

## Product datasheet for **MC217362**

### **Plekha8 (NM\_001164361) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Plekha8 (NM_001164361) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Plekha8
Synonyms:	6330400G01; AA517676; BC052360; Fapp-2; Fapp2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC217362 representing NM\_001164361  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGGGCGTGTGCTACAAGTGGACCACTACCTGAGCGGTTGGCAGCCTCGATGGTTCCTTCTGTG  
 GGGGAATACTGTCTATTACGACTCTCCTGAGGATGCCTGGAAGGTTGCAAAGGGAGCATCCAGATGGC  
 AGTCTGTGAGATCAAGTTCATTCCGTGGATAACACTCGCATGGACCTCATCATCCCCGGGGAACAGTAT  
 TTCTACTTAAAGCCAGGAGTGTGGCAGAGAGACGCGTGGCTGGTGGCTCTGGGATCTGCCAAGGCC  
 GCCTGACAGATAGTAGGACTCAGAAGGAAAAAGAAATTTGCAGAAAACACTGAAAACCTGAAAACAAAAT  
 GTCGGAGCTAAGACTGTACTGTGACCTCCTTGTCAACAAGTAGATAAAAACAAAAGAGTGGCCACAGCC  
 GGTGCTACTGACTCTGAGGAGGGAATTGATGTGGGAACCTGCTAAAATCGACCTGCAACACTTTCCTGA  
 AGACCTTGAAGAATGCATGCAGATTGCAAACGCAGCCTTACCTCCGAAGTCTTACCATACACCCCC  
 AGGGTCCCCTCACTAGCGGTGCTTAAGTCCAGCAAGATGAAACATCCCATCATACCAATTCATAATTG  
 TTGGAAAGGTCGATGGAGTTAAACAGTTGTGAAAATGGATCGCTAAGTATAGAAGTAAATGGTGATGAAG  
 AAATCCTAATGAAAACCAAGAGTTCCTTGTATTTGAAGTCCACAGAGGTGGATTGCAGCATCTCCAGTGA  
 AGAAAACACAGATGACAAATGTGACAGTCCAGGGGAGATAATGAAGGAAGATGGCGAGGAAAACCTGGAG  
 AGTCATGACAAGGATCCGGCACAGCCTGGATCAGACTCGGTTTGCCTGCCAGAATCTCCCTGGGAAGACA  
 ATGAAGAAGTTATTCCAACCTTCTTCAGTACTATGAATACCAGCTTTAGTGACATTGAACCTCTGGAGGA  
 CAGTGGCATTCCACAGAAGCATTCTTGGCCTCCTGTTATGCAGTGGTCCAGTCCAGTCCAGTCCAGTCCAGT  
 CCCACAGTGTGCTCCTGTTAAGATGGATCTTGTGAAATATTAAGAAGGTAATCAGAAGTACATAA  
 CCAACAAGGAAGAGTTTACTACCTCCAGAAGATAGTGTGATGAGTGGAGGCTGACGTCGCTCAGGT  
 TAGGAACTCGGCGACGGAAGCCCTCTTGTGGCTGAAGAGAGGCTCAAATTTCTAAAGGGATTTTGGACA  
 GAAGTGAAGAATGGAGAAAAGGATATCCAGACAGCACTGAATAACGCATATGGCAAAACATTACGGCAAC  
 ACCATGGCTGGGTAGTTCGAGGGGTCTTTCGCTTAGCACTGAGGGCAGCGCCATCCTATGAGGACTTTGT  
 AGCTGCGCTAACCATAAAAGAAGGCGACCACCAGAAAAGAGCTTTTCAGTGTGGCATGCAGAGGGACCTC  
 AGCCTTACCTCCCCTATGGAAAAGCAGCTGGCCATACTGGACACGTTATATGAGATCCACGGGCTGG  
 AATCTGATGAGGTGGT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_001164361

**Insert Size:** 1560 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\\_001164361.1](#), [NP\\_001157833.1](#)

**RefSeq Size:** 6723 bp

**RefSeq ORF:** 1560 bp

**Locus ID:** 231999

**UniProt ID:** [Q80W71](#)

**Cytogenetics:** 6 B3

**Gene Summary:** Cargo transport protein that is required for apical transport from the trans-Golgi network (TGN). Transports AQP2 from the trans-Golgi network (TGN) to sites of AQP2 phosphorylation. Mediates the non-vesicular transport of glucosylceramide (GlcCer) from the trans-Golgi network (TGN) to the plasma membrane and plays a pivotal role in the synthesis of complex glycosphingolipids. Binding of both phosphatidylinositol 4-phosphate (PIP) and ARF1 are essential for the GlcCer transfer ability. Also required for primary cilium formation, possibly by being involved in the transport of raft lipids to the apical membrane, and for membrane tubulation (By similarity).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.