

## Product datasheet for **SC116936**

### **MVP (NM\_005115) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	MVP (NM_005115) Human Untagged Clone
Tag:	Tag Free
Symbol:	MVP
Synonyms:	LRP; VAULT1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:**

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>OriGene sequence for NM_005115 edited
GAATTCGGCACGAGGGTTTGTTCAGCTACCTGCACTTCTAGATCCCTGGGCTTAGGAGT
CACCATGGCAACTGAAGAGTTTCATCCGCATCCCCCATACCACTATATCCATGTGCT
GGACCAGAACAGCAACGTGTCCCGTGTGGAGGTCGGGCCAAAGACCTACATCCGGCAGGA
CAATGAGAGGGTACTGTTTCCCCCATGCGCATGGTGACCGTCCCCCACGTCACTACTG
CACAGTGGCCAAACCCTGTGTCTCGGGATGCCAGGGCTTGGTGTGTTTGTGTCACAGG
GCAAGTTCGGCTTCGCCACGCTGACCTCGAGATCCGGCTGGCCACGACCCCTTCCCCCT
GTACCCAGGGGAGGTGCTGGAAAAGGACATCACACCCCTGCAGGTGGTTCTGCCAACAC
TGCCCTCCATCTAAAGGCCTGCTTGATTTTGTAGGATAAAGATGGAGACAAGGTGGTGGC
AGGAGATGAGTGGCTTTTCGAGGGACCTGGCACGTACATCCCCCGGAAGGAAGTGGAGGT
CGTGGAGATCATTAGGCCACCATCATCAGGCAGAACCAGGCTCTGCGGCTCAGGGCCCCG
CAAGGAGTGTGGGACCGGGACGGCAAGGAGAGGGTGACAGGGGAAGAATGGCTGGTTCAC
CACAGTAGGGGCTACCTCCCAGCGGTGTTTGTAGGAGTCTGGATTTGGTGGACGCCGT
CATCCTTACGGAAAAGACAGCCCTGCACCTCCGGGCTCGGCGAACTTCCGGGACTTCAG
GGGAGTGTCCCGCCGACTGGGGAGGAGTGGCTGGTAACAGTGCAGGACACAGAGCCCCA
CGTGCCAGATGTCCACGAGGAGGTGCTGGGGTGTGCCATCACACCCTGGGCCCCCA
CAACTACTGCGTGATTCTCGACCCTGTCGGACCGATGGCAAGAATCAGCTGGGGCAGAA
GCGCGTGGTCAAGGGAGAGAAGTCTTTTTCTCCAGCCAGGAGAGCAGCTGGAACAAGG
CATCCAGGATGTGTATGTGCTGTGCGAGCAGCAGGGGCTGCTGCTGAGGGCCCTGCAGCC
CCTGGAGGAGGGGAGGATGAGGAGAAGTCTCACACCAGGCTGGGGACCACTGGCTCAT
CCGCGGACCCCTGGAGTATGTCCATCTGCCAAGTGGAGGTGGTGGAGGAGCGCCAGGC
CATCCCTTAGACGAGAACGAGGGCATCTATGTGCAGGATGTCAAGACCGGAAAGGTGCG
CGCTGTGATTGGAAGCACCTACATGCTGACCCAGGACGAAGTCTGTGGGAGAAAAGAGT
GCCTCCCGGGGTGGAGGAGCTGCTGAACAAGGGCAGGACCCCTCTGGCAGACAGGGGTGA
GAAGGACACAGCTAAGAGCCTCCAGCCCTTGGCGCCCCGAAACAAGACCCGTGTGGTTCAG
CTACCGCTGCCCAACGCTGCGGTGCAAGTGTACGACTACCGAGAGAAGCGAGCCCCG
CGTGGTCTTCGGGCTGAGCTGGTGTGCTGGTCTGAGGAGCAGTTCACAGTGTGTGTC
