

Product datasheet for **RG219882**

RHBDL2 (NM_017821) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RHBDL2 (NM_017821) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: RHBDL2
Synonyms: RRP2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG219882 representing NM_017821
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTGCTGTTTCATGATCTGGAGATGGAGAGCATGAATCTGAATATGGGGAGAGAGATGAAAGAAGAGC
 TGGAGGAAGAGGAGAAAATGAGAGAGGATGGGGGAGGTAAGATCGGGCCAAGAGTAAAAAGGTCCACAG
 GATTGTCTCAAAATGGATGCTGCCGAAAAGTCCCGAGGAACATACTGGAGAGAGCTAACTGCTTCCCG
 CCTCCCGTGTTCATCATCTCCATCAGCCTGGCCGAGCTGGCAGTGTATTTACTATGCTGTGTGAAGC
 CTCAGAAACAGTGGATCACGTTGGACACAGGCATCTTGGAGAGTCCCTTTATCTACAGTCTGAGAAGAG
 GGAGGAAGCCTGGAGTTTATCTCATACATGCTGGTACATGCTGGAGTTCAGCACATCTTGGGGAATCTT
 TGTATGCAGCTTGTGGGTATTCCCTTGAAATGGTCCACAAAGGCCTCCGTGTGGGGCTGGTGTACC
 TGGCAGGAGTGATTGCAGGGTCCCTTGCCAGCTCCATCTTTGACCACTCAGATATCTTGTGGGAGCTTC
 AGGAGGAGTCTATGCTCTGATGGGAGGCTATTTATGAATGTTCTGGTGAATTTCAAGAAATGATTCTT
 GCCTTTGGAATTTTCAGACTGCTGATCATCCTGATAATTGTGTTGGACATGGGATTTGCTCTCTATA
 GAAGGTTCTTGTTCCTGAAGATGGGTCTCCGGTGTCTTTGCAGCTCACATTGCAGGTGGATTTGCTGG
 AATGTCCATTGGCTACACGGTGTAGCTGCTTTGATAAAGCACTGCTGAAAGATCCAAGTTTTGGATA
 GCAATTGCTGCATATTTAGCTTGTGCTTATTTGCTGTGTTTTCAACATTTTCTATCTCCAGCAAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG219882 representing NM_017821
Red=Cloning site Green=Tags(s)

MAAVHDLEMESMNLNMGREMKEEEEEKMRDGGGKDRAKSKKVHRIVSKWMLPEKSRGTYLERANCFP
 PPVFIISISLAELAVFIYAVWKPQKQWITLDTGILESPFIYSPEKREEAWRFISYMLVHAGVQHILGNL
 CMQLVLGIPLEMVHKGLRVGLVYLAGVIAGSLASSIFDPLRYLVGASGGVYALMGGYFMNVLVNFQEMIP
 AFGIFRLLIIILIIIVLDMGFALYRRFFVPEDGSPVSFAAHIAGGFAGMSIGYTVFSCFDKALLKDPFRFWI
 AIAAYLACVLFVFFNIFLSPAN

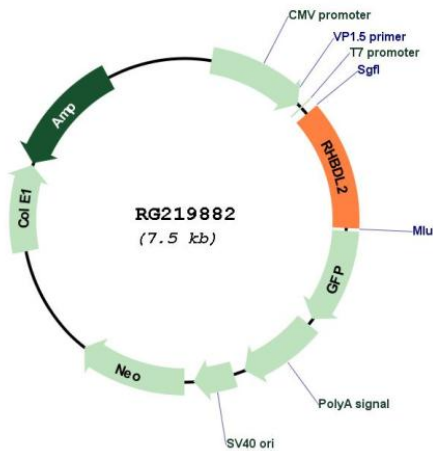
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_017821

ORF Size: 909 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:	NM_017821.5
RefSeq Size:	1838 bp
RefSeq ORF:	912 bp
Locus ID:	54933
UniProt ID:	Q9NX52
Cytogenetics:	1p34.3
Protein Families:	Protease, Transmembrane
Gene Summary:	<p>The protein encoded by this gene is a member of the rhomboid family of integral membrane proteins. This family contains proteins that are related to Drosophila rhomboid protein. Members of this family are found in both prokaryotes and eukaryotes and are thought to function as intramembrane serine proteases. The encoded protein is thought to release soluble growth factors by proteolytic cleavage of certain membrane-bound substrates, including ephrin B2 and ephrin B3. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2015]</p>