

**Supplementary Table 1**

**Down Events**

<b>Chromosome</b>	<b>Start</b>	<b>End</b>	<b>Event</b>	<b>Associated Gene</b>	<b>Feature</b>
chr1	172491001	172491002	Down	Nos1ap	Genebody
chr1	87556631	87556632	Down	Sp100	Genebody
chr1	62391921	62391922	Down	Pard3b	Genebody
chr1	177735721	177735722	Down	Wdr64	Genebody
chr1	78121811	78121812	Down	Pax3	Genebody
chr1	171446121	171446122	Down	Nuf2	Genebody
chr1	90136211	90136212	Down	Mroh2a	Genebody
chr1	72357241	72357242	Down	Xrcc5	Genebody
chr1	13637221	13637222	Down	Lactb2	Genebody
chr1	61692431	61692432	Down	Pard3b	Genebody
chr1	33938761	33938762	Down	Bend6	Genebody
chr1	190014031	190014032	Down	Esrrg	Genebody
chr1	176169541	176169542	Down	Spta1	Genebody
chr1	71455521	71455522	Down	Abca12	Genebody
chr1	6825231	6825232	Down	St18	Genebody
chr1	135275921	135275922	Down	Etnk2	Genebody
chr1	141209921	141209922	Down	Crb1	Genebody
chr1	82323871	82323872	Down	Rhbdd1	Genebody
chr1	171910091	171910092	Down	Ddr2	Genebody
chr1	139995931	139995932	Down	Ptprc	Genebody
chr1	55586681	55586682	Down	Plcl1	Genebody
chr1	70791301	70791302	Down	Vwc2l	Genebody
chr1	135268461	135268462	Down	Etnk2	Genebody
chr1	58198191	58198192	Down	Aox3	Genebody
chr1	53490911	53490912	Down	Dnahc7a	Genebody
chr1	59258211	59258212	Down	Als2	Genebody
chr1	72889831	72889832	Down	Igfbp2	Genebody
chr1	162018921	162018922	Down	Tnn	Genebody
chr1	171980421	171980422	Down	Ddr2	Genebody
chr1	84412761	84412762	Down	Dner	Genebody
chr1	139999591	139999592	Down	Ptprc	Genebody
chr1	141997141	141997142	Down	Cfh	Genebody
chr1	36715361	36715362	Down	Fam178b	Genebody
chr1	167787461	167787462	Down	Cd247	Genebody
chr1	180370911	180370912	Down	Efcab2	Genebody
chr1	78374421	78374422	Down	Sgpp2	Genebody
chr1	178085811	178085812	Down	Pld5	Genebody
chr1	9977741	9977742	Down	Ppp1r42	Genebody
chr1	152444511	152444512	Down	Hmcn1	Genebody
chr1	40387141	40387142	Down	Ii1r2	Genebody
chr1	171983561	171983562	Down	Ddr2	Genebody
chr1	171983901	171983902	Down	Ddr2	Genebody
chr1	195053091	195053092	Down	Hsd11b1	Genebody
chr1	176178891	176178892	Down	Spta1	Genebody
chr1	166743081	166743082	Down	Dpt	Genebody