2</i>	upstream
cg09416149	6	74364495	<i>SLC17A5</i>	upstream
cg17357286	1	210111531	<i>SYT14</i>	UTR5
cg24843474	1	241520598	<i>RGS7</i>	upstream
cg09153267	15	74500175	<i>STRA6</i>	UTR5
cg08383695	6	10886346	<i>SYCP2L</i>	upstream
cg26289142	2	74875794	<i>MIAP</i>	upstream
cg22418909	8	41166738	<i>SFRP1</i>	UTR5
cg13149686	14	20691680	<i>OR11H6</i>	upstream
cg15124400	9	124989839	<i>LHX6</i>	UTR5
cg15521034	11	124823390	<i>CCDC15</i>	upstream
cg22172038	1	231176991	<i>FAM89A</i>	upstream
cg07365439	13	19581746	<i>LINC00442</i>	upstream
cg17976873	14	23352295	<i>REM2</i>	upstream
cg15417244	12	41831558	<i>PDZRN4</i>	UTR5
cg12979807	2	55497079	<i>MTIF2</i>	upstream
cg20705781	11	67070238	<i>SSH3</i>	upstream;downstream
cg02634341	1	179711583	<i>FAM163A</i>	UTR5
cg00012522	15	98503952	<i>ARRDC4</i>	UTR5
cg01874867	7	94954059	<i>PON1</i>	upstream
cg26204079	2	234262348	<i>DGKD</i>	upstream
cg15681537	21	22370733	<i>NCAM2</i>	UTR5
cg15825059	11	110167871	<i>RDX</i>	upstream
cg14480262	14	73703844	<i>PAPLN</i>	upstream
cg19384289	2	176994365	<i>HOXD8</i>	upstream
cg24946597	8	31497464	<i>NRG1</i>	UTR5
cg22879458	5	140566496	<i>PCDHB9</i>	upstream;downstream
cg01933073	4	186732942	<i>SORBS2</i>	UTR5
cg08855288	8	63161589	<i>NKAIN3</i>	UTR5
cg25084878	5	127873711	<i>FBN2</i>	UTR5
cg20418550	18	61420051	<i>SERPINB7</i>	upstream
cg15842366	6	74364533	<i>SLC17A5</i>	upstream
cg13464915	18	25757202	<i>CDH2</i>	UTR5
cg19840088	2	149894678	<i>LYPD6B</i>	upstream
cg12245770	19	23945761	<i>RPSAP58</i>	UTR5
cg00668337	11	64491331	<i>NRXN2</i>	upstream
cg06970744	1	110210439	<i>GSTM2</i>	upstream
cg05924652	6	39016363	<i>GLP1R</i>	upstream
cg10669058	19	19648555	<i>CILP2</i>	upstream;downstream
cg22777062	21	38353114	<i>HLCS</i>	UTR5

cg03605201	8	91095553	<i>CALB1</i>	upstream
cg09557034	7	11872059	<i>THSD7A</i>	upstream
cg07482372	11	2951201	<i>PHLDA2</i>	upstream
cg03823904	7	80548456	<i>SEMA3C</i>	UTR5
cg01349933	14	72398252	<i>RGS6</i>	upstream
cg12256845	6	48037248	<i>PTCHD4</i>	upstream
cg27403635	5	113698291	<i>KCNN2</i>	UTR5
cg26866348	5	191547	<i>LRRC14B</i>	upstream
cg06128198	10	128593922	<i>DOCK1</i>	upstream
cg12409409	7	130125963	<i>MEST</i>	upstream;downstream
cg22190023	5	140552347	<i>PCDHB7</i>	UTR5
cg09150559	5	140571517	<i>PCDHB10</i>	upstream;downstream
cg26422488	5	16935950	<i>MYO10</i>	UTR5
cg01243879	6	166722248	<i>PRR18</i>	upstream
cg17725398	19	58962387	<i>ZNF324B</i>	upstream
cg10281770	17	80606947	<i>WDR45L</i>	upstream
cg26785346	4	186732936	<i>SORBS2</i>	UTR5
cg04100843	4	4860655	<i>MSX1</i>	upstream
cg25546811	7	93550752	<i>GNG11</i>	upstream
cg03015952	19	55987366	<i>ZNF628</i>	upstream
cg16015423	19	15217974	<i>SYDE1</i>	upstream
cg26141335	7	130125976	<i>MEST</i>	upstream;downstream
cg03809622	14	104552016	<i>ASPG</i>	upstream
cg11647681	5	140810161	<i>PCDHGA4</i>	UTR5
cg09102079	1	53164386	<i>COA7</i>	upstream
cg23180489	8	143859786	<i>LYNX1</i>	upstream
cg04892170	10	128076910	<i>ADAM12</i>	UTR5
cg26044490	12	16761419	<i>LMO3</i>	upstream
cg15138396	2	26624450	<i>C2orf39</i>	upstream
cg16848272	1	1510991	<i>SSU72</i>	upstream
cg04256347	4	141677674	<i>TBC1D9</i>	upstream
cg25273602	1	29062859	<i>YTHDF2</i>	upstream
cg01747364	11	66233628	<i>PELI3</i>	upstream
cg25555787	6	41196139	<i>TREML4</i>	UTR5
cg14007128	17	72864722	<i>FDXR</i>	UTR5
cg15482931	15	27019448	<i>GABRB3</i>	upstream
cg03906910	5	142814388	<i>NR3C1</i>	UTR5
cg20881888	3	50383079	<i>ZMYND10</i>	UTR5
cg17108629	11	87908805	<i>RAB38</i>	upstream
cg26051413	11	2292902	<i>ASCL2</i>	upstream
cg22620414	3	10806133	<i>LOC285370</i>	upstream
cg01557027	11	24518448	<i>LUZP2</i>	upstream

