

Product datasheet for **MC215907**

Faf2 (NM_178397) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Faf2 (NM_178397) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Faf2
Synonyms:	2210404D11Rik; AI462440; mKIAA0887; Ubxd8
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC215907 representing NM_178397
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGCGCCTGAGGAGCAGGATCTAACTCAGGAGCAGACCAGAAGCTGCTGCAGTTTCAGGATCTGA
 CTGGCATAGAGTCCATGGAGCAGTGTGCCTTGCTTTGGAGCAGCATAACTGGAACATGGAGGCTGCTGT
 CCAGGACAGACTGAATGAGCAGGAAGGTGTACCAAGTGTTCATCCACCGCCAGCTCGGCCCTACAG
 GTTAATACAGCTGACCACAGGATCTACAGCTATGTTGTCTCAAGACCACAACCAAGGGCCCTGCTTGGAT
 GGGGTTACTTACTGATAATGCTTCCATTCCGGTTACCTATTACACGATACTTGATATTTAGGTTTGC
 TCTTCGTTTTATACGGCCTGACCCTCGCAGCCGGGTCACTGACCCTGTTGGGGACATTGTTTCATTTATG
 CACTCTTTGAGAGAAATATGGGAGGGCACACCCTGTCTTCTACCAGGGAACGTACAGCCAGGCACCTTA
 ACGATGCCAAGCGGGAACCTTCGATTTCTTTGGTTTATCTTCATGGAGATGACCACCAGGACTCTGATGA
 GTTCTGCCGAATGCTCTCTGCGCACCTGAGGTCACTACTGATAAACAGCAGGATGCTTTTCTGGGCT
 TGTTCACAAACAAGCCTGAGGGGTACAGGGTGTCCAGGCCCTACGGGAGAACACCTATCCATTCCCTAG
 CTATGATTATGTTGAAGGATCGGCGAATGACTGTGGTTGGAAGGCTAGAAGGCCTCATTCAACCTGATGA
 CCTCATCAACCAGCTGACATTCATCATGGATGCAAACCAGACTTACCTGGTGTGAGAACGCTAGAAAGG
 GAAGAAAGGAACCAACCCAGGTGCTGAGACAACAGCAGGATGAAGCCTACCTGGCTTCTCTCAGGGCAG
 ATCAGGAGAAAGAGAGGAAGAAGAGGGAGGAGAAAGAGCGGAAACGCCGGAAGGAGGAGGAGGTGCAGCA
 ACAGAAGCTGGCGGAGGAGCGAAGACGACAGAACTGCAGGAGGAAAAGGAGAGGAAGCTGGAATGCCTG
 CCCCTGAGCCCTCCCCTGATGATCCTGAAAGTGTCAAGATCATTTTCAAGTTACCCAATGATTCCAGAG
 TAGAGAGACGATTCCACTTCTCACAGTCTAACAGTCACTCCATGACTTCTTATTCTCCTGAAGGAAAG
 CCCTGAAAAGTTTCAGATTGAAGCCAATTTTCCAAGACGGGTACTTCCCTGTGTTCCCTTCAGAGGAATGG
 CCCAACCCCAACACTGCAGGAGGCGGGACTCAGCCACACAGAAGTTCTCTTTGTCCAGGACCTGACAG
 ACGAATGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_178397

Insert Size: 1338 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_178397.3](#), [NP_848484.2](#)

RefSeq Size: 4322 bp

RefSeq ORF: 1338 bp

Locus ID: 76577

UniProt ID: [Q3TDN2](#)

Cytogenetics: 13 B1

Gene Summary: Plays an important role in endoplasmic reticulum-associated degradation (ERAD) that mediates ubiquitin-dependent degradation of misfolded endoplasmic reticulum proteins. By controlling the steady-state expression of the IGF1R receptor, indirectly regulates the insulin-like growth factor receptor signaling pathway. Involved in inhibition of lipid droplet degradation by binding to phospholipase PNPL2 and inhibiting its activity by promoting dissociation of PNPL2 from its endogenous activator, ABHD5 which inhibits the rate of triacylglycerol hydrolysis.[UniProtKB/Swiss-Prot Function]