

## Product datasheet for **RC217164**

### **FAM108B1 (ABHD17B) (NM\_016014) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	FAM108B1 (ABHD17B) (NM_016014) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FAM108B1
Synonyms:	C9orf77; CGI-67; FAM108B1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC217164 representing NM_016014 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGAATAATCTTTCATTTAGTGAGCTATGTTGCCTCTTCTGCTGTCCACCTGTCCAGGGAAGATTGCTT  
CAAAATTAGCGTTTTTGGCACCTGATCCAATTACACACTGATGTGTGATGAAAGCGGAAGCCGTTGGAC  
TTTACATCTGTCTGAACGAGCAGACTGGCAGTATTCTTCTAGAGAAAAAGATGCTATTGAGTGTTCATG  
ACTAGAACCAGTAAAGGCAACAGAATTGCTTGTATGTTTGTACGTTGTTACCCAATGCGAAATACACTT  
TACTCTTCTCACATGAAATGCTGTTGATCTTGGTCAAATGAGCAGCTTTTACATAGGACTAGGATCAGC  
GATTAATTGTAATATATTCTCATATGATTATTCTGGATATGGTGCCAGTTCGGGAAACCCACAGAGAAG  
AACCTCTATGCAGACATTGAAGCTGCTTGGCTTGGCTTCTAGGACAAGATATGGCATTTCGCCCTGAAAATG  
TGATTATATATGGCCAAAGTATAGGGACAGTACCGTCTGTGGATCTTGTCTGCTCGATATGAGAGTCTGC  
TGTTATTCTTCATTCTCCTCTGACTTCGGGAATGCGAGTTGCCTTTCCTGATACCAAGAAGACCTACTGT  
TTTGATGCATTCCTCAACATTGACAAAATCTCTAAGATAACCTCTCCAGTATTAATAATTCATGGGACTG  
AAGATGAAGTCATTGACTTTTACATGGCCTCGCATTGTTGAACGTTGCCAAAGACCTGTGGAGCCTCT  
CTGGGTTGAAGGAGCAGGTCACAATGATGTGGAACCTTTATGGACAGTATCTTAAAAGGTTGAAACAGTTT  
GTGTCACAGGAAGTGGTGCAGAAACATAAAGAAGGGAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

**Protein Sequence:** >RC217164 representing NM\_016014  
Red=Cloning site Green=Tags(s)

MNLSFSELCCFLCCPPCPGKIASKLAFLLPPDPTYTLMCDESGSRWTLHLSERADWQYSSREKDAIECFM  
 TRTSKGNRIACMFVRCSPNAKYTLFSGNAVDLGMSSFYIIGLSRINCNIIFYDYSYGASSGKPTK  
 NLYADIEAAWLALRTRYGIRPENVIYQSIGTVPSVDLAARYESAIVLHSPLTSGMRVAFPDTKKTYC  
 FDAFPNIDKISKITSPVLIHGTEDVIDF SHGLALFERCQRPVEPLWVEGAGHNDVELYQYLERLKQF  
 VSQELVQKHKEGK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8009\\_d08.zip](https://cdn.origene.com/chromatograms/mk8009_d08.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_016014

**ORF Size:** 879 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\\_016014.3](#), [NP\\_057098.2](#)

**RefSeq Size:** 1614 bp

**RefSeq ORF:** 882 bp

**Locus ID:** 51104

**UniProt ID:** [Q5VST6](#)

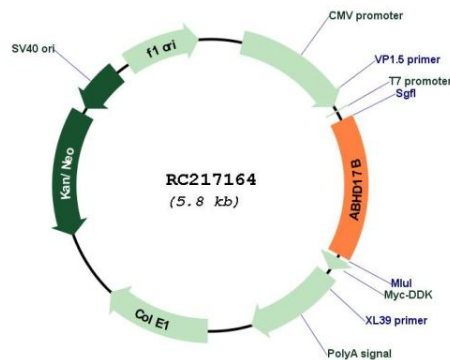
**Cytogenetics:** 9q21.13

**Protein Families:** Protease

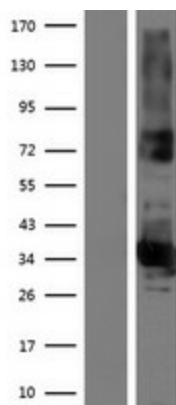
**MW:** 32.6 kDa

**Gene Summary:** Hydrolyzes fatty acids from S-acylated cysteine residues in proteins (PubMed:26701913). Has depalmitoylating activity towards DLG4/PSD95 (PubMed:26701913). Has depalmitoylating activity towards GAP43 (By similarity). Has depalmitoylating activity towards MAP6 (By similarity). Has depalmitoylating activity towards NRAS (PubMed:26701913).[UniProtKB/Swiss-Prot Function]

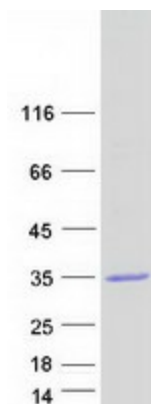
### Product images:



Circular map for RC217164



Western blot validation of overexpression lysate (Cat# [LY414254]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217164 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ABHD17B protein (Cat# [TP317164]). The protein was produced from HEK293T cells transfected with ABHD17B cDNA clone (Cat# RC217164) using MegaTran 2.0 (Cat# [TT210002]).