

## Product datasheet for PH311612

### MAL (NM\_022440) Human Mass Spec Standard

#### Product data:

|                                       |   |
|---------------------------------------|---|
| Product Type:                         | Mass Spec Standards   |
| Description:                          | MAL MS Standard C13 and N15-labeled recombinant protein (NP_071885)   |
| Species:                              | Human   |
| Expression Host:                      | HEK293  |
| Expression cDNA Clone or AA Sequence: | RC211612  |
| Predicted MW:                         | 5.8 kDa   |
| Protein Sequence:                     | >RC211612 representing NM_022440<br>Red=Cloning site Green=Tags(s)<br><br>MAPAAATGGSTLPSGFSVFTTLPDLLFIFEVFSYIATLLYVVHAVFSLIRWKSS<br><br>TRTRPLEQKLISEEDLAANDILDYKDDDDKV |
| Tag:                                  | C-Myc/DDK   |
| Purity:                               | > 80% as determined by SDS-PAGE and Coomassie blue staining   |
| Concentration:                        | >0.05 µg/µL as determined by microplate BCA method  |
| Labeling Method:                      | Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine  |
| Buffer:                               | 25 mM Tris-HCl, 100 mM glycine, pH 7.3  |
| Storage:                              | Store at -80°C. Avoid repeated freeze-thaw cycles.  |
| Stability:                            | Stable for 3 months from receipt of products under proper storage and handling conditions.  |
| RefSeq:                               | <a href="#">NP_071885</a>   |
| RefSeq Size:                          | 762   |
| RefSeq ORF:                           | 165   |
| Synonyms:                             | MVP17; VIP17  |
| Locus ID:                             | 4118  |
| UniProt ID:                           | <a href="#">P21145</a>  |
| Cytogenetics:                         | 2q11.1  |



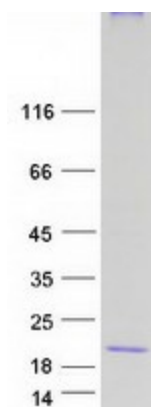
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**Summary:**

The protein encoded by this gene is a highly hydrophobic integral membrane protein belonging to the MAL family of proteolipids. The protein has been localized to the endoplasmic reticulum of T-cells and is a candidate linker protein in T-cell signal transduction. In addition, this proteolipid is localized in compact myelin of cells in the nervous system and has been implicated in myelin biogenesis and/or function. The protein plays a role in the formation, stabilization and maintenance of glycosphingolipid-enriched membrane microdomains. Down-regulation of this gene has been associated with a variety of human epithelial malignancies. Alternative splicing produces four transcript variants which vary from each other by the presence or absence of alternatively spliced exons 2 and 3. [provided by RefSeq, May 2012]

**Protein Families:**

Transmembrane

**Product images:**

Coomassie blue staining of purified MAL protein (Cat# [TP311612]). The protein was produced from HEK293T cells transfected with MAL cDNA clone (Cat# [RC211612]) using MegaTran 2.0 (Cat# [TT210002]).