

OncoNext Liquid™ Lung

Investigated genes

ALK, BRAF, EGFR, ERBB2, KRAS, MAP2K1, MET, NRAS, PIK3CA, ROS1, TP53

Hotspot mutations detected by OncoNext Liquid™ Lung

GENE	MUTATION	COSMIC ID	Chromosome	HG19_coordinates (start-end)	
ALK	p.R1275L	COSM28060	chr2	29432663	29432664
ALK	p.R1275Q	COSM28056	chr2	29432663	29432664
ALK	p.F1245L	COSM28062	chr2	29436857	29436858
ALK	p.F1245L	COSM28493	chr2	29436857	29436858
ALK	p.F1245C	COSM28500	chr2	29436858	29436859
ALK	p.F1245I	COSM28492	chr2	29436859	29436860
ALK	p.F1245V	COSM28499	chr2	29436859	29436860
ALK	p.L1196Q	COSM1169447	chr2	29443629	29443630
ALK	p.L1196M	COSM99137	chr2	29443630	29443631
ALK	p.V1180L	COSM4381101	chr2	29443678	29443679
ALK	p.F1174L	COSM28055	chr2	29443694	29443695
ALK	p.F1174L	COSM28061	chr2	29443694	29443695
ALK	p.F1174C	COSM28059	chr2	29443695	29443696
ALK	p.F1174S	COSM53063	chr2	29443695	29443696
ALK	p.F1174I	COSM28491	chr2	29443696	29443697
ALK	p.F1174V	COSM28054	chr2	29443696	29443697
ALK	p.F1174L	COSM28057	chr2	29443696	29443697
ALK	p.I1171N	COSM1169448	chr2	29445211	29445213
ALK	p.I1171N	COSM28498	chr2	29445212	29445213
ALK	p.I1171T	COSM4381100	chr2	29445212	29445213
ALK	p.C1156Y	COSM99136	chr2	29445257	29445258
ALK	p.L1152P	COSM1407659	chr2	29445269	29445270
ALK	p.L1152R	COSM97185	chr2	29445269	29445270
ALK	p.T1151_L1152insT	COSM144252	chr2	29445271	29445271
ALK	p.G1128A	COSM98475	chr2	29445449	29445450
BRAF	p.V600E	COSM476	chr7	140453135	140453136
BRAF	p.G469V	COSM459	chr7	140481401	140481402
BRAF	p.G466V	COSM451	chr7	140481410	140481411
BRAF	p.Y472C	COSM1133046	chr7	140481392	140481393
BRAF	p.L597V	COSM470	chr7	140453145	140453146
BRAF	p.G469A	COSM460	chr7	140481401	140481402
BRAF	p.Gly469Leu	COSM1548505	chr7	140481401	140481403
EGFR	p.E709K	COSM12988	chr7	55241676	55241677
EGFR	p.E709A	COSM13427	chr7	55241677	55241678
EGFR	p.G719C	COSM6253	chr7	55241706	55241707
EGFR	p.G719S	COSM6252	chr7	55241706	55241707
EGFR	p.G719A	COSM6239	chr7	55241707	55241708
EGFR	p.K745_E746insIPV AIK	COSM51504	chr7	55242464	55242464
EGFR	p.E746_A750delELR EA	COSM6223	chr7	55242464	55242479
EGFR	p.E746_A750delELR EA	COSM6225	chr7	55242465	55242480
EGFR	p.E746_T751A	COSM12678	chr7	55242466	55242481
EGFR	p.E746_S752V	COSM12384	chr7	55242466	55242485

