

The following genomic regions have insufficient coverage to reliably detect single nucleotide variants/deletions-insertions variants due to poor sequencing performance or gene homology, and **will not be included** in the clinical report for this assay.

Genomic Build: GRCh37 (hg19)

Gene	Chromosome	Region	RefSeq Transcript	Excluded Regions	
				Start Coordinate	Stop Coordinate
ARID1A	chr1	5'UTR	NM_6015	27022892	27022894
MYCL	chr1	5'UTR	NM_1033081	40367427	40367562
NOTCH2	chr1	Exon 4	NM_24408	120539619	120539955
NOTCH2	chr1	Exon 3	NM_24408	120547951	120548211
NOTCH2	chr1	Exon 2	NM_24408	120572528	120572610
NOTCH2	chr1	Exon 1	NM_24408	120611947	120612020
CENPA	chr2	5'UTR	NM_1809	27009062	27009064
CENPA	chr2	Exon 1	NM_1809	27009064	27009166
EML4	chr2	Promoter	NM_1145076	42396487	42396492
REL	chr2	Exon 9	NM_2908	61147515	61147615
TMEM127	chr2	5'UTR	NM_1193304	96931119	96931121
RANBP2	chr2	Exon 8	NM_6267	109363164	109363256
RANBP2	chr2	Exon 13	NM_6267	109369451	109369617
BCL2L1	chr2	Exon 3	Alt_Transcript	111887708	111887812
PAX8	chr2	Exon 8	NM_3466	113994175	113994300
PPARG	chr3	Promoter	NM_138712	12329346	12329382
PPARG	chr3	5'UTR	NM_138712	12329382	12329521
FOXL2	chr3	5'UTR	NM_23067	138665564	138665566
SOX2	chr3	5'UTR	NM_3106	181430146	181430148
FGFR3	chr4	5'UTR	NM_142	1795659	1795661
EIF4E	chr4	3'UTR	NM_1968	99802176	99802178
FGF2	chr4	Exon 1	NM_206	123748152	123748238
NPM1	chr5	Exon 1	NM_2520	170814952	170815010
FLT4	chr5	5'UTR	NM_182925	180076545	180076547
MYB	chr6	5'UTR	NM_1161657	135502649	135502651
MYB	chr6	Exon 1	NM_1161657	135502651	135502676
PMS2	chr7	Exon 15	NM_535	6013029	6013173
PMS2	chr7	Exon 14	NM_535	6017218	6017280
PMS2	chr7	Exon 12	NM_535	6022454	6022622
PMS2	chr7	Exon 11	NM_535	6026389	6027251
PMS2	chr7	Exon 5	NM_535	6042083	6042102
PMS2	chr7	Exon 4	NM_535	6043320	6043423
PMS2	chr7	Exon 2	NM_1322007	6045522	6045662
MAGI2	chr7	3'UTR	NM_12301	77648629	77648631

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Excluded DNA Regions (continued)

Gene	Chromosome	Region	RefSeq Transcript	Excluded Regions	
				Start Coordinate	Stop Coordinate
<i>SMO</i>	chr7	Exon 1	NM_5631	128828992	128829070
<i>NKX3-1</i>	chr8	Exon 2	NM_1256339	23540114	23540146
<i>NKX3-1</i>	chr8	Exon 1	NM_1256339	23540367	23540402
<i>NKX3-1</i>	chr8	Promoter	NM_1256339	23540402	23540404
<i>ADGRA2</i>	chr8	5'UTR	NM_32777	37654784	37654786
<i>RECQL4</i>	chr8	Exon 1	NM_4260	145743082	145743168
<i>RECQL4</i>	chr8	5'UTR	NM_4260	145743168	145743170
<i>MLLT3</i>	chr9	Exon 5	NM_1286691	20414310	20414423
<i>GNAQ</i>	chr9	Exon 7	NM_2072	80336238	80336429
<i>TGFBR1</i>	chr9	Exon 1	NM_1130916	101867487	101867586
<i>ABL1</i>	chr9	Promoter	NM_5157	133710639	133710640
<i>NOTCH1</i>	chr9	Exon 1	NM_17617	139440175	139440238
<i>NOTCH1</i>	chr9	5'UTR	NM_17617	139440238	139440240
<i>KIF5B</i>	chr10	Promoter	NM_4521	32345353	32345373
<i>FGF8</i>	chr10	3'UTR	NM_1206389	103529892	103529906
<i>FGF8</i>	chr10	Exon 1	Alt_Transcript	103535625	103535657
<i>TCF7L2</i>	chr10	Exon 1	Alt_Transcript	114886637	114886640
<i>FGF4</i>	chr11	5'UTR	NM_2007	69589852	69589854
<i>FGF3</i>	chr11	5'UTR	NM_5247	69634099	69634184
<i>YAP1</i>	chr11	5'UTR	NM_6106	101981577	101981579
<i>SDHD</i>	chr11	Exon 4	Alt_Transcript	111963803	111963921
<i>FLT3</i>	chr13	5'UTR	NM_4119	28674647	28674649
<i>IRS2</i>	chr13	5'UTR	NM_3749	110438400	110438402
<i>RAD51</i>	chr15	Exon 4	Alt_Transcript	40994003	40994085
<i>RAD51</i>	chr15	Exon 4	NM_1164269	40994085	40994124
<i>FGF7</i>	chr15	Exon 3	NM_2009	49775347	49775451
<i>FGF7</i>	chr15	Exon 4	NM_2009	49776506	49776701
<i>MAP2K1</i>	chr15	Exon 5	NM_2755	66736993	66737045
<i>PDPK1</i>	chr16	5'UTR	NM_2613	2588111	2588113
<i>PDPK1</i>	chr16	Exon 1	NM_2613	2588113	2588139
<i>PDPK1</i>	chr16	Exon 3	NM_2613	2611478	2611525
<i>PDPK1</i>	chr16	Exon 4	NM_2613	2611769	2611911
<i>PDPK1</i>	chr16	Exon 5	NM_2613	2615551	2615700
<i>PDPK1</i>	chr16	Exon 6	NM_2613	2616354	2616456
<i>PDPK1</i>	chr16	Exon 8	NM_2613	2631293	2631366
<i>PDPK1</i>	chr16	Exon 9	NM_2613	2631605	2631706
<i>PDPK1</i>	chr16	Exon 10	NM_2613	2633410	2633588

