

Product datasheet for **MG207077**

Faf2 (NM_178397) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Faf2 (NM_178397) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Faf2
Synonyms:	2210404D11Rik; AI462440; mKIAA0887; Ubxd8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207077 representing NM_178397
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGCGCCTGAGGAGCAGGATCTAACTCAGGAGCAGACCAGAAGCTGCTGCAGTTTCAGGATCTGA
 CTGGCATAGAGTCCATGGAGCAGTGTCCGCTTGCTTTGGAGCAGCATAACTGGAACATGGAGGCTGCTGT
 CCAGGACAGACTGAATGAGCAGGAAGGTGTACCAAGTGTTCATCCACCGCCAGCTCGGCCCTACAG
 GTTACAGCTGACCACAGGATCTACAGCTATGTTGTCTCAAGACCACAACCAAGGGGCTGCTTGGATGGG
 GTTATTACTTGATAATGCTTCCATTCCGGTTTACCTATTACACGATACTTGATATATTTAGGTTTGTCT
 TCGTTTTATACGGCTGACCCTCGCAGCCGGTCACTGACCCTGTTGGGACATTGTTTCATTTATGCAC
 TCTTTTGAAGAGAAATATGGGAGGGCACACCCTGTCTTACCAGGGAACGTACAGCCAGGCACTTAACG
 ATGCCAAGCGGAACTTCGATTTCTTTGGTTTATCTTCATGGAGATGACCACCAGGACTCTGATGAGTT
 CTGCCGAATGCTCTCTGCGCACCTGAGGTCATCTCACTGATAAACAGCAGGATGCTTTTCTGGGCTTGT
 TCTACAAACAAGCCTGAGGGGTACAGGGTGTCCCAGGCCTTACGGGAGAACACCTATCCATTCTAGCTA
 TGATTATGTTGAAGGATCGGCGAATGACTGTGGTTGGAAGGCTAGAAGGCCTCATTCAACCTGATGACCT
 CATCAACCAGCTGACATTCATCATGGATGCAAACCAGACTTACCTGGTGTGAGAAGCTCTAGAAAGGGAA
 GAAAGGAACCAACCCAGGTGCTGAGACAACAGCAGGATGAAGCCTACCTGGCTTCTCAGGGCAGATC
 AGGAGAAAAGAGAGGAAGAAGAGGGAGGAGAAAGAGCGGAAACGCCGGAAGGAGGAGGAGGTGCAGCAACA
 GAAGCTGGCGGAGGAGCGAAGACGACAGAACTTGCAAGGAGGAAAAGGAGAGGAAGCTGGAATGCCTGCC
 CCTGAGCCCTCCCTGATGATCCTGAAAGTGTCAAGATCATTTTCAAGTTACCCAATGATCCAGAGTAC
 AGAGACGATTCCACTTCTCACAGTCTTAACAGTCATCCATGACTTCTTATTCTCCTTGAAGGAAAGCCC
 TGAAGGTTTTCAGATTGAAGCCAATTTTCCAAGACGGGTACTTCCTGTGTTCTTTCAGAGGAATGGCCC
 AACCCCAACACTGCAGGAGGCGGACTCAGCCACACAGAAGTTCTTTTGTCCAGGACCTGACAGACG
 AA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG207077 representing NM_178397
 Red=Cloning site Green=Tags(s)

MAPEEQDLTQEQTAKLLQFQDLTGIESMEQCRLALEQHNWNMEAAVQDRLNEQEGVPSVFNPPPARPLQ
 VTADHRIYSYVSRPQPRGLLWGYYLIMLPFRFTYYTILDI FRFALRFIRPDPRSRVTDVPGDIVSFMH
 SFEEKYGRAHPVFYQGTYSQALNDKRELRFLLVYLHGDDHQDSDEF CRNALCAPEVISLINSRMLFWAC
 STNKPEGYRVSQALRENTYPFLAMIMLKDRRMTVVGRLEGLIQPDDLINQLTFIMDANQTYLVSERLERE
 ERNQTQVLRQQQDEAYLASLRADQEKERKKREEKERKRRKEEEVQQQLAEERRRQNLQEEKERKLECLP
 PEPSPDDPESVKIIFKLPNDSRVERRHFHSQSLTVIHDFLFLSLKESPEKFQIEANFPRRVLPVCPVSEEW
 NPPTLQEAGLSHTEVLFVQDLTDE

TRTRPLE - GFP Tag - V

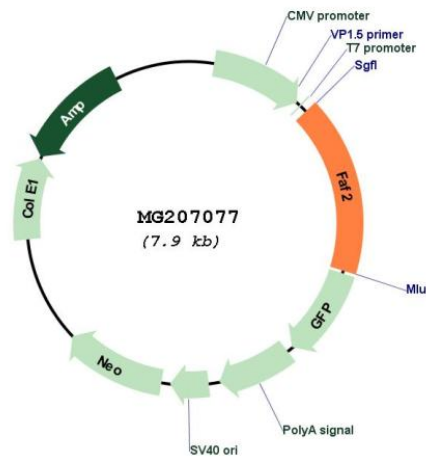
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_178397

ORF Size: 1332 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:	<ol style="list-style-type: none">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:	<u>NM_178397.2</u> , <u>NP_848484.1</u>
RefSeq Size:	4304 bp
RefSeq ORF:	1338 bp
Locus ID:	76577
UniProt ID:	<u>Q3TDN2</u>
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]