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Product datasheet for MC226630

Rnaseh1 (NM_001286865) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rnaseh1 (NM_001286865) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rnaseh1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC226630 representing NM_001286865 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGTTCTATGCGGTGAGGAGAGGCCGCAGGACCGGAGTCTTCCTGAGTTGGAGTGAGTGCAAAGCCCAGG TGGACCGGTTTCCTGCTGCCAGGTTTAAGAAATTTGCCACAGAAGATGAGGCCTGGGCCTTTGTCAGGAG CTCTTCAAGCCCGGATGGTTCAAAAGGGCAGGAAAGTGCACATGAGCAGAAGTCACAGGCGAAGACCAGC AAGCGGCCTCGGGAGCCCCTGGGTGAAGGGGAAGAACTTCCAGAGCCAGGGCCGAAGCACACACGACAGG ACACCGAGCCCTCGGCTGTAGTGAGCAAGGACGCATTTTCTTATATGGGAGAGTCAGTCGTTGTCTACAC GGATGGCTGTTGCTCCAGTAATGGACGGAAGCGGGCACGAGCAGGAATTGGCGTTTACTGGGGCCCAGGC CACCCCTTAAATGTAGGTATAAGGCTTCCTGGGCGACAGACAAACCAGAGGGCCGAGATCCATGCAGCCT GCAAGGCCATCATGCAAGCCAAGGCTCAGAACATCAGCAAGCTGGTTCTGTACACAGACAGCATGTTCAC CATCAATGGGATAACTAACTGGGTTCAGGGCTGGAAGAAGAATGGCTGGAGAACAAGTACAGGGAAAGAT GTGATCAACAAGGAGGACTTCATGGAGCTGGACGAGCTCACTCAGGGCATGGACATCCAGTGGATGCACA TTCCTGGTCACTCAGGATTTGTGGGCAATGAAGAGGCCGACAGACTGGCACGGGAAGGAGCGAAGCAGTC TGAGGACTGA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Restriction Sites:	SgfI-MluI
ACCN:	NM_001286865
Insert Size:	780 bp

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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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001286865.1, NP_001273794.1
RefSeq Size:	1472 bp
RefSeq ORF:	780 bp
Locus ID:	19819
Cytogenetics:	12 A2
Gene Summary:	This gene encodes an endonuclease that specifically degrades the RNA of RNA-DNA hybrids and is necessary for DNA replication and repair. This enzyme is present in both mitochondria and nuclei, which are resulted from translation of a single mRNA with two in-frame initiation start codons. The use of the first start codon produces the mitochondrial isoform and the use of the second start codon produces the nuclear isoform. The production of the mitochondrial isoform is modulated by an upstream open reading frame (uORF) which encodes 7aa in mouse. An alternately spliced transcript variant has been found which is a candidate for nonsense-mediated mRNA decay (NMD). [provided by RefSeq, Nov 2013] Transcript Variant: This variant (1) encodes two isoforms due to the use of alternative translation initiation codons. The longer isoform (1) is derived from the upstream AUG start codon, while the shorter isoform (2) is derived from the downstream AUG start codon. This RefSeq represents the shorter isoform (2), which is a nuclear protein (see details in PMID: 20823270).