

## Product datasheet for **MR225871**

### Keap1 (NM\_001110306) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Keap1 (NM_001110306) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Keap1
Synonyms:	INRF2; mKIAA0132
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR225871 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCAGCCGAACCCAAGCTTAGCGGGGCTCCCCGACGACGCCAGTTCCTGCCCTGTGGTCAAAGTGCC  
 CCGAGGGGGCCGGGACGCAGTGATGTATGCCTCCACGGAGTGCAAGGCAGAGGTGACGCCCTCGCAGGA  
 CGGTAACCGAACCTTCAGCTACACACTAGAGGATCACACCAAGCAGGCTTTTGGCGTCATGAACGAGCTT  
 CGCCTGAGCCAGCAACTCTGTGACGTGACCCTGCAGGTCAAATATGAGGACATCCAGCTGCCAATTCA  
 TGGCTCACAAAGTGGTGTGGCCTCTCCAGCCAGTCTTTAAAGCCATGTTACCAACGGGCTTCGGGA  
 GCAGGGCATGGAGGTGGTGTCCATCGAAGGCATCCACCCTAAGGTATGGAAAGGCTTATTGAGTTCCGC  
 TACACGGCCTCCATCTCCGTGGCGGAGAAGTGTGCTGCACGTGATGAACGGGGCGGTATGTACCAGA  
 TTGACAGCGTGGTTTCAGCCTGCAGCGACTTCTCGTGCAGCAGCTGGACCCAGCAACGCCATTGGCAT  
 CGCCAACTTCGCGGAGCAGATCGGCTGCACTGAACTGCACCAGCTGCCCGGAGTATATCTACATGCAC  
 TTCGGGGAGGTGGCAAGCAGGAGGAGTCTTCAACCTGTCACTGCCAGCTGGCCACGCTCATCAGCC  
 GGGATGATCTGAACGTACGCTGCGAGTCCGAGGTGTTCCACGCGTGCATCGACTGGGTCAAATACGACTG  
 CCCGCAGCGCGCTTCTACGTGCAGGCACTGCTGCGGGCCGTGCGCTGCCATGCGCTCACGCCGCGCTTC  
 CTGCAGACGCAGCTGCAGAAAGTGTGAGATCCTGCAGGCCGACGCGCGTGAAGGACTACCTGGTGCAGA  
 TATTCCAGGAGCTCACGTGCACAAGCCACGCAGGCACTGCCCTGCCGCGGCCCAAAGTGGGCCGCT  
 CATCTACACAGCGGGCGGTTACTTCCGACAGTCGCTCAGCTACCTGGAGGCTACAACCCGAGCAATGGC  
 TCCTGGCTGCGCTGGCCGATCTACAGGTGCCGCGCAGTGGGCTGGCAGGCTCGTGGTGGTGGGCTGC  
 TATACGCTGTGGCGGGCCGAACAACACTCCGGATGGCAACACTGACTCCAGCGCCCTGGACTCTACAA  
 CCCCATGACCAACCAGTGGTCCGCTGTGCCTCTATGAGCGTGCCACGCAACCGCATCGGGGTGGGGTTC  
 ATAGATGGCCACATCTACGACGTCCGGGGTTCACGCGTGCATCCACCACAGCAGCGTGGAGAGATATG  
 AGCCAGAGCGGGACGAGTGGCATCTAGTCGCGCAATGTTGACACGGAGGATTGGCGTGGGCGTGGCAGT  
 GCTCAACCGCTTGTGTATGCAGTGGGGGCTTTGACGGGACTAACCGGCTTAACTCCGAGAATGTTAC  
 TATCCAGAGAGGAATGAGTGGCGGATGATCACACCGATGAATACCATCCGAGCGGGGCCGGGTCTGCG  
 TGCTGCACAACGTATCTATGCAGCAGGGGCTACGATGGCAGGACCAGTTGAACAGTGTGGAGCGCTA  
 CGAGCTGGAGACAGACCTGGACTTTCGTAGCCCCATGAGGCATCACCGTAGTGGCTGGGGATTACT  
 GTGACCAGGGCAAGATCTACGTCTCGGAGGCTATGATGGCCACACTTTCTGGACAGTGTGGAATGCT  
 ATGACCCGGACAGTATACCTGGAGTGGGTGACCCGATGACATCTGGCCGACGCGGGTGGGTGTGGC  
 CGTCACCATGGAACCCTGTCGGAAGCAAATTGATCAACAAAACGTACCTGC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

