Proteoliposomes | Full-Length

# OPN1MW (Human) Recombinant Protein

Catalog # H00002652-G01 Size 2 ug

## Specification

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|---|---|
| **Product Description** | Human OPN1MW full-length ORF (AAI56777.1) recombinant protein without tag.<br>This product is belong to Proteoliposome (PL). |
| **Sequence** | MAQQWSLQRLAGRHPQDSYEDSTQSSIFTYTNSNSTRGPFEGPNYHIAPRWVYHLTSVWMIFVVI<br>ASVFTNGLVLAATMKFKKLRHPLNWILVNLAVADLAETVIASTISVVNQVYGYFVLGHPMCVLEGYT<br>VSLCGITGLWSLAIISWERWMVVCKPFGNVRFDAKLAIVGIAFSWIWAAVWTAPPIFGWSRYWPH<br>GLKTSCGPDVFSGSSYPGVQSYMIVLMVTCCITPLSIIVLCYLQVWLAIRAVAKQQKESESTQKAEK<br>EVTRMVVVMVLAFCFCWGPYAFFACFAAANPGYPFHPLMAALPAFFAKSATIYNPVIYVFMNRQF<br>RNCILQLFGKKVDDGSELSSASKTEVSSVSSVSPA |
| **Host** | Wheat Germ (in vitro) |
| **Theoretical MW (kDa)** | 40.04 |
| **Form** | Liquid |
| **Preparation Method** | *in vitro* wheat germ expression system with proprietary liposome technology |
| **Purification** | None |
| **Recommend Usage** | Heating may cause protein aggregation. Please do not heat this product before electrophoresis. |
| **Storage Buffer** | 25 mM Tris-HCl of pH8.0 containing 2% glycerol. |
| **Storage Instruction** | Store at -80°C. Aliquot to avoid repeated freezing and thawing. |
| **Note** | Best use within three months from the date of receipt of this protein. |

## Applications

- Antibody Production

# Gene Info — OPN1MW

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|---|---|
| **Entrez GeneID** | 2652 |
| **GeneBank Accession#** | BC156776.1 |
| **Protein Accession#** | AAI56777.1 |
| **Gene Name** | OPN1MW |
| **Gene Alias** | CBBM, CBD, GCP, MGC176615, OPN1MW1 |
| **Gene Description** | opsin 1 (cone pigments), medium-wave-sensitive |
| **Omim ID** | 303700 303800 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | This gene encodes for a light absorbing visual pigment of the opsin gene family. The encoded pro tein is called green cone photopigment or medium-wavelength sensitive opsin. Opsins are G-prot ein coupled receptors with seven transmembrane domains, an N-terminal extracellular domain, an d a C-terminal cytoplasmic domain. The long-wavelength opsin gene and multiple copies of the m edium-wavelength opsin gene are tandemly arrayed on the X chromosome and frequent unequal r ecombination and gene conversion may occur between these sequences. X chromosomes may h ave fusions of the medium- and long-wavelength opsin genes or may have more than one copy of these genes. Defects in this gene are the cause of deutanopic colorblindness. [provided by RefS eq |
| **Other Designations** | OTTHUMP00000024237\|color blindness, deutan\|green cone photoreceptor pigment\|green cone pigment\|opsin 1 (cone pigments), medium-wave-sensitive (color blindness, deutan)\|photopigment apoprotein |