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Excluded DNA Regions (continued)

Gene	Chromosome	Region	RefSeq Transcript	Excluded Regions	
				Start Coordinate	Stop Coordinate
<i>MAPK3</i>	chr16	5'UTR	NM_2746	30134530	30134532
<i>ANKRD11</i>	chr16	3'UTR	NM_1256182	89334883	89334885
<i>TP53</i>	chr17	3'UTR	NM_546	7572159	7572171
<i>MAP2K4</i>	chr17	5'UTR	NM_3010	11924201	11924203
<i>MAP2K4</i>	chr17	Exon 1	NM_3010	11924203	11924320
<i>NF1</i>	chr17	Exon 18	NM_1042492	29553452	29553702
<i>NF1</i>	chr17	Exon 21	NM_1042492	29556042	29556483
<i>SUZ12</i>	chr17	Exon 3	NM_1321207	30267438	30267507
<i>SUZ12</i>	chr17	Exon 5	NM_1321207	30300162	30300252
<i>STAT5B</i>	chr17	Exon 7	NM_12448	40371327	40371483
<i>STAT5A</i>	chr17	Exon 8	NM_3152	40452145	40452301
<i>MALT1</i>	chr18	Exon 1	NM_173844	56338875	56339086
<i>PTPRS</i>	chr19	Exon 12, Exon 15	Alt_Transcript	5229501	5229695
<i>INSR</i>	chr19	Exon 1	NM_1079817	7293800	7293902
<i>INSR</i>	chr19	5'UTR	NM_1079817	7293902	7293904
<i>NOTCH3</i>	chr19	Exon 1	NM_435	15311596	15311700
<i>NOTCH3</i>	chr19	Exon 1	NM_435	15311700	15311716
<i>PIK3R2</i>	chr19	Exon 6	NM_5027	18272086	18272307
<i>CEBPA</i>	chr19	Exon 1	NM_1287435	33792568	33792604
<i>CIC</i>	chr19	3'UTR	NM_15125	42799343	42799345
<i>BBC3</i>	chr19	Exon 2	NM_14417	47731412	47731688
<i>BBC3</i>	chr19	5'UTR	NM_14417	47731688	47731705
<i>PTPRT</i>	chr20	Exon 1	NM_133170	41818283	41818373
<i>PTPRT</i>	chr20	5'UTR	NM_133170	41818373	41818375
<i>GNAS</i>	chr20	Promoter	NM_516	57466423	57466475
<i>GNAS</i>	chr20	5'UTR	NM_516	57466475	57466726
<i>RUNX1</i>	chr21	3'UTR	NM_1001890	36164429	36164431
<i>TMPRSS2</i>	chr21	Promoter	NM_5656	42880085	42880087
<i>ICOSLG</i>	chr21	Exon 1	NM_15259	45660684	45660700
<i>ICOSLG</i>	chr21	5'UTR	NM_15259	45660700	45660702
<i>MAPK1</i>	chr22	5'UTR	NM_138957	22221730	22221732