

Product datasheet for **SC114118**

MVP (NM_017458) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MVP (NM_017458) Human Untagged Clone
Tag:	Tag Free
Symbol:	MVP
Synonyms:	LRP; VAULT1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF:

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>OriGene sequence for NM_017458 edited
GAATTCGGCAGGAGGTTGCAGCTACCTGCACTTCTAGATTCATCTTCTTGAGCCCTG
GGCTTAGGAGTACCATGGCAACTGAAGAGTTCATCATCCGCATCCCCCATACCACTAT
ATCCATGTGCTGGACCAGAACAGCAACGTGTCCCGTGTGGAGGTCGGGCCAAAGACCTAC
ATCCGGCAGGACAATGAGAGGGTACTGTTTGCCCCATGCGCATGGTGACCGTCCCCCA
CGTCACTACTGCACAGTGGCCAAACCTGTGTCTCGGGATGCCAGGGCTTGGTGTGTTT
GATGTCACAGGGCAAGTTCGGCTTCGCCACGCTGACCTCGAGATCCGGCTGGCCCCAGGAC
CCCTTCCCCTGTACCCAGGGGAGGTGCTGGAAAAGGACATCACACCCCTGCAGGTGGTT
CTGCCAACACTGCCCTCCATCTAAAGGCGCTGCTTGATTTTGAGGATAAAGATGGAGAC
AAGGTGGTGGCAGGAGATGAGTGGCTTTTCGAGGGACCTGGCACGTACATCCCCGGAAG
GAAGTGGAGGTCGTGGAGATCATTAGGCCACCATCATCAGGCAGAACAGGCTCTGCGG
CTCAGGGCCCGCAAGGAGTGTGGGACCGGACGGCAAGGAGAGGGTGACAGGGGAAGAA
TGGCTGGTACCACAGTAGGGCGTACCTCCCAGCGGTGTTTGAGGAGGTTCTGGATTTG
GTGGACCGCTCATCCTTACGGAAAAGACAGCCCTGCACCTCCGGGCTCGGCGGAACCTC
CGGGACTTCAGGGGAGTGTCCCGCGCACTGGGGAGGAGTGGCTGTTAACAGTGCAGGAC
ACAGAGGGCCACGTGCCAGATGTCCACGAGGAGGTGCTGGGGGTTGTGCCATCACCACT
CTGGGCCCCCACAACTACTGCGTGATTCTCGACCTGTCCGACCGGATGGCAAGAATCAG
CTGGGGCAGAAGCGCGTGGTCAAGGGAGAGAAGTCTTTTTCTCCAGCCAGGAGAGCAG
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GCCCTGCAGCCCCGGAGGAGGGGAGGATGAGGAGAAGGTCTCACACCAGGCTGGGGAC
CACTGGCTCATCCGCGGACCCCTGGAGTATGTCCATCTGCCAAAGTGGAGTGGTGGAG
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GAGAAAGTGCAGCTGTGATTGGAAGCACCTACATGCTGACCCAGGACGAAGTCTGTGG
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GACAGGGGTGAGAAGGACACAGCTAAGAGCCTCCAGCCCTTGGCGCCCCGGAACAAGACC
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AAGCGAGCCCGCTGGTCTTCGGGCTGAGCTGGTGTGCTGGTCTGAGGAGCAGTTC
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AGGCTGCAACTGCAGTGGCCTACAACCTGGCACTTTGAGGTGAATGACCGGAAGGACCCC
CAAGAGACGGCCAAGCTCTTTTCAAGTGCAGACTTTGTAGGTGATGCCTGCAAAGCCATC
GCATCCCGGGTGGGGGGCCGTGGCCTCTGTCACTTTGATGACTTCCATAAAGAACTCA
GCCCGCATCATTGCACTGCTGTCTTTGGCTTTGAGACCTCGGAAGCGAAGGGCCCCGAT
GGCATGGCCCTGCCAGGCCCGGGACAGGCTGTCTCCCCAAAACGGGCTGGTGGTC
AGCAGTGTGGACGTGCAGTCACTGGAGCCTGTGGATCAGAGGACCCGGGACGCCCTGCAA
CGCAGCGTCCAGCTGGCCATCGAGATCACCACTCCAGGAAGCGGGCGCAAGCAT
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TCCACTCCATCAACCTTTCAACACAGCCTTTGGGCTGCTGGGGATGGGGCCGAGGGT
CAGCCCCGAGGAGGTTGGCCAGTGGGCCAGCCCTGGGGAGGGGATATCCCCCAG
TCTGCTCAGGCCCTCAAGCTCCTGGAGACAACCAGTGGTGCCTGTACTGCGCTAACTC
CTGATTAATAACAATGGAAGTTTCTGGGCATTTACAATTTCAAAAAAAAAAAAAAAAAA
CGAC
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_017458 unedited
