

Product datasheet for RN210537

Farp1 (NM_001107287) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Farp1 (NM_001107287) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Farp1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN210537 representing NM_001107287 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGAGAAATAGAGCAGAAGCCACCCAGCATCACGTCTGGGGCCCCAGAGAACTCGGGGATCAGCA
CCTTGGAAACGAGGACAGAAACCACGCCACACCTTCAGGAAAATTATGACTGTCAAAATCCAGATGCT
GGACGACACCCAGGAAGCCTTTGAAGTTCACAACGGGCACAGGGAAGGTCCTTTGATGCTGTGTGC
AACCACTCAACCTTGTGGAGGGTACTTTCGGCCTGGAGTTCCTGACCACAGAAAGATCGTGGTGT
GGCTGGATCCTTGAAGCCATTGTGAAGCAGATTGGAAGCCGAAGCACGTGCTTGTAAAGTTTGTGT
GAAATTCTCCCGCCGACCACACCCAACCTCCAGGAAGAACTCACCAGGTACCTGTTTCGCCCTGCAGGTG
AAGCAGGACTTGGCTCAAGGCAGGCTGACGTGTAACGACACCAGCGCGGCTCTTTGATCTCGCACATCG
TACAATCTGAGATTGGGATTTGACGAAGCTTTGGACAGAGAACAATAGCAAAAAATAAGTATGTACC
TCAACAGGATGCACTAGAAGACAAAATCGTGGAGTTCACCACAGCCACATTGGACAAACCCGGCAGAG
TCAGATTTCCAGCTCCTGGAGGTGGCCCGTACTGGAGATGTATGGAATCCGGTTACACCTGCCAAGG
ACAGGGAAGGCACCAAGATCAACCTTGCTGTCGCCAACACTGGAATTCTAGTGTTTCAGGGCTTCACGAA
GATCAATGCTTTAACTGGGCCAAGGTGCGGAAGCTGAGCTTCAAGCGGAAGCGTTTCTCATCAAGCTC
AGACCTGACGTGAACAGCTCGTACCAGGACACCTTGGAGTTCTGATGGCCGGTCCGAGACTTCTGCAAGT
CCTTCTGGAAGATATGTGTGGAACACCATGCCTTCTTCAGACTCTTTGAAGAACCAAGCCAAAGCCAAA
GCCAGTTCTCTCAGCCGAGGGTCTGCTTCCGGTTTGTGGTCCGACTCAGAAGCAAGTTCTTGACTAC
GTTAAAGAAGGAGGCCACAAGAAAGTGCAGTTTGAAGAAAACACAGCAAGATCCATTCCACTAGGAGCC
TTGTCTCACAGCCACAGCACCGAATTCGGAAGTGCCAAAACAGTCTCCGCAGAGCGCCAGCCTTACGTT
CGGTGAAGGTACCGAGTCTCCAGTGCACAGAGCTGCCAAAGCAAGGAAACGAAAGTTTGTACCTTG
GAGCCTGGACCGGCCAAAGTCCCGCCTCTCTAAGAGCCCTTCAGGGAGCAAGCTGCGGATGGAACCCG
CTGCTGCCGACCCGCCAGGAAGAGGATGAGGAAGAGGGTGGCAAGGATGGCATCCGGCCAAGTAACCC
TCAGCCCCCGCAGCCAAGCACAGGCTCCCTGACTGGTAGCCCTCACCTTTTCAGAGCTGTCCATCAACTCG
CAGGGAGGAGCCGCCAGCCAACGTGACCCTGTCTCCAACCTGAGTCTGACAACAAGCAGGCTCTC
CCCTGATCAGCCCGCTCTGAACGACCAAGCGTCCCAAGGACCGACGATGAAGAAGAGGGCCGGCGAAA
GAGATTTCCAACCGACAAGGCATACTACATTGCTAAGGAAGTCTCCACCACAGAAGCACATACCTGAAG



