

## Product datasheet for **SC308137**

### **RAPH1 (NM\_203365) Human Untagged Clone**

#### **Product data:**

|                           |                                                          |
|---------------------------|----------------------------------------------------------|
| Product Type:             | Expression Plasmids                                      |
| Product Name:             | RAPH1 (NM_203365) Human Untagged Clone                   |
| Tag:                      | Tag Free                                                 |
| Symbol:                   | RAPH1                                                    |
| Synonyms:                 | ALS2CR9; ALS2CR18; LPD; PREL-2; PREL2; RaIGDS/AF-6; RMO1 |
| Mammalian Cell Selection: | Neomycin                                                 |
| Vector:                   | pCMV6-Entry (PS100001)                                   |
| E. coli Selection:        | Kanamycin (25 ug/mL)                                     |



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**Fully Sequenced ORF:** >SC308137 representing NM\_203365.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCACGATCGCC
ATGGAGCAGCTATCAGATGAAGAAATTGATCATGGTGTGAAGAAGACAGTGACAAGGAAGATCAGGAC
CTGGACAAAATGTTTGGAGCCTGGCTTGGAGAACTAGACAACTCACTCAGAGTTTGGATTCTGACAAG
CCCATGGAACCAAGTAAAAAGATCTCTCTTCGCCAGGAAACAAACATGGCCAACCTTTCTTACCGCTTC
TCCATATACAACCTGAATGAAGCTCTGAATCAGGAGAGAGCTGTGGATCTGGATGCCTTGATGGCTGAT
CTTTGCTCTATAGAGCAGGAGCTCAGCAGCATTGGTTCAGGAAACAGTAAGCGTCAAATCACAGAAACG
AAAGCTACTCAGAAATTGCCTGTTAGCCGACATACATTGAAACATGGCACCTTGAAAGGATTATCTTCT
TCATCTAATAGGATAGCTAAACCTTCCCATGCCAGCTACTCCTTGGACGACGCTCACTGCACAGTTAGAA
CAGGCCTCTTTGAGTATGGATGAGGCTGCTCAGCAATCTGTACTAGAAGATACTAAACCTTAGTAAT
AATCAGCAGAGAAGAACCGCTCAGCAGGCACAGTGAGTGATGCTGAAGTACACTCTATTAGTAATTCC
TCCATTCCAGCATCACTTCCGAGCCTCCAGCATGGACTCTTTGGATATTGATAAAGTAACACGCCCT
CAAGAGCTGGATTGACACATCAAGGGCAGCCAATTACTGAGCATGCTATTTCTCTGAGATGTTCCAGC
AAGCAGGCCAAGCGTCATATTGACTTCACAGAAGAAGAGGCTGAGCTGACACCTCACTCCTATCTGGAC
AGGGAAACCTCCCTTCTCTGAGAAACATTGCAGGAAACCTTCTCATTTGCTGACCAAGGAAGAAGCAG
GCAGCAAAATTGAAAGCTGAGAAGATCAGAGTTGCCCTAGAGAAAATTAAGAGGCACAAGTGAAAAAG
CTGGTGATCAGAGTCCACATGTCTGATGACAGTTCTAAACAATGATGGTGGATGAGAGGCAGACAGTA
AGACAAGTACTGGATAACCTGATGGACAAATCCCACTGCGGTTATAGTTTAGACTGGTCACTGGTAGAA
ACCGTTTCTGAATTACAAATGGAGAGAATCTTTGAAGACCATGAAAACCTGGTTGAAAATCTTCTTAAT
TGGACAAGAGATAGCCAAAACAAGCTTATATTTATGGAGCGTATAGAAAAATATGCACTTTTCAAAAAC
CCACAGAAATTATCTTTTGGGGAAAAAGAAACAGCTGAGATGGCAGATAGAAACAAAGAAGTCCTTTG
GAGGAATGTTTTGTGGAAGTTCTGTAACGTGACCAAGAAATTGAAGGAGTCCTTTGGTTGAAGGATGAT
GGCAAGAAGTCCTGAAAAAGCGTTATTTTCTCTTGCAGCATCTGGTATCTACTATGTTCCCAAAGGA
AAAGCAAAGGTCTCTCGGGATCTGGTGTGCTTTCTCCAGCTGGATCATGTCAACGTTTATTATGGCCAG
GACTATCGGAACAAATACAAAGCACCTACAGACTATTGTCTGGTGTGAGCATCCACAAATCCAGAAG
AAATCTCAATATATCAAATACCTTTGTTGTGATGATGTGAGGACACTGCATCAGTGGGTCAATGGGATC
CGCATTGCAAAGTATGGGAAGCAGCTCTATATGAACTACCAAGAAGCCTTGAAGAGGACAGAGTCAGCC
TATGATTGGACTTCCTTATCCAGCTCCAGCATTAAATCGGGATCCAGTTCTTCCAGCATCCAGAGTCT
CAGTCAAACCACTCCAATCAGTCTGATAGCGGAGTTTCTGACACCCAGCCAGCAGGACACGTCCGTTCC
CAGAGCATTGTGAGCTCCGTATTCTCTGAAGCCTGAAACGAGGCACTCAGTTGGAAGAGTCCAGCAAG
TAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
```

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_203365  
**Insert Size:** 1935 bp

**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\\_203365.3](#)

**RefSeq Size:** 2782 bp

**RefSeq ORF:** 1935 bp

**Locus ID:** 65059

**UniProt ID:** [Q70E73](#)

**Cytogenetics:** 2q33.2

**MW:** 72.9 kDa

**Gene Summary:**

This gene encodes a protein that belongs to the Mig10/Rap1-interacting adaptor molecule/Lamellipodin family of adapter proteins, which function in cell migration. Members of this family contain pleckstrin-homology domains, Ras-association domains, and proline-rich C-termini. The protein encoded by this gene regulates actin dynamics through interaction with Ena/Vasodilator proteins as well as direct binding to filamentous actin to regulate actin network assembly. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2016]

Transcript Variant: This variant (3) has two consecutive additional exons in the coding region and an alternate 3' terminal exon, which results in an immediate translation termination, compared to variant 1. The resulting isoform (3) has an additional int