

Targeted Gene Regions Interrogated by Solid Tumor Targeted Cancer Gene Panel by Next Generation Sequencing

Gene	GenBank Accession Number	Nucleotide Start*	Nucleotide End
<i>ABL1</i>	NM_005157.4	133738295	133738378
<i>ABL1</i>	NM_005157.4	133747511	133747530
<i>ABL1</i>	NM_005157.4	133748280	133748417
<i>ABL1</i>	NM_005157.4	133750308	133750405
<i>AKT1</i>	NM_005163.2	105241434	105241519
<i>AKT1</i>	NM_005163.2	105246446	105246558
<i>ALK</i>	NM_004304.4	29432647	29432680
<i>ALK</i>	NM_004304.4	29443608	29443706
<i>APC</i>	NM_001127511.2	112173872	112173962
<i>APC</i>	NM_001127511.2	112174558	112174666
<i>APC</i>	NM_001127511.2	112175144	112175268
<i>APC</i>	NM_001127511.2	112175316	112175443
<i>APC</i>	NM_001127511.2	112175568	112175703
<i>APC</i>	NM_001127511.2	112175741	112175862
<i>APC</i>	NM_001127511.2	112175921	112176035
<i>ATM</i>	NM_000051.3	108117766	108117859
<i>ATM</i>	NM_000051.3	108119816	108119834
<i>ATM</i>	NM_000051.3	108123539	108123618
<i>ATM</i>	NM_000051.3	108137932	108138025
<i>ATM</i>	NM_000051.3	108155084	108155180
<i>ATM</i>	NM_000051.3	108170457	108170556
<i>ATM</i>	NM_000051.3	108172370	108172467
<i>ATM</i>	NM_000051.3	108173631	108173703
<i>ATM</i>	NM_000051.3	108180903	108180960
<i>ATM</i>	NM_000051.3	108200936	108200993
<i>ATM</i>	NM_000051.3	108205732	108205816
<i>ATM</i>	NM_000051.3	108206567	108206628
<i>ATM</i>	NM_000051.3	108218016	108218097
<i>ATM</i>	NM_000051.3	108225550	108225606
<i>ATM</i>	NM_000051.3	108236047	108236140
<i>ATM</i>	NM_000051.3	108236187	108236240
<i>BRAF</i>	NM_004333.4	140453103	140453198
<i>BRAF</i>	NM_004333.4	140481392	140481498

Gene	GenBank Accession Number	Nucleotide Start*	Nucleotide End
<i>CDH1</i>	NM_004360.3	68835603	68835697
<i>CDH1</i>	NM_004360.3	68846033	68846151
<i>CDH1</i>	NM_004360.3	68847211	68847302
<i>CDKN2A</i>	NM_000077.4	21970941	21971066
<i>CDKN2A</i>	NM_000077.4	21971091	21971212
<i>CSF1R</i>	NM_005211.3	149433627	149433692
<i>CSF1R</i>	NM_005211.3	149452992	149453061
<i>CTNNB1</i>	NM_001904.3	41266030	41266147
<i>EGFR</i>	NM_005228.3	55211045	55211126
<i>EGFR</i>	NM_005228.3	55221793	55221850
<i>EGFR</i>	NM_005228.3	55232968	55233053
<i>EGFR</i>	NM_005228.3	55241636	55241729
<i>EGFR</i>	NM_005228.3	55242412	55242518
<i>EGFR</i>	NM_005228.3	55248981	55249090
<i>EGFR</i>	NM_005228.3	55249123	55249176
<i>EGFR</i>	NM_005228.3	55259508	55259572
<i>ERBB2</i>	NM_004448.2	37880213	37880268
<i>ERBB2</i>	NM_004448.2	37880974	37881061
<i>ERBB2</i>	NM_004448.2	37881325	37881453
<i>ERBB4</i>	NM_005235.2	212288905	212288990
<i>ERBB4</i>	NM_005235.2	212530052	212530180
<i>ERBB4</i>	NM_005235.2	212576800	212576906
<i>ERBB4</i>	NM_005235.2	212578289	212578378
<i>ERBB4</i>	NM_005235.2	212587134	212587239
<i>ERBB4</i>	NM_005235.2	212589796	212589867
<i>ERBB4</i>	NM_005235.2	212652745	212652806
<i>ERBB4</i>	NM_005235.2	212812150	212812169
<i>EZH2</i>	NM_004456.4	148508712	148508791
<i>FBXW7</i>	NM_033632.3	153245411	153245492
<i>FBXW7</i>	NM_033632.3	153247278	153247369
<i>FBXW7</i>	NM_033632.3	153249356	153249477
<i>FBXW7</i>	NM_033632.3	153250853	153250926
<i>FBXW7</i>	NM_033632.3	153258949	153259023
<i>FGFR1</i>	NM_023110.2	38282141	38282222
<i>FGFR1</i>	NM_023110.2	38285859	38285958
<i>FGFR2</i>	NM_000141.4	123258004	123258045
<i>FGFR2</i>	NM_000141.4	123274722	123274835
<i>FGFR2</i>	NM_000141.4	123279488	123279544

