

Product datasheet for **RG210708**

RHBDD1 (NM_032276) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RHBDD1 (NM_032276) 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:	>RG210708 representing NM_032276 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGCAACGGAGATCAAGAGGGATAAATACTGGACTTATTCTACTCCTTTCTCAAATCTTCCATGTTGGGA
 TCAACAATATTCCACCTGTACCCCTAGCAACTTTGGCCCTCAACATCTGGTTCTTCTGAACCTCAGAA
 GCCACTGTATAGCTCCTGCCTTAGTGTGGAGAAGTGTACCAGCAAAAAGACTGGCAGCGTTTACTGCTC
 TCTCCCTTCACCATGCTGATGATTGGCATTGTATTTCAATATGGCATCCATGCTCTGAAAGGAATAA
 ATCTAGAAAGAAGACTGGGAAGTAGATGGTTTGCCTATGTTATCACCGCATTTTCTGTACTTACTGGAGT
 GGTATACCTGCTCTTGCAATTTGCTGTTGCCGAATTTATGGATGAACCTGACTTCAAAGGAGCTGTGCT
 GTAGGTTTCTCAGGAGTTTTGTTTGGCTTTGAAAGTTCTTAACAACCATTATTGCCCTGGAGGCTTTGTCA
 ACATTTTGGGCTTTCTGTACCGAACAGATTTGCTTGTGGGTGCAACTTGTGGCTATTCAATTTATTCTC
 ACCAGGGACTTCCTTCGCTGGGCATCTGGCTGGGATTCTGTTGGACTAATGTACACTCAAGGGCCTCTG
 AAGAAAATCATGGAAGCATGTGCAGGCGGTTTTCTCCAGTGTGTTACCCAGGACGGCAATACTACT
 TTAATAGTTCAGGCAGCTCTGGATATCAGGATTATTATCCGCATGGCAGGCCAGATCACTATGAAGAAGC
 ACCCAGGAATATGACACGTACACAGCAGGACTGAGTGAAGAAGAAGCAGCTCGAGAGAGCATTACAAGCC
 AGCCTCTGGGACCGAGGAAATACCAGAAATAGCCACCCCTACGGGTTTCATCTCTACCAGAAGAAA
 TGAGGAGACAGCGGCTTCACAGATTCGATAGCCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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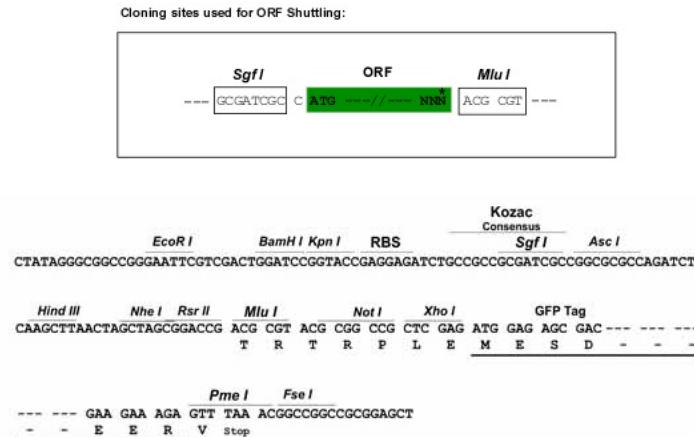
Protein Sequence: >RG210708 representing NM_032276
 Red=Cloning site Green=Tags(s)

MQRRSRGINTGLILLLSQIFHVGINNIPPVTLATLALNIWFFLNPKPLYSCLSVCKYQQKDWQRLLL
 SPLHHADDWHL YFNMASMLWKGINLERRLGSRWFAYVITAFSVLTGVVYLLLQFAVAEFMDEPDFKRSCA
 VGFSGVLFALKVLNNHYCPGGFVNILGFPVFNRFACWVELVAIHLFSFGTSAFAGHLAIGLVGLMYTQGPL
 KKIMEACAGGFSSSVGYPGRQYYFNSSGSGYQDYYPHGRPDHYEEAPRNYDTYTAGLSEEEQLERALQA
 SLWDRGNTRNSPPPYGFHLSPEEMRRQLHRFDSQ

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_032276

ORF Size: 945 bp

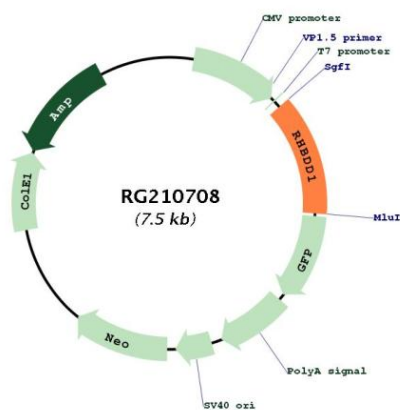
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_032276.5</u>
RefSeq Size:	2438 bp
RefSeq ORF:	948 bp
Locus ID:	84236
UniProt ID:	<u>Q8TEB9</u>
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]

Product images:



Circular map for RG210708