

## Product datasheet for **RG200545**

### **RER1 (NM\_007033) Human Tagged ORF Clone**

#### Product data:

Product Type: Expression Plasmids  
Product Name: RER1 (NM\_007033) Human Tagged ORF Clone  
Tag: TurboGFP  
Symbol: RER1  
Mammalian Cell Selection: Neomycin  
Vector: pCMV6-AC-GFP (PS100010)  
E. coli Selection: Ampicillin (100 ug/mL)  
ORF Nucleotide Sequence: >RG200545 representing NM\_007033  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCTGAAGGGGACAGTGTGGGAGAATCCGTCCATGGGAAACCTTCGGTGGTGTACAGATTTTTCACAA  
GACTTGGACAGATTTATCAGTCTGGCTAGACAAGTCCACACCCTACACGGCTGTGCGATGGGTCGTGAC  
ACTGGGCTGAGCTTTGTCTACATGATTCGAGTTACCTGCTGCAGGGTTGGTACATTGTGACCTATGCC  
TTGGGGATCTACCATCTAAATCTTTTCATAGCTTTTCTTTCTCCCAAAGTGGATCCTTCTTAATGGAAG  
ACTCAGATGACGGTCCTTCGCTACCCACCAACAGAACGAGGAATCCGCCCTTCATTCGAAGGCTCCC  
AGAGTTTAAATTTTGGCATGCGGCTACCAAGGGCATCCTTGTGGCTATGGTCTGTACTTTCTTCGACGCT  
TTCAACGTCCCGGTGTTCTGGCCGATTCTGGTGTACTTCATCATGCTCTTCTGTATCAGATGAAGA  
GGCAAATCAAGCACATGATTAAGTACCGGTACATCCCCTTACACATGGGAAGAGAAGGTACAGAGGCAA  
GGAGGATGCCGGCAAGGCCTTCGCCAGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG200545 representing NM\_007033  
Red=Cloning site Green=Tags(s)

MSEGDSVGESVHGKPSVYRFFTRLGQIYQSWLDKSTPYTAVRWVVTGLSFVYMIRVYLLQGWIYVTYA  
LGIYHLNLFIAFLSPKVDPSLMEDSDDGPSLPTKQNEEFRPFIRRLPEFKFWHAATKGILVAMVCTFFDA  
FNVPVFWPILVMYFIMLFCITMKRQIKHMIKYRYIPFTHGKRRYRGKEDAGKAFAS

**TRTRPLE** - GFP Tag - V

Restriction Sites: SgfI-MluI



**Cloning Scheme:**


**ACCN:** NM\_007033

**ORF Size:** 588 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.

**RefSeq:** [NM\\_007033.5](#)

**RefSeq Size:** 1417 bp

**RefSeq ORF:** 591 bp

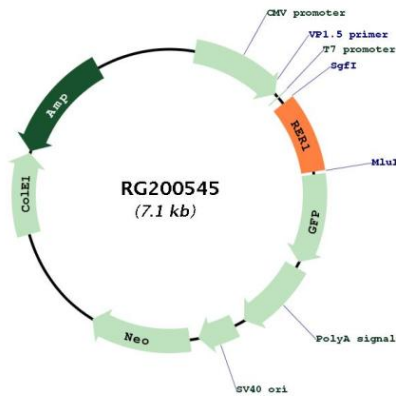
**Locus ID:** 11079

**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]

**Product images:**



Circular map for RG200545