

## Product datasheet for **SC126789**

### **RER1 (NM\_007033) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RER1 (NM_007033) Human Untagged Clone
Tag:	Tag Free
Symbol:	RER1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC126789 sequence for NM_007033 edited (data generated by NextGen Sequencing)

```
ATGTCTGAAGGGGACAGTGTGGGAGAATCCGTCCATGGGAAACCTTCGGTGGTGTACAGA  
TTTTTCACAAGACTTGGACAGATTTATCAGTCCTGGCTAGACAAGTCCACACCCTACACG  
GCTGTGCGATGGGTCTGACACTGGGCCTGAGCTTTGTCTACATGATTGAGTTTACCTG  
CTGCAGGGTTGGTACATTGTGACCTATGCCTTGGGGATCTACCATCTAAATCTTTTCATA  
GCTTTTCTTTCTCCCAAAGTGGATCCTTCTTAATGGAAGACTCAGATGACGGTCCTTCG  
CTACCCACCAAACAGAACGAGGAATCCGCCCTTCATTCGAAGGCTCCCAGAGTTTAA  
TTTTGGSATGCGGCTACCAAGGGCATCCTTGTGGCTATGGTCTGTACTTTCTTCGACGCT  
TTCAACGTCCCGGTGTTCTGGCCGATTCTGGTGATGTACTTCATCATGCTCTTCTGTATC  
ACGATGAAGAGGCAAATCAAGCACATGATTAAGTACCGGTACATCCCGTTCACACATGGG  
AAGAGAAGGTACAGAGGCAAGGAGGATGCCGGCAAGGCCTTCGCCAGCTAG
```

Clone variation with respect to NM\_007033.4  
367 c=>s



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_007033 unedited  
 NGTTTCGNATTTTGTAAATACGACTTCACTATAGGGCGGCCGCGATTTCGGCACGAGGGTCTCT  
 CCTTCCCAGCGCCGTGAGGGAGACCCGGCTCGGCCGTAGCGGAGCTGCGAGTTACAGAA  
 TGTCTGAAGGGGACAGTGTGGGAGAATCCGTCCATGGGAAACCTTCGGTGGTGTACAGAT  
 TTTTACAAGACTTGGACAGATTTATCAGTCTGGCTAGACAAGTCCACACCCTACACGG  
 CTGTGCGATGGGTCTGACACTGGGCCTGAGCTTTGTCTACATGATTTCGAGTTTACCTGC  
 TGCAGGGTTGGTACATTGTGACCTATGCCTTGGGGATCTACCATCTAAATCTTTTCATAG  
 CTTTTCTTCTCCCAAAGTGGATCCTTCCCTTAATGGAAGACTCAGATGACGGTCCCTTCGC  
 TACCCACCAAACAGAACGAGGAATTCGCCCTTCATTGGAAGGCTCCCAGAGTTTAAAT  
 TTTGGGATGCTTCTGTTTGGGGACGGTTCGGTGCAGCTGCAAGGCTGGAGGCGGCCGGC  
 AGGTGCCCGGTGCTGGTGCAGATGCGGCGCTAACCTTCTCTCCCCTTGAAGGCATGC  
 GGCTACCAAGGGCATCCTTGTGGCTATGGTCTGTACTTTCTTCGACGCTTCAACGTCCC  
 GGTGTTCTGGCCGATTCTGGTGTACTTTCATCATGCTTCTGTATCACGATGAAGAG  
 GCAAATCAAGCACATGATTAAGTACCGGTACATCCGTTACACATGGGAAGAGAAGGTA  
 CCAGAGGCAGGAGGATGCCGGGAGGCCTTCGCCAGCTAGAAGCGGGACTGAGGTCGCCT  
 CACGTGTTGCAAGAACAGTTTTGAGCCATTGNNNTACATGCCCTTTTTCTCACATAAGT  
 AGTTGATACGC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_007033 unedited  
 GACCGCGCCGCTTTTAGNATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAAATATA  
 ATATATATTTATAATTCCGGGCCCTCAAAGCAATCATGGTAGTTAAAAACCAAGTTTTG  
 AGTCATTAGGATAGAGGCCAACTTTAAACATCTCCAGTGAGATGGAATTAGGAACTGGC  
 ATAAAAACCCACACAGTTACTTGACAATCACCTTTAAACGTTAAGTTCTTTTCGGACAC  
 GCAGGAATCAGGCTAGATCATCCCTCGGGCTCTGTGGAGTGGCTGGCACCACCTGCGGCT  
 GCTGGGGAAGGCGCTGGCGGGGAGCGGCCCTTCCTCCCTCGCAGGCCTTGCTCCTGCC  
 TGCCACCTGGCACAGCGGGGACCGGCCACTCGCCCTTGCTCCCATGGGCTCCACCCGCC  
 TGGCTTCCCGCTGCAGCTGACTAAAATTCATCCGTGAGAAACACTTGAACGCTCACTGA  
 AAAAGAAATCCATGCGATTTGGTTAAGCGCCAGTTTCTTCTAGAACCTGATATTTCACT  
 TACAAATCATTGAAGCTCCTTTTTAAAAAGAAAATTTGACTCCCTCGTAATCACTACTT  
 TATGTGAAGAAAAAGGCATTGTTAACAATGGCTCAAACCTGTTCTTGAACACGTGAGG  
 CAGCCTCAGTCCCGCTTCTAGCTGGCGAAGGCCTTGCCGGCATCCTCCTTGCCTCTGTAC  
 CTTCTCTNCCATGTGTGAACGGGATGTACCGNACTTAATCATGTGCCTGATTTGCCTC  
 TTCATCGNGATACAGAAGAGCCTGATGAAGTTCATACCAGAATCCGCCCGAACACCGGGA  
 CGTTGAAGCGTCGAGAAAGTACAGACCATACCACANGATGCCCTTGGTACCGCATCCTTT  
 AGTGGGAGAGAAAGTATCGNCGNTCTGCACCACACCGGGACCTGG

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_007033

**Insert Size:**

1460 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:**

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\\_007033.2](#), [NP\\_008964.2](#)

**RefSeq Size:** 1417 bp

**RefSeq ORF:** 621 bp

**Locus ID:** 11079

**UniProt ID:** [O15258](#)

**Cytogenetics:** 1p36.32

**Domains:** Rer1

**Protein Families:** Transmembrane

**Gene Summary:** The protein encoded by this gene is a multi-pass membrane protein that is localized to the golgi apparatus. It is involved in the retention of endoplasmic reticulum (ER) membrane proteins in the ER and retrieval of ER membrane proteins from the early Golgi compartment to facilitate gamma-secretase complex assembly. [provided by RefSeq, Oct 2009]