

Product datasheet for **RN200878**

Plekha8 (NM_001109235) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Plekha8 (NM_001109235) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Plekha8
Synonyms:	FAPP-2; RGD1563940
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN200878 representing NM_001109235
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGGGCGTGTGTACAAGTGGACCACTACCTGAGCGGTTGGCAGCCTCGATGGTTCCTTCTCTGTG
 GGGGAATACTGTCTATTACGATTCTCCTGAAGATGCCTGGAAGGTTGCAAAGGGAGCATCCAGATGGC
 AGTCTGTGAGATTCAAGTTCATTCCGTGGATAACACTCGTATGGACCTCATCATCCCTGGGGAACAGTAT
 TTCTACTTAAAGCCAGAAGTGTGGCAGAGAGACGCGATGGCTGGTGGCTCTGGGATCTGCCAAGGCCCT
 GCCTGACTGATAGTAGGACTCAAAGGAAAAAGAAATTTGCAGAAAACACTGAAAACCTGAAAACAAAAT
 GTCGGAATAAGGCTATACTGTGACCTCCTTGTCAACAAGTAGATAAAACAAAAGAGTGGCCACAGCC
 GGTGTTGCTGACTCTGAGGAGGGAATCGATGTGGGAACCTGCTGAGATCAACCTGCAACACTTTCTCTGA
 AGACCTTGGAGGAGTGCATGCAGATTGCAAATGCAGCCTTTACCTCTGAAGTCTCTACCATACACCCCC
 AGGGTCCCTCACTAGCGGTGCTCAAGTCCAGCAAGATGAAACATCCTATCATACCAATTCATAATTCA
 TTGGAAAGGCCGATAGAGTTAAACAGTTGTGAAAATGGATCGCTAAGTGTAGAAGTAAATGGTGATGAAG
 AACTCCTAATGAAAACCAAGAAGAGTTCCTTATATTTGAAATCCCAAAGGCAGATTGCAACATCTCCAG
 TGAAGAAAACACAGATGGAAATACGACAGTCCAGGGTGAGAGAATGAAGGAAGATGGAGAGGAAAACCTG
 GAGAGTCATGACAGGGATCTGGCACAGCCGGGATCAGACTCAGTTTGCTCGCCAGAATCTCCCTGGGAAG
 ACAGTGAAGAAGTTATTCCAACCTTCTTCAGTACTATGAATACCAGCTTTAGTGACATTGAGCTTCTGGA
 AGACAGTGGCATTCCACAGAAGCATTCTTGGCATCTTGTATGCAGTGGTTCAGTACTAGATAAACTT
 GGTCCCACCGTGTGCTCCTGTAAAGATGGATCTTGTGGAAATATTAAGAAGGTAAATCAGAAGTACA
 TAACCAACAAGGAAGAGTTTACCACCCTCCAGAAGATAGTGTGCACGAGGTGGAAGCCGATGTGGCTCG
 GGTTAGGAACTCGGCAACTGAAGCCTCTTGTGGCTGAAGAGAGGTCTCAAATTTCTAAAGGGATTTTGTG
 ACAGAAGTGAAGAATGGGAAAAGGACATCCAGACAGCACTGAATAATGCATATGGCAAAACATTACGGC
 AACACCATGGCTGGGTAGTTCGAGGGGTTTTTGCCTTAGCACTGAGGGCAGCACCATCCTATGAGGACTT
 TGTGGCTGCACTAACCATAAAAGAAGGCGACCATCAGAAAGAAGCTTTCAGTGTGGGATGCAGAGGGAC
 CTCAGCCTTTACCTCCCTGCTATGGAAAAGCAGCTGGCCATACTGGACACGTTATATGAGATCCACGGGC
 TGAATCTGACGAGGTGGT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001109235

Insert Size: 1563 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_001109235.2](#), [NP_001102705.1](#)

RefSeq Size: 6657 bp

RefSeq ORF: 1563 bp

Locus ID: 500132

UniProt ID: [D3ZY60](#)

Cytogenetics: 4q24

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]