

## Product datasheet for **SC337089**

### **FARP2 (NM\_001282983) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	FARP2 (NM_001282983) Human Untagged Clone
Tag:	Tag Free
Symbol:	FARP2
Synonyms:	FIR; FRG; PLEKHC3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

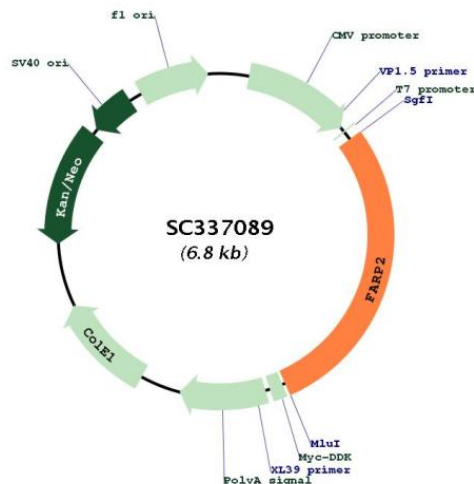


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Fully Sequenced ORF: >SC337089 representing NM\_001282983.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGGGGAGATAGAAGGAACATACAGAGTCCTGCAGACTGCAGGGATGCGCTTGGGTGCCAGACCCCT
GTGGGAGTTAGCACCCCTTGAGCCTGGGCAGACTCTTTGCCAGAATGCAAGAGAAGCACCTGCACCTC
AGAGTAAAGCTGCTGGACAACCCATGGAAATATTTGACATTGAGCCTAAATGCGATGGCCAGGTATTA
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CAGTCCTACTGGATTTGGCTTGAACCTATGAAACCCATCATTAGGCAAATACGAAGGCCAAAGAATGTG
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CACAGCAAGACCCACACGTCCGTTGAGCTCTGACTGCAGACTACCAAAAACAGAGCATCTCATTCCCC
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CCACTCCTGAGCCCTGTCTCAGTGTGCTGGCGGAGCCGGGATGGACTGCGAGGAGCCAGACACAAG
CGCGTGCCTGCAGACGAGGCCTACTTCATAGTCAAAGAGATTCTCGCTACAGAACGAACATACCTCAAG
GATTTAGAAGTTATTACCGTGTGGTCCGACGCGCAGTGGTGAAGGAGGACGCCATGCCTGCGACTCTG
ATGACGCTGCTCTTCTCAACATCGATCCCATCTATGAGTTCACAGAGGCTTCTGCGGAGGTGGAG
CAGAGGCTGGCACTCTGGGAAGGGCCCTCAAAGCCACACAAAAGGCAGTCATCAACGAATCGGGGAC
ATCCTGCTCAGGAACATGCGCCAGTTAAAGGTGTTCCAGCTCCACGAAGGGCATGTAGCAGGGGTACA
AAAATGGAGTAG
ACCGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI

**Plasmid Map:**


**ACCN:** NM\_001282983

**Insert Size:** 1944 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\\_001282983.1](#)

**RefSeq Size:** 2651 bp

**RefSeq ORF:** 1944 bp

**Locus ID:** 9855

**UniProt ID:** [O94887](#)

**Cytogenetics:** 2q37.3

**Protein Pathways:** Adherens junction

**MW:** 73.3 kDa

**Gene Summary:**

Functions as guanine nucleotide exchange factor that activates RAC1. May have relatively low activity. Plays a role in the response to class 3 semaphorins and remodeling of the actin cytoskeleton. Plays a role in TNFSF11-mediated osteoclast differentiation, especially in podosome rearrangement and reorganization of the actin cytoskeleton. Regulates the activation of ITGB3, integrin signaling and cell adhesion (By similarity).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) lacks several 3' exons but includes a novel 3' terminal exon, and it thus differs in the 3' coding region and 3' UTR, compared to variant 1. The encoded isoform (b) has a distinct and shorter C-terminus, compared to isoform a.