

Product datasheet for MR211569

Farp2 (NM_145519) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Farp2 (NM_145519) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Farp2
Synonyms:	AI465173; BC009153; D030026M03Rik; Fir; mKIAA0793
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR211569 representing NM_145519 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGAGAGATAGAAGGAACATACAGAGCTTTACCAACTTCAGGGACACGCTTGGGTGGCCAGACC
TTGGAGTGAGTACCCTGGAGCCAGAGCAGACCTGTCACCCAGGATGCAGGAGAAGCACATGCGCATCAG
AGTGAAGTCTGGACAGCACTGTAGATTATTTGACATCGAGCCGAAGTGTACGGGCAGGTCTTACTG
ACTCAAGTGTGGAAGCATTGAATCTCATTGAATGTGACTACTTTGGTCTGGAGTTCAAGAAATGTCCAGT
CCTACTGGATTTGGCTTGAACCTATGAAACCCATCATTAGCAAGTACGAAAGCCAAAAATGCGGTGCT
TCGCCTGGCAGTAAAATTTTCCCGCCTGACCCTGGTCAGCTGCAAGAAGAGTACACAAGGTACCTGTTT
GCCTTGCAACTCAAGAGAGACCTCCTGGAGGAACGCTGACCTGCACGGCCAACACTGCAGCCCTTCTCA
TATCCCACCTTCTGCAGTCGGAATCGGAGATTATGATGAAACCCCTGGATCGAGAACACCTCAAAGCCAA
TGAATACTTGCCCAACCAGGAGAAATCTCTAGAAAAGATACTAGACTTCCATCAGAGGCACACGGGCCAG
ACTCCTGCAGAGTCAGATTTCCAGGTGCTTGGATTGCAAGGAAGCTGGAAATGTATGGCATCAGGTTTC
ACATGGCTTCTGACAGAGAAGGGACCAAGATTAATCTAGCAGTTTCTCACATGGGTGCTCCTGGTGTCCA
GGGTACCACAAAATCAATACCTTCAACTGGTCCAAAGTCCGTAAGCTTCAAGAGAAAAAGGTTT
CTTATCAAACCTCCACCCTGAGGTCATGGGCCCTACCAGGACAGTTAGAGTTCTTGGTGGTAGCAGAG
ATGAATGTAAGAACTTCTGGAAGATATGTGTGGAGTACCATACCTTTTTAGACTCTTGACCAGCCTAA
GCCAAAGGCAAAGGCTGTCTTCTCAGCCGAGGCTCCTCCTCAGATACAGTGGAAAGAACTCAGAAACAA
CTAGTAGATTATGTCAAAGACGGTGAATGAAGAGAATTCATACGAAAGACGGCACAGTAAAGACTCGGA
CATCTCTCATGCTCTGACTGTAGATCTGCCTAAACAGAGCGTCTCCTTACCAGTGGCTTGAGAACTTC
TGCCTCCCTGTCTCAGCAAATGTCTCTTTTATCCACCCCTAGTTCTTCTTTGTCCCCTCCTGGTCTG
CCCAATTTGAAGGACAGCAGCAGCTCCCTTGTGGATCCGAGGCTCCCGTCATCAAGAGCACAGCAGCAG
AGAGGAGCAGCGGACCATCATCTGACGGCCCCAGCACAGTCGGCCATCTCCTGGACCCCCGT
GCTCCGGCTGGTCCAGGCTTTTCTATGGATAGTCTCAGCCTTCTCCCTCCAGCCTGAAGACCCACTG



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AGCCTGTGCCCTGAGCTTCAGGCCGCGCTGAGTACAGCTGAGCAGGGTGCATCCCCTGTGCTCAGCCCTG
 TGCTCAGTGGCGCTGGTACAGCCAGGATGGACAACCAAGAAGAGCAGAAACACAAGCACATGCCAGAAGA
 TGAGGCCATATTCATAGCCAAGGAGATTCTCGCTACAGAACGAACCTATCTGAAGGATTTAGAAGTTATC
 ACTGTGTGGTCCGGAGCGTGCTGATCAAGGAGGAGGCCATGCCTGCAGCCCTGATGGCCCTGCTTTTCT
 CCAACATTGATCCAGTCTACGAGTTCACAGAGGCTTCTTACGAGGTGGAACAGAGGCTGGCACTCTG
 GGAAGGGCCCTCCAGTCCCCTAAAAGGTGATCACCAGCGAATCGGGGACATCCTCCTCAGGAACATG
 CGTCAGTTAAAGGAATTTACTAGTACTTCCAAAGACACGATGAGGTCTAACAGAAGTGGAAAAGGCCA
 CAAAACACTGTAAAAAGCTGGAGGCACTACAAAGAGTTTGAGCTCCAAAAGGTCTGCTACCTGCCTCT
 CAACACATTCTGCTGAAGCCCGTCCAGAGGCTAGTCCACTACCGTCTGCTGCTGAGCCGGCTGTGTGCT
 CACTACTCTCCTGGGCACCGCGACTATGCCGACTGCCATGAGGCACTGAAGGCCATCACAGAAGTGACCA
 CCGAGCTCCAGCAAAGCCTTACCCGGCTGGAAAACCTACAGAAATTGACGGAGCTACAGCGAGACCTGGT
 CGGTGTAGAAAACCTCATTGCTCCTGGGAGGGAGTTTATCCGTGAGGGCTGCCTGCACAAGCTCACCAAG
 AAGGGCCTGCAACAGAGGATGTTTTTCTGTTCTCAGATATGTTGCTGTATACAAGCAAAAGTGTACAG
 GAGCCAGTCATTCCGGATCCGTGGCTTCTTCCACTCCGTGGCATGCTGGTAGAAGAAAGTGAATGA
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 CCCCAGTGTGCTGGGAGGCCCGGTGTATACTCGTACCCCTAGATCTTCTGATGAAGTCTCTCTGGAAGA
 ATCAGAAGATGGTGCAGGAAACCGGGGCTCCCTGGAGGGGAACAGCCAGCACCGGGCCAATACAACAATG
 CATGTGTGCTGGTACCGTAATACAAGTGTGTCCAGAGCAGACCACAGTGCAGCTGTTGAGAACCAGCTTT
 CAGGATATCTGCTGAGAAAAGTTCAGAACAGTAATGGCTGGCAGAAGCTCTGGTGGTCTTTACCAACT
 CTGCTTGTCTTCTATAAAAACACATCAGGATGACTACCCCTGGCCAGCCTCCACTATTGGGTTACAGC
 GTGAGCCTCCCCAGGGAGGCTGACAGCATCCACAAAGACTATGTCTTCAAGCTCCAATTCAAATCTCAG
 TCTACTTCTTCCGGCTGAGAGCAAGTACACATTTGAAAGTGGATGGACGTCATCAAAAAGGGCCAGCAG
 CTCACCGGAGACCCCAAGTTTCACTCAGACTGCTCACATCACTCTCCAGGGCTGGAGGCAGAGATC
 AGAGAAAAGGAGGCATGCCCTTACCCTGCTTGGACAAGAACCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR211569 representing NM_145519
 Red=Cloning site Green=Tags(s)

