

## Product datasheet for **RN203562**

### Faf2 (NM\_001017445) Rat Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Faf2 (NM\_001017445) Rat Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Faf2  
**Synonyms:** 2210404d11rik; RGD1306577; Ubxd8  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >RN203562 representing NM\_001017445  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTTCCATTCCGGTTACCTATTACACGATACTTGATATATTTAGGTTTGCTCTTCGTTTTATACGGC  
 CTGACCCTCGCAGCCGGTCACTGACCCTGTTGGGACATTGTTTCATTTATGCACTCTTTGAAGAGAA  
 ATATGGGAGGGCACACCCTGTCTTCTACCAGGGAACGTACAGCCAGGCACTTAGTGACGCCAAGCGGAA  
 CTTGCGATTTCTTTGGTTTATCTTCATGGGGATGACCACCAGGACTCTGATGAGTTCTGCCGAATGCTC  
 TCTGCGCACCTGAGGTCATCTCGCTGATAAACAGCCGGATGCTTTTTGGGCTTGTCTACAAAACAACC  
 GGAGGGGTACAGGGTCTCCCAGGCTTACGAGAGAACACCTATCCATTCTGGCTATGATTATGTTGAAG  
 GACCGCGAATGACTGTGGTAGGAAGGCTCGAAGGCTCATTCAACCTGATGACCTCATCAACAGTTGA  
 CGTTCATTATGGATGCAAACCAGACTTACCTGGTGTGAGAAGCCCTAGAAAGGGAAGAAAGGAACCAAA  
 CCAGGTGCTGAGACAACAGCAGGATGAAGCCTACCTGGCTTCTCTCAGGGCAGACCAGGAGAAAGAGAG  
 AAGAAAAGGGAGGAGAGAGAGCGGAAGCGCCGGAAGGAGGAGGAGGTGCAGCAGCAGAAGCTGGCGGAG  
 AGCGAAGGCGGCAGAACTTACAGGAGGAGAAGGAGGAAAGCTGGAGTGCCTGCCCTGAGCCCTCCCC  
 AGATGACCCTGACAGTGTCAAGATCATTTCAGTTACCAATGATTCCAGAGTAGAGCGACGATCCAT  
 TTTTACAGTCTCTAACAGTCATCCACGACTTCTTATTCTCCTTGAAGGAAAGCCCTGAAAAGTTTCAGA  
 TTGAAGCAATTTTCCAAGACGGTACTTCCCTGTGTCCCTTCAGAGGAATGGCCCAACCCCCACCCT  
 GCAGGAGGCGGGACTAAGCCACACAGAAGTTCTTTGTTGAGGACCTGACAGACGAATGA

**ACGGT**ACGGCGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001017445



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<b>Insert Size:</b>	1041 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001017445.1</a></u> , <u><a href="#">NP_001017445.1</a></u>
<b>RefSeq Size:</b>	1994 bp
<b>RefSeq ORF:</b>	1041 bp
<b>Locus ID:</b>	291000
<b>UniProt ID:</b>	<u><a href="#">Q5BK32</a></u>
<b>Cytogenetics:</b>	17p14
<b>Gene Summary:</b>	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]