

Product datasheet for **RC239177**

FARP2 (NM_001282984) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FARP2 (NM_001282984) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FARP2
Synonyms:	FIR; FRG; PLEKHC3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide
Sequence:**

>RC239177 representing NM_001282984
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGGAGATAGAAGGAACATACAGAGTCTGCAGACTGCAGGGATGCGCTTGGGTGCCAGACCCTG
 TGGGAGTTAGCACCCCTTGAAGCTGGGCAGACTCTTTGCCAGAATGCAAGAGAAGCACCTGCACCTCAG
 AGTAAAGCTGCTGGACAACCATGGAATATTTGACATTGAGCCTAAATGCGATGGCCAGGTATTACTG
 ACACAAGTGTGGAAGCGTTAAACCTGGTAGAATGTGACTACTTCGGGATGGAGTTTCAAAATACTCAGT
 CCTACTGGATTTGGCTTGAACCTATGAAACCCATCATTAGGCAAATACGAAGGCCAAAGAATGTGGTGCT
 TCGCTAGCTGTAAAATTTTTCCACCTGATCCTGGTCAGCTACAAGAAGAATATACAAGATACTGTTT
 GCCTTGAACCTAAGAGAGACCTGCTGGAAGAGCGTTTGACCTGTGCTGACACCACAGCGGCCCTTCTCA
 CGTCCCATCTCCTGCAGTCGGAATAGGAGATTACGATGAAACGCTGGACCGAGAGCACCTCAAAGTGAA
 CGAGTATTTGCCGGCCAGCAGCACTGCCTTGAGAAGATACTAGAATTCATCAGAAGCAGTGGGCCAG
 ACACCTGCTGAGTCGGATTTCCAGGTGCTCGAAATTTGCTCGAAAGTTGGAATGTACGGCATCAGATTTT
 ACATGGCTTCTGACAGGGAAGGAACCAAGATTCAACTGGCAGTTTCCCACATGGGTGTACTCGTGTTC
 GGGCACCACAAAATCAACACTTTCAACTGGTCCAAGTCCGTAACCTAAGCTTCAAGAGGAAAAGATTT
 CTTATCAAACCTCATCCAGAGGTTTATGGACCTTACCAGGACACATTAGAATTTTTGTTGGGTAGTAGAG
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 CTAGTAGATTATTTCAAAGACAGTGAATGAAGAGAATTCATATGAAAGAAGGCACAGCAAGACCCACA
 CGTCCGTTCCGAGCTCTGACTGCAGACTACCAAAACAGAGCATCTCATTCCCGAGGGATTGAGGACTCC
 TGCTCCCATCTTCAGCGAATGCCTTTTACTCGCTCTCCTCCACTCTGGTCCCCTCTGGCCTGCCA
 GAGTTTAAAGGACAGCAGCAGCTCCCTCACAGATCCCCAGGTTTCTACGTCAAGAGTCCAGCTGCAGAGA
 GGCGCAGTGGAGCAGTGGCTGGAGGCCCGACACACCATCGGCCAGCCCTCGGGCCCCCGCACTCCA
 GCCTGGTCCAGGCCTTTCCACGAAGAGTCTCAGCCTTCTCCTCCAGCCGGAAGAGCCCTGAGTCTG
 AGCCCTGCATTTAGGTGCCTTTGGGCCAGCTGAACAGGGCTCATCCCCACTCTGAGCCCTGTCTCA
 GTGATGCTGGCGAGCCGGGATGGACTGCGAGGAGCCAGACACAAGCGCGTGCCTGCAGACGAGGCCTA
 CTTCATAGTCAAAGAGATTCTCGCTACAGAACGAACATACCTCAAGGATTTAGAAGTTATTACCGTGTGG
 TTCCGCAGCGCAGTGGTGAAGGAGGACGCCATGCCTGCGACTCTGATGACGCTGCTTTCTCAACATCG
 ATCCCATCTATGAGTTCCACAGAGGCTTCTGCGCGAGGTGGAGCAGAGGCTGGCACTCTGGGAAGGGCC
 CTCCAAAGCCACACAAAAGGCAGTCATCAACGAATCGGGGACATCCTGCTCAGGAACATGCGCCAGTTA
 AAGGCTGCTCATGAGTTCACCACG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239177 representing NM_001282984
 Red=Cloning site Green=Tags(s)

MGEIEGTYRVLQTAGMRLGAQTPVGVSTLEPGQTLLPRMQEKHLHLRVKLLDNTMEIFDIEPKCDGQVLL
 TQVWKRLNLVECDYFGMEFQNTQSYWIWLEPMKPIIRQIRRPKNVVLRLAVKFFPPDPGQLQEEYTRYLF
 ALQLKRDLLLEERLTCADTTAALLTSHLLQSEIGDYDETLDRHLKVNEYLPQQHCLEKILEFHQKHVGO
 TPAESDFQVLEIARKLEMYGIRFHMASDREGTKIQLAVSHMGVLFVQGTTKINTFNWSKVRKLSFKRKRK
 LIKLHPEVHGPYQDTLEFLLGSRDECKNFWKICVEYHTFFRLLDQPKPAKAVFFSRGSSFRYSGRTQKQ
 LVDYFKDSGMKRIPYERRHSKTHTSVRALTADLPKQISIFPEGLRTPASPSSANAFYSLSPSTLVPSGLP
 EFKDSSSSLTDPQVSYVKSPAARERSGAVAGGPDTPSAQPLGPPALQPGPGLSTKSPQSPSSRKSPLSL
 SPAFQVPLGPAEQSSPLLSPVLSDAGGAGMDCEEPRHKRVPADAEAYFIVKEILATERTYLKDLVITVW
 FRSAVVKEDAMPATLMTLLFSNIDPIYEFHRGFLREVEQRLALWEGPSKAHTKGSQRIGDILLNRMRQL
 KAAHEFTT

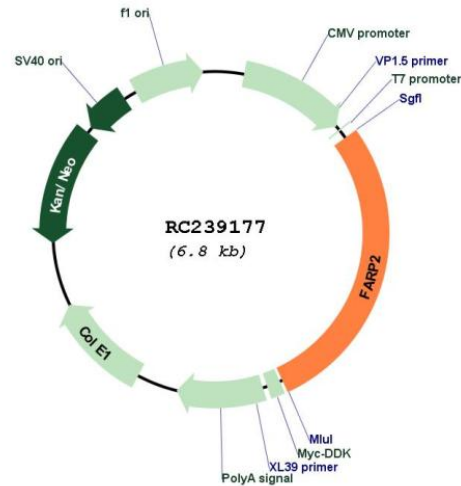
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001282984

ORF Size: 1914 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_001282984.2](#)

RefSeq Size: 2437 bp

RefSeq ORF: 1917 bp

Locus ID: 9855

UniProt ID: [O94887](#)

Cytogenetics: 2q37.3

Protein Pathways: Adherens junction

MW: 72.7 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]