

## Recombinant Human MVP, GST-tagged

Cat. No. MVP-1115H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Human MVP(1 a.a. - 893 a.a.), fused with GST-tag at N-terminal, was expressed in wheat germ.

**Species** Human

**Source** Wheat Germ

**Description** 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.

**Molecular Mass** 123.97 kDa

**AA Sequence**

```
MATEEFIIRIPPYHYIHVLDQNSNVS RVEVGPKTYIRQDNERVL FAPMRMVTVPPRHY
CTVANPVS RDAQGLVLF DVTGQVRLRHADLEIRLAQDPFPLYPGEVLEKDITPLQVV
LPNTALHLKALLDFEDKDGDKVVAGDEWLFEGPGT YIPRKEVEVVEIIQATIIRQNQA
LRLRARKECWDRDGKERVTGEEWLVTTVGAYLPAVFEEVLDLVDVILTEKT ALHL
RARRNFRDFR GVSRR TGEEWLVTVQDTEAHVPDVH EEV LGVVPITTLGPHNYCVIL
DPVGPDGKNQLGQKR VVKGEKSFFLQPGEQLEQGIQDVYVLSEQQGLLLRALQPL
EEGEDEEKVSHQAGDHWLIRGPLEYVPSAKVEVVE ERQAIPLDENEGIYVQDVKTG
```

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KVRAVIGSTYMLTQDEVLWEKELPPGVEELLNKGQDPLADRGEKDTAKSLQPLA PR  
 NKTRVVSYRVPHNAAVQVYDYREKRARVVFGEPELVSLGPEEQFTVLSLSAGRPKRP  
 HARRALCLLLGPDFFTD VITIETADHARLQLQLAYNWHFEVNDRKDPQETAKLFSVP  
 DFVGDACKAIASRVRGAVASVTFDDFHKNSARIIR TAVFGFETSEAKGPDGMALPRP  
 RDQAVFPQNGLVVSSVDVQSVEPVDQRTRDALQRSVQLAIEITTSQEAAAKH EAQ  
 RLEQEARGRLERQKILDQSEAEKARKELLELEALSMAVESTGTAKAEAESRAEAARI  
 EGECSVLQAKLKAQA LAIETEAE LQRVQKVRELELVYARAQLELEVSKAQQLAEVE  
 VKKFKQMTEAIGPSTIRDLAVAGPEMQVKLLQSL GLKSTLITDGSTPINLNFNTAFGLL  
 GMGPEGQPLGRRVASGSPGEGISPQSAQAPQAPGDNHVVPVLR

**Applications** ELISA; WB-Re; AP; Array

**Notes** Best use within three months from the date of receipt of this protein.

**Storage** Store at -80°C. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer** 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

**Gene Name** [MVP major vault protein \[ Homo sapiens \(human\) \]](#)

**Official Symbol** MVP

**Synonyms** MVP; major vault protein; LRP; lung resistance related protein; VAULT1; lung resistance-related protein

**Gene ID** [9961](#)

**mRNA Refseq** [NM\\_005115](#)

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<b>Protein Refseq</b>	NP_005106
<b>MIM</b>	605088
<b>UniProt ID</b>	Q14764
<b>Chromosome Location</b>	16p11.2
<b>Function</b>	protein binding; protein kinase binding; protein phosphatase binding

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