

Product datasheet for **RG220946**

RNASEH2B (NM_024570) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RNASEH2B (NM_024570) 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:	>RG220946 representing NM_024570 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGCTGGCGTGGACTGCGGGGACGGGTTGGCGCCCGGCAGCACGTGTTCTGGTTTCAGAATATT
TAAAAGATGCTTCAAAGAAGATGAAAAATGGGCTAATGTTTGTAAACTGGTTAACCCTGTTCCAGGAGA
AGGAGCCATTTACTTGTCAATATGTGTCTACAGCAGCTGCTTGAAGTAAAGTTTTCAAGGAAAAACAC
CATTCTTGTTTATAAATCAATCAGTTCATCAGGAGTCTTCTCCATTTGCCACACCTGTGGATCCTC
TATTTCTGCTTCTCCACTACCTCATAAAGGCTGATAAGGAGGGGAAGTTTCAGCCCTTGATCAAGTTGT
GGTGGATAACGTGTTTCCAAATTCATCTTGTGCTGAACTTCCCTGGACTTGAGAAGTTACTTTCATCAT
GTGACAGAGGAAAAAGGTAATCCAGAAATAGACAACAAGAAATATTACAAGTACAGCAAAGAGAAGACAT
TAAAGTGGCTGGAAAAAAGGTTAATCAAATGTGGCAGCATTAAAAACCAATAATGTGAATGTCAGTTC
CCGGGTACAGTCAACTGCATTTTCTCTGGTGACCAAGCTTCCACTGACAAGGAAGGATTATATTCGT
TATGCCCATGGTCTGATATCTGACTACATCCCTAAAGAATTAAGTGTGACTTATCTAAACTTAAAGC
TTCCAGAACCTTCAGCCTCATTGCCAAATCCTCCATCAAAGAAAAATAAGTTATCAGATGAGCCTGTAGA
AGCAAAAAGAAGATTACACTAAGTTTAATACTAAAGATTTGAAGACTGAAAAGAAAAATAGCAAAATGACT
GCAGCTCAGAAGGCTTTGGCTAAAGTTGACAAGAGTGGAATGAAAAGTATTGATACCTTTTTGGGGTAA
AAAATAAAAAAATTTGGAAAGTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG220946 representing NM_024570
 Red=Cloning site Green=Tags(s)

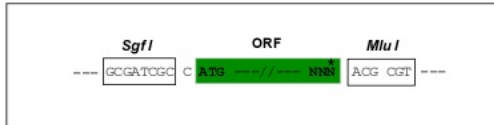
MAAGVDCGDGVGARQHVFLVSEYLDASKMKMKNGLMFVKLVNPCSGEGAIYLFNMCLQQLLEVKVFKEKH
 HSWFINQSVQSGGLLHFATPVDPLFLLHLHYLIKADKEGKFQPLDQVVVDNVFPNCILLKLPGLEKLLHH
 VTEEKGNPEIDNKKYKYKSEKTLKWLKLVNQTVAALKTNVNVSSRVQSTAFFSGDQASTDKEEDYIR
 YAHGLISDYIPKELSDLLSKYLKLPESASLPNPPSKIKLSDEPVEAKEDYTKFNTKDLKTEKKNKSKMT
 AAQKALAKVDKSGMKSIDTFFGVKNKKKIGKV

TRTRPLE - GFP Tag - V

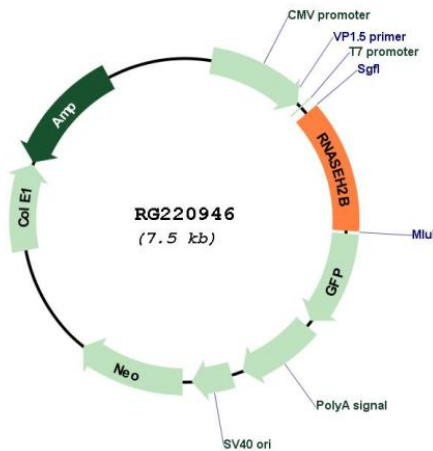
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_024570

ORF Size: 936 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
Reconstitution Method:	<ol style="list-style-type: none">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:	<p>NM_024570.1, NP_078846.1</p>
RefSeq Size:	<p>1515 bp</p>
RefSeq ORF:	<p>939 bp</p>
Locus ID:	<p>79621</p>
UniProt ID:	<p>Q5TBB1</p>
Cytogenetics:	<p>13q14.3</p>
Protein Pathways:	<p>DNA replication</p>
Gene Summary:	<p>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]</p>