EGFR	p.L747_E749delLRE	COSM6218	chr7	55242468	55242477
EGFR	p.L747_A750P	COSM12382	chr7	55242468	55242478
EGFR	p.L747_T751P	COSM12383	chr7	55242468	55242481
EGFR	p.L747_S752delLRE ATS	COSM6255	chr7	55242468	55242486
EGFR	p.L747_T751delLRE AT	COSM12369	chr7	55242469	55242484
EGFR	p.L747_P753S	COSM12370	chr7	55242469	55242487
EGFR	p.S768I	COSM6241	chr7	55249004	55249005
EGFR	SYS_ERR	SYS_ERR	chr7	55249005	55249005
EGFR	p.V769_D770insAS V	COSM12376	chr7	55249009	55249009
EGFR	p.D770_N771insSV D	COSM13428	chr7	55249013	55249013
EGFR	p.H773_V774insH	COSM12377	chr7	55249021	55249021
EGFR	p.H773_V774insNP H	COSM12381	chr7	55249021	55249021
EGFR	p.T790M	COSM6240	chr7	55249070	55249071
EGFR	p.C797S	COSM2741500	chr7	55249091	55249092
EGFR	p.E709_T710>D	COSM51525	chr7	55241678	55241681
EGFR	p.E709_T710>A	COSM85796	chr7	55241677	55241680
EGFR	p.E709_T710>G	COSM48981	chr7	55241677	55241681
EGFR	p.E709H	COSM12428	chr7	55241676	55241679
EGFR	p.E709G	COSM13009	chr7	55241677	55241678
EGFR	p.E709V	COSM12371	chr7	55241677	55241678
EGFR	p.G719D	COSM18425	chr7	55241707	55241708
EGFR	p.H835L	COSM6227	chr7	55259445	55259446
EGFR	SYS_ERR	SYS_ERR	chr7	55259445	55259447
EGFR	p.P848L	COSM22943	chr7	55259484	55259485
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EGFR	p.L858R	COSM6224	chr7	55259514	55259515
EGFR	p.L861Q	COSM6213	chr7	55259523	55259524
ERBB2	p.A775_G776insYV MA	COSM20959	chr17	37880995	37880995
KRAS	p.Q61H	COSM554	chr12	25380274	25380275
KRAS	p.Q61R	COSM552	chr12	25380275	25380276
KRAS	p.Q61L	COSM553	chr12	25380275	25380276
KRAS	p.G13D	COSM532	chr12	25398280	25398281
KRAS	p.G13C	COSM527	chr12	25398281	25398282
KRAS	p.G12V	COSM520	chr12	25398283	25398284
KRAS	p.G12D	COSM521	chr12	25398283	25398284
KRAS	p.G12A	COSM522	chr12	25398283	25398284
KRAS	p.G12F	COSM512	chr12	25398283	25398285
KRAS	p.G12C	COSM516	chr12	25398284	25398285
KRAS	p.G12S	COSM517	chr12	25398284	25398285
KRAS	p.G12R	COSM518	chr12	25398284	25398285
MAP2K 1	p.F53I	COSM3503329	chr15	66727440	66727441
MAP2K 1	p.F53L	COSM555604	chr15	66727440	66727441
MAP2K 1	p.F53L	COSM1562837	chr15	66727441	66727442
MAP2K 1	p.F53L	COSM1725008	chr15	66727442	66727443

MAP2K1	p.K57Q	OM3155	chr15	66727452	66727453
MAP2K1	p.Q56P	COSM1235481	chr15	66727450	66727451
MAP2K1	p.K57T	COSM4756761	chr15	66727453	66727454
MAP2K1	p.Lys57Asn	COSM1235478	chr15	66727454	66727455
MAP2K1	p.P124S	COSM235614	chr15	66729161	66729162
MAP2K1	p.P124Q	COSM1167912	chr15	66729162	66729163
MAP2K1	p.P124L	COSM1315861	chr15	66729162	66729163
MAP2K1	p.E203K	COSM232755	chr15	66774130	66774131
MAP2K1	p.E203V	COSM3386991	chr15	66774131	66774132
MET	p.T1010I	COSM707	chr7	116411989	116411990
MET	p.Y1021N	COSM48564	chr7	116412021	116412022
MET	p.Y1021F	COSM339515	chr7	116412022	116412023
MET	SYS_ERR	SYS_ERR	chr7	116412043	116412045
MET	NA	COSM24687	chr7	116412043	116412044
MET	NA	COSM29633	chr7	116412043	116412044
MET	NA	COSM35468	chr7	116412044	116412045
MET	p.H1112Y	COSM696	chr7	116417462	116417463
MET	p.H1112L	COSM698	chr7	116417463	116417464
MET	p.H1112R	COSM703	chr7	116417463	116417464
MET	p.Y1248H	COSM690	chr7	116423412	116423413
MET	p.Y1248C	COSM699	chr7	116423413	116423414
MET	p.Y1253N	COSM1447477	chr7	116423427	116423428
MET	p.Y1253H	COSM598581	chr7	116423427	116423428
MET	p.Y1253D	COSM700	chr7	116423427	116423428
MET	p.M1268V	COSM1568673	chr7	116423472	116423473
MET	p.M1268T	COSM691	chr7	116423473	116423474
MET	p.M1268I	COSM694	chr7	116423474	116423475
NRAS	p.Q61L	COSM583	chr1	115256528	115256529
NRAS	p.Q61K	NA	chr1	115256529	115256530
NRAS	p.A59T	NA	chr1	115256535	115256536
NRAS	p.G13V	COSM572	chr1	115258742	115258744
NRAS	p.G13D	COSM573	chr1	115258743	115258744
NRAS	SYS_ERR	SYS_ERR	chr1	115258746	115258747
NRAS	p.G13Y	COSM568	chr1	115258743	115258745
NRAS	p.G13V	COSM574	chr1	115258743	115258744
NRAS	p.G13A	COSM575	chr1	115258743	115258744
NRAS	p.G13N	COSM24668	chr1	115258743	115258745
NRAS	p.G13R	COSM569	chr1	115258744	115258745
NRAS	p.G13C	COSM570	chr1	115258744	115258745
NRAS	p.G13S	COSM571	chr1	115258744	115258745
NRAS	p.G12E	COSM144577	chr1	115258745	115258747
NRAS	p.G12D	COSM564	chr1	115258746	115258747
NRAS	p.G12P	COSM559	chr1	115258746	115258748
NRAS	p.G12Y	COSM560	chr1	115258746	115258748
NRAS	p.G12A	COSM565	chr1	115258746	115258747
NRAS	p.G12V	COSM566	chr1	115258746	115258747
NRAS	p.G12N	COSM12723	chr1	115258746	115258748

