

Supplementary Table S1. Genes in the custom capture panel for targeted sequencing. LIT: colorectal cancer related genes reported in literature. **SMG:** significantly mutated genes from TCGA colorectal cancer study. **CNV:** randomly selected genes from regions with recurrent copy number variation in TCGA colorectal cancer study. **DRV:** driver genes suggested by Vogelstein *et al.*, 2013.

Type	RefSeq ID	Hugo symbol	chromosome	exon starts	exon ends
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SMG	NM_006268	DPF2	chr11	65101224	65101389
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SMG	NM_015283	DPY19L1	chr7	34968492	34971341
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SMG	NM_173509	FAM163A	chr1	179712297	179712558
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DRV	NM_000222	KIT	chr4	55604594	55606881
CNV	NM_001286818	KLF5	chr13	73629113	73629296
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CNV	NM_001286818	KLF5	chr13	73637961	73638021
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CNV	NM_020866	KLHL1	chr13	70274724	70275893
CNV	NM_020866	KLHL1	chr13	70281756	70281928
CNV	NM_020866	KLHL1	chr13	70293500	70293713
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CNV	NM_020866	KLHL1	chr13	70370869	70371094
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CNV	NM_020866	KLHL1	chr13	70456414	70456627
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CNV	NM_020866	KLHL1	chr13	70535439	70535576
CNV	NM_020866	KLHL1	chr13	70549751	70549934
CNV	NM_020866	KLHL1	chr13	70681334	70682625
SMG	NM_025010	KLHL18	chr3	47324329	47324584
SMG	NM_025010	KLHL18	chr3	47361142	47361273
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SMG	NM_025010	KLHL18	chr3	47371440	47371639
SMG	NM_025010	KLHL18	chr3	47374646	47374807
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SMG	NM_025010	KLHL18	chr3	47382061	47382166
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SMG	NM_001007075	KLHL5	chr4	39046450	39046716
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DRV	NM_170606	KMT2C	chr7	151841797	151841966
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DRV	NM_170606	KMT2C	chr7	151891524	151891653
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CNV	NM_002267	KPNA3	chr13	50273442	50276034
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CNV	NM_002267	KPNA3	chr13	50280233	50280305
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CNV	NM_001199241	KYNU	chr2	143638913	143638999
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CNV	NM_001199241	KYNU	chr2	143685227	143685310
CNV	NM_001199241	KYNU	chr2	143712378	143712440
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CNV	NM_001199241	KYNU	chr2	143742652	143742751
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SMG	NM_024884	L2HGDH	chr14	50709151	50713971
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CNV	NM_005780	LHFP	chr13	39917028	39918191
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SMG	NM_005779	LHFPL2	chr5	77781037	77784976
SMG	NM_005779	LHFPL2	chr5	77805606	77806221
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CNV	NR_027301	LINC00662	chr19	28281400	28282809
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CNV	NR_024391	LINC00669	chr18	36786887	36788753
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CNV	NR_038985	LINC00856	chr10	80008381	80008827
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SMG	NM_002318	LOXL2	chr8	23154409	23155635
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LIT	NM_001127891	MMP2	chr16	55515473	55515790
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DRV	NM_005373	MPL	chr1	43803474	43803598
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DRV	NM_005373	MPL	chr1	43817886	43817974
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SMG	NM_016447	MPP6	chr7	24613084	24613212
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SMG	NM_001256511	SSBP1	chr7	141438120	141438393
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