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GATCTTGAGGTCATCGCTTCGTGGTTCCAGAGCACAGTCAGCAAAGAGGACTCCATGCCTGAAGCTTTGA
 AAAGTCTCATATTTCAAACCTTCGAACCTTTGCACAAGTCCACACCAATTTTCTGAAGGAGATTGAGCA
 GCGTCTCGCCCTGTGGGAAGGCCGCTCAAACGCCACATCAGAGGAGATTACAAAGAATCGGGGACGTC
 ATGCTGAAGAACATTCAAGGCATGAAGCACCTGGCGGCCACCTCTGGAAGCACAGCGAGGCCTGGAGG
 CCCTGGAGACCTCCATCAAGGGCTCCCGCGGCTGGAACACTTCTGCCGAGACTTCGAGTTGCAGAAGGT
 GTGTTACCTGCCGCTCAACACCTTCTCCTCGCCCGCTGCACCGGCTCATGCACTACAAGCAGGTCCTG
 GAGAGGCTGTGCAAGCATCACCTCCGAACCATGCCGACTTCAGGGACTGCAGAGCTGCCGTGGCAGAGA
 TCACAGAGATGGTGGCACAGCTGCACGGTACCATGATCAAGATGGAGAACTTCCAGAAGCTGCATGAGCT
 CAAGAAGGATCTGATTGGCATTGACAATCTTGTGATCCCAGGAAGGGAGTTCATCCGCCTGGGTAGCCTC
 AGCAAGCTCTCCGGGAAGGGGCTTCAACAGCGCATGTTCTTCTGTTCAACGATGTCTTGCTGTATACCA
 GCCGGGACTGACGGCATCTAATCAGTTTAAAGTCCACGGACAGCTCCCGCTCTATGGCATGACGATCGA
 GGAGAGTGAGGAGGAGTGGGGCTACCCCACTGCCTGACCCTGCGGGGCCAGCGGAGTCCATCATCGTG
 GCCCCAGTTCGGATCAGAGATGGAAAATGGCTGGAGGACATCCAGATGGCCATTGACCTGGCTGAGA
 AAAGCAATGGGCCACCCCGAAGTCTCGCCAGCAGCCCCCTGACAACAAGTCCCGGATGAAGCCAC
 AGCTGCTGACCAGGAGTCAAGAGCAGCTGAGCGCCTCTCGGACCTCGTGGAGCGCCAGGCCCTCAC
 CGTGGCAACCATGGTGCACGTGTGCTGGCATCGCAGCACCAGGCTCTCCATGGTGGACTTCAGCATTG
 CCGTGGAGAACCAGCTCTCTGGGAAGTCTGAGAAAATCAAGAACAGCAATGGCTGGCAGAAGCTGTG
 GGTGGTATTACCAACTTCTGCCTGTTCTTCTACAAATCACACCAGGACAGTCAACCCCTCGCCAGTCTA
 CCGCTGTTGGGCTACTACTCACCATTCCCTCAGAGTCTGAGAACATCCACAAGGACTACGTGTTCAAGC
 TGCCTTCAAGTCCCACGTGACTACTTCAAGGGCTGAAAGCGAATACACATTTGAAAGGTGGATGGAAGT
 GATCCGAAGTGCCACCAGCTCGGCCTCTCGGGCCACAGCCTGAGTCACAAGAATCTCACCTGTACTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_001107287
- Insert Size:** 3150 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_001107287.1](#), [NP_001100757.1](#)
- RefSeq Size:** 4564 bp
- RefSeq ORF:** 3150 bp
- Locus ID:** 306183

UniProt ID: [F1LYQ8](#)

Cytogenetics: 15q24

Gene Summary: May play a role in semaphorin signaling (By similarity). Functions as guanine nucleotide exchange factor for RAC1. Plays a role in the assembly and disassembly of dendritic filopodia, the formation of dendritic spines, regulation of dendrite length and ultimately the formation of synapses.[UniProtKB/Swiss-Prot Function]