cg25092283	10	97321585	<i>SORBS1</i>	upstream
cg19284039	11	2292895	<i>ASCL2</i>	upstream
cg09319843	18	25757569	<i>CDH2</i>	upstream
cg13735282	4	11430724	<i>HS3ST1</i>	upstream
cg16818628	10	50604006	<i>DRGX</i>	UTR5
cg26317209	12	133187136	<i>LRCOL1</i>	upstream
cg09843519	5	125931316	<i>ALDH7A1</i>	upstream
cg00606190	12	16761702	<i>LMO3</i>	upstream
cg03321508	20	25039707	<i>ACSS1</i>	upstream
cg20343567	1	249121271	<i>SH3BP5L</i>	upstream;downstream
cg21147238	22	44838755	<i>LOC101927526</i>	upstream
cg26811372	5	140772182	<i>PCDHGA4</i>	UTR5
cg26886277	2	86566099	<i>REEP1</i>	upstream
cg24715245	4	41258794	<i>UCHL1</i>	upstream
cg18417245	5	140579296	<i>PCDHB11</i>	upstream
cg11481675	8	32504965	<i>NRG1</i>	UTR5
cg19225512	10	72648693	<i>PCBD1</i>	upstream
cg17741128	6	109704936	<i>CD164</i>	upstream
cg12943364	16	30418256	<i>ZNF771</i>	upstream
cg20670160	2	189156621	<i>GULP1</i>	UTR5
cg18342119	4	186733011	<i>SORBS2</i>	UTR5
cg04565008	11	67418140	<i>ACY3</i>	upstream
cg09905935	18	20713999	<i>CABLES1</i>	upstream
cg14779329	11	130786720	<i>SNX19</i>	upstream
cg06241208	11	30344200	<i>C11orf46</i>	upstream
cg00160911	14	70041888	<i>CCDC177</i>	upstream
cg24977260	1	97186694	<i>PTBP2</i>	upstream
cg04471507	1	26233376	<i>STMN1</i>	upstream
cg17794788	2	238767409	<i>RAMP1</i>	upstream
cg26866168	5	140528785	<i>PCDHB6</i>	upstream
cg15111469	5	121415023	<i>LOX</i>	upstream
cg17330251	7	94953956	<i>PON1</i>	UTR5
cg24378421	8	11141365	<i>MTMR9</i>	upstream
cg00615271	19	14799963	<i>ZNF333</i>	upstream
cg03387723	1	41708464	<i>SCMH1</i>	upstream
cg01926269	2	25391670	<i>POMC</i>	UTR5
cg26622291	5	140710237	<i>PCDHGA1</i>	upstream
cg00399059	8	143859774	<i>LYNX1</i>	upstream
cg19922137	1	210111561	<i>SYT14</i>	UTR5
cg06912990	4	159131518	<i>TMEM144</i>	UTR5
cg10593400	1	86044176	<i>DDAH1</i>	upstream
cg09937190	20	15177509	<i>MACROD2</i>	UTR5

cg15351009	5	191486	<i>LRRC14B</i>	upstream
cg09866366	3	183903315	<i>ABCF3</i>	upstream
cg18354264	1	226411008	<i>MIXL1</i>	upstream
cg03496709	10	29698460	<i>LOC387647</i>	upstream
cg26248284	4	41362853	<i>LIMCH1</i>	UTR5
cg09368486	2	208890779	<i>PLEKHM3</i>	upstream

MAPINFO means genomic location; UCSC_Ref Gene_Group_Anovar represents gene region where

the probe is located based on anovar annotation. *CHR* Chromosome; *DMPs* DNA methylation positions;

5'UTR 5'untranslated region