

Supplementary Table 2. Short insertions and deletions (INDELs) comparison between normal and cancer samples

Chr	Coord	Gene	Exon	INDEL (reference/variation)	H-1650	H-23	NA17022
chr1	156841410	<i>NTRK1</i>	9	*/+C	MT	MT	MT
chr1	156846205	<i>NTRK1</i>	16	*/-G	WT	WT	MT
chr1	156846206	<i>NTRK1</i>	16	*/+C	WT	MT	WT
chr1	156849070	<i>NTRK1</i>	17	-A/*	MT	MT	MT
chr11	108115511	<i>ATM</i>	6	*/+TT	MT	MT	WT
chr11	108117739	<i>ATM</i>	7	*/+TTG	WT	MT	WT
chr11	108121478	<i>ATM</i>	9	*/+GT	MT	WT	WT
chr11	108121632	<i>ATM</i>	9	*/+G	MT	MT	MT
chr11	108124737	<i>ATM</i>	12	*/-A	MT	MT	MT
chr11	108128268	<i>ATM</i>	14	*/-TC	MT	MT	MT
chr11	108139265	<i>ATM</i>	17	*/-T	WT	WT	MT
chr11	108139266	<i>ATM</i>	17	*/+TA	WT	MT	WT
chr11	108158322	<i>ATM</i>	26	*/+G	MT	MT	MT
chr11	108163355	<i>ATM</i>	29	*/-A	MT	WT	WT
chr11	108163464	<i>ATM</i>	29	*/-T	MT	WT	WT
chr11	108165757	<i>ATM</i>	31	*/-G	WT	WT	MT
chr11	108170537	<i>ATM</i>	33	*/-G	WT	MT	WT
chr11	108175565	<i>ATM</i>	36	*/+CT	WT	WT	MT
chr11	108178702	<i>ATM</i>	37	*/-A	MT	MT	WT
chr11	108196064	<i>ATM</i>	45	-G/*	MT	MT	WT
chr11	108196133	<i>ATM</i>	45	*/+T	MT	MT	MT
chr11	108206674	<i>ATM</i>	55	*/+T	MT	WT	WT
chr11	108236181	<i>ATM</i>	62	*/+T	WT	WT	MT
chr13	48941660	<i>RB1</i>	10	*/-TTT	WT	MT	WT
chr15	41799423	<i>LTK</i>	11	*/-G	MT	MT	WT
chr15	88472475	<i>NTRK3</i>	17	*/-C	MT	MT	MT
chr15	88799388	<i>NTRK3</i>	1	*/-G	WT	WT	MT
chr15	88799389	<i>NTRK3</i>	1	*/-A	MT	WT	WT
chr17	29554593	<i>NF1</i>	43	*/-C	MT	MT	WT
chr17	29560079	<i>NF1</i>	36	*/+T	WT	MT	WT
chr17	29563003	<i>NF1</i>	34	*/-TT	MT	MT	WT
chr17	29585513	<i>NF1</i>	31	*/-G	MT	MT	WT
chr17	29622239	<i>NF1</i>	26	*/+C	MT	MT	WT
chr17	29622377	<i>NF1</i>	26	*/-A	WT	MT	WT
chr17	29622382	<i>NF1</i>	26	+C/*	MT	WT	WT
chr17	29623142	<i>NF1</i>	26	*/-ATCA	MT	MT	WT
chr17	29631878	<i>NF1</i>	25	*/+TT	MT	WT	WT
chr17	29631879	<i>NF1</i>	25	*/+T	WT	MT	WT
chr17	29645851	<i>NF1</i>	24	*/+A	MT	MT	WT
chr17	29665124	<i>NF1</i>	14	*/-C	MT	MT	MT
chr17	29679409	<i>NF1</i>	8	*/-G	WT	MT	MT
chr17	29684100	<i>NF1</i>	6	*/+CT	WT	WT	MT
chr17	29687692	<i>NF1</i>	2	*/+T	MT	MT	WT
chr17	37868609	<i>ERBB2</i>	9	*/+T	MT	WT	WT
chr17	37881973	<i>ERBB2</i>	23	+CT/*	MT	MT	MT
chr17	7572929	<i>TP53</i>	10	*/+C	MT	MT	MT
chr17	7577612	<i>TP53</i>	6	*/+T	WT	WT	MT
chr2	141072624	<i>LRP1B</i>	83	*/+G	MT	MT	MT
chr2	141093397	<i>LRP1B</i>	78	*/+G	MT	MT	MT

