

## Variant List – UltraSEEK™ Lung Panel

Gene	CDS	Amino Acid Change	COSMIC ID
BRAF	c.1406G>T	p.G469V	459
	c.1406G>C	p.G469A	460
	c.1781A>G	p.D594G	467
	c.1799T>A	p.V600E	476
EGFR	c.2240_2251del(12)TAAGAGAAGCAA	p.L747_T751>S	6210
	c.2582T>A	p.L861Q	6213
	c.2239_2247del(9)TTAAGAGAA	p.L747_E749del	6218
	c.2238_2255del(18)ATTAAGAGAAGCAACATC	p.E746_S752>D	6220
	c.2235_2249del(15)GGAATTAAGAGAAGC	p.E746_A750del	6223
	c.2573T>G	p.L858R	6224
	c.2236_2250del(15)GAATTAAGAGAAGCA	p.E746_A750del	6225
	c.2156G>C	p.G719A	6239
	c.2369C>T	p.T790M	6240
	c.2303G>T	p.S768I	6241
	c.2155G>A	p.G719S	6252
	c.2155G>T	p.G719C	6253
	c.2239_2256del(18)TTAAGAGAAGCAACATCT	p.L747_S752del	6255
	c.2237_2254del(18)AATTAAGAGAAGCAACAT	p.E746_S752>A	12367
	c.2240_2254del(15)TAAGAGAAGCAACAT	p.L747_T751del	12369
	c.2240_2257del(18)TAAGAGAAGCAACATCTC	p.L747_P753>S	12370
	c.2126A>T	p.E709V	12371
	c.2582T>G	p.L861R	12374
	c.2307_2308ins(9)GCCAGCGTG	p.V769_D770insASV	12376
	c.2319_2320insCAC	p.H773-V774insH	12377
	c.2310_2311insGGT	p.D770-N771insG	12378
	c.2319_2320ins(9)AACCCAC	p.H773_V774insNPH	12381
	c.2239_2248TTAAGAGAAG>C	p.L747_A750>P	12382
	c.2239_2251TTAAGAGAAGCAA>C	p.L747_T751>P	12383
	c.2237_2255>T	p.E746_S752>V	12384
	c.2237_2252>T	p.E746_T751>V	12386
	c.2239_2258>CA	p.L747_P753>Q	12387
	c.2239_2256>CAA	p.L747_S752>Q	12403
	c.2237_2253>TTGCT	p.E746_T751>VA	12416
	c.2238_2248>GC	p.L747_A750>P	12422
	c.2308_2309ins(9)CCAGCGTGG	p.V769_D770insASV	12426
	c.2237_2251del(15)AATTAAGAGAAGCAA	p.E746_T751>A	12678
	c.2236_2253del(18)GAATTAAGAGAAGCAACA	p.E746_T751del	12728
	c.2125G>A	p.E709K	12988
c.2126A>G	p.E709G	13009	

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Gene	CDS	Amino Acid Change	COSMIC ID
EGFR	c.2126A>C	p.E709A	13427
	c.2311_2312ins(9)GCGTGGACA	p.D770_N771insSVD	13428
	c.2235_2248>AATTC	p.E746_A750>IP	13550
	c.2235_2251>AATTC	p.E746_T751>IP	13552
	c.2309_2310AC>CCAGCGTGGAT	p.V769_D770insASV	13558
	c.2237_2257>TCT	p.E746_P753>VS	18427
	c.2311_2312ins(3)CAC	p.N771>TH	22946
	c.2235_2246del(12)GGAATTAAGAGA	p.E746_E749delELRE	28517
	c.2237_2253>TTCCT	p.E746_T751>VP	52935
	c.2390G>C	p.C797S	5945664
	c.2389T>A	p.C797S	6493937
ERBB2	c.2326_2327ins(3)TTT	p.G776>VC	12552
	c.2326_2327ins(3)TGT	p.G776>VC	12553
	c.2325_2326ins(12)TACGTGATGGCT	p.A775_G776insYVMA	12558
	c.2324_2325ins(12)ATACGTGATGGC	p.A775_G776insYVMA	20959
KRAS	c.34G>T	p.G12C	516
	c.34G>A	p.G12S	517
	c.34G>C	p.G12R	518
	c.35G>T	p.G12V	520
	c.35G>A	p.G12D	521
	c.35G>C	p.G12A	522
	c.34_35GG>TA	p.G12Y	25081
	c.37G>T	p.G13C	527
	c.38G>A	p.G13D	532
	c.181C>A	p.Q61K	549
	c.181C>G	p.Q61E	550
	c.182A>C	p.Q61P	551
	c.182A>G	p.Q61R	552
	c.182A>T	p.Q61L	553
c.183A>C	p.Q61H	554	
c.183A>T	p.Q61H	555	
PIK3CA	c.1624G>A	p.E542K	760
	c.1633G>A	p.E545K	763
	c.3140A>G	p.H1047R	775
	c.3140A>T	p.H1047L	776

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Agena Bioscience, Inc.  
4755 Eastgate Mall  
San Diego, CA 92121  
Phone: +1.858.882.2800

Order Desk: +1.858.202.9301  
Order Desk Fax: +1.858.202.9220  
orderdesk@agenabio.com  
Web: agenabio.com

**US** +1.877.4.GENOME  
**EU** +49.40.899676.0  
**AP** +61.7.3088.1600  
**CN** +86.21.6427.0566

