

## Product datasheet for **SC337536**

### **MVP (NM\_001293205) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	MVP (NM_001293205) Human Untagged Clone
Tag:	Tag Free
Symbol:	MVP
Synonyms:	LRP; VAULT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001293205, the custom clone sequence may differ by one or more nucleotides

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ATGGCAACTGAAGAGTTCATCATCCGCATCCCCCATACCACTATATCCATGTGCTGGACCAGAACAGCA
ACGTGTCCCGTGTGGAGGTGGGCCAAAGACCTACATCCGGCAGGACAATGAGAGGGTACTGTTGCCCC
CATGCGCATGGTACCGTCCCCCAGTCACTACTGCACAGTGGCCAACCCTGTGTCTCGGGATGCCAG
GGCTTGGTGTGTTTGTGTCACAGGGCAAGTTCGGCTTCGCCACGCTGACCTCGAGATCCGGCTGGCCC
AGGACCCCTTCCCCCTGTACCCAGGGGAGGTGCTGAAAAAGGACATCACACCCTGCAGGTGTTTGTGCC
CAACACTGCCCTCCATCTAAAGGCGCTGCTTATTGAGGATAAAGATGGAGACAAGGTGGTGGCAGGA
GATGAGTGGCTTTTCGAGGGACCTGGCAGTACATCCCCCGAAGGAAGTGGAGGTGCTGGAGATCATTC
AGGCCACCATCATCAGGCAGAACCAGGCTCTGCGGCTCAGGGCCCGCAAGGAGTGTGGGACCGGGACGG
CAAGGAGAGGGTGACAGGGGAAGAATGGCTGGTACCACAGTAGGGGCGTACCTCCAGCGGTGTTTGAG
GAGGTTCTGGATTTGGTGGACGCCGTATCCTTACGAAAAGACAGCCCTGCACCTCCGGCTCGGCGGA
ACTTCCGGGACTTCAGGGGAGTGTCCCGCGCACTGGGGAGGAGTGGCTGTAACAGTGCAGGACACAGA
GGCCACGTGCCAGATGTCCACGAGGAGGTGCTGGGGTGTGCCATCACACCCTGGGCCCCACAAC
TACTGCGTGATTCTCGACCCTGTGCGACCGGATGGCAAGAATCAGCTGGGGCAGAAAGCGGTGGTCAAGG
GAGAGAAGTCTTTTTTCCAGCCAGGAGAGCAGCTGGAACAAGGCATCCAGGATGTGTATGTGCTGTC
GGAGCAGCAGGGGCTGCTGCTGAGGGCCCTGCAGCCCCTGGAGGAGGGGGAGGATGAGGAGAAGGTCTCA
CACCAGGCTGGGACCACTGGCTCATCCGCGGACCCTGGAGTATGTGCCATCTGCCAAAGTGGAGGTGG
TGGAGGAGCGCCAGGCCATCCCTCTAGACGAGAACGAGGGCATCTATGTGCAGGATGTCAAGACCGAAA
GGTGCAGCTGTGATTGGAAGCACCTACATGCTGACCCAGGACGAAGTCTGTGGGAGAAGAGCTGCCT
CCCGGGTGGAGGAGTGTGAACAAGGGGACGACCCTCTGGCAGACAGGGGTGAGAAGGACACAGCTA
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GGTGCAGGTGTACGACTACCGAGAGAAGCGAGCCCGCACTTTGAGGTGAATGACCGGAAGGACCCCAA
GAGACGGCAAGCTCTTTTTCAGTGCCAGACTTTGTAGGTGATGCCTGCAAAGCCATCGCATCCCGGGTGC
GGGGGGCCGTGGCCTCTGTCACTTTGATGACTTCCATAAGAAGTCCAGCCCGCATCATTCGCACTGCTGT
CTTTGGCTTTGAGACCTCGGAAGCGAAGGGCCCCGATGGCATGGCCCTGCCAGGCCCGGGACAGGCT
GTCTTCCCCAAAACGGGCTGGTGGTCAAGTGTGGACGTGCAGTCAAGTGGAGCCTGTGGATCAGAGGA
CCCGGGACGCCCTGCAACGCAGCGTCCAGCTGGCCATCGAGATCACCAACTCCAGGAAGCGGGCGGC
CAAGCATGAGGCTCAGAGACTGGAGCAGGAAGCCCGCGCGGCTTGAGCGGCAGAAAGATCTGGACCAG
TCAGAAGCCGAGAAAGCTCGCAAGGAACCTTTGGAGCTGGAGGCTCTGAGCATGGCCGTGGAGAGCACCG
GGACTGCCAAGGCGGAGGCCGAGTCCCCTGCGGAGGCAGCCCGGATTGAGGGAGAAGGGTCCGTGCTGCA
GGCCAAGCTAAAAGCACAGGCCTTGCCATTGAAACGGAGGCTGAGCTCCAGAGGGTCCAGAAGGTCCGA
GAGCTGGAAGTGGTCTATGCCCGGGCCAGCTGGAGCTGGAGGTGAGCAAGGCTCAGCAGCTGGCTGAGG
TGGAGGTGAAGAAGTCAAGCAGATGACAGAGGCCATAGGCCCCAGCACCATCAGGGACCTTGTGTGGC
TGGGCTGAGATGCAGGTAAGTCTCCAGTCCCTGGGCTGAAATCAACCCTCATCACCAGTGGCTCC
ACTCCATCAACCTCTTCAACACAGCCTTTGGGCTGCTGGGATGGGGCCGAGGGTCAAGCCCTGGGCA
GAAGGGTGGCCAGTGGGCCAGCCCTGGGAGGGGATATCCCCCAGTCTGCTCAGGCCCTCAAGCTCC
TGGAGACAACCACGTGGTGCCTGTACTGCGCTAA
    
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**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_001293205

**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).

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001293205.1</a></u> , <u><a href="#">NP_001280134.1</a></u>
<b>RefSeq Size:</b>	2587 bp
<b>RefSeq ORF:</b>	2484 bp
<b>Locus ID:</b>	9961
<b>UniProt ID:</b>	<u><a href="#">Q14764</a></u>
<b>Cytogenetics:</b>	16p11.2
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (4) lacks an in-frame exon in the central coding region, compared to variant 1. The resulting isoform (3) lacks an internal segment, compared to isoform 1.</p>