

## Product datasheet for **SC312924**

### **RHBDD1 (AK074258) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RHBDD1 (AK074258) Human Untagged Clone
Tag:	Tag Free
Symbol:	RHBDD1
Synonyms:	RRP4
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for AK074258, the custom clone sequence may differ by one or more nucleotides ATGCAACGGAGATCAAGAGGGATAAATACTGGACTTATTCTACTCCTTTCTCAAATCTTC CATGTTGGGATCAACAATATTCCACCTGTACCCTAGCAACTTTGGCCCTCAACATCTGG TTCTTCTTGAACCCTCAGAAGCCACTGTATAGCTCCTGCCTTAGTGTGGAGAAGTGTAC CAGCAAAAAGACTGGCAGCGTTTACTGCTCTCTCCCTTCACCATGCTGATGATTGGCAT TTGTATTTCAATATGGCATCCATGCTCTGGAAAGGAATAAATCTAGAAAGAAGACTGGGA AGTAGATGGTTTTGCCTATGTTATCACCGCATTTTCTGTACTTACTGGAGTGGTATACCTG CTCTTGCAATTTGCTGTTGCCGAATTTATGGATGAACCTGACTTCAAAGGAGCTGTGCT GTAGGTTTCTCAGGAGTTTTGTTTGCTTTGAAAGTTCTTAACAACCATTATTGCCCTGGA GGCTTTGTCAACATTTTGGGCTTTCCTGTACCGAACAGATTTGCTTGTGGGTGCAACTT GTGGCTATTCAATTTATTCTCACCAGGGACTTCCTTCGCTGGGCATCTGGCTGGGATTCTT GTTGGACTAATGTACACTCAAGGGCCTCTGAAGAAAATCATGGAAGCATGTGCAGGCGGT TTTTCTCCAGTGTGGTTACCCAGGACGGCAATACTACTTTAATAGTTCAGGCAGCTCT GGATATCAGGATTATTATCCGCATGGCAGGCCAGATCACTATGAAGAAGCACCCAGGAAC TATGACACGTACACAGCAGGACTGAGTGAAGAAGAAGCAGCTCGAGAGAGCATTACAAGCC AGCCTCTGGGACCGAGGAAATACCAGAAATAGCCACCACCCTACGGGTTTCATCTCTCA CCAGAAGAAATGAGGAGACAGCGCTTCACAGATTTCGATAGCCAG
Restriction Sites:	Please inquire
ACCN:	AK074258
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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.



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<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">AK074258.1</a></u> , <u><a href="#">BAB85031.1</a></u>
<b>RefSeq Size:</b>	2438 bp
<b>RefSeq ORF:</b>	948 bp
<b>Locus ID:</b>	84236
<b>Cytogenetics:</b>	2q36.3
<b>Domains:</b>	Rhomboid
<b>Protein Families:</b>	Transmembrane
<b>Gene Summary:</b>	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]