NRAS	p.G12R	COSM561	chr1	115258747	115258748
NRAS	p.G12C	COSM562	chr1	115258747	115258748
NRAS	p.G12S	COSM563	chr1	115258747	115258748
PIK3CA	p.E542K	COSM760	chr3	178936081	178936082
PIK3CA	p.E545K	COSM763	chr3	178936090	178936091
PIK3CA	p.H1047R	COSM775	chr3	178952084	178952085
ROS1	p.L1951M	COSM1072521	chr6	117641119	117641120
TP53	p.R337L	COSM11411	chr17	7574016	7574017
TP53	p.R283P	COSM10743	chr17	7577089	7577090
TP53	p.R282W	COSM10704	chr17	7577093	7577094
TP53	p.R280I	COSM11287	chr17	7577098	7577099
TP53	p.C277F	COSM10749	chr17	7577107	7577108
TP53	p.R273H	COSM10660	chr17	7577119	7577120
TP53	p.R273L	COSM10779	chr17	7577119	7577120
TP53	p.R273P	COSM43896	chr17	7577119	7577120
TP53	p.R273C	COSM10659	chr17	7577120	7577121
TP53	p.R249S	COSM10785	chr17	7577533	7577534
TP53	p.R249S	COSM10817	chr17	7577533	7577534
TP53	p.R249M	COSM43871	chr17	7577534	7577535
TP53	p.R248Q	COSM10662	chr17	7577537	7577538
TP53	p.R248L	COSM6549	chr17	7577537	7577538
TP53	p.R248W	COSM10656	chr17	7577538	7577539
TP53	p.G245V	COSM11196	chr17	7577546	7577547
TP53	p.G245C	COSM11081	chr17	7577547	7577548
TP53	p.C242F	COSM10810	chr17	7577555	7577556
TP53	p.M237I	COSM10834	chr17	7577569	7577570
TP53	p.Y234C	COSM10725	chr17	7577579	7577580
TP53	p.Y220C	COSM10758	chr17	7578189	7578190
TP53	p.H214R	COSM43687	chr17	7578207	7578208
TP53	p.Y205C	COSM43947	chr17	7578234	7578235
TP53	p.H179R	COSM10889	chr17	7578393	7578394
TP53	p.C176F	COSM10645	chr17	7578402	7578403
TP53	p.C176Y	COSM10687	chr17	7578402	7578403
TP53	p.R175H	COSM10648	chr17	7578405	7578406
TP53	p.V173L	COSM43559	chr17	7578412	7578413
TP53	p.Y163C	COSM10808	chr17	7578441	7578442
TP53	p.A159V	COSM11148	chr17	7578453	7578454
TP53	p.R158L	COSM10714	chr17	7578456	7578457
TP53	p.V157F	COSM10670	chr17	7578460	7578461
TP53	p.G154V	COSM6815	chr17	7578468	7578469
TP53	p.T125T	COSM45940	chr17	7579311	7579312