CCTCTCAGCTGGGCGGCCAAGCGTCCCCATGCCCGCGTGCCTCTGCCTGCTGCTGGG
GCCTGACTTCTTACAGACGTCATCACCATCGAAACGGCGGATCATGCCAGGCTGCAACT
GCAGCTGGCCTACAACGGCACTTTGAGGTGAATGACCGGAAGGACCCCAAGAGACGGC
CAAGCTCTTTTCAAGTCCAGACTTTGTAGGTGATGCCTGCAAAGCCATCGCATCCCGGT
GCGGGGGCCCGTGGCCTCTGTCACTTTGATGACTTCCATAAAGAACTCAGCCCGCATCAT
TCGCACTGCTGTCTTTGGCTTGTAGACCTCGGAAGCGAAGGGCCCCGATGGCATGGCCCT
GCCCAGGCCCCGGGACAGGCTGTCTTCCCCAAAACGGGCTGGTGGTACGAGTGTGGA
CGTGCAGTCAGTGGAGCCTGTGGATCAGAGGACCCGGGACGCCCTGCAACGCAGCGTCCA
GCTGGCCATCGAGATCACCAACTCCCAGGAAGCGCGGCCAAGCATGAGGCTCAGAG
ACTGGAGCAGGAAGCCCGCGCCGGCTTGTAGCGGAGGAGATCCTGGACCACTCAGAAAGC
CGAGAAAGCTCGCAAGGAACTTTTGGAGCTGGAGGCTCTGAGCATGGCCGTGGAGAGCAC
CGGACTGCCAAGGCGGAGGCGGAGTCCCGTGGGAGGACGCCCGATTGAGGGAGAAGG
GTCCGTGCTGCAGGCCAAGCTAAAAGCACAGGCTTGGCCATTGAAACGGAGGCTGAGCT
CCAGAGGGTCCAGAAGGTCCGAGAGCTGGAAGTGGTCTATGCCCGGGCCAGCTGGAGCT
GGAGGTGAGCAAGGCTCAGCAGCTGGCTGAGGTGGAGGTGAAGAAGTTCAAGCAGATGAC
AGAGGCCATAGGCCCCAGCACCATCAGGGACCTTGTGTGGTGGGCTGAGATGCAGGT
AAAAGTGTCCAGTCCCTGGGCTGAAATCAACCCTCATACCGATGGCTCCACTCCCAT
CAACCTCTTCAACACAGCCTTTGGGCTGCTGGGATGGGGCCGAGGGTACGCCCTGGG
CAGAAGGGTGGCCAGTGGGCCAGCCCTGGGGAGGGGATATCCCCCAGTCTGCTCAGGC
CCCTCAAGCTCCTGGAGACAACCAGTGGTGCCTGTAAGTGCCTAACTCCTGATTAATAC
AATGGAAGTTTCTGGGCATTTACAAAAAAAAAAAAAAAAAACTCGAC
    
```

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_005115 unedited  
 CAGATTTGTATACGACTCATATAGGCGGCNCGCAATTCGCACAGGGGTTTGTTCAGCT  
 ACCTGCACTTCTAGATCCCTGGGCTTAGGAGTCAACATGGCAACTGAAGAGTTTCATC  
 CGCATCCCCCATACCACTATATCCATGTGCTGGACCAGAACAGCAACGTGTCCCGTGTG  
 GAGGTCGGGCCAAAGACCTACATCCGGCAGGACAATGAGAGGGTACTGTTGCCCCATG  
 CGCATGGTGACCGTCCCCCACGTCACTACTGCACAGTGGCAACCCTGTGTCTCGGGAT  
 GCCCAGGCTTGGTGTGTTGATGTACAGGGCAAGTTCCGCTTCGCCACGCTGACCTC  
 GAGATCCGGCTGGCCAGGACCCCTTCCCCTGTACCCAGGGGAGGTGCTGGAAAAGGAC  
 ATCACACCCTGCAGGTGGTCTGCCAACACTGCCCTCCATCTAAAGGCGCTGCTTGAT  
 TTTGAGGATAAAGATGGAGACAAGGTGGTGGCAGGAGATGAGTGGCTTTTCGAGGGACCT  
