

Table S9. A complete list of somatic small indels identified in 160 colorectal cancer patients by targeted capture sequencing.

Chror	Start	End	Ref	Obs	Func	ExonicFunc	Gene	Amino acid change	mutated	sample
chr5	1.1E+08	1.1E+08	AC	-	exonic	frameshift deletion	APC	NM_001127511:c.3522_3523del:p.1174_1175del	P47	
chr5	1.1E+08	1.1E+08	C	-	exonic	stopgain SNV	APC	NM_001127511:c.3977delC:p.S1326X	P48	
chr17	7518938	7518939	AA	-	exonic	frameshift deletion	TP53	NM_001126115:c.239_240del:p.80_80del	P49	
chr17	7.6E+07	7.6E+07	-	CTTCGTC	exonic	frameshift insertion	RNF213	NM_020914:c.10382_10383insCTTCGTC:p.I3461fs	P50	
chr17	7518283	7518283	G	-	exonic	frameshift deletion	TP53	NM_001126115:c.327delC:p.S109fs	P137	
chr5	1.1E+08	1.1E+08	G	-	exonic	frameshift deletion	APC	NM_001127511:c.1329delG:p.E443fs	P45	
chr6	1.7E+08	1.7E+08	-	A	splicing		PDE10A		P44	
chr8	5.3E+07	5.3E+07	-	A	exonic	frameshift insertion	PCMTD1	NM_052937:c.571_572insT:p.I191fs	P41	
chr17	2.7E+07	2.7E+07	T	-	exonic	frameshift deletion	NF1	NM_000267:c.821delT:p.L274fs	P41	
chr5	1.1E+08	1.1E+08	CACAG	-	exonic	frameshift deletion	APC	NM_001127511:c.3926_3930del:p.1309_1310del	P40	
chr18	4.7E+07	4.7E+07	-	T	exonic	frameshift insertion	SMAD4	NM_005359:c.1478_1479insT:p.D493fs	P40	
chr2	1.7E+08	1.7E+08	-	G	exonic	frameshift insertion	LRP2	NM_004525:c.13140_13141insC:p.P4380fs	P43	
chr5	1.1E+08	1.1E+08	T	-	exonic	frameshift deletion	APC	NM_001127511:c.4254delT:p.S1418fs	P43	
chr5	1.1E+08	1.1E+08	AC	-	exonic	frameshift deletion	APC	NM_001127511:c.2431_2432del:p.811_811del	P37	
chr13	6.7E+07	6.7E+07	T	-	exonic	frameshift deletion	PCDH9	NM_020403:c.1734delA:p.Q578fs	P38	
chr1	1.6E+08	1.6E+08	-	T	exonic	frameshift insertion	SPTA1	NM_003126:c.6183_6184insA:p.K2061fs	P110	
chr1	1.6E+08	1.6E+08	A	-	splicing		ATP1A2		P110	
chr1	1.8E+08	1.8E+08	A	-	exonic	frameshift deletion	HMCN1	NM_031935:c.994delA:p.K332fs	P110	
chr2	1.9E+08	1.9E+08	-	C	exonic	frameshift insertion	COL3A1	NM_000090:c.407_408insC:p.G136fs	P110	
chr3	1.4E+08	1.4E+08	-	A	exonic	frameshift insertion	ATR	NM_001184:c.810_811insT:p.F270fs	P110	
chr5	2.5E+07	2.5E+07	A	-	exonic	frameshift deletion	CDH10	NM_006727:c.1577delT:p.F526fs	P110	
chr5	1.1E+08	1.1E+08	-	A	exonic	frameshift insertion	APC	NM_001127511:c.6518_6519insA:p.G2173fs	P110	
chr5	1.4E+08	1.4E+08	A	-	exonic	frameshift deletion	PCDHB1	NM_013340:c.1482delA:p.P494fs	P110	
chr7	9.2E+07	9.2E+07	AG	-	exonic	frameshift deletion	AKAP9	NM_005751:c.4950_4951del:p.1650_1651del	P110	
chr10	9.7E+07	9.7E+07	A	-	exonic	frameshift deletion	SORBS1	NM_001034954:c.1314delT:p.T438fs	P110	
chr2	1.7E+08	1.7E+08	G	-	exonic	frameshift deletion	LRP2	NM_004525:c.13139delC:p.P4380fs	P151	
chr5	2.5E+07	2.5E+07	-	A	exonic	frameshift insertion	CDH10	NM_006727:c.1578_1579insT:p.F526fs	P151	
