

## Product datasheet for **SC305693**

### **RNF157 (NM\_052916) Human Untagged Clone**

#### **Product data:**

|                           |                                         |
|---------------------------|-----------------------------------------|
| Product Type:             | Expression Plasmids                     |
| Product Name:             | RNF157 (NM_052916) Human Untagged Clone |
| Tag:                      | Tag Free                                |
| Symbol:                   | RNF157                                  |
| Mammalian Cell Selection: | Neomycin                                |
| Vector:                   | pCMV6-Entry (PS100001)                  |
| E. coli Selection:        | Kanamycin (25 ug/mL)                    |



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**Fully Sequenced ORF:** >SC305693 representing NM\_052916.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCACGATCGCC
ATGGGGGCCCTGACGAGCCGGCAGCAGCGGGCGTGGAGGAGGTGGACATCCCGTCTAATTCGTGTAC
CGCTACCCGCCCAAGTCCGGAAGCTATTTTGCCAGCCACTTCATTATGGGAGGAGAGAAGTTTGACTCA
ACTCATCCTGAAGGTTACCTGTTTGGAGAGAAGCAGCGATCTGAACTTTCTGGGGAACAGACAGTTGTG
TTTCCTTACGCCGCCACCTCCCAAGAACCCTGAAGACTCTGAGAAGCCTGGTCAATATCCGAAG
GACACACTGAGGCTCGTCAAATGTGCTGAGGAAGTGAAGAGCCCTGGAGAAGAGGCCAGTAAAGTAAA
GTCCACTACAATGTTGAGTTCACCTTTGACACAGATGCTCGGGTAGCCATCACCATCTATTACCAGGCC
ACGGAAGAGTTCCAGAATGGTATTGCCAGCTACATTCCTAAAGACAACAGCCTCCAGTCGGAGACTGTG
CAGTACAAGCGAGGAGTGTGTCAGCAGTTCTGCCTGCCCTCCACACCGTGGATCCCTCCGAGTGGGCC
GAAGAGGAGCTTGGCTTTGATTTAGACCGAGAAGTTTACCCTCTAGTGGTACATGCCGTGGTGGATGAA
GGAGACGAGTATTTGGCCATTGCCATGTACTGCTGGTACTTTTGAAGACACAGATGGAATTTTC
TGTGTCAAGCCCCCTCAAACAGAAACAAGTAGTAGACGGGGTCAGTACCTCCTTACGAGATCTATGGA
ATTGAAAACAAGTACAACACACAAGATTCTAAGGTGGCTGAAGACGAAGTGAAGTATAACAGTGCCGAG
TGTGTGGTGTGTCTCTCGGATGTCCGGGACACCTTGATTCTGCCCTGTGCCACCTCTGCCTCTGTAAAC
ACCTGTGCAGACACGCTGCGCTACCAAGGCAACAACCTGCCCACTCTGCCGACTGCCCTTCCGGGCACTG
CTTCAGATCCGAGCCATGAGGAAAAATTTGGGCCCTTGTCCCAACAGCTTTAACCCCATCATCTCA
TCCCAGACATCTGACTCTGAAGAGCATCCATCCTCAGAGAATATTCCACCAGGCTATGAAGTAGTATCT
CTTCTGGAGGCCCTCAACGGGCCCCCTCACCCGTCCTCCAGCAGTTCCTCCACTTCAGTGGTGGAGAT
GGCCACCTCTCAGGAATGCTCCCTTCATATGGCAGTGATGGCCACCTGCCCCCGTCAGGACGATCTCG
CCTCTTGACCGCCTGTCTGACAGCAGCAGTCAGGGAAGTCAAACTCAAAAAGAGTCTCTCCAATCCACT
TCCCAAACTCTTCCGTGCTGCATGAAGAGGAAGTGAAGTTCCTGCAGCGAGTCGGAGACACAGCTC
TCTCAGAGACCGTCGGTTCAGCATCTCGGAGAGGAATGTGGTGTGACTCCAGAAAGTGAAGTCTCACC
TTGTGCTCATCTGGAGCTATTGACCAAGTCGTCTTGACAGGGACGCTCTGTATCCACTATTTCTCC
CCAGAAGGCCCTGCCAGCAGCAGCTTGGCCAGTCTGTATGTCCATGGCATCCTCCAGATCAGCACT
GACACCGTCTCTCCATGTCTGGCTCTACATCGCCCCTGGCACTGAAGAGGAGGAGAGGCTCTCTCT
TCCCCCAGCCTGCCAGCAGGGCCCCCTCAGAAGAAGGAGAGGGGCTGCCAGCGGAGTCTCCAGACAGC
AACTTTGTGGCTCCCAGCTGGAGAGCAGGATGCAGAGGGAATGATGTTATAGAGGAAGAGGATGGA
TACCCACGCAGGAAGGCCAGAGGACGTGCGCATTCTAGGTATGGAGTGTGACAATAACATGACTTT
GACATCGCAAGCGTGAAAGCACTGGACAATAAGCTGTGCTCTGAGGTCTGCTTACCTGGTGCCTGGCAG
GCTGATGACAATGCCGTAGTCGGAATGCCAGCGCCGGCGCTTGTATCCAGCAGCCTGGAGGACTCT
GAGACGAGGCCCTGTGTGTGGGGCCCTTTGGCTGTCTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
  
```

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_052916

**Insert Size:** 2040 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).

**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.

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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>NM_052916.2</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>RefSeq Size:</b>           | 4915 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>RefSeq ORF:</b>            | 2040 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Locus ID:</b>              | 114804                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>UniProt ID:</b>            | <u>Q96PX1</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Cytogenetics:</b>          | 17q25.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Protein Families:</b>      | Druggable Genome                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>MW:</b>                    | 73.6 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Gene Summary:</b>          | E3 ubiquitin ligase that ubiquitinates APBB1 for its degradation by the proteasome and thus prevents apoptosis and promotes survival of neurons (PubMed:25342469). Has a dual role in neurons as it is also required for dendrite growth and maintenance for which its ligase activity is not critical (PubMed:25342469). May act as a scaffold molecule to regulate this process (PubMed:25342469). Acts as a downstream effector of the interconnected PI3K and MAPK signaling pathways and thus participates in the regulation of the cell cycle (PubMed:28655764).[UniProtKB/Swiss-Prot Function] |