

## Product datasheet for **SC332072**

### **RGNEF (ARHGEF28) (NM\_001244364) Human Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** RGNEF (ARHGEF28) (NM\_001244364) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** RGNEF  
**Synonyms:** p190RHOGEF; RGNEF; RIP2  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC332072 representing NM\_001244364.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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**Restriction Sites:**

Sgfl-Mlul

**ACCN:**

NM\_001244364

**Insert Size:**

4179 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\\_001244364.1](#)

**RefSeq Size:** 5247 bp

**RefSeq ORF:** 4179 bp

**Locus ID:** 64283

**UniProt ID:** [Q8N1W1](#)

**Cytogenetics:** 5q13.2

**MW:** 157.3 kDa

**Gene Summary:** This gene encodes a member of the Rho guanine nucleotide exchange factor family. The encoded protein interacts with low molecular weight neurofilament mRNA and may be involved in the formation of amyotrophic lateral sclerosis neurofilament aggregates. Alternate splicing results in multiple transcript variants.[provided by RefSeq, Apr 2010]  
Transcript Variant: This variant (3) has multiple differences, compared to variant 1. These differences result in a distinct 5' UTR and cause translation initiation at an alternate start codon, compared to variant 1. The encoded protein (isoform 3) is shorter and has a distinct N-terminus, compared to isoform 1.