

## Product datasheet for SC125289

### FAPP2 (PLEKHA8) (NM\_032639) Human Untagged Clone

#### Product data:

|                           |                                                                                                   |
|---------------------------|---------------------------------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                                               |
| Product Name:             | FAPP2 (PLEKHA8) (NM_032639) Human Untagged Clone                                                  |
| Tag:                      | Tag Free                                                                                          |
| Symbol:                   | FAPP2                                                                                             |
| Synonyms:                 | FAPP2                                                                                             |
| Mammalian Cell Selection: | None                                                                                              |
| Vector:                   | <u>pCMV6-XL4</u>                                                                                  |
| E. coli Selection:        | Ampicillin (100 ug/mL)                                                                            |
| Fully Sequenced ORF:      | >OriGene ORF within SC125289 sequence for NM_032639 edited (data generated by NextGen Sequencing) |

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ATGGAGGGGTGCTGTACAAGTGGACCAACTATCTGAGCGGTTGGCAGCCTCGATGGTTC
CTTCTCTGTGGGGAATATTGTCCTATTATGATTCTCCTGAAGATGCCTGGAAAGGTTGC
AAAGGGAGCATACAAATGGCAGTCTGTGAAATCAAGTTCATTCTGTAGATAATACACGC
ATGGACCTGATAATCCCTGGGGAACAGTATTTCTACCTGAAGGCCAGAAGTGTGGCTGAA
AGACAGCGGTGGCTGGTGGCCCTGGGATCAGCCAAGGCTTGCCTGACTGACAGTAGGACC
CAGAAGGAGAAAGAGTTTGTGAAAACACTGAAAACCTGAAAACCAAAATGTCAGAACTA
AGACTCTACTGTGACCTCCTTGTTCAGCAAGTAGATAAAACAAAAGAAGTGACCACAAC
GGTGTGTCCAATTCTGAGGAGGGAATTGATGTGGGAACCTTGTGAAATCAACCTGTAAT
ACTTTTCTGAAGACCTTGAAGAATGCATGCAGATCGCAAATGCAGCCTTCACCTCTGAG
CTGCTCTACCGCACTCCACCAGGATCACCTCAGCTGGCCATGCTCAAGTCCAGCAAGATG
AAACATCCTATTATACCAATTCAATTCATTGGAAAGGCAAAATGGAGTTGAGCACTTGT
GAAAATGGATCTTTAAATATGGAATAAATGGTGAAGGAAATCCTAATGAAAAATAAG
AATTCCTTATATTTGAAATCTGCAGAGATAGACTGCAGCATATCAAGTGAGGAAAATACA
GATGATAATATAACAGTCCAAGGTGAAATAAGGAAGGAAGATGGAATGAAAAACCTGAAA
AATCATGACAATAACTTGACTCAGTCTGGATCAGACTCAAGTTGCTCTCCGGAATGCCTC
TGGGAGGAAGGCAAGAAGTTATCCCACTTTCTTTAGTACCATGAACACAAGCTTTAGT
GACATTGAACCTTCTGGAAGACAGTGGCATTCCACAGAAGCATTCTTGGCATCATGTTAT
GCTGTGGTTCCAGTATTAGACAAACTTGGCCCTACAGTGTTTGCTCCTGTTAAGATGGAT
CTTGTTGGAATATTAAGAAAGTAAATCAGAAGTATATAACCAACAAAGAAGAGTTTACC
ACTCTCCAGAAGATAGTGTGCACGAAGTGGAGGCGGATGTAGCCAGGTTAGGAACCTCA
GCGACTGAAGCCCTCTTGTGGCTGAAGAGAGGTCTCAAATTTTGAAGGGATTTTGAACA
GAAGTGAAAAATGGGAGAAGGATATCCAGACAGCCCTAAGAAATCCAACAGAAAACACT
TGA
  
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Clone variation with respect to NM\_032639.3



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|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>5' Read Nucleotide Sequence:</b> | <p>&gt;OriGene 5' read for NM_032639 unedited</p> <pre> CGGCCGCGAATTCGGCTCTAGTANNAATGGCCCTGCTGCTGGTGCCTCGCCTCTTGGG GCCTGGGGCAGTGAGGGGGCCGGCGGGCGTGGCCGAGTGGCCGCGGGCCATGGAGGG GGTGCTGTACAAGTGGACCAACTATCTGAGCGGTTGGCAGCCTCGATGGTTCCTTCTCTG TGGGGGAATATTGTCCTATTATGATTCTCCTGAAGATGCCTGGAAAGGTTGCAAAGGGAG CATACAAATGGCAGTCTGTGAAATTCAGTTTCATTCTGTAGATAATACACGCATGGACCT GATAATCCCCTGGGAACAGTATTTCTACCTGAAGGCCAGAAGTGTGGCTGAAAGACAGCG GTGGCTGGTGGCCCTGGGATCAGCCAAGGCTTGGCTGACTGACAGTAGGACCCACAAAGA GAAAGAGTTTGCTGAAAAACTGAAAACCTGAAAACCAAATGTCAGAACTAAGACTCTA CTGTGACCTCCTTGGTCAGCAAGTGGATTAACCAAAGAAGTGACCACAACCTTGTGTGTC CCATTCTGAAGAGGGAATTGATTGGGACTTTGCTGAATCAACCTGAAAACCTTTCTGAAA CCCTGGAGAATGCTGCAATTTGAAAAGCGCCTTTAACTTGGAGTGGTTTACCGACTTCAC AGGTCACCTAACTGGGCTGCTCAATCCGCGGATGAACATCCTTTTCCAATCTAATTTTG AAGCAATAGGTTGCCTC </pre> |
| <b>Restriction Sites:</b>           | Please inquire                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>ACCN:</b>                        | NM_032639                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Insert Size:</b>                 | 1700 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_032639.2</a></u> , <u><a href="#">NP_116028.1</a></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>RefSeq Size:</b>                 | 2004 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>RefSeq ORF:</b>                  | 1323 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Locus ID:</b>                    | 84725                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>UniProt ID:</b>                  | <u><a href="#">Q96JA3</a></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Cytogenetics:</b>                | 7p14.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Domains:</b>                     | PH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

**Gene Summary:**

Cargo transport protein that is required for apical transport from the Golgi complex. 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.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (3) lacks an exon in the 3' coding region and contains an alternate 3' terminal exon, compared to variant 1. The resulting protein (isoform 3) is shorter and has a distinct C-terminus, compared to isoform 1.