

Product datasheet for **RC204841**

MVP (NM_005115) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MVP (NM_005115) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MVP
Synonyms:	LRP; VAULT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC204841 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCAACTGAAGAGTTCATCATCCGCATCCCCCATACCACTATATCCATGTGCTGGACCAGAACAGCA
 ACGTGTCCCGTGTGGAGGTCGGGCCAAAGACCTACATCCGGCAGGACAATGAGAGGGTACTGTTTGCCCC
 CATGCGCATGGTGACCGTCCCCCACGTCACACTGACAGTGGCCAACCCTGTGTCTCGGGATGCCAG
 GGCTTGGTGTGTTGATGTACAGGGCAAGTTCGGCTTCGCCACGCTGACCTCGAGATCCGGCTGGCCC
 AGGACCCCTTCCCCTGTACCCAGGGGAGGTGCTGAAAAGGACATCACACCCCTGCAGGTGTTTCTGCC
 CAACACTGCCCTCCATCTAAAGGCGCTGCTTGATTTTGGAGATAAAGATGGAGACAAGGTGGTGGCAGGA
 GATGAGTGGCTTTTCGAGGGACCTGGCAGTACATCCCCCGAAGGAAGTGGAGGTCGTGGAGATCATT
 AGGCCACCATCATCAGGCAGAACCAGGCTCTGCGGCTCAGGGCCCGCAAGGAGTGTGGACCGGGACGG
 CAAGGAGAGGGTGACAGGGGAAGATGGCTGGTACCACAGTAGGGCGTACCTCCAGCGGTGTTTGGAG
 GAGGTTCTGGATTTGGTGGACGCCGTATCCTTACGAAAAGACAGCCCTGCACCTCCGGCTCGGCGGA
 ACTTCCGGGACTTCAGGGGAGTGTCCCGCCGACTGGGGAGGAGTGGCTGGTAACAGTGCAGGACACAGA
 GGCCACGTGCCAGATGTCCACGAGGAGGTGCTGGGGTGTGCCCATCACACCCCTGGGCCCCACAAC
 TACTGCGTGATTCTCGACCTGTGCGACCGGATGGCAAGAATCAGCTGGGCGAGAAGCGCGTGGTCAAGG
 GAGAGAAGTCTTTTTCTCCAGCCAGGAGAGCAGCTGGAACAAGGCATCCAGGATGTGTATGTGCTGTC
 GGAGCAGCAGGGGCTGCTGCTGAGGGCCCTGCAGCCCTGGAGGAGGGGGAGGATGAGGAGAAGGTCTCA
 CACCAGGCTGGGACCCTGGCTCATCCGCGACCCCTGGAGTATGTGCCATCTGCCAAAGTGGAGGTGG
 TGGAGGAGCGCCAGGCCATCCCTCTAGACGAGAACGAGGGCATCTATGTGCAGGATGTCAAGACCGGAAA
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 CCTGAGGAGCAGTTCACAGTGTGTCCCTCTCAGCTGGGCGGCCAAGCGTCCCCATGCCCGCGTGC
 TCTGCCTGCTGCTGGGCTGACTTCTTACAGACGTATCACCATCGAAACGGCGGATCATGCCAGGCT
 GCAACTGCAGTGGCCTACAACGGCACTTTGAGGTGAATGACCGGAAGGACCCCAAGAGACGGCCAAG
 CTCTTTTTCAGTGCAGACTTTGTAGGTGATGCCTGCAAAGCCATCGCATCCCGGCTGCGGGGGCCGTGG
 CCTCTGTCACTTTCGATGACTTCCATAAGAAGTACGCCCGCATATTCCGACTGCTGCTTTGGCTTTGA
 GACCTCGGAAGCGAAGGGCCCGATGGCATGGCCCTGCCAGGCCCGGGACAGGCTGTCTTCCCCCAA
 AACGGGCTGGTGGTACGAGTGTGGACGTGCAGTACAGTGGAGCCTGTGGATCAGAGGACCCGGGACGCC
 TGCAACGACAGCTCCAGCTGGCCATCGAGATCACCAACTCCAGGAAGCGGGCCAAAGCATGAGGC
 TCAGAGACTGGAGCAGGAAGCCCGCGCCGGCTTGAGCGGCAGAAGATCCTGGACAGTCAAGCCGAG
 AAAGCTCGCAAGGAACCTTTGGAGCTGGAGGCTCTGAGCATGGCCGTGGAGAGCACCGGGACTGCCAAGG
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 AGCACAGGCCCTTGGCCATTGAAACGGAGGCTGAGCTCCAGAGGGTCCAGAAGGTCCGAGAGCTGGAAGT
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 CTCTTCAACACAGCCTTTGGGCTGCTGGGGATGGGGCCGAGGGTCAAGCCCTGGCAGAAAGGTGGCCA
 GTGGGCCAGCCCTGGGAGGGGATATCCCCCAGTCTGCTCAGGCCCTCAAGCTCTGGAGACAACCA
 CGTGGTGCCTGTACTGCGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC204841 protein sequence
 Red=Cloning site Green=Tags(s)