MGEIEGTYRALPTSGTRLGGQTAIGVSTLEPEQSLSPRMQEKMIRVRLDSTVELFDIEPKCDGQVLL
 TQVWKHLNLIIECDYFGLFKNVQSYWIWLEPMKPIIRQVRKPKNAVLRRLAVKFFPPDPGQLQEEYTRYLF
 ALQLKRDLLLEERLTCTANTAALLISHLLQSEIGDYDELDREHLKANEYLPNQEKSLEKILDFHQRHTGQ
 TPAESDFQVLEIARKLEMYGIRFHMASDREGTKINLAVSHMGVLVFQGTTKINTFNWSKVRKLSFKRKR
 LIKLEHPEVHGPYQDTLEFLLGSRDECKNFWKICVEYHTFFRLSDQPKPKAKAVFFSRGSSFRYSGRTOQKQ
 LVDYVKDGGMKRIPYERRHKSRTSLHALTVDLPKQSVSFTDGLRTSASLSSANVSFYPPSSSLSPGGL
 PNLKDSSSLVDPQAPVIKSTAAERSSGPSSSDGPSTQSAHLPGPPVLRPGPGFSMDSPQSPSSSLKSHL
 SLCPQLQAALSTAEQGASPVLSVLSGAGTARMNQEEQKHKHPPEDEAYFIAKEILATERTYLDLEVI
 TVWFRSVLIKEEAMPAALMALLFSNIDPVYEFHRGFLHEVEQRLALWEGPSSAHLKGDHQRIGDILLRNM
 RQLKEFTSYFQRHDEVLTELEKATKHCKKLEAVYKEFELQKVCYLPLNTFLLKPVQRLVHYRLLSRLCA
 HYSPPGHRDYADCHEALKAITVTTTELQQLTRLENLQKLTELQRDLVGVENLIAPGREFIREGCLHKLTK
 KGLQQRMFLLSDMLLYTSKSVTGASHFRIRGFLPLRGMLVEESENESVPHCFIYAAQKTIIVAASTR
 LEKEKWMQDLNAAIQAAKTIGDPPVLLGGPVYTRTPRSSDEVSLEESDGRGNRGSLEGNQHRANTTM
 HVCWYRNTSVSRADHSAAVENQLSGYLLRKFKNSNGWQKLWVVFVNFCLFFYKTHQDDYPLASPLLLGYS
 VSLPREADSIIHKDYVFKLQFKSHVYFFRAESKYTFERWMDVIKRASSSPGRPPSFVQDCSHHSPGLEAEI
 REKEACSPCLDKNL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9047_h07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_145519

ORF Size: 3195 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_145519.2](#), [NP_663494.2](#)

RefSeq Size: 3929 bp

RefSeq ORF: 3198 bp

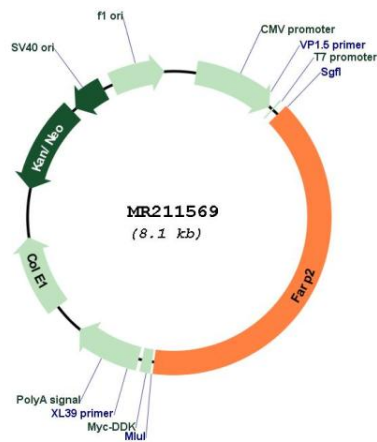
Locus ID: 227377

UniProt ID: [Q91VS8](#)

Cytogenetics: 1 D
 MW: 121.7 kDa

Gene Summary: Functions as guanine nucleotide exchange factor that activates RAC1. May have relatively low activity (PubMed:23375260 and PubMed:20702777). 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. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR211569