 TTTGTA CTACGATTTACTATAGGGCGGCCGCGCATTTCGGCACGAGGGTTGCAGCTACCTG
 CACTTCTAGATTCATCTTCTTGTGAGCCCTGGGCTTAGGAGTCACCATGGCAACTGAAGA
 GTTCATCATCCGCATCCCCCATACCACTATATCCATGTGCTGGACCAGAACAGCAACGT
 GTCCCGTGTGGAGGTCGGGCCAAAGACCTACATCCGGCAGGACAATGAGAGGGTACTGTT
 TGCCCCCATGCGCATGGTGACCGTCCCCCACGTCACTACTGCACAGTGCCCAACCCTGT
 GCCTCGGGATGCCAGGGCTTGGTGCTGTTTGTGATGTACAGGGCAAGTTTCGGCTTCGCCA
 CGCTGACCTCGAGATCCGGCTGGCCAGGACCCCTTCCCCTGTACCCAGGGGAGGTGCT
 GGAAAAGGACATCACACCCTGCAGGTGTTCTGCCCAACTGCCCTCCATCTAAAGGC
 GCTGCTTGATTTTGGAGATAAAGATGGAGACAAGGTGGTGGCAGGAGATGAGTGGCTTTT
 CGAGGGACCTGGCACGTACATCCCCGGAAGGAAGTGGAGGTCGTGGAGATCATTAGGC
 CACCATCATCAGGCAGAACAGGCTCTGCGGCTCAGGGCCCGCAAGGAGTGTGNGACCG
 NGACGGCAAGGAGAGGGTGACAGGGGAAGAATGGCTGGTACCACAGTANGGGCGTACCT
 CCCAGCGTGTGGAAGAGGGTCTGGATTTGGTGGACCCCGCATCCTTACGAAAGACAGC
 CCTGCACCTCCGGGCTCGGGGAACTCCGNACTTCAAGGGGAGGGNCCGNCCCCTGGN
 NGAGGGAGGGNNGNCACAGNNACGCCNCNAGCCACCGNCCACAAGCCNNNNCCAG
 GCCAG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_017458 unedited
 AAAAAACCTTACTTGNACCCGGCCGATTCTAAGATCGGTTTTTTTTTTTTTTTTTTTGA
 AATGTAATGCCAAAAAACTTCTTGTATTAATCAGGAGTTAGCGCAGTACAGGCACCAC
 GTGGTTGTCTCCAGGAGCTTGGGGCCCTGAGCAGACTGGGGGATATCCCCTCCCCAG
 GCTGGGCCCACTGGCCACCCTTCTGCCAGGGGCTGACCCTTGGTGCCCATTCAGAAAG
 CCCCAGGCTGGGTTGAAAAGGTTGACGGCAAGTGAACCCCCCCTGATTGAAGGGTT
 GATTTTACGCCCACGGCACTGGAGCACTATTTCTGGTTTTTAAAGCCCCCCCCC
 CCCATTGGTCCCTTTTTGGGGCCGGGGCCCTTGTCCCCTCTCTACAACCCCTTG
 GACTCCTGTTCGCGCCCCCCCCCTCGCCCTTTCCGTCCAACCTCTGTCTCCCT
 CCCCCACCCCAACCCTGTACCCGGTTTCTTAATACCTTCTCCCCTTCTCCGCCCT
 CTCTGCCACCTCCCGTGAGCCTCCCCCCCCCTCTTTTAAACAGCGCGCCACCAACCTGC
 TCCTTTTCACTGCGGGCTCTGACCAACCACCACCTCTCCCCCCCCATCCTTTAT
 CTGCTCTCTTTCTCCTCCCCATGCTCCTCACCCCCCCCCCGTCCATTCTCACCCG
 TCTTTTTTTCTCGCCATCGCGTCCCGACACCCTCCCCTTTACTAACAATTCCTC
 CCTTCTTACCCTTTTTCCCTCCCTCTTACCCTCCGACATACTCCTTTCTTCTCCCC
 TCTCTCCCTCTACTCGGCCCTCTTTCTTCTTTTACCCCCCTACCTCTCCCACT
 CTCCTCACCCGACCTCCTCCTCCTCTCGCTGCGATCCATTTTACCCATATCTTCC
 ATCCACTCGCTTCT

Restriction Sites:

NotI-NotI

ACCN:

NM_017458

Insert Size:

2820 bp

OTI Disclaimer:

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).

Components:

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).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
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.

RefSeq: [NM_017458.2](#), [NP_059447.2](#)

RefSeq Size: 2857 bp

RefSeq ORF: 2682 bp

Locus ID: 9961

UniProt ID: [Q14764](#)

Cytogenetics: 16p11.2

Domains: Vault

Protein Families: Druggable Genome

Gene Summary: 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. [provided by RefSeq, May 2012]
Transcript Variant: This variant (1, also known as L-MVP) is the longest transcript. Variants 1 and 2 encode the same isoform 1.