

Product datasheet for **RG220443**

RNASE4 (NM_002937) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RNASE4 (NM_002937) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: RNASE4
Synonyms: RAB1; RNS4
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG220443 representing NM_002937
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTCTGCAGAGGACCCATTCATTGCTTCTGCTTTTGCTGCTGACCCTGCTGGGGCTGGGGCTGGTCC
 AGCCCTCTATGGCCAGGATGGCATGTACCAGCGATTCTGCGGCAACACGTGCACCCTGAGGAGACAGG
 TGGCAGTGATCGCTACTGCAACTTGATGATGCAAAGACGGAAGATGACTTTGTATCACTGCAAGCGCTTC
 AACACCTTCATCCATGAAGATATCTGGAACATTCGTAGTATCTGCAGCACCACCAATATCCAATGAAGA
 ACGGCAAGATGAACTGCCATGAGGGTGTAGTGAAGGTCACAGATTGCAGGGACACAGGAAGTTCCAGGGC
 ACCCAACTGCAGATATCGGGCCATAGCGAGCACTAGACGTGTTGTATTGCTGTGAGGGTAACCCACAG
 GTGCCTGTGCACTTTGACGGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG220443 representing NM_002937
 Red=Cloning site Green=Tags(s)

MALQRTHSLLLLLLLLTLLGLGLVQPSYGQDGMVQRFLRQHVHPEETGGSDRYCNLMMQRRKMTLYHCKRF
 NTFIHEDIWNIRSICSTTNIQCKNGKMNCHGVVVKVTDRCRDTGSSRAPNCRYRAIASTRRVVIACEGNPQ
 VPVHFDG

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



[View online »](#)

Cloning Scheme:


ACCN: NM_002937

ORF Size: 441 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_002937.5](#)

RefSeq Size: 1805 bp

RefSeq ORF: 444 bp

Locus ID: 6038

UniProt ID: [P34096](#)

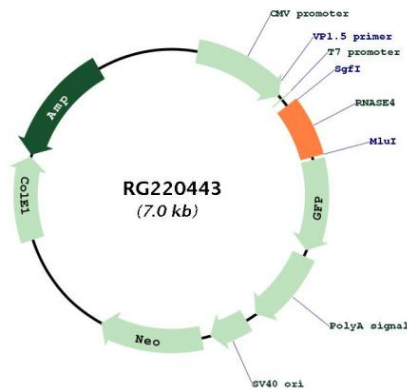
Cytogenetics: 14q11.2

Domains: RNase_Pc

Protein Families: Secreted Protein, Transmembrane

Gene Summary: The protein encoded by this gene belongs to the pancreatic ribonuclease family. It plays an important role in mRNA cleavage and has marked specificity towards the 3' side of uridine nucleotides. Alternative splicing results in four transcript variants encoding the same protein. This gene and the gene that encodes angiogenin share promoters and 5' exons. Each gene splices to a unique downstream exon that contains its complete coding region. [provided by RefSeq, Aug 2013]

Product images:



Circular map for RG220443