chr5	8.3E+07	8.3E+07	T	-	exonic	frameshift deletion	VCAN	NM_001164097:c.6217delT:p.F2073fs	P151	
chr6	1.3E+08	1.3E+08	G	-	exonic	frameshift deletion	LAMA2	NM_000426:c.5285delG:p.R1762fs	P151	
chr7	8.1E+07	8.1E+07	-	T	exonic	frameshift insertion	HGF	NM_000601:c.182_183insA:p.T61fs	P151	
chr7	9.1E+07	9.1E+07	A	-	exonic	frameshift deletion	AKAP9	NM_005751:c.940delA:p.K314fs	P151	
chr7	1.5E+08	1.5E+08	T	-	exonic	frameshift deletion	MLL3	NM_170606:c.8390delA:p.K2797fs	P151	
chr7	1.5E+08	1.5E+08	CTG	-	exonic	nonframeshift deletion	PAXIP1	NM_007349:c.1642_1644del:p.548_548del	P151	
chr18	7028885	7028885	T	-	exonic	frameshift deletion	LAMA1	NM_005559:c.1487delA:p.N496fs	P151	
chr18	4.9E+07	4.9E+07	-	C	exonic	frameshift insertion	DCC	NM_005215:c.3251_3252insC:p.H1084fs	P151	
chr19	7882148	7882148	-	C	exonic	frameshift insertion	MAP2K7	NM_145185:c.869_870insC:p.D290fs	P151	
chrX	2E+07	2E+07	CT	-	exonic	frameshift deletion	SH3KBP1	NM_001184960:c.440_441del:p.147_147del	P151	
chrX	1.5E+08	1.5E+08	-	T	exonic	frameshift insertion	F8	NM_000132:c.3301_3302insA:p.E1101fs	P151	
chr17	4.3E+07	4.3E+07	TTATCTTACCTT	-	exonic	nonframeshift deletion	CDC27	NM_001114091:c.2173_2178del:p.725_726del	P149	
chr5	1.1E+08	1.1E+08	-	A	exonic	frameshift insertion	APC	NM_001127511:c.4606_4607insA:p.E1536fs	P141	
chr5	1.1E+08	1.1E+08	AG	-	exonic	frameshift deletion	APC	NM_001127511:c.4163_4164del:p.1388_1388del	P36	
chr5	1.1E+08	1.1E+08	-	A	exonic	frameshift insertion	APC	NM_001127511:c.3866_3867insA:p.I1289fs	P29	
chr6	1.5E+08	1.5E+08	A	-	exonic	frameshift deletion	SYNE1	NM_033071:c.7107delT:p.N2369fs	P30	
chr5	1.1E+08	1.1E+08	TG	-	exonic	frameshift deletion	APC	NM_001127511:c.1293_1294del:p.431_432del	P31	
chr20	5.8E+07	5.8E+07	A	-	exonic	nonframeshift deletion	CDH26	NM_021810:c.497delA:p.X166X	P140	
chrX	1.5E+08	1.5E+08	T	-	exonic	frameshift deletion	F8	NM_000132:c.3637delA:p.I1213fs	P140	
chr5	1.1E+08	1.1E+08	CAGA	-	exonic	frameshift deletion	APC	NM_001127511:c.1819_1822del:p.607_608del	P34	
chr5	1.1E+08	1.1E+08	C	-	exonic	frameshift deletion	APC	NM_001127511:c.3901delC:p.P1301fs	P46	

chr7	9.1E+07	9.1E+07	-	AAC	exonic	nonframeshift insert	AKAP9	NM_005751:c.4003_4004insAAC;p.K1335delinsKQ	P46
chr11	1.1E+08	1.1E+08	-	A	exonic	frameshift insertion	ATM	NM_000051:c.5971_5972insA;p.E1991fs	P2
chrX	1.5E+08	1.5E+08	T	-	exonic	frameshift deletion	F8	NM_000132:c.3637delA;p.I1213fs	P2
chr14	3.2E+07	3.2E+07	G	-	exonic	frameshift deletion	ARHGAP5	NM_001030055:c.3443delG;p.R1148fs	P143
chr5	1.1E+08	1.1E+08	-	T	exonic	frameshift insertion	APC	NM_001127511:c.4005_4006insT;p.E1335fs	P144
chr17	7517795	7517795	G	-	exonic	frameshift deletion	TP53	NM_001126115:c.472delC;p.R158fs	P144
chr22	1.9E+07	1.9E+07	-	CAG	exonic	nonframeshift insert	MED15	NM_001003891:c.531_532insCAG;p.L177delinsLQ	P157
chr7	9.1E+07	9.1E+07	-	A	exonic	frameshift insertion	AKAP9	NM_005751:c.2560_2561insA;p.E854fs	P158
