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Product datasheet for MC219821

Keap1 (NM_001110306) Mouse Untagged Clone

Product data:

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

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Fully Sequenced ORF:

>MC219821 representing NM_001110306
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCAGCCCGAACCCAAGCTTAGCGGGGCTCCCCGCAGCAGCCAGTTCCTGCCCCTGTGGTCAAAGTGCC
CCGAGGGGGCCGGGGACGCAGTGATGTATGCCTCCACGGAGTGCAAGGCAGAGGTGACGCCCTCGCAGGA
CGGTAACCGAACCTTCAGCTACACACTAGAGGATCACACCAAGCAGGCTTTTGGCGTCATGAACGAGCTT
CGCCTGAGCCAGCAACTCTGTGACGTGACCCTGCAGGTCAAATATGAGGACATCCCAGCTGCCCAATTCA
TGGCTCACAAAGTGGTGCTGGCCTCCTCCAGCCCAGTCTTTAAAGCCATGTTCACCAACGGGCTTCGGGA
GCAGGGCATGGAGGTGGTGTCCATCGAAGGCATCCACCCTAAGGTCATGGAAAGGCTTATTGAGTTCGCC
TACACGGCCTCCATCTCCGTGGGCGAGAAGTGTGTCCTGCACGTGATGAACGGGGCGGTCATGTACCAGA
TTGACAGCGTGGTTCGAGCCTGCAGCGACTTCCTCGTGCAGCAGCTGGACCCCAGCAACGCCATTGGCAT
CGCCAACTTCGCGGAGCAGATCGGCTGCACTGAACTGCACCAGCGTGCCCGGGAGTATATCTACATGCAC
TTCGGGGAGGTGGCCAAGCAGGAGGAGTTCTTCAACCTGTCACACTGCCAGCTGGCCACGCTCATCAGCC
GGGATGATCTGAACGTACGCTGCGAGTCCGAGGTGTTCCACGCGTGCATCGACTGGGTCAAATACGACTG
CCCGCAGCGGCGCTTCTACGTGCAGGCACTGCTGCGGGCCGTGCGCTGCCATGCGCTCACGCCGCGCTTC
CTGCAGACGCAGCTGCAGAAGTGTGAGATCCTGCAGGCCGACGCGCGCTGCAAGGACTACCTGGTGCAGA
TATTCCAGGAGCTCACGCTGCACAAGCCCACGCAGGCAGTGCCCTGCCGCGCGCCCAAAGTGGGCCGCCT
CATCTACACAGCGGGCGGTTACTTCCGACAGTCGCTCAGCTACCTGGAGGCCTACAACCCGAGCAATGGC
TCCTGGCTGCGCCTGGCCGATCTACAGGTGCCGCGCAGTGGGCTGGCAGGCTGCGTGGTGGGTGGGCTGC
TATACGCTGTGGGCGGCCGCAACAACTCTCCGGATGGCAACACTGACTCCAGCGCCCTGGACTGCTACAA
CCCCATGACCAACCAGTGGTCGCCCTGTGCCTCTATGAGCGTGCCACGCAACCGCATCGGGGTGGGGGTC
ATAGATGGCCACATCTACGCAGTCGGGGGGTTCCCACGGCTGCATCCACCACAGCAGCGTGGAGAGATATG
AGCCAGAGCGGGACGAGTGGCATCTAGTCGCGCCAATGTTGACACGGAGGATTGGCGTGGGCGTGGCAGT
GCTCAACCGCTTGCTGTATGCAGTGGGGGGCTTTGACGGGACTAACCGGCTTAACTCCGCAGAATGTTAC
TATCCAGAGAGGAATGAGTGGCGGATGATCACACCGATGAATACCATCCGGAGCGGGGCCGGGGTCTGCG
TGCTGCACAACTGTATCTATGCAGCAGGGGGCTACGATGGGCAGGACCAGTTGAACAGTGTGGAGCGCTA
CGACGTGGAGACAGAGACCTGGACTTTCGTAGCCCCCATGAGGCATCACCGTAGTGCGCTGGGGATTACT
GTGCACCAGGGCAAGATCTACGTCCTCGGAGGCTATGATGGCCACACTTTTCTGGACAGTGTGGAATGCT
ATGACCCGGACAGTGATACCTGGAGTGAGGTGACCCGCATGACATCTGGCCGCAGCGGGGTGGGTGTGGC
CGTCACCATGGAACCCTGTCGGAAGCAAATTGATCAACAAAACTGTACCTGCTGA

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII

ACCN: NM_001110306

Insert Size: 1875 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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).

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

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