 GGCACGTACATCCCCGGAAGGAAGTGGAGGTCGTGGAGATCATTAGGCCACCATCATC  
 AGGCAGAACAGGCTCTGCGGCTCAGGGCCCGAAGGAGTGTGGGACCGGGACGGCAAG  
 GAGAGGGTGACAGGGGAAGAATGGCTGGTCAACACAGTAGGGGCGTACCTCCAGCGGTG  
 TTTGAGGAGNTCTGGATTTGGTGGACCGCGTCATCCTTACGGAAAAGAAGCCCTGCACC  
 TCCGGGCTCGGCGGAACCTCCGGGACTTCAAGGGAGTGTCCCGCCGCACTGGNGNAGAGT  
 GGGCTGGTACAGTGCANGACACAGAAGGCCACGTGCCANAAGTNCACAAGGAGTGTGGG  
 GGGGTTGTTGCCATTACCACCCTGGGCCCNACAATACTACTGCGTGAATCTCGACCCTGTG

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_005115 unedited  
 GCCGCACTCTAAAGTCGAGTTTTTTTTTTTTTTTTTTTGTAAATGCCCAAAAACCTCCATT  
 GTATTAATCAGGAGTTAGCGCAGTACAGGCACCACGTGGTTGTCTCCAGGAGCTTGAGGG  
 GCCTGAGCAGACTGGGGGATATCCCCTCCCAGGGCTGGGCCACTGGCCACCCTTCTG  
 CCCAGGGGCTGACCTCGGGCCCATCCCAGCAGCCAAAGGCTGTGTTGAAGAGGTTG  
 ATGGGAGTGGAGCCATCGGTGATGAGGGTTGATTTAGGGCCAGGGACTGGAGCAGTTTT  
 ACCTGCATCTCAGGCCAGCCACAGCAAGTCCCTGATGGTGTGGGGCCTATGGCCTCT  
 GTCATCTGCTTGAACCTTCCACCTCCACTCAGCCAGTGTGAGCCTTGCTCACCTCC  
 AGCTCCAGCTGGGCCCGGCATAGACCAGTTCAGCTCTCGGACCTTCTGGACCTCTGG  
 AGCTCAGCCTCCGTTTCAATGGCCAAGGCCTGTGCTTTAGCTTGGCTGCAGCAGGCAC  
 CCTTCTCCCTCAATCCGGGCTGCCTCCGCACGGGACTCGGCCTCCGCCTTGGCAGTTCCG  
 GTGCTCCACGGCCATGCTCAGAGCCTCCAGTCCAAAAGTTCCTTGGAGCCTTCTC  
 GGTCTGACCGGGCCAGGATCCTCTGCCGCTCAAGCCGGCCCGGGGCTCTCTGTCCAG  
 TCTCTGACCCCAATGCTTGGCCGCCCTCCTGGGAGTTGTGGGGATCCCCATGGCCA  
 ACTTGAACCTGGGTTCAAGGGCGTCCCGGCTCCTTGTATACAAAGCTCCACTGACTGC  
 ACGTCCCAGTGTGGACCAACCCGTTTGGTGAATTACGCTGTCCAGGCTCGGGCAG  
 GGCCTTCTCGGGCCCTTCTTCCCAGGCTAAAAGCACAAACGAATGCAAGGAGCGGCCT  
 GGTCTCTGGAACACCCAAG

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_005115

**Insert Size:**

2740 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\\_005115.3](#), [NP\\_005106.2](#)

**RefSeq Size:** 2821 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 (2, also known as S-MVP) uses a different splice site in the 5' UTR, compared to variant 1. Variants 1 and 2 encode the same isoform 1.