chr7	9.1E+07	9.1E+07	AGA	-	exonic	nonframeshift deletion	AKAP9	NM_005751:c.4320_4322del;p.1440_1441del	P158
chr9	3.3E+07	3.3E+07	T	-	exonic	frameshift deletion	TAF1L	NM_153809:c.1994delA;p.K665fs	P158
chr11	1.1E+08	1.1E+08	T	-	exonic	frameshift deletion	ATM	NM_000051:c.179delT;p.V60fs	P158
chr17	3564974	3564974	A	-	exonic	frameshift deletion	ITGAE	NM_002208:c.3456delT;p.F1152fs	P158
chr19	4.8E+07	4.8E+07	C	-	exonic	frameshift deletion	PSG9	NM_002784:c.51delG;p.G17fs	P158
chr20	5.8E+07	5.8E+07	A	-	exonic	nonframeshift deletion	CDH26	NM_021810:c.497delA;p.X166X	P158
chr6	1.5E+08	1.5E+08	-	A	splicing		SYNE1		P159
chr17	7518960	7518960	-	AA	exonic	frameshift insertion	TP53	NM_001126115:c.218_219insTT;p.Y73fs	P23
chr5	1.1E+08	1.1E+08	AAAAG	-	exonic	frameshift deletion	APC	NM_001127511:c.3867_3871del;p.1289_1291del	P21
chr6	1.5E+08	1.5E+08	-	T	exonic	frameshift insertion	SYNE1	NM_033071:c.8516_8517insA;p.M2839fs	P21
chr7	1.5E+08	1.5E+08	-	T	splicing		MLL3		P25
chr5	1.1E+08	1.1E+08	-	T	exonic	frameshift insertion	APC	NM_001127511:c.4080_4081insT;p.Q1360fs	P86
chr5	1.1E+08	1.1E+08	-	T	exonic	frameshift insertion	APC	NM_001127511:c.4123_4124insT;p.L1375fs	P58
chr5	1.1E+08	1.1E+08	AAAAG	-	exonic	frameshift deletion	APC	NM_001127511:c.3867_3871del;p.1289_1291del	P145
chr12	5998869	5998869	G	-	exonic	frameshift deletion	VWF	NM_000552:c.3976delC;p.H1326fs	P105
chr5	1.1E+08	1.1E+08	CAGCAGTGTC	-	exonic	frameshift deletion	APC	NM_001127511:c.3917_3927del;p.1306_1309del	P103
chr5	1.1E+08	1.1E+08	-	T	exonic	frameshift insertion	APC	NM_001127511:c.4130_4131insT;p.S1377fs	P103
chr5	1.1E+08	1.1E+08	AAAAG	-	exonic	frameshift deletion	APC	NM_001127511:c.3867_3871del;p.1289_1291del	P102
chr5	1.1E+08	1.1E+08	AAAAG	-	exonic	frameshift deletion	APC	NM_001127511:c.3867_3871del;p.1289_1291del	P99
chr5	2.5E+07	2.5E+07	T	-	exonic;splicing	frameshift deletion	CDH10	NM_006727:c.1001delA;p.K334fs	P100
chr10	1.2E+08	1.2E+08	-	T	splicing		C10orf81		P100
chr5	1.1E+08	1.1E+08	C	-	exonic	frameshift deletion	APC	NM_001127511:c.2222delC;p.A741fs	P98
chr5	1.1E+08	1.1E+08	-	A	exonic	frameshift insertion	APC	NM_001127511:c.4606_4607insA;p.E1536fs	P91
chr1	1.6E+08	1.6E+08	A	-	splicing		ATP1A2		P117
chr2	9.9E+07	9.9E+07	A	-	exonic	frameshift deletion	LIPT1	NM_145199:c.361delA;p.K121fs	P117
chr5	2.5E+07	2.5E+07	-	A	exonic	frameshift insertion	CDH10	NM_006727:c.1578_1579insT;p.F526fs	P117
chr6	1.7E+08	1.7E+08	-	A	splicing		PDE10A		P117
chr10	5.5E+07	5.5E+07	T	-	exonic	frameshift deletion	PCDH15	NM_001142765:c.3575delA;p.K1192fs	P117
chr11	2125561	2125561	G	-	exonic	frameshift deletion	INS-IGF2	NM_001042376:c.460delC;p.Q154fs	P117
chr11	1.1E+08	1.1E+08	T	-	exonic	frameshift deletion	ATM	NM_000051:c.2404delT;p.F802fs	P117
chr15	2.6E+07	2.6E+07	AG	-	exonic	frameshift deletion	HERC2	NM_004667:c.11840_11841del;p.3947_3947del	P117
