

# Recombinant Full Length Human MVP Protein, GST-tagged

**Cat. No.** MVP-6998HF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human full-length MVP(1 a.a. - 893 a.a.), fused with GST-tag at N-terminal, was expressed in wheat germ.                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Source</b>           | In Vitro Cell Free System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>ProteinLength</b>    | 893 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Description</b>      | This gene encodes the major component of the vault complex. Vaults are multi-subunit ribonucleoprotein structures that may be involved in nucleo-cytoplasmic transport. The encoded protein may play a role in multiple cellular processes by regulating the MAP kinase, JAK/STAT and phosphoinositide 3-kinase/Akt signaling pathways. The encoded protein also plays a role in multidrug resistance, and expression of this gene may be a prognostic marker for several types of cancer. Alternatively spliced transcript variants have been observed for this gene. |
| <b>Molecular Mass</b>   | 123.97 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>AA Sequence</b>      | MATEEFIIRIPPYHYIHVLDQNSNSRVEVGPKTYIRQDNERVLFAPMRMVTVPPrHY<br>CTVANPVSRDAQGLVLF DVTGQVRLRHADLEIRLAQDPFPLYPGEVLEKDITPLQVV<br>LPNTALHLKALLDFEDKDGDKVWAGDEWLFEGPGT YIPRKEVEVVEIIQATIIRQNQA<br>LRLRARKECWDRDGKERVGTGEWLVTTVGAYLPAVFEEVLDLVDVILTEKT ALHL<br>RARRNFRDFRGVSRRTGEEWLVTVQDTEAHVPDVHEEVLGVPITTLGPHNYCVIL<br>DPVGPDGKNQLGQKR VVKGEKSFFLQPGEQLEQGIQDVVYLSEQQGLLLRALQPL                                                                                                                                                                                              |

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EEGEDEEKVSHQAGDHWLIRGPLEYVPSAKVEVVE ERQAIPLDENEGIYVQDVKTG  
 KVRVIGSTYMLTQDEVLWEKELPPGVEELLNKGQDPLADRGEKDTAKSLQPLA PR  
 NKTRVVSYRVPHNAAVQVYDYREKRARVVFGEPELVSLGPEEQFTVLSLSAGRPKRP  
 HARRALCLLLGPDFFTD VITIETADHARLQLQLAYNWHFEVNDRKDPQETAKLFSVP  
 DFVGDACKAIASRVRGAVASVTFFDFHKNSARIIR TAVFGFETSEAKGPDGMALPRP  
 RDQAVFPQNGLVVSSVDVQSVEPVDQRTDALQRSVQLAIEITTSQEAAAKH EAQ  
 RLEQEARGRLERQKILDQSEAEKARKELLELEALSMAVESTGTAKAEAESRAEAARI  
 EGEGSVLQAKLKAQA LAIETEAEQLRVQKVRELELVYARAQLELEVSKAQQLAEVE  
 VKKFKQMTEAIGPSTIRDLAVAGPEMQVKLLQSL GLKSTLITDGSTPINLFNTAFGLL  
 GMGPEGQPLGRRVASGSPGEGISPQSAQAPQAPGDNHVVPVLR

|                       |                                                                          |
|-----------------------|--------------------------------------------------------------------------|
| <b>Applications</b>   | ELISA; WB-Re; AP; Array                                                  |
| <b>Notes</b>          | Best use within three months from the date of receipt of this protein.   |
| <b>Storage</b>        | Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing. |
| <b>Storage Buffer</b> | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer. |

## GENE INFORMATION

|                        |                                                                                                         |
|------------------------|---------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | MVP major vault protein [ Homo sapiens (human) ]                                                        |
| <b>Official Symbol</b> | MVP                                                                                                     |
| <b>Synonyms</b>        | MVP; major vault protein; LRP; lung resistance related protein; VAULT1; lung resistance-related protein |
| <b>Gene ID</b>         | 9961                                                                                                    |
| <b>mRNA Refseq</b>     | NM_005115                                                                                               |

|                |                           |
|----------------|---------------------------|
| Protein Refseq | <a href="#">NP_005106</a> |
| MIM            | <a href="#">605088</a>    |
| UniProt ID     | <a href="#">Q14764</a>    |

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