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chr2	141202143	<i>LRP1B</i>	64	*/-CA	MT	MT	WT
chr2	141215130	<i>LRP1B</i>	61	*/+A	WT	MT	WT
chr2	141215131	<i>LRP1B</i>	61	*/+GA	MT	WT	WT
chr2	141232723	<i>LRP1B</i>	60	*/-C	WT	MT	WT
chr2	141267603	<i>LRP1B</i>	52	*/-T	MT	MT	WT
chr2	141274543	<i>LRP1B</i>	50	*/-CT	MT	MT	WT
chr2	141283549	<i>LRP1B</i>	49	*/+C	MT	MT	WT
chr2	141458010	<i>LRP1B</i>	41	*/+TA	MT	MT	WT
chr2	141607756	<i>LRP1B</i>	29	*/-TC	MT	WT	WT
chr2	141641560	<i>LRP1B</i>	25	*/+G	MT	MT	MT
chr2	141643874	<i>LRP1B</i>	24a	*/+AAG	MT	MT	WT
chr2	141665651	<i>LRP1B</i>	22	*/-G	WT	WT	MT
chr2	29416089	<i>ALK</i>	29	*/+GA	MT	MT	WT
chr2	29416092	<i>ALK</i>	29	*/-G	WT	WT	MT
chr2	29445251	<i>ALK</i>	22	*/+C	MT	MT	MT
chr2	29451773	<i>ALK</i>	16	*/+A	MT	MT	MT
chr2	42472794	<i>EML4</i>	2a	*/+C	MT	MT	MT
chr2	42530241	<i>EML4</i>	15	*/+C	MT	MT	WT
chr2	42544661	<i>EML4</i>	19	*/-A	MT	MT	MT
chr2	42552695	<i>EML4</i>	20	*/-T	MT	MT	WT
chr20	57415459	<i>GNAS</i>	1	*/-G	MT	WT	MT
chr3	178916824	<i>PIK3CA</i>	1	*/-T	WT	MT	WT
chr3	178936023	<i>PIK3CA</i>	9	*/+TT	MT	MT	WT
chr3	178942599	<i>PIK3CA</i>	15	*/+G	WT	WT	MT
chr3	178952131	<i>PIK3CA</i>	20	*/-A	MT	MT	WT
chr3	50251668	<i>SLC38A3</i>	1	*/+A	MT	MT	MT
chr3	50251833	<i>SLC38A3</i>	2	+G/+G	MT	MT	MT
chr3	50253179	<i>SLC38A3</i>	6	*/+CG	MT	WT	WT
chr3	50253258	<i>SLC38A3</i>	6	*/+C	WT	WT	MT
chr3	50254882	<i>SLC38A3</i>	8	*/-GCA	MT	MT	WT
chr3	50379949	<i>ZMYND10</i>	8	*/+C	MT	MT	WT
chr3	50379983	<i>ZMYND10</i>	8	*/-G	WT	MT	WT
chr3	50379990	<i>ZMYND10</i>	8	*/-T	MT	WT	WT
chr3	50380780	<i>ZMYND10</i>	5	*/+C	MT	MT	WT
chr3	89156894	<i>EPHA3</i>	1	*/+C	MT	MT	MT
chr3	89448573	<i>EPHA3</i>	7	*/+C	MT	MT	WT
chr3	89499328	<i>EPHA3</i>	15	*/-A	MT	WT	WT
chr4	55131170	<i>PDGFRA</i>	4	*/+C	MT	WT	WT
chr4	55136846	<i>PDGFRA</i>	7	*/+TCT	MT	MT	WT
chr4	55140709	<i>PDGFRA</i>	10	*/-A	MT	MT	WT
chr4	55140783	<i>PDGFRA</i>	10	*/+TA	WT	MT	WT
chr4	55140790	<i>PDGFRA</i>	10	*/+CG	MT	WT	WT
chr4	55143644	<i>PDGFRA</i>	12	*/-T	WT	WT	MT
chr4	55946196	<i>KDR</i>	30	*/+G	MT	MT	WT
chr4	55964396	<i>KDR</i>	17	*/+T	WT	WT	MT
chr4	55972890	<i>KDR</i>	11	*/+T	MT	WT	WT
chr4	66217192	<i>EPHA5</i>	14	*/+T	MT	MT	MT
chr4	66231779	<i>EPHA5</i>	11	*/-A	WT	WT	MT
chr5	112102891	<i>APC</i>	3	*/+C	MT	MT	WT
chr5	112151209	<i>APC</i>	8	*/-GA	MT	MT	WT
chr5	112151242	<i>APC</i>	8	*/+A	WT	WT	MT
chr5	112157686	<i>APC</i>	10	*/+A	WT	WT	MT

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chr5	112170742	APC	14	*/+AA	WT	MT	MT
chr5	112173353	APC	15	*/-C	MT	MT	WT
chr5	112173572	APC	15	*/+C	MT	WT	MT
chr5	112174182	APC	15	*/-A	WT	WT	MT
chr5	112174528	APC	15	*/-G	MT	WT	WT
chr5	112176489	APC	15	*/+A	MT	MT	WT
chr5	112176791	APC	15	*/-T	MT	MT	WT
chr5	112176894	APC	15	*/+CTC	MT	MT	WT
chr5	112177023	APC	15	*/-AG	WT	MT	WT
chr5	112177176	APC	15	*/-CT	MT	MT	WT
chr5	112178256	APC	15	*/-GT	MT	MT	WT
chr5	176516692	FGFR4	1	*/+G	MT	MT	MT
chr5	176522359	FGFR4	10	*/-CT	MT	WT	WT
chr5	176524547	FGFR4	16	*/-CT	WT	MT	WT
chr7	41729278	INHBA	2a	*/-T	MT	WT	MT
chr7	55214433	EGFR	4	*/+G	WT	WT	MT
chr7	55232981	EGFR	15	*/-A	MT	MT	WT
chr7	55238176	EGFR	17	*/+C	MT	WT	MT
chr7	55242464	EGFR	21	*/-GGAATTAAGAGAAGC	MT	WT	WT
chr7	55249077	EGFR	22	*/+CA	MT	MT	WT
chr7	55270258	EGFR	29	*/-C	MT	MT	WT
chr9	21994331	CDKN2A	1	*/-T	WT	WT	MT
chr9	8341874	PTPRD	26	*/-T	MT	MT	WT
chr9	8341945	PTPRD	26	*/-AC	MT	WT	WT
chr9	8375940	PTPRD	25	*/-G	MT	WT	WT
chr9	8733838	PTPRD	1	*/+A	WT	WT	MT
chrX	110439788	PAK3	12	*/-T	MT	WT	WT

Chr, chromosome; WT, wild type; MT, mutant type; Coord, chromosome position.