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Product datasheet for MR228841

Rnaseh1 (NM_001286865) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rnaseh1 (NM_001286865) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rnaseh1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR228841 representing NM_001286865 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGTTCTATGCGGTGAGGAGAGGCCGCAGGACCGGAGTCTTCCTGAGTTGGAGTGAGTGCAAAGCCCAGG TGGACCGGTTTCCTGCTGCCAGGTTTAAGAAATTTGCCACAGAAGATGAGGCCTGGGCCTTTGTCAGGAG CTCTTCAAGCCCGGATGGTTCAAAAGGGCAGGAAAGTGCACATGAGCAGAAGTCACAGGCGAAGACCAGC AAGCGGCCTCGGGAGCCCCTGGGTGAAGGGGAAGAACTTCCAGAGCCAGGGCCGAAGCACACACGACAGG ACACCGAGCCCTCGGCTGTAGTGAGCAAGGACGCATTTTCTTATATGGGAGAGTCAGTCGTTGTCTACAC GGATGGCTGTTGCTCCAGTAATGGACGGAAGCGGGCACGAGCAGGAATTGGCGTTTACTGGGGCCCAGGC CACCCCTTAAATGTAGGTATAAGGCTTCCTGGGCGACAGACAAACCAGAGGGCCGAGATCCATGCAGCCT GCAAGGCCATCATGCAAGCCAAGGCTCAGAACATCAGCAAGCTGGTTCTGTACACAGACAGCATGTTCAC CATCAATGGGATAACTAACTGGGTTCAGGGCTGGAAGAAGAATGGCTGGAGAACAAGTACAGGGAAAGAT GTGATCAACAAGGAGGACTTCATGGAGCTGGACGAGCTCACTCAGGGCATGGACATCCAGTGGATGCACA TTCCTGGTCACTCAGGATTTGTGGGCAATGAAGAGGCCGACAGACTGGCACGGGAAGGAGCGAAGCAGTC TGAGGAC ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

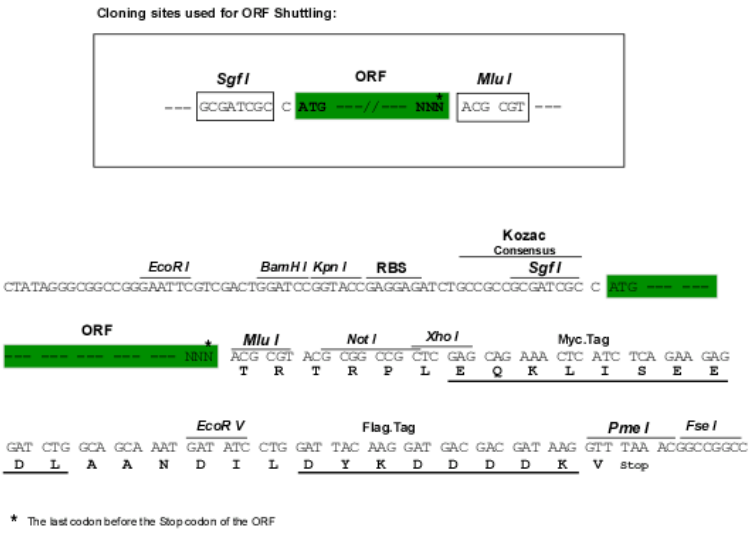
>MR228841 representing NM_001286865
Red=Cloning site Green=Tags(s)

MFYAVRRGRRTGVFLSWSECKAQVDRFPAARFKKFATEDEAWAFVRSSSSPDGSKGQESAHEQKSQAKTS
KRPREPLGEGEELPEPGPKHTRQDTEPSAVVSKDAFSYMGESVVVYTDGCCSSNGRKRARAGIGVYWGPG
HPLNVGIRLPGRQTNQRAEIHAACKAIMQAKAQNISKLVLYTDSMFTINGITNWVQGWKKNGWRTSTGKD
VINKEDFMELDELTQGMDIQWMHIPGHSGFVGNEEADRLAREGAKQSED

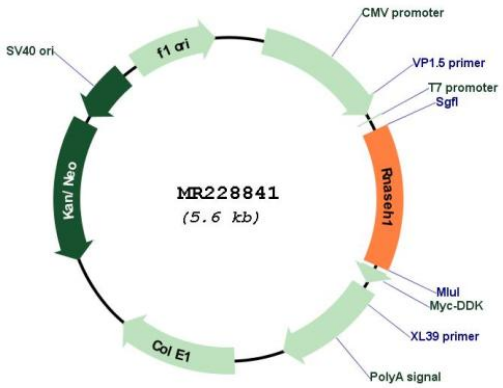
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001286865

ORF Size: 777 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_001286865.1, NP_001273794.1
RefSeq Size:	1472 bp
RefSeq ORF:	780 bp
Locus ID:	19819
Cytogenetics:	12 A2
MW:	29.3 kDa
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]