

Product datasheet for **RG202189**

KEAP1 (NM_203500) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KEAP1 (NM_203500) 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:

>RG202189 representing NM_203500
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGACGCCAGATCCCAGGCTAGCGGGCTGGGGCTGCTGCCGATTCTGCCCTGCAGTCACAGTGCC
 CTGAGGGGGCAGGGGACGCGGTGATGTACGCCTCCACTGAGTGCAAGGCGGAGGTGACGCCCTCCAGCA
 TGGCAACCGCACCTTCAGCTACACCCTGGAGGATCATACCAAGCAGGCCTTTGGCATCATGAACGAGCTG
 CGGCTCAGCCAGCAGCTGTGTGACGTCACACTGCAGGTCAAGTACCAGGATGCACCGGCCGCCAGTTCA
 TGGCCACAAGGTGGTGTGCCCTATCCAGCCCTGTCTTCAAGGCCATGTTACCAACGGGCTGCGGGA
 GCAGGGCATGGAGGTGGTGTCCATTGAGGGTATCCACCCAAGGTGATGGAGCGCCTCATTGAATTCGCC
 TACACGGCCTCCATCTCCATGGGCGAGAAGTGTGTCTCCACGTCATGAACGGTGTGTCATGTACCAGA
 TCGACAGCGTTGTCGGTGCCTGCAGTGACTTCTGGTGCAGCAGCTGGACCCAGCAATGCCATCGGCAT
 CGCCAACCTTCGCTGAGCAGATTGGCTGTGTGGAGTTGCACCAGCGTGCCCGGGAGTACATCTACATGCAT
 TTTGGGGAGGTGGCCAAGCAAGAGGAGTTCTTCAACCTGTCCACTGCCAAGTGGTACCCTCATCAGCC
 GGGACGACCTGAACGTGCGCTGCGAGTCCGAGGTCTTCCACGCCTGCATCAACTGGTCAAGTACGACTG
 CGAACAGCGACGGTTCTACGTCCAGGCGTGTGCGGGCCGTGCGCTGCCACTCGTTGACGCCAAGTTC
 CTGCAGATGCAGCTGCAGAAAGTGCAGATCCTGCAGTCCGACTCCCGCTGCAAGGACTACCTGGTCAAGA
 TCTTCGAGGAGCTCACCTGCACAAGCCACGCAGGTGATGCCCTGCCGGGCGCCCAAGTGGGCGGCCCT
 GATCTACACCGCGGGCGGCTACTCCGACAGTCGCTCAGTACCTGGAGGCTTACAACCCAGTACGCGC
 ACCTGGCTCCGGTTGGCGGACCTGCAGGTGCCCGGAGCGGCCTGGCCGGCTGCGTGGTGGGCGGCTGT
 TGTACGCCGTGGGCGGCAGGAACAACCTGCCCGACGGCAACACCGACTCCAGCGCCCTGGACTGTTACAA
 CCCATGACCAATCAGTGGTGCCTGCCGCCCATGAGCGTGCCCGTAACCGCATCGGGGTGGGGGTC
 ATCGATGGCCACATCTATGCCGTGCGCGCTCCACGGTGCATCCACCACAACAGTGTGGAGAGGTATG
 AGCCAGAGCGGGATGAGTGGCACTTGGTGGCCCAATGCTGACACGAAGGATCGGGGTGGGCGTGGCTGT
 CCTCAATCGTCTCCTTTATGCCGTGGGGGCTTTGACGGGACAAACCGCCTTAATTCAGTGTGAGTGTAC
 TACCCAGAGGAACGAGTGGCGAATGATCACAGCAATGAACACCATCCGAAGCGGGGAGGCGTCTGCC
 TCCTGCACAACGTATCTATGCTGCTGGGGCTATGATGGTCCAGGACCAGCTGAACAGCGTGGAGCGCTA
 CGATGTGGAACAGAGACGTGGACTTTCGTAGCCCCATGAAGCACCGGGAAGTGCCTGGGGATCACT
 GTCCACCAGGGGAGAATCTACGTCTTGGAGGCTATGATGGTACACGTTCTGGACAGTGTGGAGTGT
 ACGACCCAGATACAGACCTGGAGCGAGGTGACCCGAATGACATCGGGCCGGAGTGGGGTGGGCGTGGC
 TGTCCACATGGAGCCCTGCCGAAGCAGATTGACCAGCAGAACTGTACCTGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG202189 representing NM_203500
 Red=Cloning site Green=Tags(s)

MQPDRPSGAGACCRFLPLQSQCPEGAGDAVMYASTECKAEVTPSQHGNRTFSYTLIEDHTKQAFGIMNEL
 RLSQQLCDVTLQVKYQDAPAAQFMAHKVVLASSPVFKAMFTNGLREQGMEVVSIEGIHPKVMERLIEFA
 YTASISMGEKCVLHMNGAVMYQIDSVVRACSDFLVQQLDPSNAIGIANFAEQIGCVELHQRAREYIYMH
 FGEVAKQEFFFNLSHCQLVTLISRDDLNVRCSEVVFHACINWVKYDCEQRRFYVQALLRAVRCHSLTPNF
 LQMQLQKCEILQSDSRCKDYLVKIFEELTLHKPTQVMPCRAPKVGRLIYTAGGYFRQSLSYLEAYNPSDG
 TWLRLADLQVPRSLAGCVVGGLLYAVGGRNNSPDGNTDSSALDCYNPMTNQWSPCAPMSVPRNRIGVGV
 IDGHIYAVGGSHGCIHNSVERYEPERDEWHLVAPMLTRRIGVGVAVLNRLLYAVGGFDGNTNLSAECY
 YPERNEWRMITAMNTRSGAGVCVLHNCIYAAGGYDGDQQLNSVERYDVETETWTFVAPMKHRRSALGIT
 VHQGRIYVLGGYDGHFTLDSVECYDPDPTDWTSEVTRMTSGRSGVAVTMEPCRKQIDQQNCTC

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_203500

ORF Size: 1872 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_203500.2](#)

RefSeq Size: 2606 bp

RefSeq ORF: 1875 bp

Locus ID: 9817

UniProt ID: [Q14145](#)

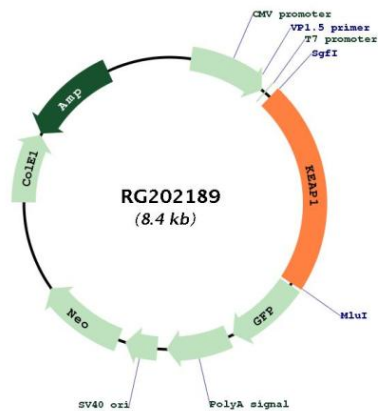
Cytogenetics: 19p13.2

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 RG202189