



The following applies to POLET / *POLE* Mutation Analysis, Next-Generation Sequencing. Next-generation sequencing (NGS) is performed to test for the presence of single nucleotide variations, deletions and insertions in coding regions and intron/exon boundaries of the genes listed. When appropriate, alterations detected are confirmed by an independent reference method, such as Sanger sequencing. Default reportable range offset is +/-2 base pairs around each targeted exon region.

As a result of technical limitations of the assay (including regions of homology, high GC content, and repetitive sequences), there are regions of some genes that cannot be effectively evaluated. Refer to gene regions table below for complete gene coverage information. To verify if a specific region/exon/variant is covered by this assay, contact the laboratory at 800-533-1710.

Genomic Build: GRCh37 (hg19) unless otherwise specified.

Gene	Exon	Chromosome	Genomic Start	Genomic End	Transcript
<i>POLE</i>	Ex1	chr12	133263838	133263903	NM_006231
<i>POLE</i>	Ex2	chr12	133257722	133257867	NM_006231
<i>POLE</i>	Ex3	chr12	133257191	133257275	NM_006231
<i>POLE</i>	Ex4	chr12	133256762	133256810	NM_006231
<i>POLE</i>	Ex5	chr12	133256538	133256634	NM_006231
<i>POLE</i>	Ex6	chr12	133256081	133256239	NM_006231
<i>POLE</i>	Ex7	chr12	133254162	133254307	NM_006231
<i>POLE</i>	Ex8	chr12	133253947	133254031	NM_006231
<i>POLE</i>	Ex9	chr12	133253130	133253241	NM_006231
<i>POLE</i>	Ex10	chr12	133252678	133252792	NM_006231
<i>POLE</i>	Ex11	chr12	133252319	133252408	NM_006231
<i>POLE</i>	Ex12	chr12	133251982	133252105	NM_006231
<i>POLE</i>	Ex13	chr12	133250159	133250295	NM_006231
<i>POLE</i>	Ex14	chr12	133249748	133249865	NM_006231
<i>POLE</i>	Ex15	chr12	133249211	133249427	NM_006231
<i>POLE</i>	Ex16	chr12	133248799	133248910	NM_006231
<i>POLE</i>	Ex17	chr12	133245395	133245527	NM_006231
<i>POLE</i>	Ex18	chr12	133245219	133245325	NM_006231
<i>POLE</i>	Ex19	chr12	133244940	133245090	NM_006231
<i>POLE</i>	Ex20	chr12	133244087	133244236	NM_006231
<i>POLE</i>	Ex21	chr12	133241886	133242038	NM_006231
<i>POLE</i>	Ex22	chr12	133240954	133241050	NM_006231
<i>POLE</i>	Ex23	chr12	133240588	133240736	NM_006231
<i>POLE</i>	Ex24	chr12	133238111	133238272	NM_006231
<i>POLE</i>	Ex25	chr12	133237553	133237752	NM_006231
<i>POLE</i>	Ex26	chr12	133235879	133236097	NM_006231
<i>POLE</i>	Ex27	chr12	133234452	133234558	NM_006231

Targeted Genes and Methodology Details

for POLE Mutation Analysis (continued)

Gene	Exon	Chromosome	Genomic Start	Genomic End	Transcript
POLE	Ex28	chr12	133233933	133234017	NM_006231
POLE	Ex29	chr12	133233720	133233846	NM_006231
POLE	Ex30	chr12	133226261	133226477	NM_006231
POLE	Ex31	chr12	133225890	133226103	NM_006231
POLE	Ex32	chr12	133225513	133225660	NM_006231
POLE	Ex33	chr12	133220421	133220565	NM_006231
POLE	Ex34	chr12	133219991	133220148	NM_006231
POLE	Ex35	chr12	133219808	133219918	NM_006231
POLE	Ex36	chr12	133219404	133219584	NM_006231
POLE	Ex37	chr12	133219090	133219317	NM_006231
POLE	Ex38	chr12	133218761	133218985	NM_006231
POLE	Ex39	chr12	133218231	133218439	NM_006231
POLE	Ex40	chr12	133215709	133215886	NM_006231
POLE	Ex41	chr12	133214598	133214727	NM_006231
POLE	Ex42	chr12	133212476	133212612	NM_006231
POLE	Ex43	chr12	133210770	133210966	NM_006231
POLE	Ex44	chr12	133209248	133209383	NM_006231
POLE	Ex45	chr12	133208899	133209096	NM_006231
POLE	Ex46	chr12	133202701	133202905	NM_006231
POLE	Ex47	chr12	133202229	133202358	NM_006231
POLE	Ex48	chr12	133201489	133201582	NM_006231
POLE	Ex49	chr12	133201281	133201398	NM_006231