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Product datasheet for MC224526

Mug1 (NM_008645) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mug1 (NM_008645) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mug1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC224526 representing NM_008645 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGTGGAAGAGCAGACGGGCTCAGTTGTGCCTTTTTTCGGTTCTCCTTGCCTTCCTGCATTCTGCTTCTT TACTCAACGGAGACTCGAAGTATATGGTGCTGGTCCCTTCTCAGCTCTACACTGAGACCCCTGAGAAAAT CTGCCTCCATCTATACCAGCTGAATGAAACAGTGACCGTCACAGCTTCCTTGGTATCTCAATCAGGAAGG AAAAACCTGTTCGATGAGCTGGTGCTTGACAAGGACTTGTTCCAATGTGTTTCCTTCATTATCCCTAGAC TCTCCTCTTCTGATGAGGAGGATTTTCTCTACGTGGACATCAAAGGGCCAACCCACGAATTCAGCAAAAG GAAAGCAGTGCTTGTGAAGAACAAAGAAAGTGTTGTCTTTGTGCAGACAGATAAGCCCGTGTACAAGCCA GGACAATCAGTTAAATTTCGGGTTGTCTCTATGGATAAAATGCTACGTCCCCTGAATGAGTTGCTTCCTC TGGCTTACATTGAGGATCCGAAAAAGAACCGAATTATGCAGTGGAGGGATATTAAGACTGAGAATGGGCT TAAGCAAATGTCCTTCAGCCTGGCAGCAGAGCCCATTCAGGGCCCCTACAAGATAGTGGTGCACAAAGAG TCAGGGGAGAAGGAAGAACACTCCTTTACTGTGATGGAATTTGTGCTTCCCAGATTTAATGTCGACCTGA AGGTCCCAAATGCCATGTCTGTGAATGATGAAGTGCTCAGTGTGACTGCATGTGGGAAATATACCTATGG GAAGCCTGTTCCAGGACATGTGAAGATAAACGTCTGCCGTGAGACTGAGACTGGATGCAGAGAAGTCAAT TCTCAGCTAGACAACAATGGCTGCAGTACACAAGAAGTGAACATCACTGAGCTCCAATCAAAGAAAAGGA ATTATGAGGTTCAGCTTTTCCATGTGAATGCAACTGTTACAGAAGAAGGGACAGGATTGGAGTTCAGTCG ATCTGGAACAACTAAAATTGAAAGAATCACAAACAAGCTCATATTTCTGAAGGCAGATTCACACTTCAGA CATGGAATTCCATTCTTTGTGAAAGTCCGCCTAGTGGATATCAAGGGAGACCCTATCCCAAATGAGAAAG TCTTCATCAAAGCACAAGAACTTAGCTATACCAGTGCTACTACCACTGATCAGCATGGCCTGGCAGAGTT CTCCATAGATACCACATGCATCTCGGGCTCTTCCCTCCATATCAAAGTCAACCACAAAGAGGAAGATTCA TGTTCCTATTTCTATTGCATGGAGGAAAGACATGCAAGTGCAAAGCATGTGGCCTATGCTGTTTACTCCC TCAGCAAGAGCTACATCTACCTTGACACAGAGACCAGCAGCATCTTGCCCTGCAACCAGATTCACACAGT TCAGGCACATTTTATTCTGAAGGGGGACTTGGGAGTGCTGAAAGAGCTCATTTTCTACTACCTGGTCATG GCGCAGGGAAGCATCATCCAGACTGGAAACCATACTCACCAGGTGGAGCCAGGAGAAGCTCCAGTAAAAG GAAAATTTGCCTTGGAGATCCCTGTGGAGTTTAGCATGGTCCCCATGGCTAAAATGCTCATCTACACGAT CTTGCCTGATGGAGAAGTGATTGCAGATTCTGTAAACTTTGAAATTGAAAAGTGTCTTCGCAACAAAGTG

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GACCTGCGCTTCAGCACTTCTCAAAGTCTTCCCGCCTCACAAACCCGTCTGCAGGTCACAGCTTCTCCTC
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_008645

Insert Size: 4431 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).
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_008645.3, NP_032671.2
RefSeq Size:	4657 bp
RefSeq ORF:	4431 bp
Locus ID:	17836
UniProt ID:	P28665
Cytogenetics:	6 F1
Gene Summary:	A proteinase activates the inhibitor by specific proteolysis in the bait region, which, by an unknown mechanism leads to reaction at the cysteinyl-glutamyl internal thiol ester site and to a conformational change, whereby the proteinase is trapped and/or covalently bound to the inhibitor. While in the tetrameric proteinase inhibitors steric inhibition is sufficiently strong, monomeric forms need a covalent linkage between the activated glutamyl residue of the original thiol ester and a terminal amino group of a lysine or another nucleophilic group on the proteinase, for inhibition to be effective.[UniProtKB/Swiss-Prot Function]