chr16	7.4E+07	7.4E+07	T	-	exonic	frameshift deletion	WDR59	NM_030581:c.479delA;p.N160fs	P117
chr20	5.8E+07	5.8E+07	A	-	exonic	nonframeshift deletion	CDH26	NM_021810:c.497delA;p.X166X	P117
chr14	3.2E+07	3.2E+07	-	T	exonic	frameshift insertion	ARHGAP5	NM_001030055:c.169_170insT;p.L57fs	P82
chr2	1.7E+08	1.7E+08	-	A	exonic	frameshift insertion	LRP2	NM_004525:c.1349_1350insT;p.S450fs	P108
chr2	2E+08	2E+08	-	A	exonic	frameshift insertion	CASP8	NM_033356:c.1367_1368insA;p.R456fs	P108
chr5	1.1E+08	1.1E+08	A	-	exonic	frameshift deletion	APC	NM_001127511:c.4306delA;p.K1436fs	P108
chr5	1.5E+08	1.5E+08	-	G	exonic	frameshift insertion	FAT2	NM_001447:c.12439_12440insC;p.R4147fs	P108
chr11	1.1E+08	1.1E+08	-	A	exonic	frameshift insertion	ATM	NM_000051:c.4735_4736insA;p.Q1579fs	P108
chr5	1.1E+08	1.1E+08	-	A	exonic	frameshift insertion	APC	NM_001127511:c.3085_3086insA;p.E1029fs	P81
chr17	7519196	7519207	GGGCGGGGGT	-	exonic	nonframeshift deletion	TP53	NM_001126115:c.52_63del;p.18_21del	P81
chr7	1.5E+08	1.5E+08	T	-	exonic	frameshift deletion	MLL3	NM_170606:c.8390delA;p.K2797fs	P15
chrX	7.1E+07	7.1E+07	A	-	exonic	frameshift deletion	TAF1	NM_004606:c.1993delA;p.K665fs	P15
chr1	1.5E+08	1.5E+08	CTCA	-	exonic	frameshift deletion	FLG	NM_002016:c.3222_3225del;p.1074_1075del	P13
chr5	1.1E+08	1.1E+08	AAAAG	-	exonic	frameshift deletion	APC	NM_001127511:c.3867_3871del;p.1289_1291del	P13

chr5	1.4E+08	1.4E+08	A	-	exonic	frameshift deletion	PCDHB4	NM_018938:c.1104delA:p.R368fs	P13
chr19	4.4E+07	4.4E+07	AAG	-	exonic	nonframeshift deletion	RYR1	NM_001042723:c.10468_10470del:p.3490_3490del	P13
chr5	1.1E+08	1.1E+08	AAAAG	-	exonic	frameshift deletion	APC	NM_001127511:c.3867_3871del:p.1289_1291del	P14
chr5	1.1E+08	1.1E+08	AG	-	exonic	frameshift deletion	APC	NM_001127511:c.4331_4332del:p.1444_1444del	P11
chr7	1.5E+08	1.5E+08	G	-	exonic	frameshift deletion	MLL3	NM_170606:c.11702delC:p.P3901fs	P11
chr3	1.2E+08	1.2E+08	ACA	-	exonic	nonframeshift deletion	MYLK	NM_053025:c.1182_1184del:p.394_395del	P12
chr5	1.1E+08	1.1E+08	-	A	exonic	frameshift insertion	APC	NM_001127511:c.4606_4607insA:p.E1536fs	P67
chr5	1.1E+08	1.1E+08	A	-	exonic	frameshift deletion	APC	NM_001127511:c.4255delA:p.K1419fs	P77
chr5	1.1E+08	1.1E+08	-	ATGTTT	exonic;splicing	nonframeshift insertic	APC	NM_001127511:c.879_880insATGTTT:p.K293delinsKMF	P70
chr5	1.1E+08	1.1E+08	-	A	exonic	frameshift insertion	APC	NM_001127511:c.4606_4607insA:p.E1536fs	P70
chr5	1.1E+08	1.1E+08	AAAAG	-	exonic	frameshift deletion	APC	NM_001127511:c.3867_3871del:p.1289_1291del	P71
chr1	1.6E+08	1.6E+08	T	-	exonic	frameshift deletion	ATP1A4	NM_144699:c.989delT;p.I330fs	P75
chr2	1.5E+07	1.5E+07	-	TA	exonic	frameshift insertion	NBAS	NM_015909:c.4101_4102insTA:p.Q1367fs	P75
chr5	1.1E+08	1.1E+08	-	A	exonic	frameshift insertion	APC	NM_001127511:c.3853_3854insA:p.Q1285fs	P75