Gene	GenBank Accession Number	Nucleotide Start*	Nucleotide End
<i>FGFR2</i>	NM_000141.4	123279608	123279688
<i>FGFR3</i>	NM_000142.4	1803557	1803653
<i>FGFR3</i>	NM_000142.4	1806082	1806187
<i>FGFR3</i>	NM_000142.4	1807834	1807905
<i>FGFR3</i>	NM_000142.4	1808312	1808399
<i>FGFR3</i>	NM_000142.4	1808882	1808994
<i>FLT3</i>	NM_004119.2	28592599	28592663
<i>FLT3</i>	NM_004119.2	28602310	28602379
<i>FLT3</i>	NM_004119.2	28608228	28608348
<i>FLT3</i>	NM_004119.2	28610094	28610184
<i>GNA11</i>	NM_002067.2	3118917	3118973
<i>GNAQ</i>	NM_002072.3	80409376	80409498
<i>GNAS</i>	NM_000516.4	57484400	57484483
<i>GNAS</i>	NM_000516.4	57484571	57484639
<i>HNF1A</i>	NM_000545.5	121431372	121431459
<i>HNF1A</i>	NM_000545.5	121432011	121432099
<i>HRAS</i>	NM_005343.2	533813	533930
<i>HRAS</i>	NM_005343.2	534221	534308
<i>IDH1</i>	NM_005896.3	209113104	209113206
<i>IDH2</i>	NM_002168.2	90631825	90631954
<i>JAK2</i>	NM_004972.3	5073730	5073790
<i>JAK3</i>	NM_000215.3	17945656	17945734
<i>JAK3</i>	NM_000215.3	17947987	17948027
<i>JAK3</i>	NM_000215.3	17954184	17954225
<i>KDR</i>	NM_002253.2	55946103	55946208
<i>KDR</i>	NM_002253.2	55946251	55946335
<i>KDR</i>	NM_002253.2	55953776	55953860
<i>KDR</i>	NM_002253.2	55955079	55955145
<i>KDR</i>	NM_002253.2	55960977	55961059
<i>KDR</i>	NM_002253.2	55962445	55962514
<i>KDR</i>	NM_002253.2	55972953	55972982
<i>KDR</i>	NM_002253.2	55979575	55979653
<i>KDR</i>	NM_002253.2	55980288	55980359
<i>KIT</i>	NM_000222.2	55561673	55561784
<i>KIT</i>	NM_000222.2	55592158	55592221
<i>KIT</i>	NM_000222.2	55593418	55593495
<i>KIT</i>	NM_000222.2	55593577	55593695

Gene	GenBank Accession Number	Nucleotide Start*	Nucleotide End
<i>KIT</i>	NM_000222.2	55594172	55594279
<i>KIT</i>	NM_000222.2	55595497	55595562
<i>KIT</i>	NM_000222.2	55597489	55597524
<i>KIT</i>	NM_000222.2	55599281	55599358
<i>KIT</i>	NM_000222.2	55602674	55602751
<i>KRAS</i>	NM_033360.3	25378550	25378658
<i>KRAS</i>	NM_033360.3	25380261	25380351
<i>KRAS</i>	NM_033360.3	25398203	25398304
<i>MET</i>	NM_001127500.1	116339616	116339701
<i>MET</i>	NM_001127500.1	116340156	116340270
<i>MET</i>	NM_001127500.1	116403132	116403251
<i>MET</i>	NM_001127500.1	116411898	116411997
<i>MET</i>	NM_001127500.1	116417438	116417528
<i>MET</i>	NM_001127500.1	116423408	116423492
<i>MLH1</i>	NM_000249.3	37067208	37067333
<i>MPL</i>	NM_005373.2	43814969	43815035
<i>NOTCH1</i>	NM_017617.3	139390765	139390885
<i>NOTCH1</i>	NM_017617.3	139397763	139397787
<i>NOTCH1</i>	NM_017617.3	139399338	139399447
<i>NPM1</i>	NM_002520.6	170837526	170837574
<i>NRAS</i>	NM_002524.4	115252186	115252269
<i>NRAS</i>	NM_002524.4	115256505	115256584
<i>NRAS</i>	NM_002524.4	115258690	115258774
<i>PDGFRA</i>	NM_006206.4	55141003	55141103
<i>PDGFRA</i>	NM_006206.4	55144102	55144178
<i>PDGFRA</i>	NM_006206.4	55144539	55144653
<i>PDGFRA</i>	NM_006206.4	55152025	55152135
<i>PIK3CA</i>	NM_006218.2	178916776	178916881
<i>PIK3CA</i>	NM_006218.2	178916932	178916970
<i>PIK3CA</i>	NM_006218.2	178921465	178921570
<i>PIK3CA</i>	NM_006218.2	178927406	178927493
<i>PIK3CA</i>	NM_006218.2	178927969	178927986
<i>PIK3CA</i>	NM_006218.2	178928070	178928131
<i>PIK3CA</i>	NM_006218.2	178936024	178936105
<i>PIK3CA</i>	NM_006218.2	178938788	178938918
<i>PIK3CA</i>	NM_006218.2	178947819	178947896
<i>PIK3CA</i>	NM_006218.2	178951997	178952097
<i>PIK3CA</i>	NM_006218.2	178952141	178952237

