

Product datasheet for **RG209659**

RHBDD2 (NM_001040456) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RHBDD2 (NM_001040456) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: RHBDD2
Synonyms: NPD007; RHBDL7
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG209659 representing NM_001040456
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGGCTCGGGGCCGGGTGTCGCAGCTGGTCTTGTGTCCGAGGTGCCATCCGCCACCTTCTTCA
 CTGCGTCTCTCGTCTGGTTCCGGGCTCGCTGTTCTGCTGCAGCAGCCCTGGCGCCCTCGG
 CCTCACGCTGAAGTCGAGGCCCTTCGCAACTGGCAAGTTTACAGGCTGGTAACCTACATCTTTGTCTAC
 GAGAATCCCATCTCCCTGCCCTGCGGCGCTATCATCATCTGGCGCTTTGCTGGCAATTCGAGAGAACC
 TGGGCACCGTCCGCCACTGCTTCTCACCGTGATCTTCGCCATCTCTCCGCTATCATCTTCTGTCATT
 CGAGGCTGTGTCATCACTGTCAAAGCTGGGGAAAGTGGAGGATGCCAGAGGTTTACCCCAAGTGGCCTT
 GCCATGCTGGGAGTCAACACCGTCCGTTCTCGGATGAGGCGGGCCCTGGTGTGGCATGTTGTGCCCT
 CAGTCTGGTTCCGTGGCTCCTGCTGGGTGCCTCGTGGCTCATTCCCGACCTCTTTCCTCAGTAATGT
 CTGCGGGCTGTCCATCGGGCTGGCTATGGCTCACCTACTGCTATTCCATCGACCTCTCAGAGCGAGTG
 GCGCTGAAGCTCGATCAGACCTTCCCTTCAGCCTGATGAGGAGGATATCCGTGTTCAAGTACGTCTCAG
 GGTCTTCAGCCGAGAGGAGGGCAGCCAGAGCCGAACTGAACCCGGTGCCTGGCTCCTACCCACACA
 GAGCTGCCACCTCACCTGTCCCAAGCCACCTGTGTCCAGACGCAGCACGCCAGTGGTCAGAAGCTG
 GCCTCTGGCCCTCCTGCACCCCGGGCAGTCCACCTTGCCTCCGTACCAGCTGCCCGGCTGT
 GCTATGTGAGAACCCTTTGGTCCAAACCCACCTCCTCCAGTGTCTACCCAGCTTCTGCGGGCACCTC
 CCTGGGCATCCAGCCCCACGCTGTGAACAGCCCTGGCACGGTGTATTCTGGGCTTGGGCACACCA
 GGGGCTGCAGGCTCAAGGAGTCTCCAGGTTCCCATGCCC

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG209659 representing NM_001040456
 Red=Cloning site Green=Tags(s)

MAASGPGCRSWCLCEVPSATFFTALLSLLVSGPRLFLLQQPLAPSGTLKSEALRNWQVYRLVITYIFVY
 ENPISLPCGAI I IWR FAGNFERTVGTVRHCFFTVIFAIFSAIIFLSFEAVSSLSKLGVEVDARGFTPVAF
 AMLGVTTVRSRMRRALVFGMVVPSVLVPWLLLGASWLIPQTSFLSNVCGLSIGLAYGLTYCYSIDLSE
 ALKLDQTFPFSLMRRISVFKYVSGSSAERRAAQSRKLNVPVPGSYPTQSCHPHLSPSHPVSQTQHASGQKL
 ASWPSC TPGHMP TLP PYQPASGLCYVQNHFGPNPTSSSVYPASAGTSLGIQPPTPVNSPGTVVYSGALGTP
 GAAGSKESSRVPMP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001040456

ORF Size: 1092 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_001040456.1](#), [NP_001035546.1](#)

RefSeq Size: 1756 bp

RefSeq ORF: 1095 bp

Locus ID: 57414

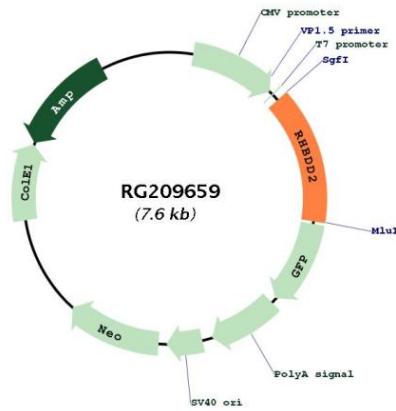
UniProt ID: [Q6NTE9](#)

Cytogenetics: 7q11.23

Protein Families: Transmembrane

Gene Summary: The protein encoded by this gene is a member of the rhomboid family of membrane-bound proteases and is overexpressed in some breast cancers. Members of this family are involved in intramembrane proteolysis. In mouse, the orthologous protein associates with the Golgi body. [provided by RefSeq, Sep 2016]

Product images:



Circular map for RG209659