

## Product datasheet for **MC219820**

### Keap1 (NM\_001110305) Mouse Untagged Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                       |
| Product Name:             | Keap1 (NM_001110305) Mouse Untagged Clone |
| Tag:                      | Tag Free                                  |
| Symbol:                   | Keap1                                     |
| Synonyms:                 | INRF2; mKIAA0132                          |
| Mammalian Cell Selection: | Neomycin                                  |
| Vector:                   | pCMV6-Entry (PS100001)                    |
| E. coli Selection:        | Kanamycin (25 ug/mL)                      |



[View online »](#)

**Fully Sequenced ORF:** >MC219820 representing NM\_001110305  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCAGCCGAACCCAAGCTTAGCGGGCTCCCCGAGCAGCCAGTTCCTGCCCTGTGGTCAAAGTGCC  
 CCGAGGGGGCCGGGACGCAGTGATGTATGCCTCCACGGAGTGAAGGCAGAGGTGACGCCCTCGCAGGA  
 CGGTAACCGAACCTTCAGCTACACACTAGAGGATCACACCAAGCAGGCTTTTGGCGTCATGAACGAGCTT  
 CGCCTGAGCCAGCAACTCTGTGACGTGACCCTGCAGGTCAAATATGAGGACATCCAGCTGCCAATTCA  
 TGGCTCACAAAGTGGTGTGGCCTCTCCAGCCAGTCTTTAAAGCCATGTTACCAACGGGCTTCGGGA  
 GCAGGGCATGGAGGTGGTGTCCATCGAAGGCATCCACCCTAAGGTGATGGAAAGGCTTATTGAGTTGCCC  
 TACACGGCCTCCATCTCCGTGGCGGAGAAGTGTGCTGCACGTGATGAACGGGGCGGTGATGTACCAGA  
 TTGACAGCGTGGTTTCAGCCTGCAGCGACTTCTCGTGCAGCAGCTGGACCCAGCAACGCCATTGGCAT  
 CGCCAACTTCGCGGAGCAGATCGGCTGCACTGAACTGCACCAGCGTGCCCGGAGTATATCTACATGCAC  
 TTCGGGGAGGTGGCAAGCAGGAGGAGTCTTCAACCTGTCACTGCCAGCTGGCCACGCTCATCAGCC  
 GGGATGATCTGAACGTACGCTGCGAGTCCGAGGTGTTCCACGCGTGCATCGACTGGGTCAAATACGACTG  
 CCCGCAGCGGCGCTTCTACGTGCAGGCACTGCTGCGGGCCGTGCGCTGCCATGCGCTCACGCCGCGCTTC  
 CTGCAGACGCAGCTGCAGAAAGTGTGAGATCCTGCAGGCCGACGCGCGCTGCAAGGACTACCTGGTGCAGA  
 TATTCCAGGAGCTCACGTGCACAAGCCACGCAGGCAAGTGCCTGCCGCGCGCCAAAGTGGGCCGCT  
 CATCTACACAGCGGGCGGTTACTTCCGACAGTCGCTCAGCTACCTGGAGGCTACAACCCGAGCAATGGC  
 TCCTGGCTGCGCTGGCCGATCTACAGGTGCCGCGCAGTGGGCTGGCAGGCTGCGTGGTGGTGGGCTGC  
 TATACGCTGTGGGCGGCCGCAACAACCTCCGGATGGCAACACTGACTCCAGCGCCCTGGACTGCTACAA  
 CCCCATGACCAACCAGTGGTCCGCTGTGCCTCTATGAGCGTGCCACGCAACCGCATCGGGGTGGGGGTC  
 ATAGATGGCCACATCTACGCAGTCGGGGTTCACACGGCTGCATCCACCACAGCAGCGTGGAGAGATATG  
 AGCCAGAGCGGGACGAGTGGCATCTAGTCGCGCAATGTTGACACGGAGGATTGGCGTGGGCGTGGCAGT  
 GCTCAACCGCTTGTGTATGCAGTGGGGGCTTTGACGGGACTAACCGGCTTAACTCCGAGAAATGTTAC  
 TATCCAGAGAGGAATGAGTGGCGGATGATCACACCGATGAATACCATCCGAGCGGGGCCGGGTCTGCG  
 TGCTGCACAACTGTATCTATGCAGCAGGGGCTACGATGGCAGGACCAGTTGAACAGTGTGGAGCGCTA  
 CGAGCTGGAGACAGAGACCTGGACTTTCGTAGCCCCATGAGGCATCACCGTAGTGGCTGGGGATTACT  
 GTGCACCAGGGCAAGATCTACGTCTCGGAGGCTATGATGGCCCACTTTTCTGGACAGTGTGGAATGCT  
 ATGACCCGGACAGTGATACCTGGAGTGAGGTGACCCGATGACATCTGGCCGACGCGGGTGGGTGTGCC  
 CGTCACCATGGAACCCTGTCGGAAGCAAATTGATCAACAAAACGTACCTGCT**TGA**

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-RsrII  
**ACCN:** NM\_001110305  
**Insert Size:** 1875 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](mailto: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](#)

**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\\_001110305.1](#), [NP\\_001103775.1](#)

**RefSeq Size:** 3434 bp

**RefSeq ORF:** 1875 bp

**Locus ID:** 50868

**UniProt ID:** [Q9Z2X8](#)

**Cytogenetics:** 9 A3

**Gene Summary:** Acts as a substrate adapter protein for the E3 ubiquitin ligase complex formed by CUL3 and RBX1 and targets NFE2L2/NRF2 for ubiquitination and degradation by the proteasome, thus resulting in the suppression of its transcriptional activity and the repression of antioxidant response element-mediated detoxifying enzyme gene expression. Retains NFE2L2/NRF2 and may also retain BPTF in the cytosol. Targets PGAM5 for ubiquitination and degradation by the proteasome (By similarity).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) uses a different splice site in the 5' UTR, compared to variant 1. Variants 1, 2, 3, and 4 all encode the same protein.