

Product datasheet for **RG229870**

RHBDD1 (NM_001167608) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RHBDD1 (NM_001167608) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: RHBDD1
Synonyms: RHBDL4; RRP4
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG229870 representing NM_001167608
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAACGGAGATCAAGAGGGATAAATACTGGACTTATTCTACTCCTTTCTCAAATCTTCCATGTTGGGA
TCAACAATATTCCACCTGTACCCTAGCAACTTTGGCCCTCAACATCTGGTTCTTCTTGAACCTCAGAA
GCCACTGTATAGCTCCTGCCTTAGTGTGGAGAAGTGTACCAGCAAAAAGACTGGCAGCGTTTACTGCTC
TCTCCCTTACCATGCTGATGATTGGCATTGTATTTCAATATGGCATCCATGCTCTGAAAGGAATAA
ATCTAGAAAGAAGACTGGGAAGTAGATGGTTTGCCTATGTTATCACCGCATTTTCTGTACTTACTGGAGT
GGTATACCTGCTCTTGCAATTTGCTGTTGCCGAATTTATGGATGAACCTGACTTCAAAGGAGCTGTGCT
GTAGGTTTCTCAGGAGTTTTGTTGCTTTGAAAGTTCTTAACAACCATTATTGCCCTGGAGGCTTTGTCA
ACATTTTGGGCTTTCCTGTACCGAACAGATTTGCTTGTGGGTGCGAACTTGTGGCTATTCATTTATTCTC
ACCAGGGACTTCTTCGCTGGGCATCTGGCTGGGATTCTGTTGGACTAATGTACTCAAGGGCCTCTG
AAGAAAATCATGGAAGCATGTGCAGCGGTTTTTCTCCAGTGTGGTTACCCAGGACGGCAATACTACT
TTAATAGTTCAGGCAGCTCTGGATATCAGGATTATTATCCGCATGGCAGGCCAGATCACTATGAAGAAGC
ACCCAGGAATATGACACGTACACAGCAGGACTGAGTGAAGAAGAAGCAGCTCGAGAGGCATTACAAGCC
AGCCTCTGGGACCGAGGAAATACCAGAAATAGCCACCACCTACGGTTTCATCTCTCACCAGAAGAAA
TGAGGAGACAGCGCTTACAGATTCGATAGCCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG229870 representing NM_001167608
 Red=Cloning site Green=Tags(s)

MQRRSRGINTGLILLLSQIFHVGINNIPPVTLATLALNIWFFLNPKPL YSSCLSVEKCYQQKDWRLLL
 SPLHHADDWHL YFNMASMLWKGINLERRLGSRWFAYVITAFSVL TGVVYLLLQFAVAEFMDEPDFKRSCA
 VGFSGVL FALKVLNNHYCPGGFVNILGFPVFNRFACWVELVAIHLFSPGTSFAGHLA GILVGLMYTQGPL
 KKIMEACAGGFSSSVGYPRQYYFNSSGSGYQDYYPHGRPDHYEEAPRNYD TYTAGLSEEEQLERALQA
 SLWDRGNTRNSPPPYGFHLSPEEMRRQRLHRFDSQ

TRTRPLE - GFP Tag - V

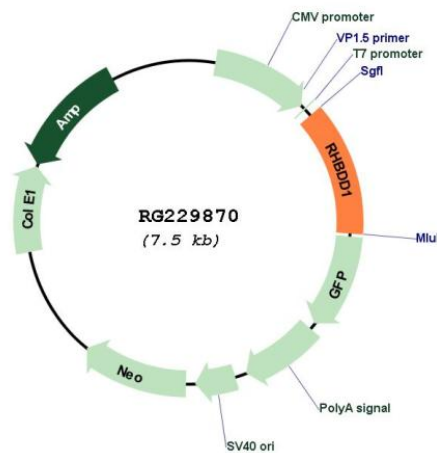
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001167608

ORF Size: 945 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:	NM_001167608.3
RefSeq Size:	5169 bp
RefSeq ORF:	948 bp
Locus ID:	84236
UniProt ID:	Q8TEB9
Cytogenetics:	2q36.3
Protein Families:	Transmembrane
Gene Summary:	Intramembrane-cleaving serine protease that cleaves single transmembrane or multi-pass membrane proteins in the hydrophobic plane of the membrane, luminal loops and juxtamembrane regions. Involved in regulated intramembrane proteolysis and the subsequent release of functional polypeptides from their membrane anchors. Functional component of endoplasmic reticulum-associated degradation (ERAD) for misfolded membrane proteins. Required for the degradation process of some specific misfolded endoplasmic reticulum (ER) luminal proteins. Participates in the transfer of misfolded proteins from the ER to the cytosol, where they are destroyed by the proteasome in a ubiquitin-dependent manner. Functions in BIK, MPZ, PKD1, PTCRA, RHO, STEAP3 and TRAC processing. Involved in the regulation of exosomal secretion; inhibits the TSAP6-mediated secretion pathway. Involved in the regulation of apoptosis; modulates BIK-mediated apoptotic activity. Also plays a role in the regulation of spermatogenesis; inhibits apoptotic activity in spermatogonia.[UniProtKB/Swiss-Prot Function]