MATEEFIIIRIPPYHYIHVLDQNSNVSVEVGPPTYIRQDNERVLFAPMRMVTVPPRHYCTVANPVSRAQ
 GLVLFDTVGTQVRLRHADLEIRLAQDPFPLYPGEVLEKDIITPLQVVLNPTALHLKALLDFEDKDGDKVVG
 DEWLFEGPGTYIPRKEVEVVEIIQATIIRQNQALRLRARKECWRDRDGKERTGEEWLVTTVGAYLPAVFE
 EVLDDLVDVAVILTEKTALHLRARRNFRDFRGVSRRTGEEWLVTVQDTEAHVPDVHEEVLGVVPIITLGP
 YCVILDPVGPDGKNLQGGKRVVKGESFFLQPGEQLEQGIQDVVYVLSQQGLLLRALQPLEEGEDEEKVS
 HQAGDHWLIRGPLEYVPSAKVEVVEERQAIPLDENEGIYVQDVKTGKVRVAVIGSTYMLTQDEVLWEKELP
 PGVEELLNKGQDPLADRGEKDTAKSLQPLAPRNKTRVVSYPVPHNAAVQVYDYREKRARVVFPELVSLG
 PEEQFTVLSLSAGRPKRPHARRALCLLLGPDFFTDVTITETADHARLQLQAYNWHFEVNRKDPQETAK
 LFSVPDFVGDACKAIASRVRGAVASVTFDDFHKNSARIIRTAVFGFETSEAKGPDGMALPRPRDQAVFPQ
 NGLVVSSVDVQSVPEVDQRTRDALQRSVQLAIEITTNSEQEAAAKHEAQRLEQEARGLERQKILDQSEAE
 KARKELLEALSMAVESTGTAKAEAESRAEAARIEGEGSVLQAKLKAQALAIETEAELQRVQKRELEL
 VYARAQLELEVSKAQQLAEEVEVKKFKQMTAIGPSTIRDLAVAGPEMQVKLLQSLGLKSTLITDGGSTPIN
 LFNTAFGLLGMGPEGQPLGRRVASGSPGEGISPSQSAQAPQAPGDNHVVPLR

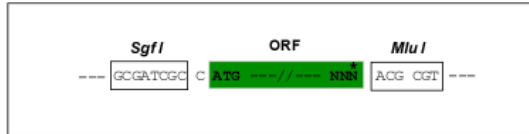
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6690_e10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:

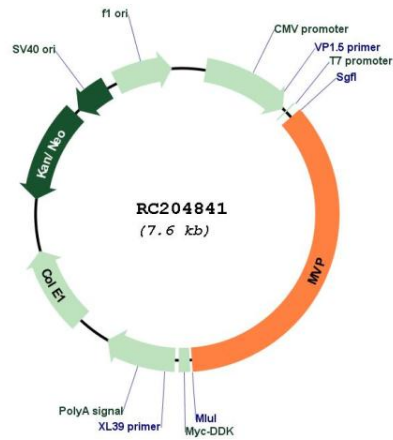


* The last codon before the Stop codon of the ORF

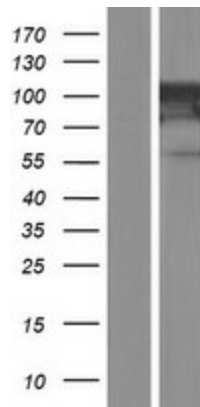
ACCN: NM_005115

ORF Size:	2679 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	<ol style="list-style-type: none">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_005115.5
RefSeq Size:	2902 bp
RefSeq ORF:	2682 bp
Locus ID:	9961
UniProt ID:	Q14764
Cytogenetics:	16p11.2
Domains:	Vault
Protein Families:	Druggable Genome
MW:	99.3 kDa
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]

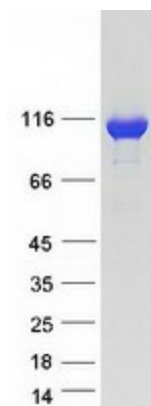
Product images:



Circular map for RC204841



Western blot validation of overexpression lysate (Cat# [LY417505]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204841 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified MVP protein (Cat# [TP304841]). The protein was produced from HEK293T cells transfected with MVP cDNA clone (Cat# RC204841) using MegaTran 2.0 (Cat# [TT210002]).