

Variant List – UltraSEEK® Lung Panel v2

Gene	Nucleotide Change	Amino Acid Change	COSMIC ID	Genomic Mutation ID
BRAF	c.1406G>T/ c.1406G>C	p.G469V/ p.G469A	459/ 460	COSV56062352/ COSV56061424
	c.1781A>G	p.D594G	467	COSV56065695
	c.1799T>A	p.V600E	476	COSV56056643
	c.2125G>A	p.E709K	12988	COSV51767260
EGFR	c.2126A>C	p.E709A	13427	COSV51772956
	c.2126A>C/ c.2126A>T	p.E709A/ p.E709V	13427/ 12371	COSV51772956/ COSV51766584
	c.2126A>G	p.E709G	13009	COSV51765252
	c.2155G>A	p.G719S	6252	COSV51767289
	c.2155G>T	p.G719C	6253	COSV51766606
	c.2156G>C	p.G719A	6239	COSV51769339
	c.2235_2249del(15)GGAATTAAGAGAAGC	p.E746_A750del	6223	COSV51765119
	c.2236_2250del(15)GAATTAAGAGAAGCA/ c.2236_2253del(18)GAATTAAGAGAAGCAACA/ c.2236_2256del	p.E746_A750del/ p.AE746_T751del/ E746_S752del	6225/ 12728/ 133189	COSV51765066/ COSV51811139/ COSV51784835
	c.2237_2251del(15)AATTAAGAGAAGCAA/ c.2237_2252>T/ c.2237_2253>TTCCT/ c.2237_2253>TTGCT/ c.2237_2254del(18)AATTAAGAGAAGCAACAT/ c.2237_2255>T/ c.2237_2257>TCT	p.E746_T751delinsA/ p.E746_T751>V/ p.E746_T751>VP/ p.E746_T751>VA/ p.E746_S752>A/ p.E746_S752>V/ p.E746_P753>VS	12678/ 12386/ 52935/ 12416/ 12367/ 12384/ 18427	COSV51769364/ COSV51775936/ COSV51826919/ COSV51771891/ COSV51769704/ COSV51765862/ COSV51781339
	c.2238_2255del(18)ATTAAGAGAAGCAACATC	p.E746_S752>D	6220	COSV51772418
	c.2239_2240T>CC/ c.2239_2247del/ c.2239_2248TTAAGAGAAG>C/ c.2239_2250del/ c.2239_2251TTAAGAGAAGCAA>C/ c.2239_2252>CA/ c.2239_2256del/c.2239_2256>CAA/ c.2239_2258>CA	p.L747P/ p.L747_E749del/ p.L747_A750>P/ p.L747_T751>P/ p.L747_A750del/ p.L747_T751>Q/ p.L747_S752del/ p.L747_S752>Q/ p.L747_P753>Q	24267/ 6218/ 12382/ 12383/ 12420/ 12403/ 12387	COSV51782925/ COSV51780076/ COSV51765099/ COSV51765856/ COSV99289022/ COSV51767308/ COSV51778874/ COSV51785746
	c.2240T>C/ c.2240_2251del(12)TAAGAGAAGCAA/ c.2240_2254del(15)TAAGAGAAGCAACAT/ c.2240_2257del(18)TAAGAGAAGCAACATCTC	p.L747S/ p.L747_T751>S/ p.L747_T751del/ p.L747_P753>S	26704/ 6210/ 12369/ 12370	COSV51772009/ COSV51768180/ COSV51800510/ COSV51766247/ COSV51767961
	c.2245G>A	NA	NA	NA
	c.2247A>C	NA	NA	NA
	c.2248G>C/ c.2248_2273>CC	p.A750P/ p.A750_E758>P	6219/ 26440	COSV51830861/ COSV51793659
	c.2249C>A	p.A750E	3266633	COSV51789392
	c.2250_2264A>G	p.T751_A755	26718	COSV51772018
	c.2251A>C/c.2251A>G	p.T751A	9179905	COSV99289025
	c.2303G>T	p.S768I	6241	COSV51768106

Variant List – UltraSEEK Lung Panel v2 (PAGE 2 OF 2)

Gene	Nucleotide Change	Amino Acid Change	COSMIC ID	Genomic Mutation ID
EGFR	c.2307_2308ins(9)GCCAGCGTG/ c.2308_2309ins(9)CCAGCGTGG/ c.2309_2310AC>CCAGCGTGGAT	p.V769_D770insASV	26352/ 12426/ 13558	NA/ NA/ COSV51775806
	c.2310_2311insGGT	p. D770_N771insG	12378	COSV51769298
	c.2311_2312ins(3)CAC	p.N771>TH	22946	COSV51765135
	c.2311_2312ins(9)GCGTGGACA	p.D770_N771insSVD	18490	NA
	c.2319_2320ins(9)AACCCCCAC	p.H773_V774insNPH	18491	NA
	c.2319_2320InsCAC	p. H773_V774insH	12377	NA
	c.2369C>T	p.T790M	6240	COSV51765492
	c.2389T>A	p.C797S	6493937	COSV51766493
	c.2390G>C	p.C797S	5945664	COSV51766509
	c.2573T>G	p.L858R	6224	COSV51765161
	c.2582T>A/ c.2582T>G	p.L861Q/ p.L861R	6213/ 12374	COSV51766344/ COSV51766618
ERBB2	c.2324_2325ins(12)ATACGTGATGGC/ c.2325_2326ins(12)TACGTGATGGCT	p.A775_G776insYVMA	20959/ 133608	NA
	c.2326_2327ins(3)TGT/ c.2326_2327ins(3)TTT	p.G776>VC	12553/ 12552	COSV54064203/ COSV54064477
KRAS	c.181C>A/ c.181C>G	p.Q61K/ p.Q61E	549/ 550	COSV55502066/ COSV55502677
	c.182A>C/ c.182A>T	p.Q61P/ p.Q61L	551/ 553	COSV55508574/ COSV55504296
	c.182A>G	p.Q61R	552	COSV55498739
	c.183A>C/ c.183A>T	p.Q61H	554/ 555	COSV55498802/ COSV55499223
	c.34G>A	p.G12S	517	COSV55497461
	c.34G>C	p.G12R	518	COSV55497582
	c.34G>T	p.G12C	516	COSV55497469
	c.35G>A	p.G12D	521	COSV55497369
	c.35G>C/ c.35G>T	p.G12A/ p.G12V	522/ 520	COSV55497479/ COSV55497419
	c.37G>T	p.G13C	527	COSV55497378
	c.38G>A	p.G13D	532	COSV55497388
PIK3CA	c.1624G>A	p.E542K	760	COSV55873227
	c.1633G>A	p.E545K	763	COSV55873239
	c.3140A>G	p.H1047R	775	COSV55873195
PIK3CA	c.3140A>T	p.H1047L	776	COSV55873401

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2

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