

Product datasheet for **RG221768**

RHBDL1 (NM_003961) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RHBDL1 (NM_003961) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RHBDL1
Synonyms:	RHBDL; RRP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG221768 representing NM_003961 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGTAGGGTGGAAAGACGGGGGAACAACCTGAGGAGCTGGAGGACTGGGACCCAGGCACCACTGTCCTGC
CAGCTCCTGGGATCAAGCAGGGTCCCAGGGAACAGACAGGCACGGGGCCCTGTCCCAAAGTGTGGGA
GCCTGAGCCTGATGCTCCAGCCAGCCTGGCCAGCCCTTTGGTCCAGGGGTGGGCCCGCACTCAGGCC
TTGGCTGGCGGCTCCTCACTGCAGCAGCTGGACCCGAGAACACAGGCTTCATCGGTGCGGACACCTTCA
CTGGCCTGGTGCACAGCCATGAGCTGCCCTGGACCCGCAAGCTGGACATGCTGGTGGCCTGGCTCA
GAGCAACGAGCAGGGCCAGGTCTGCTACCAGGAGCTGGTGGACCTGATCAGCAGCAAGCGCTCCAGCAGT
TTCAAGCGGGCCATTGCTAACGGACAGCGGCACTGCCCGGGACGGGCCGCTGGATGAGCCAGGCCATG
GTGTCTACAAGCGGTTTGTGCGTTACGTGGCCTACGAGATCCTGCCTTGTGAGGTGGACCGCCGCTGGTA
CTTCTACCGTCACCGCAGCTGCCACCCCGTGTTCATGGCCTCGGTCACTCTTGGCCAGATCATCGTG
TTCCTGTGTTACGGGGCCCGCTCAACAAGTGGGTGCTGCAGACCTACCACCCGAGTACATGAAGAGCC
CCCTTGTGTACCACCCGGGCACCGTGCCCGCGCTGGCGCTTCTCACCTACATGTTTATGCACGTTGG
GCTGGAGCAGCTGGGTTCAACGCCCTCCTGCAGCTGATGATCGGGTGGCCCTGGAGATGGTGCACGGC
CTGCTCCGATCAGCCTGCTCTACCTGGCAGGCGTGGTGGCAGGCTCCCTAACCGTCTCCATACCCGACA
TGCGGGCCCGGTGGTGGGAGGCTCCGGCGGGTCTACGCCCTGTGCTCGGCACACCTGGCCAACGTTGT
CATGAAGTGGGCTGGGATGAGATGTCCCTACAAGTTGCTGAGGATGGTGTGGCCTTGGTGTGCATGAGC
TCCGAGGTGGGCCGGCCGTGTGGCTGCCTTCTCCCGCCGCTGCCCGCTCGGGCCACAGCCAGCT
TCATGGCGCACCTGGCAGGCGGGTGGTGGGGTGGGATGAGCATGGGCTGACCATCCTGCGGAGCTACGAGGA
GCGCCTGCGGGACAGTGCAGGCTGGTGGTGGTGTGCTGGCCTACGGCACCTTCTGCTCTTCGCCGTC
TTCTGAAAGCTTTCGCCTACGACCTGCTGGGCGCCACATCCCCCACCAGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG221768 representing NM_003961
Red=Cloning site Green=Tags(s)

MGRVEDGGTTEELEDWDPGTSALPAPGIKQGPREQTGTGPLSQKCWEPEPDAPSQPGPALWSRGRARTQA
LAGGSSLQQLDPENTGF IGADTF TGLVHSHELPLDPAKLDMLVALAQSNEQGQVCYQELVDLISSKRSSS
FKRAIANGQRALPRDGPLDEPLGVYKRFVRYVAYEILPCEVDRRWYFYRHRSCPPPVFMASVTLAQIIV
FLCYGARLNKWWLQTYHPEYMKSP LVYHPGHRARAWRFLTYMFMHVGLEQLGFNALLQLMIGVPLEMVHG
LLRISLLYLAGVLAGSLTVSITDMRAPVVGGSGVYALCSAHLANVVMNWAGMRCPYKLLRMVLALVCMS
SEVGRAVWLRFSPLPASGPQPSFMAHLAGAVGVSMGLTILRSYEERLDQCGWVVLLAYGTFLFAV
FWNVFAYDLLGAHIPPPP

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_003961

ORF Size: 1314 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_003961.1](#), [NP_003952.1](#)

RefSeq Size: 1559 bp

RefSeq ORF: 1316 bp

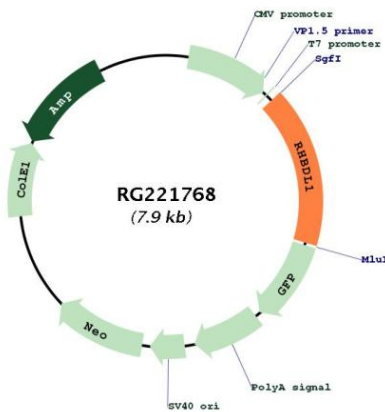
Locus ID: 9028

Cytogenetics: 16p13.3

Protein Families: Protease, Transmembrane

Gene Summary: This gene encodes a protein similar to Rhomboid in Drosophila which is involved in signalling in the Spitz/epidermal growth factor receptor/mitogen-activated protein kinase pathway. The Rhomboid family of proteins consists of intramembrane serine proteases containing several transmembrane domains. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2013]

Product images:



Circular map for RG221768