



## EGFR Mutation Real Time PCR Detection Kit

**Shuwen's EGFR Mutation Detection Kit** is a real-time PCR test for the qualitative detection of 29 defined mutations of the epidermal growth factor receptor (EGFR) gene in DNA derived from formalin-fixed paraffin-embedded (FFPE) tumor tissue from non-small cell lung cancer (NSCLC) patients. The test identifies patients with NSCLC whose tumors have defined EGFR mutations and for whom efficacy of an EGFR tyrosine kinase inhibitor (TKI) is indicated.

### Competitive advantages:

- 8-well PCR tube strips contain lyophilized reagents
- Simple to use: user only needs to add DNA template and enzyme
- Lyophilized reagents withstand at least 12 freeze/thaw cycles (versus a typical 5 cycles for liquid-reagent based competitors) which increases stability
- Lower shipping costs due to lyophilized reagents not required to be shipped frozen
- High specificity – no non-specific amplification with 100 ng of wild-type genomic human DNA
- Outstanding analytical selectivity and sensitivity with a limit of mutation detection at 0.1% in a background of wild-type DNA for key mutations

### 29 Mutations Covered:

Mutation	Exon	Base Change	COSMIC ID	Detection Limit
L858R	21	2573T>G	6224	0.1% 10ng DNA
L861Q	21	2582T>A	6213	0.1% 10ng DNA
H773_V771insH	20	2319-2320 ins CAC	12377	0.1% 10ng DNA 20-INS
D770_N771insG	20	2310-2311 ins GGT	12378	
V769_D770insASV	20	2307-2308 ins GCCAGCGTG	12376	
T790M	20	2369C>T	6240	0.1% 10ng DNA
S768I	20	2303G>T	6241	0.5% 10ng DNA
E746_A750del(1)	19	2235-2249 del 15	6223	0.5% 10ng DNA
E746_A750del(2)	19	2236-2250 del 15	6225	
L747_P753>S	19	2240-2257 del 18	12370	
E746_T751>I	19	2235-2252>AAT del 18	13551	

E746_T751>A	19	2237-2251 del 15	12678	
E746_S752>D	19	2238-2255 del 18	6220	
L747_A750>P	19	2238-2248>GC del 11	12422	
L747_T751>Q	19	2238-2252>GCA del 15	12419	
L747_E749del	19	2239-2247 del 9	6218	
L747_T751del	19	2239-2253 del 15	6254	
L747_S752del	19	2239-2256 del 18	6255	
L747_A750>P	19	2239-2248>C del 10	12382	
L747_P753>Q	19	2239-2258>CA del 20	12387	
L747_T751>S	19	2240-2251 del 12	6210	
L747_T751del	19	2240-2254 del 15	12369	
L747_T751>P	19	2239-2251>C del 13	12383	
E746_T751del	19	2236-2253 del 18	12728	
E746_S752>A	19	2237-2254 del 18	12367	
E746_S752>V	19	2237-2255>T del 19	12384	
G719A	18	2156G>C	6239	
G719S	18	2156G>A	6252	
G719C	18	2155G>T	6253	



**Compatibility:** ABI 7500, Agilent Stratagene Mx3000P, Cobas Z 480, LightCycler 480 II, Rotor Gene

#### About Shuwen Biotech

Based in China and led by U.S. and European diagnostic industry veterans, Shuwen Biotech is engaged in licensing, developing, marketing and distributing innovative products and services for disease diagnosis and personalized medicine. The company strives to provide doctors and their patients with a comprehensive menu of the most innovative products and services for improved disease prediction, screening, diagnosis, prognosis and treatment in the areas of cancer, maternal fetal medicine, acute care, and preventive testing.

**Shuwen Biotech welcomes inquiries from pharmaceutical and diagnostic partners.**

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