

## Product datasheet for **MR207077**

### Faf2 (NM\_178397) Mouse Tagged ORF Clone

#### Product data:

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



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**ORF Nucleotide Sequence:**

>MR207077 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGGCGCCTGAGGAGCAGGATCTAACTCAGGAGCAGACCAGAAGCTGCTGCAGTTTCAGGATCTGA  
 CTGGCATAGAGTCCATGGAGCAGTGTGCGCTTGCTTTGGAGCAGCATAACTGGAACATGGAGGCTGCTGT  
 CCAGGACAGACTGAATGAGCAGGAAGGTGTACCAAGTGTTCATCCACCGCCAGCTCGGCCCTACAG  
 GTTACAGCTGACCACAGGATCTACAGCTATGTTGTCTCAAGACCACAACCAAGGGGCTGCTGGATGGG  
 GTTATTACTTGATAATGCTTCCATTCCGGTTTACCTATTACAGATACTTGATATATTTAGGTTTGTCT  
 TCGTTTTATACGGCTGACCCTCGCAGCCGGTCACTGACCCTGTTGGGACATTGTTTCATTTATGCAC  
 TCTTTTGAAGAGAAATATGGGAGGCGCACCCCTGTCTTACCAGGGAACGTACAGCCAGGCACTTAACG  
 ATGCCAAGCGGAACTTCGATTTCTTTGGTTTATCTTCATGGAGATGACCACCAGGACTCTGATGAGTT  
 CTGCCGCAATGCTCTGCGCACCTGAGGTCATCTCACTGATAAACAGCAGGATGCTTTTCTGGGCTTGT  
 TCTACAAACAAGCCTGAGGGGTACAGGGTGTCCCAGGCCTACGGGAGAACCTATCCATTCCTAGCTA  
 TGATTATGTTGAAGGATCGGCGAATGACTGTGGTTGGAAGGCTAGAAGGCCTCATTCAACCTGATGACCT  
 CATCAACCAGCTGACATTCATCATGGATGCAAACCAGACTTACCTGGTGTGAGAAGCTCTAGAAAGGGAA  
 GAAAGGAACCAACCCAGGTGCTGAGACAACAGCAGGATGAAGCCTACCTGGCTTCTCAGGGCAGATC  
 AGGAGAAAGAGAGGAAGAAGAGGGAGGAGAAAGAGCGGAAACGCCGAAGGAGGAGGAGGTGCAGCAACA  
 GAAGCTGGCGGAGGAGCGAAGACGACAGAACTTGCAAGGAGGAAAGGAGAGGAAGCTGGAATGCCTGCC  
 CCTGAGCCCTCCCTGATGATCCTGAAAGTGTCAAGATCATTTTCAAGTTACCCAATGATCCAGAGTAG  
 AGAGACGATTCCACTTCTCACAGTCTCTAACAGTCACTCATGACTTCTTATTCTCCTTGAAGGAAAGCCC  
 TGAAAAGTTTCAGATTGAAGCCAATTTTCCAAGACGGGTACTTCCCTGTGTTCTTCAGAGGAATGGCCC  
 AACCCCAACACTGCAGGAGGCGGACTCAGCCACACAGAAGTTCTTTGTCCAGGACCTGACAGACG  
 AA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR207077 protein sequence  
 Red=Cloning site Green=Tags(s)

MAAPEEQDLTQEQTAKLLQFQDLTGIESMEQCRLALEQHNWNMEAAVQDRLNEQEGVPSVFNPPPARPLQ  
 VTADHRIYSYVSRPQPRLLGWGYLIMLPFRFTYITLDIFRFALRFIRPDPRSRTDVPVDIVSFMH  
 SFEEKYGRAHPVFYQGTYSQALNDKRELRFLLVYLHGDDHQDSEFCRNALCAPEVISLINSRMLFWAC  
 STNKPEGYRVSQALRENTYPFLAMIMLKDRRMTVVGRLEGLIQPDDLINQLTFIMDANQTYLVSERLRE  
 ERNQTQVLRQQDEAYLASLRADQEKERKKREEKERKREEVQQKLAEEERRQNLQEEKERKLECLP  
 PEPSPDDPESVKIIFKLPNDSRVERRFHFSSQLTVIHDFLFLSKESPEKFIQIANFPRRVLPCVPSEEW  
 NPPTLQEAAGLSHTEVLFVQDLTDE

**TR**TRPLEQ**KL**ISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_178397

**ORF Size:** 1335 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\\_178397.2](#), [NP\\_848484.1](#)

**RefSeq Size:** 4322 bp

**RefSeq ORF:** 1338 bp

**Locus ID:** 76577

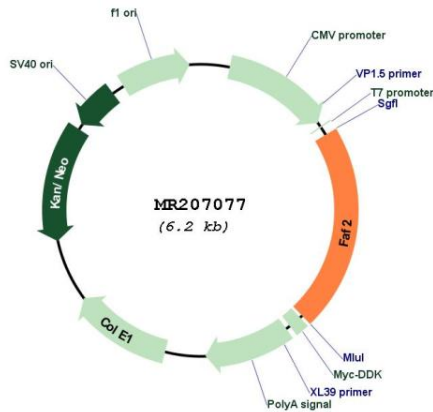
**UniProt ID:** [Q3TDN2](#)

**Cytogenetics:** 13 B1

**MW:** 52.4 kDa

**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]

**Product images:**



Circular map for MR207077