



## Targeted Regions for Mutation Detection by Allina NGS Solid Tumor Assays\*

*\*See specific panels for genes included*

Gene	GenBank Reference Sequence	Genomic Nucleotide Start	Genomic Nucleotide End
AKT1	NM_001014431.1	105246445	105246583
ALK	NM_004304.4	29432654	29432735
		29436843	29436974
		29443572	29443702
		29445208	29445320
		29445379	29445483
AR	NM_000044.4	66941717	66941847
		66943517	66943592
BRAF	NM_004333.4	140453102	140453221
		140481364	140481457
CDK4	NM_000075.3	58145352	58145481
CTNNB1	NM_001904.3	41266029	41266147
DDR2	NM_006182.2	162724505	162724631
EGFR	NM_005228.4	55211044	55211126
		55221792	55221919
		55227950	55228057
		55232962	55233053
		55241635	55241729
		55242411	55242540
		55248974	55249100
		55259420	55259538
ERBB2	NM_004448.3	37868125	37868259
		37879607	37879696
		37879812	37879913
		37880212	37880340
		37880953	37881061
		37881324	37881453
		37881519	37881644
ERBB3	NM_001982.3	56477589	56477705
		56478803	56478904
		56481567	56481698
		56482290	56482388
		56482527	56482652
ERBB4	NM_005235.2	212488707	212488800
ESR1	NM_001122740.1	152419909	152420029
FGFR2	NM_000141.4	123247504	123247600
		123257952	123258045
		123274721	123274835
		123276872	123276983
		123279607	123279713

FGFR3	NM_000142.4	1803551	1803653
		1806081	1806187
		1807833	1807930
		1808311	1808399
GNA11	NM_002067.4	3114966	3115104
		3118881	3118973
GNAQ	NM_002072.4	80409375	80409498
		80412453	80412545
HRAS	NM_001130442.2	533812	533930
		534246	534351
IDH1	NM_005896.3	209113103	209113206
IDH2	NM_002168.3	90631824	90631954
JAK1	NM_002227.3	65310459	65310574
		65311174	65311257
		65312275	65312407
JAK2	NM_004972.3	5073729	5073857
JAK3	NM_000215.3	17945893	17946019
		17948739	17948872
		17949117	17949191
KIT	NM_000222.2	55589727	55589817
		55592157	55592246
		55593575	55593695
		55594170	55594279
		55599245	55599362
KRAS	NM_033360.3	25378549	25378658
		25380260	25380364
		25398186	25398304
MAP2K1	NM_002755.3	66727413	66727529
		66729107	66729226
		66774082	66774199
MAP2K2	NM_030662.3	4117517	4117645
MET	NM_001127500.2	116411956	116412073
		116417427	116417542
		116423407	116423492
MTOR	NM_004958.3	11174372	11174495
		11184541	11184658
		11188005	11188099
		11188156	11188282
		11189772	11189901
		11190766	11190898
		11217203	11217311
		11217203	11217311
NRAS	NM_002524.4	115252190	115252305
		115256504	115256584
		115258689	115258774
PDGFRA	NM_006206.5	55140981	55141103
		55144101	55144195
		55152024	55152154
PIK3CA	NM_006218.3	178916682	178916793
		178916847	178916953

		178921464	178921570
		178922252	178922365
		178927907	178928022
		178928069	178928160
		178936052	178936179
		178938831	178938960
		178947818	178947896
		178951996	178952097
RAF1	NM_002880.3	12632341	12632448
		12645647	12645734
RET	NM_020975.4	43609066	43609182
		43609874	43610010
		43613794	43613893
		43615546	43615687
		43617314	43617433
ROS1	NM_002944.2	117638332	117638444
		117641025	117641147
SMO	NM_005631.4	128845492	128845622
		128846337	128846419
		128849109	128849239
		128850269	128850363