chr11	1.1E+08	1.1E+08	A	-	exonic	frameshift deletion	ATM	NM_000051:c.8426delA:p.Q2809fs	P6
chr10	5.5E+07	5.5E+07	AGGAGC	-	exonic	nonframeshift deletion	PCDH15	NM_001142767:c.5167_5172del:p.1723_1724del	P9
chr22	4E+07	4E+07	-	A	exonic	frameshift insertion	EP300	NM_001429:c.4401_4402insA:p.Y1467fs	P9
chr12	1.3E+08	1.3E+08	-	GCA	exonic	nonframeshift insertic	EP400	NM_015409:c.8153_8154insGCA;p.R2718delinsRQ	P57
chr5	1.1E+08	1.1E+08	AG	-	exonic	frameshift deletion	APC	NM_001127511:c.4331_4332del:p.1444_1444del	P56
chr5	1.1E+08	1.1E+08	AG	-	exonic	frameshift deletion	APC	NM_001127511:c.4331_4332del:p.1444_1444del	P53
chr5	1.1E+08	1.1E+08	A	-	exonic	frameshift deletion	APC	NM_001127511:c.3872delA:p.E1291fs	P51
chr5	1.1E+08	1.1E+08	AG	-	exonic	frameshift deletion	APC	NM_001127511:c.4331_4332del:p.1444_1444del	P96
chr5	1.1E+08	1.1E+08	-	A	exonic	frameshift insertion	APC	NM_001127511:c.3989_3990insA:p.R1330fs	P59
chr5	1.1E+08	1.1E+08	TC	-	exonic	frameshift deletion	APC	NM_001127511:c.4111_4112del:p.1371_1371del	P59
chr5	1.1E+08	1.1E+08	G	-	exonic	frameshift deletion	APC	NM_001127511:c.4185delG:p.M1395fs	P1
chr5	1.1E+08	1.1E+08	-	A	exonic	frameshift insertion	APC	NM_001127511:c.4606_4607insA:p.E1536fs	P135
chr1	1.6E+08	1.6E+08	G	-	exonic	frameshift deletion	SPTA1	NM_003126:c.3163delC:p.Q1055fs	P134
chr2	2E+08	2E+08	A	-	exonic	frameshift deletion	CASP8	NM_033356:c.1368delA:p.R456fs	P134
chr5	1.3E+08	1.3E+08	T	-	exonic	frameshift deletion	ACSL6	NM_001205251:c.1836delA:p.K612fs	P134
chr6	1.5E+08	1.5E+08	T	-	exonic	frameshift deletion	GRM1	NM_000838:c.19delT;p.F7fs	P134
chr6	1.5E+08	1.5E+08	T	-	exonic	frameshift deletion	SYNE1	NM_015293:c.4184delA:p.K1395fs	P134
chr7	1.5E+08	1.5E+08	-	T	exonic	frameshift insertion	MLL3	NM_170606:c.8391_8392insA:p.K2797fs	P134
chr12	1.1E+08	1.1E+08	C	-	exonic	frameshift deletion	ACACB	NM_001093:c.4187delC:p.T1396fs	P134
chr17	1E+07	1E+07	-	C	exonic	frameshift insertion	MYH4	NM_017533:c.175_176insG:p.K59fs	P134
chr17	7.6E+07	7.6E+07	C	-	exonic	frameshift deletion	RNF213	NM_020954:c.667delC:p.P223fs	P134
chr20	5.8E+07	5.8E+07	A	-	exonic	nonframeshift deletion	CDH26	NM_021810:c.497delA:p.X166X	P134
chr22	2.2E+07	2.2E+07	G	-	exonic	frameshift deletion	GNAZ	NM_002073:c.606delG:p.V202fs	P134
chrX	3.2E+07	3.2E+07	T	-	exonic	frameshift deletion	DMD	NM_004011:c.1674delA:p.K558fs	P134
chr5	1.1E+08	1.1E+08	G	-	exonic	frameshift deletion	APC	NM_001127511:c.4425delG:p.T1475fs	P132
chr17	7518281	7518286	CAGGAA	-	exonic	nonframeshift deletion	TP53	NM_001126115:c.324_329del:p.108_110del	P126
chr8	1.4E+08	1.4E+08	-	GAT	exonic	nonframeshift insertic	TSNARE1	NM_145003:c.1522_1523insATC;p.A508delinsIA	P129
chr12	5.1E+07	5.1E+07	CCAAAGCCACC	-	exonic	nonframeshift deletion	KRT3	NM_057088:c.396_413del:p.132_138del	P129