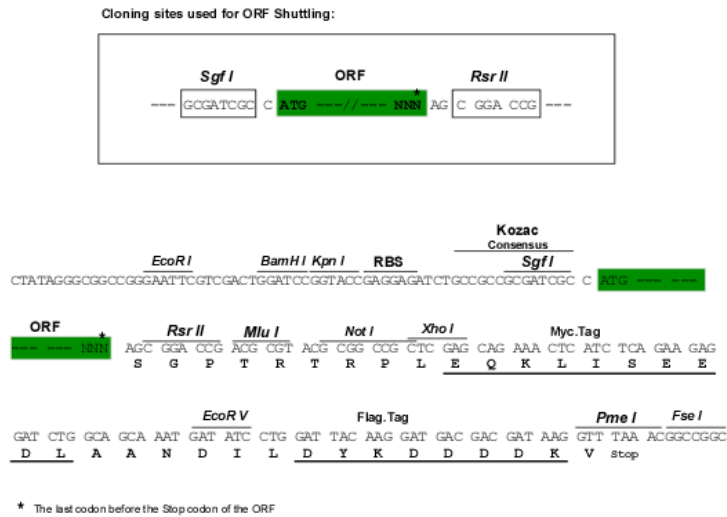
>MR225871 protein sequence  
 Red=Cloning site Green=Tags(s)

MQPEPKLSGAPRSSQFLPLWSKCEGAGDAVMYASTECKAEVTPSQDGNRTFSYTLIEDHTKQAFGVMNEL  
 RLSQQLCDVTLQVKYEDIPAAQFMAHKVVLASSPVFKAMFTNGLREQGMEVVSIEGIHPKVMERLIEFA  
 YTASISVGEKCVLHVMNGAVMYQIDSVVRACSDFLVQQLDPSNAIGIANFAEQIGCTELHQRAREIYMH  
 FGEVAKQEEFFNL SHCQLATLISRDDLNVRCSEVVFHACIDWVKYDCPQRRFYVQALLRAVRCHALTPRF  
 LQTQLQKCEILQADARCKDYLVQIFQELTLHKPTQAVPCRAPKVGRLIYTAGGYFRQSLSYLEAYNPSNG  
 SWLRLADLQVPRSGLAGCVVGGLLYAVGGRNNSPDGNTDSSALDCYNPMTNQWSPCAMSVPNRNIGVGV  
 IDGHIYAVGGSHGCIHSSVERYEPERDEWHLVAPMLTRRIGVGVAVLNRLLYAVGGFDGNTNLSAECY  
 YPERNEWRMITPMNIRSGAGVCVHNCIYAAGGYDGGDQLNSVERYDVETETWTFVAPMRHRSALGIT  
 VHQGIYVVLGGYDGHFTLDSVECYDPPSDTWSEVTRMTSGRSGVGVAVTMEPCRKQIDQQNCTC

SGP**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM\_001110306

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\\_001110306.1](#), [NP\\_001103776.1](#)

RefSeq Size: 3319 bp

RefSeq ORF: 1875 bp

Locus ID: 50868

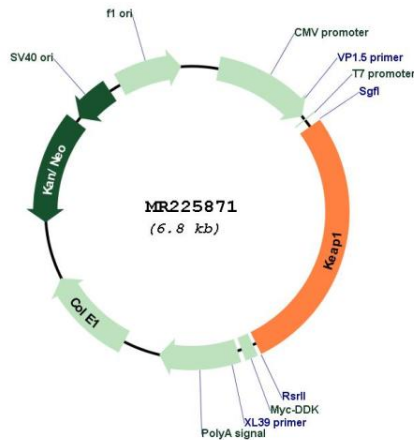
UniProt ID: [Q9Z2X8](#)

**Cytogenetics:** 9 A3

**MW:** 69.6 kDa

**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]

**Product images:**



Circular map for MR225871