

Supplementary Table S2. Gene panel for colorectal cancer (CRC) based on Kyoto Encyclopedia of Genes and Genomes (KEGG).

Gene	Chromosome	Location Based on GRCh37.p13		Source [https://www.ensembl.org/index.html]
		Assembly Start	End	
<i>AKT1</i>	14	105235686	105262085	Ensembl:ENSG00000142208
<i>AKT2</i>	19	40736224	40791252	Ensembl:ENSG00000105221
<i>AKT3</i>	1	243651535	244014381	Ensembl:ENSG00000117020
<i>APC</i>	5	112043195	112181936	Ensembl:ENSG00000134982
<i>APC2</i>	19	1450120	1473243	Ensembl:ENSG00000115266
<i>APPL1</i>	3	57261757	57307499	Ensembl:ENSG00000157500
<i>ARAF</i>	X	47420604	47431307	Ensembl:ENSG00000078061
<i>AXIN1</i>	16	337440	402723	Ensembl:ENSG00000103126
<i>AXIN2</i>	17	63524681	63557766	Ensembl:ENSG00000168646
<i>BAD</i>	11	64037300	64052176	Ensembl:ENSG00000002330
<i>BAX</i>	19	49458132	49465055	Ensembl:ENSG00000087088
<i>BCL2</i>	18	60790579	60987002	Ensembl:ENSG00000171791
<i>BIRC5</i>	17	76210334	76221716	Ensembl:ENSG00000089685
<i>BRAF</i>	7	140413128	140624729	Ensembl:ENSG00000157764
<i>CASP3</i>	4	185548850	185570601	Ensembl:ENSG00000164305
<i>CASP9</i>	1	15817896	15851285	Ensembl:ENSG00000132906
<i>CCND1</i>	11	69455924	69469242	Ensembl:ENSG00000110092
<i>CTNNB1</i>	3	41240996	41281934	Ensembl:ENSG00000168036
<i>CYCS</i>	7	25158275	25164879	Ensembl:ENSG00000172115
<i>DCC</i>	18	49866567	51062269	Ensembl:ENSG00000187323
<i>FOS</i>	14	75745531	75748933	Ensembl:ENSG00000170345
<i>GSK3B</i>	3	119540168	119813294	Ensembl:ENSG00000082701
<i>JUN</i>	1	59246463	59249719	Ensembl:ENSG00000177606
<i>KRAS</i>	12	25358180	25403863	Ensembl:ENSG00000133703
<i>LEF1</i>	4	108968704	109090088	Ensembl:ENSG00000138795
<i>MAP2K1</i>	15	66679250	66783882	Ensembl:ENSG00000169032
<i>MAPK1</i>	22	22113946	22221970	Ensembl:ENSG00000100030
<i>MAPK10</i>	4	86931558	87374348	Ensembl:ENSG00000109339
<i>MAPK3</i>	16	30125426	30134541	Ensembl:ENSG00000102882
<i>MAPK8</i>	10	49514720	49647403	Ensembl:ENSG00000107643
<i>MAPK9</i>	5	179660143	179719083	Ensembl:ENSG00000050748
<i>MLH1</i>	3	3703500	37092337	Ensembl:ENSG00000076242
<i>MSH2</i>	2	47630206	47710367	Ensembl:ENSG00000095002
<i>MSH3</i>	5	79950471	80172634	Ensembl:ENSG00000113318

<i>MSH6</i>	2	48010284	48034092	Ensembl:ENSG00000116062
<i>MYC</i>	8	128747680	128755197	Ensembl:ENSG00000136997
<i>PIK3CA</i>	3	178866145	178957881	Ensembl:ENSG00000121879
<i>PIK3CB</i>	3	138371540	138553770	Ensembl:ENSG00000051382
<i>PIK3CD</i>	1	9711789	9789172	Ensembl:ENSG00000171608
<i>PIK3CG</i>	7	106505727	106549425	Ensembl:ENSG00000105851
<i>PIK3R1</i>	5	67511584	67597649	Ensembl:ENSG00000145675
<i>PIK3R2</i>	19	18263973	18281342	Ensembl:ENSG00000105647
<i>PIK3R3</i>	1	46505812	46640573	Ensembl:ENSG00000117461
<i>PIK3R5</i>	17	8782233	8869024	Ensembl:ENSG00000141506
<i>RAC1</i>	7	6414158	6443598	Ensembl:ENSG00000136238
<i>RAC2</i>	22	37621310	37640309	Ensembl:ENSG00000128340
<i>RAC3</i>	17	79989554	79992080	Ensembl:ENSG00000169750
<i>RAF1</i>	3	12625100	12705616	Ensembl:ENSG00000132155
<i>RALGDS</i>	9	135973109	136024597	Ensembl:ENSG00000160271
<i>RHOA</i>	3	49396578	49449409	Ensembl:ENSG00000067560
<i>SMAD2</i>	18	45335328	45457243	Ensembl:ENSG00000175387
<i>SMAD3</i>	15	67357940	67487507	Ensembl:ENSG00000166949
<i>SMAD4</i>	18	48556583	48611412	Ensembl:ENSG00000141646
<i>TCF7</i>	5	133450372	133483901	Ensembl:ENSG00000081059
<i>TCF7L1</i>	2	85360515	85537510	Ensembl:ENSG00000152284
<i>TCF7L2</i>	10	114710006	114927437	Ensembl:ENSG00000148737
<i>TGFB1</i>	19	41836228	41859827	Ensembl:ENSG00000105329
<i>TGFB2</i>	1	218518678	218617961	Ensembl:ENSG00000092969
<i>TGFB3</i>	14	76424440	76449354	Ensembl:ENSG00000119699
<i>TGFBR1</i>	9	101867395	101916474	Ensembl:ENSG00000106799
<i>TGFBR2</i>	3	30647994	30735634	Ensembl:ENSG00000163513
<i>TP53</i>	17	7571739	7590808	Ensembl:ENSG00000141510
