

## Product datasheet for **RG202513**

### **KEAP1 (NM\_012289) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	KEAP1 (NM_012289) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KEAP1
Synonyms:	INrf2; KLHL19
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG202513 representing NM\_012289  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCAGCCAGATCCCAGGCTAGCGGGCTGGGGCTGCTGCCGATTCTGCCCTGCAGTCACAGTGCC  
 CTGAGGGGGCAGGGACGCGGTGATGTACGCCTCCACTGAGTGCAAGGCGGAGGTGACGCCCTCCAGCA  
 TGGCAACCGCACCTTCAGCTACACCCTGGAGGATCATACCAAGCAGGCCTTTGGCATCATGAACGAGCTG  
 CGGCTCAGCCAGCAGCTGTGTGACGTCACACTGCAGGTCAAGTACCAGGATGCACCGGCCGCCAGTTCA  
 TGGCCACAAGGTGGTGTGCCCTATCCAGCCCTGTCTTCAAGGCCATGTTACCAACGGGCTGCGGGA  
 GCAGGGCATGGAGGTGGTGTCCATTGAGGGTATCCACCCAAGGTGATGGAGCGCCTCATTGAATTCGCC  
 TACACGGCCTCCATCTCCATGGGCGAGAAGTGTGTCTCCACGTCATGAACGGTGTGTCATGTACCAGA  
 TCGACAGCGTTGTCGGTGCCTGCAGTGACTTCTGGTGCAGCAGCTGGACCCAGCAATGCCATCGGCAT  
 CGCCAACCTCGCTGAGCAGATTGGCTGTGTGGAGTTGCACCAGCGTGCCCGGGAGTACATCTACATGCAT  
 TTTGGGGAGGTGGCCAAGCAAGAGGAGTTCTTCAACCTGTCCACTGCCAAGTGGTACCCTCATCAGCC  
 GGGACGACCTGAACGTGCGCTGCGAGTCCGAGGTCTTCCACGCCTGCATCAACTGGGTCAAGTACGACTG  
 CGAACAGCGACGGTTCTACGTCCAGGCGTGTGCGGGCCGTGCGCTGCCACTCGTTGACGCCAAGTTC  
 CTGCAGATGCAGCTGCAGAAAGTGCAGATCCTGCAGTCCGACTCCCGCTGCAAGGACTACCTGGTCAAGA  
 TCTTCGAGGAGCTCACCTGCACAAGCCACGCAGGTGATGCCCTGCCGGGCGCCCAAGTGGGCGCCCT  
 GATCTACACCGCGGGCGGCTACTCCGACAGTCGCTCAGTACCTGGAGGCTTACAACCCAGTACGCGC  
 ACCTGGCTCCGGTTGGCGGACCTGCAGGTGCCCGGAGCGGCCTGGCCGGCTGCGTGGTGGGCGGCTGT  
 TGTACGCCGTGGGCGGCAGGAACAACCTGCCCGACGGCAACACCGACTCCAGCGCCCTGGACTGTTACAA  
 CCCATGACCAATCAGTGGTGCCTGCCCTCCATGAGCGTGCCCGTAACCGCATCGGGGTGGGGGTC  
 ATCGATGGCCACATCTATGCCGTGCGCGCTCCACGGTGCATCCACCACAACAGTGTGGAGAGGTATG  
 AGCCAGAGCGGGATGAGTGGCACTTGGTGGCCCAATGCTGACACGAAGGATCGGGGTGGGCGTGGCTGT  
 CCTCAATCGTCTCCTTTATGCCGTGGGGGCTTTGACGGGACAAACCGCCTTAATTCAGTGTGAGTGTAC  
 TACCCAGAGAGGAACGAGTGGCGAATGATCACAGCAATGAACACCATCCGAAGCGGGGAGGCGTCTGCC  
 TCCTGCACAACGTATCTATGCTGCTGGGGCTATGATGGTCCAGGACCAGCTGAACAGCGTGGAGCGCTA  
 CGATGTGGAACAGAGACGTGGACTTTCGTAGCCCCATGAAGCACCGGGAAGTGCCTGGGGATCACT  
 GTCCACCAGGGGAGAATCTACGTCTTGGAGGCTATGATGGTACACGTTCTGGACAGTGTGGAGTGT  
 ACGACCCAGATACAGACCTGGAGCGAGGTGACCCGAATGACATCGGGCCGGAGTGGGGTGGGCGTGGC  
 TGTCCACATGGAGCCCTGCCGAAGCAGATTGACCAGCAGAAGTGTACCTGT

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG202513 representing NM\_012289  
 Red=Cloning site Green=Tags(s)

MQPDRPSGAGACCRFLPLQSQCPEGAGDAVMYASTECKAEVTPSQHGNRTFSYTLLEDHTKQAFGIMNEL  
 RLSQQLCDVTLQVKYQDAPAAQFMAHKVVLASSPVFKAMFTNGLREQGMEVVSIEGIHPKVMERLIEFA  
 YTASISMGEKCVLHMNGAVMYQIDSVVRACSDFLVQQLDPSNAIGIANFAEQIGCVELHQRAREYIYMH  
 FGEVAKQEFFFNLSHCQLVTLISRDDLNVRCSEVVFHACINWVKYDCEQRRFYVQALLRAVRCHSLTPNF  
 LQMQLQKCEILQSDSRCKDYLVKIFEELTLHKPTQVMPCRAPKVGRLIYTAGGYFRQSLSYLEAYNPSDG  
 TWLRLADLQVPRSLAGCVVGGLLYAVGGRNNSPDGNTDSSALDCYNPMTNQWSPCAPMSVPRNRIGVGV  
 IDGHIYAVGGSHGCIHNSVERYEPERDEWHLVAPMLTRRIGVGVAVLNRLLYAVGGFDGTNRLNSAECY  
 YPERNEWRMITAMNTRSGAGVCVLHNCIYAAGGYDGDQQLNSVERYDVETETWTFVAPMKHRRSALGIT  
 VHQGRIYVLGGYDGHFTLDSVECYDPDPTDWTSEVTRMTSGRSGVGVAVTMEPCRKQIDQQNCTC

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_012289

**ORF Size:** 1872 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**RefSeq:** [NM\\_012289.4](#)

**RefSeq Size:** 2577 bp

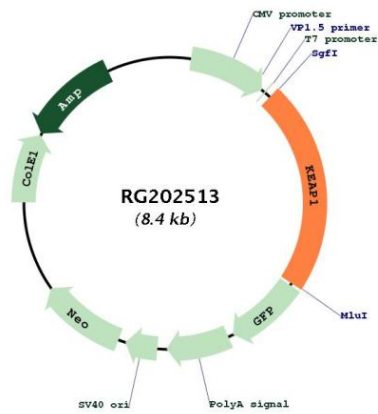
**RefSeq ORF:** 1875 bp

**Locus ID:** 9817

**UniProt ID:** [Q14145](#)

**Cytogenetics:** 19p13.2  
**Domains:** BTB, Kelch  
**Protein Families:** Transcription Factors  
**Protein Pathways:** Ubiquitin mediated proteolysis  
**Gene Summary:** This gene encodes a protein containing KELCH-1 like domains, as well as a BTB/POZ domain. Kelch-like ECH-associated protein 1 interacts with NF-E2-related factor 2 in a redox-sensitive manner and the dissociation of the proteins in the cytoplasm is followed by transportation of NF-E2-related factor 2 to the nucleus. This interaction results in the expression of the catalytic subunit of gamma-glutamylcysteine synthetase. Two alternatively spliced transcript variants encoding the same isoform have been found for this gene. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RG202513