

OncoNext Liquid™ Lung

Geni investigati

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

Mutazioni hotspot ricercate nel test 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_E746insIPVA IK | 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 |

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|--------------------|--------------------------|-------------|-------|----------|----------|
| 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_T751 delLRE 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_D770insASV | COSM12376 | chr7 | 55249009 | 55249009 |
| EGFR | p.D770_N771insSVD | COSM13428 | chr7 | 55249013 | 55249013 |
| EGFR | p.H773_V774insH | COSM12377 | chr7 | 55249021 | 55249021 |
| EGFR | p.H773_V774insNPH | 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 |
| EGFR | SYS_ERR | SYS_ERR | chr7 | 55259484 | 55259485 |
| EGFR | SYS_ERR | SYS_ERR | chr7 | 55259484 | 55259485 |
| EGFR | SYS_ERR | SYS_ERR | chr7 | 55259484 | 55259485 |
| 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 |
| MAP2K 1 | p.K57Q | OM3155 | chr15 | 66727452 | 66727453 |
| MAP2K | p.Q56P | COSM1235481 | chr15 | 66727450 | 66727451 |

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|---------------|------------|-------------|-------|-----------|-----------|--|
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| 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 | |

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|---------------|----------|-------------|-------|-----------|-----------|
| 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 |