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Product datasheet for RG226833

RNASEH2B (NM_001142279) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RNASEH2B (NM_001142279) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RNASEH2B
Synonyms:	AGS2; DLEU8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG226833 representing NM_001142279
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCGCTGGCGTGGACTGCGGGGACGGGGTTGGCGCCCGGCAGCACGTGTTCCTGGTTTCAGAATATT
TAAAAGATGCTTCAAAGAAGATGAAAAATGGGCTAATGTTTGTAAAACTGGTTAACCCCTGTTCAGGAGA
AGGAGCCATTTACTTGTTCAATATGTGTCTACAGCAGCTGTTTGAAGTAAAAGTTTTCAAGGAAAAACAC
CATTCTTGGTTTATAAATCAATCAGTTCAATCAGGAGGTCTTCTCCATTTTGCCACACCTGTGGATCCTC
TATTTCTGCTTCTCCACTACCTCATAAAGGCTGATAAGGAGGGGAAGTTTCAGCCCCTTGATCAAGTTGT
GGTGGATAACGTGTTTCCAAATTGCATCTTGTTGCTGAAACTTCCTGGACTTGAGAAGTTACTTCATCAT
GTGACAGAGGAAAAAGGTAATCCAGAAATAGACAACAAGAAATATTACAAGTACAGCAAAGAGAAGACAT
TAAAGTGGCTGGAAAAAAAAGGTTAATCAAACTGTGGCAGCATTAAAAACCAATAATGTGAATGTCAGTTC
CCGGGTACAGTCAACTGCATTTTTCTCTGGTGACCAAGCTTCCACTGACAAGGAAGAGGATTATATTCGT
TATGCCCATGGTCTGATATCTGACTACATCCCTAAAGAATTAAGTGATGACTTATCTAAATACTTAAAGC
TTCCAGAACCTTCAGCCTCATTGCCAAATCCTCCATCAAAGATGGCAGCACAAAGACAGAAAAGGGGCAA
G

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

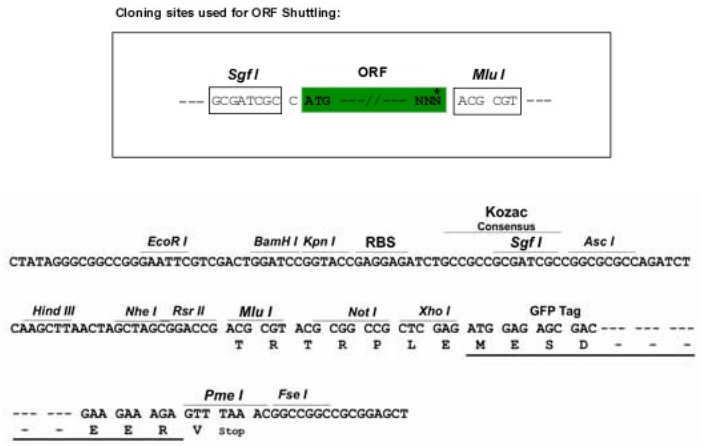
>RG226833 representing NM_001142279
Red=Cloning site Green=Tags(s)

MAAGVDCGDGVGARQHVFLVSEYLKDASKKMKNGLMFVKLVNPCSGEGAIYLFNMCLQQLFEVKVFKEKH
HSWFINQSVQSGGLLHFATPVDPLFLLLHYLIKADKEGKFQPLDQVVVDNVFPNCILLLKLPGLEKLLHH
VTEEKGNPEIDNKKYYKYSKEKTLKWLEKKVNQTVAALKTNNVNVSSRVQSTAFFSGDQASTDKEEDYIR
YAHGLISDYIPKELSDDLSKYLKLPEPSASLPNPPSKMAAQRQKRGK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001142279

ORF Size: 771 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_001142279.2, NP_001135751.1

RefSeq Size: 1612 bp

RefSeq ORF: 774 bp

Locus ID: 79621

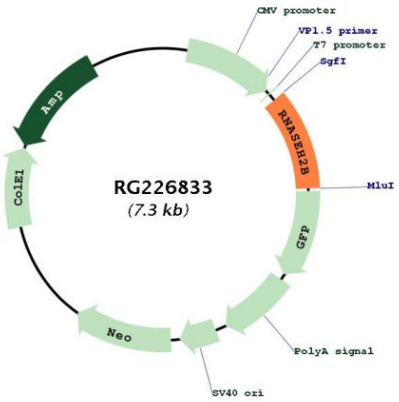
UniProt ID: Q5TBB1

Cytogenetics: 13q14.3

Protein Pathways: DNA replication

Gene Summary: RNase H2 is composed of a single catalytic subunit (A) and two non-catalytic subunits (B and C) and specifically degrades the RNA of RNA:DNA hybrids. The protein encoded by this gene is the non-catalytic B subunit of RNase H2, which is thought to play a role in DNA replication. Multiple transcript variants encoding different isoforms have been found for this gene. Defects in this gene are a cause of Aicardi-Goutieres syndrome type 2 (AGS2). [provided by RefSeq, Nov 2008]

Product images:



Circular map for RG226833