

Product datasheet for **RG204827**

RNase H2 subunit C (RNASEH2C) (NM_032193) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RNase H2 subunit C (RNASEH2C) (NM_032193) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: RNASEH2C
Synonyms: AGS3; AYP1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG204827 representing NM_032193
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGAGCGGCGACGAAGCGGCCATCGAGAGGCACCGCGTCCACTTGGCTCCGCCACATTGCGCGACG
 CCGTACCCGCCACACTGCATCTGCTGCCCTGCGAGTTGCGGTGGACGGGCCCGCCCGTGGGGCGCTT
 CTTACGCCCGCCATCCGCCAGGCCCCGAGGGACTCGAAGTGTCTTTCGGGGCCGCTGTCTACGGGA
 GAGGAGGTGGCGGTGCCCTGGCCTCGTGGGATACGTGATGGTACAGAAGAGAAGAAGGTGTCTGATGG
 GGAAGCCAGACCCCTTGGGGATTCCGGGACTGACGACCAAGAGGAGGAGCCGCTGGAGCGGGACTTCGA
 CCGCTTATTGGAGCCACTGCCAACTTCAGCCGCTTACCCTGTGGGGTCTGGAGACCATCCCTGGCCCCG
 GATGCCAAAGTGCCTGGGGCCTTAACCTGGCCCAGCCTTGGGCAGCGATTACGCACAGGTGCCCGAGG
 AC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG204827 representing NM_032193
 Red=Cloning site Green=Tags(s)

MESGDEAAIERHRVHLRSATLRDAVPATLHLLPCEVAVDGPAPVGRFFTPAIRQGPGLVSVFRGRCLRG
 EEVAVPPGLVGYVMVTEEKVSMGKPDPLRDSGTDQEEPLERDFDRF IGATANFSRFTLWGLETIIPG
 DAKVRGALTWPSLAAAIHAQVPED

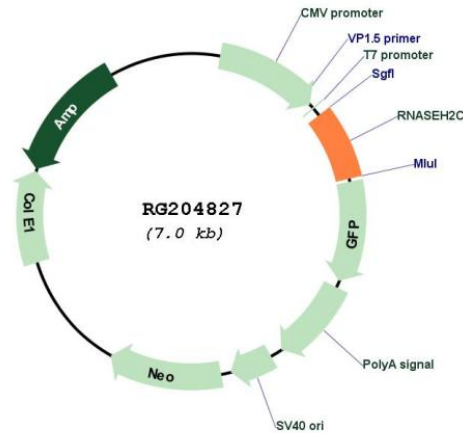
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: NM_032193

ORF Size: 492 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:	<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:	<u>NM_032193.4</u>
RefSeq Size:	2785 bp
RefSeq ORF:	495 bp
Locus ID:	84153
UniProt ID:	<u>Q8TDP1</u>
Cytogenetics:	11q13.1
Protein Pathways:	DNA replication
Gene Summary:	This gene encodes a ribonuclease H subunit that can cleave ribonucleotides from RNA:DNA duplexes. Mutations in this gene cause Aicardi-Goutieres syndrome-3, a disease that causes severe neurologic dysfunction. A pseudogene for this gene has been identified on chromosome Y, near the sex determining region Y (SRY) gene. [provided by RefSeq, Jul 2008]