

## Product datasheet for **SC310551**

### **RHBDL2 (NM\_017821) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RHBDL2 (NM_017821) Human Untagged Clone
Tag:	Tag Free
Symbol:	RHBDL2
Synonyms:	RRP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_017821, the custom clone sequence may differ by one or more nucleotides

```
ATGGCTGCTGTTTCATGATCTGGAGATGGAGAGCATGAATCTGAATATGGGGAGAGAGATGAAAGAAGAGC
TGGAGGAAGAGGAGAAAAATGAGAGAGGATGGGGGAGGTAAAGATCGGGCCAAGAGTAAAAAGGTCCACAG
GATTGTCTCAAAATGGATGCTGCCCGAAAAGTCCCGAGGAACATACTTGGAGAGAGCTAACTGCTTCCCG
CCTCCCGTGTTCATCATCTCCATCAGCCTGGCCGAGCTGGCAGTGTATTTACTATGCTGTGTGGAAGC
CTCAGAAACAGTGGATCACGTTGGACACAGGCATCTTGGAGAGTCCCTTTATCTACAGTCTGAGAAGAG
GGAGGAAGCCTGGAGTTTATCTCATACTGCTGGTACATGCTGGAGTTCAGCACATCTTGGGGAATCTT
TGTATGCAGCTTGTGGGTATTCCCTTGAAATGGTCCACAAAGGCCCTCCGTGTGGGGCTGGTGTACC
TGGCAGGAGTGATTGCAGGGTCCCTTGCCAGCTCCATCTTTGACCCACTCAGATATCTTGTGGGAGCTTC
AGGAGGAGTCTATGCTCTGATGGGAGGCTATTTTATGAATGTTCTGGTGAATTTTCAAGAAATGATTCTT
GCCTTTGGAATTTTCAGACTGCTGATCATCCTGATAATTGTGTTGGACATGGGATTTGCTCTCTATA
GAAGGTTCTTTGTTTCTGAAGATGGGTCTCCGGTGTCTTTTGCAGCTCACATTGCAGGTGGATTTGCTGG
AATGTCCATTGGCTACACGGTGTAGCTGCTTTGATAAAGCACTGCTGAAAGATCCAAGTTTTGGATA
GCAATTGCTGCATATTTAGCTTGTGTCTATTTGCTGTGTTTTCAACATTTTCTATCTCCAGCAAAC
GA
```

Restriction Sites:	Please inquire
ACCN:	NM_017821



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**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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 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.

**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\\_017821.3](#), [NP\\_060291.2](#)

**RefSeq Size:** 1838 bp

**RefSeq ORF:** 912 bp

**Locus ID:** 54933

**UniProt ID:** [Q9NX52](#)

**Cytogenetics:** 1p34.3

**Protein Families:** Protease, Transmembrane

**Gene Summary:**

The protein encoded by this gene is a member of the rhomboid family of integral membrane proteins. This family contains proteins that are related to *Drosophila* rhomboid protein. Members of this family are found in both prokaryotes and eukaryotes and are thought to function as intramembrane serine proteases. The encoded protein is thought to release soluble growth factors by proteolytic cleavage of certain membrane-bound substrates, including ephrin B2 and ephrin B3. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2015]

**Transcript Variant:** This variant (2) uses an alternate first exon in place of that of variant 1, which results in variant 2 using a downstream translation start site compared to variant 1. The resulting isoform (2) is shorter at the N-terminus compared to isoform 1. **Sequence Note:** This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.