

Product datasheet for **MC216563**

Plekha8 (NM_001001335) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Plekha8 (NM_001001335) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Plekha8
Synonyms:	6330400G01; AA517676; BC052360; Fapp-2; Fapp2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC216563 representing NM_001001335
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**C

ATGGCAGTCTGTGAGATTCAAGTTCATTCCGTGGATAAAGTTCGATGGACCTCATCATCCCCGGGGAAC
 AGTATTTCTACTTAAAAGCCAGGAGTGTGGCAGAGAGACAGCGGTGGCTGGTGGCTCTGGGATCTGCCAA
 GGCCTGCCTGACAGATAGTAGGACTCAGAAAGAAAAAGATTTCAGAAAAACACTGAAAACTTGAAAAAC
 AAAATGTCGGAGCTAAGACTGTACTGTGACCTCCTTGTTCACAAAGTAGATAAAACAAAAGAGTGCCCA
 CAGCCGGTGTCACTGACTCTGAGGAGGGAATTGATGTGGGAACCTGCTAAAATCGACCTGCAACACTTT
 CCTGAAGACCTTGAAGAATGCATGCAGATTGCAACGCGAGCCTTTACCTCCGAAGTCTTTACCATACA
 CCCCCAGGGTCCCTCACTAGCGGTGCTTAAGTCCAGCAAGATGAAACATCCCATCATACCAATTCTATA
 ATTCGTTGGAAAGTTCGATGGAGTTAAACAGTTGTGAAAATGGATCGCTAAGTATAGAAGTAAATGGTGA
 TGAAGAAATCCTAATGAAAACCAAGAGTTCCTTGTATTTGAAGTCCACAGAGGTGGATTGCAGCATCTCC
 AGTGAAGAAAACAGATGACAATGTGACAGTCCAGGGGAGATAATGAAGGAAGATGGCGAGGAAAACC
 TGGAGAGTCATGACAAGGATCCGGCACAGCCTGGATCAGACTCGGTTTGCTCGCCAGAATCTCCCTGGGA
 AGACAATGAAGAAGTTATTCCAACCTTTCTTCAGTACTATGAATACCAGCTTTAGTGACATTGAACCTCTG
 GAGGACAGTGGCATTCCACAGAAGCATTCTTGGCCTCCTGTTATGCAGTGGTCCAGTCTAGACAAAC
 TTGGTCCCACAGTGTCTGCTCTGTTAAGATGGATCTTGTGGAAATATTAAGAAGGTAATCAGAAGTA
 CATAACCAACAAGGAAGAGTTTACTACCTCCAGAAGATAGTGTGCATGAGGTGGAGGCTGACGTGCTG
 CAGGTTAGGAAGTCCGGCAGCGAAGCCCTCTTGTGGCTGAAGAGAGGTCTCAAATTTCTAAAGGGATTTT
 TGACAGAAGTGAAGAATGGAGAAAAGGATATCCAGACAGCACTGAATAACGCATATGGCAAAACATTACG
 GCAACACCATGGCTGGGTAGTTTCGAGGGGTCTTTGCGTTAGCACTGAGGGCAGCGCCATCCTATGAGGAC
 TTTGTAGCTGCGCTAACCATAAAAGAAGGCGACCACCAGAAAGAAGCTTTCAAGTGTGGCATGCAGAGGG
 ACCTCAGCCTTTACCTCCCCGCTATGAAAAGCAGCTGGCCATACTGGACACGTTATATGAGATCCACGG
 GCTGGAATCTGATGAGGTGGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001001335
- Insert Size:** 1425 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.

Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001001335.2</u> , <u>NP_001001335.1</u>
RefSeq Size:	6628 bp
RefSeq ORF:	1425 bp
Locus ID:	231999
UniProt ID:	<u>Q80W71</u>
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 (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (2) has a distinct N-terminus and is shorter than isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.