Gene	GenBank Accession Number	Nucleotide Start*	Nucleotide End
<i>PTEN</i>	NM_000314.4	89624222	89624300
<i>PTEN</i>	NM_000314.4	89685265	89685319
<i>PTEN</i>	NM_000314.4	89692814	89692920
<i>PTEN</i>	NM_000314.4	89711870	89711932
<i>PTEN</i>	NM_000314.4	89717605	89717620
<i>PTEN</i>	NM_000314.4	89717667	89717780
<i>PTEN</i>	NM_000314.4	89720785	89720880
<i>PTPN11</i>	NM_002834.3	112888119	112888228
<i>PTPN11</i>	NM_002834.3	112926836	112926961
<i>RB1</i>	NM_000321.2	48919224	48919312
<i>RB1</i>	NM_000321.2	48923140	48923164
<i>RB1</i>	NM_000321.2	48941625	48941724
<i>RB1</i>	NM_000321.2	48942658	48942711
<i>RB1</i>	NM_000321.2	48953754	48953791
<i>RB1</i>	NM_000321.2	48955526	48955584
<i>RB1</i>	NM_000321.2	49027124	49027178
<i>RB1</i>	NM_000321.2	49033828	49033934
<i>RB1</i>	NM_000321.2	49037862	49037932
<i>RB1</i>	NM_000321.2	49039150	49039232
<i>RET</i>	NM_020975.4	43609067	43609128
<i>RET</i>	NM_020975.4	43609923	43610010
<i>RET</i>	NM_020975.4	43613816	43613893
<i>RET</i>	NM_020975.4	43615547	43615656
<i>RET</i>	NM_020975.4	43617389	43617433
<i>SMAD4</i>	NM_005359.5	48575100	48575213
<i>SMAD4</i>	NM_005359.5	48575660	48575677
<i>SMAD4</i>	NM_005359.5	48581191	48581302
<i>SMAD4</i>	NM_005359.5	48584552	48584619
<i>SMAD4</i>	NM_005359.5	48586252	48586291
<i>SMAD4</i>	NM_005359.5	48591815	48591931
<i>SMAD4</i>	NM_005359.5	48593400	48593519
<i>SMAD4</i>	NM_005359.5	48603029	48603119
<i>SMAD4</i>	NM_005359.5	48604659	48604774
<i>SMARCB1</i>	NM_003073.3	24133954	24134064
<i>SMARCB1</i>	NM_003073.3	24143201	24143273
<i>SMARCB1</i>	NM_003073.3	24145478	24145598
<i>SMARCB1</i>	NM_003073.3	24176323	24176372
<i>SMO</i>	NM_005631.4	128845064	128845188

Gene	GenBank Accession Number	Nucleotide Start*	Nucleotide End
<i>SMO</i>	NM_005631.4	128845986	128846063
<i>SMO</i>	NM_005631.4	128846338	128846419
<i>SMO</i>	NM_005631.4	128850270	128850363
<i>SMO</i>	NM_005631.4	128851500	128851612
<i>SRC</i>	NM_005417.3	36031667	36031769
<i>STK11</i>	NM_000455.4	1206978	1207104
<i>STK11</i>	NM_000455.4	1220367	1220450
<i>STK11</i>	NM_000455.4	1220481	1220509
<i>STK11</i>	NM_000455.4	1220575	1220603
<i>STK11</i>	NM_000455.4	1221237	1221332
<i>STK11</i>	NM_000455.4	1223015	1223144
<i>TP53</i>	NM_000546.5	7573924	7574035
<i>TP53</i>	NM_000546.5	7577016	7577151
<i>TP53</i>	NM_000546.5	7577509	7577612
<i>TP53</i>	NM_000546.5	7578181	7578294
<i>TP53</i>	NM_000546.5	7578366	7578483
<i>TP53</i>	NM_000546.5	7578517	7578559
<i>TP53</i>	NM_000546.5	7579351	7579485
<i>TP53</i>	NM_000546.5	7579854	7579917
<i>VHL</i>	NM_000551.3	10183766	10183854
<i>VHL</i>	NM_000551.3	10188193	10188306
<i>VHL</i>	NM_000551.3	10191466	10191527

**Nucleotides do not include primer regions.*