

Product datasheet for **RN213669**

Rhbdd1 (NM_001024891) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rhbdd1 (NM_001024891) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Rhbdd1
Synonyms:	RGD1306477; rRHBDD1; RRP4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN213669 representing NM_001024891 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAGCGGAGAACAAGAGGGATCGACACTGGCCTCCTTCTGCTCCTCTCAAGTGTCCACATCGGGA
TCAACAACATTCCACCTGTTACCCTCGCAACCTGGCTGTCAACGTCTGGTTCTTCTCTGAATCCTTGAA
GCCCTGTACCATTCTGCATCAGTGTGAAAAGTGTACCAGCAGAACGACTGGCAGCGTTTACTGCTT
TCTCCCGTGCACCACGGAGATGACTGGCATCTGTATTTCAACATGGTGTCCATGCTCTGAAAGGAGTGA
AGCTGGAGAAAAGGCTGGGGAGTCGGTGGTTTGCCTACATCATTGCCACGTTCTCCCTGCTTACGGGGT
GGTGATTTGCTCTTGAGTTTGCCTTCTGCAGAACTCATGAATCAGCCTGACTTCAAAGGAACTGTGCC
GTCCGGCTTCTCAGGCGTTTTGTTGCTTCAAAGTTCTTAGCAACCACTACTGCCCGGAGGCTTTGTCA
ACATTTTGGGCTTTCCTGTCCCCAACAGATTTGCTTGTGGGCAGAGCTGGCGGCCATTCACCTTCTGCAC
CCCAGGGACTTCTTTGCTGGGCATCTGGCCGGCATTCTCGTTGGACTGATGTACTCAGGGGCCCTCTG
AAGAAAATCATGGATGCATGTGCAGGCATTTTTATCTCCAACGCTGGGTCTTCAAGACAGCAGTACCACT
TTAATAATGCGGGCCCTCCGGATATCAGAATCGCTATACAGATGGCCGACCAGTGAACATGAAGCAAC
TTACAGGAACTATGACATCTACACAGCAGGCCTGAGCGAGGAGGAGCAGCTGGAACGAGCGTTAAGAGCC
AGCATCTGGGACCGAGGAAATACCAGAAATGGCCAATACCGTATGGGTTCCGGCTCCGCCAGAAGAAG
AAATGAGGAGACAGCGTCTTACAGATTTGATGGCCAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001024891



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Insert Size:	951 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<u>NM_001024891.1</u> , <u>NP_001020062.1</u>
RefSeq Size:	1352 bp
RefSeq ORF:	951 bp
Locus ID:	316557
UniProt ID:	<u>Q4V8F3</u>
Cytogenetics:	9q34
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 (By similarity).[UniProtKB/Swiss-Prot Function]