

Product datasheet for **SC118602**

MVD (NM_002461) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: MVD (NM_002461) Human Untagged Clone
Tag: Tag Free
Symbol: MVD
Synonyms: FP17780; MDDase; MPD; POROK7
Mammalian Cell Selection: None
Vector: [pCMV6-XL5](#)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_002461 edited
GCGAATTCGGCAGGACTGCGCGGTGGGACCATGGCCTCGGAGAAGCCGCTGGCGGCA
GTCACTTGTACAGCGCCGGTCAACATCGCGGTCACTCAAGTACTGGGGCAAGCGCGATGAA
GAGCTGGTTCTGCCCATCAACTCCTCCCTGAGCGTCACTCTGCACCAGGACCAGTTAAAA
ACCACCACAACAGCCGTCATCAGCAAGGACTTCACCGAGGACCGGATTTGGCTGAATGGC
CGGGAGGAGGATGTGGGCAGCCGAGGCTGCAGGCCTGCCTGCGGGAGATCCGCTGCCTG
GCCCGAAGCGGAGAACTCACGGGATGGGGACCCGCTGCCCTCCAGCCTCAGCTGCAAG
GTGCACGTGGCATCGGTGAACAACCTCCCCACGGCTGCGGGCCTGGCCTCCTCAGCGGG
GGCTATGCCTGCCTAGCCTACACCCTGGCCGTGTCTACGGCGTGGAGAGTGACCTCTCA
GAAGTGGCTCGCCGGGCTCAGGCAGCGCTGCCGGAGCCTGTATGGGGCTTTGTGGAG
TGGCAGATGGGAGAGCAGGCCGACGGGAAGGACAGCATCGCTCGGCAAGTGGCCCCGAG
TCACACTGGCCTGAACTCCGCGTCTCATCCTTGTGGTGAAGCGCTGAGAAGAAGCTGACA
GGCAGTACCGTGGGCATGCGGGCCAGTGTGGAGACCAGCCCCCTGCTTCGGTTCCGGGCC
GAGTCCGTGGTGGCCGCGCATGGCGGAGATGGCCCGTGCATCCGGGAGCGAGACTTC
CCCAGCTTCGCCCAGCTGACCATGAAGGACAGCAACCAGTTCCACGCCACCTGCCTCGAC
ACCTTCCCGCCCATCTCTACCTCAATGCCATCTCCTGGCGCATCATCCACCTGGTGCAC
CGCTTCAACGCCACCACGGGGACACCAAGGTGGCGTACACCTTTGACCGGGGCCCAAT
GCCGTGATCTTACCCTGGACGACACTGTGGCTGAGTTTGTGGCTGCTGTGTGGCACGGC
TTTCCCCAGGCTCGAATGGAGACAGTCTTGAAGGGGCTGCAGGTGAGGCCGGCCCT
CTCTCAGCTGAGCTTTCAGGCTGCGCTGGCCATGGAGCCGACCCCGGTGGGGTCAAGTAC
ATCATTGTCACTCAGGTGGGGCCAGGGCCTCAAATCCTGGATGACCCCTGCGCCACCTC
CTGGGTCTGACGGCCTGCCAAGCCAGCTGCCTGACTGCCTCAGCAGGGACCGCATGCC
GCTTGGAGAAGGGGTGGCCTCGCCGGAGCTAGGGAGCGGATGTGGTGGGCTGGCCGGACT
CCTGGGACATGTGGTGGTGGCTTGACCCCGGGCCATGGGCAGCTTGCTGTGGGCAGT
GCAGGGAGTCTGCGGCCCGCCAGGTGTCAGGAGAGGTCCCCGCCGAGTCTTCAGCTGC
CCTAAGCTGCACCAGCGCTTTGCC



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002461 unedited
 GTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGACTGCGCGGTGGGACCA
 TGGCCTCGGAGAAGCCGCTGGCGGCAGTCACTTGTACAGCGCCGGTCAACATCGCGGTCA
 TCAAGTACTGGGGCAAGCGCGATGAAGAGCTGGTCTGCCCATCAACTCCTCCCTGAGCG
 TCACTCTGCACCAGGACCAGTTAAAAACCACCAACAGCCGTATCAGCAAGGACTTCA
 CCGAGGACCGGATTTGGCTGAATGGCCGGGAGGAGGATGTGGGGCAGCCGAGGCTGCAGG
 CCTGCCTGCGGGAGATCCGCTGCCTGGCCCGGAAGCGGAGGAACACCGGATGGGGACC
 CGCTGCCCTCCAGCCTCAGCTGCAAGGTGCACGTGGCATCGGTGAACAACCTCCCCACGG
 CTGCGGGCCTGGCCTCCTCAGCGCGGGCTATGCCTGCCTAGCCTACACCCTGGCCCGTG
 TCTACGGCGTGGAGAGTGACCTCTCAGAAGTGGCTCGCCGGGGCTCAGGCAGCGCCTGCC
 GGAGCCTGTATGGNGGCTTTGTGGAGTGGCAGATGGGAGAGCAGGCCGACGGGAAGGACA
 GCATCGCTCGGCAAGTGGCCCCGAGTCACTGGCCTGAACTCCGCGTGTCTATCCTTG
 TGGTGAGCGCTGAGAAGAAGCTGACAGGCAGTACCGTGGGCATGCGGNCCAGTGTGGAGA
 CCAGCCCCCTGCTTCNGTTCGGNCCGAGTCCGTGGTGGCCGCGGCATGGCNGAGATGGC
 CCGCTGCATCCGGGAGCGAGACTTNCCCAGCTTCGNCCAGCTGACCATGAAGACANNCA
 CCAGTCCACGCCNACTGGCTNGACACCTTNCCCAGCATNTCTTACCTCATGCCATCTCTG
 GGCATCATCCACTGGTGCACCCTCAACGN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_002461 unedited
 CGCGGCCCAATCTAAAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTGGCAGCAATGCTGGTTTAT
 TCCCCATGGCCACCGGGCCGACTGGTGGCCACTCTGCCACCATTCCAGCCACACCCA
 GGCCGTGGCAGCCACCCTCCGAGACACCTGGGCCGGGGCAGGGTCTCAGCAGAAGCGC
 CGTGGGCAGCCACCATCCGAGGCACTTGGTGGTTTCTGAGGCCAAGGAGGCTGCTCCC
 AGCACAGTGACCCTTCCCTGGTCCGCTGGAGGGACCACCTCCCCACTGAGCTACTTTCT
 CAGAGAACTGGGCATAGCCAGAGCTGGGGTGAAGAAAGCCCTTACCCCTGCTGCACCGAG
 GCTCTGGCAGTTCTCATACCCCTCCCATCCCATCTTGGCAAAGCGCTGGCGCAACTTA
 AGGCAGCTGAAGCACTCGGCGGGGACCTTCTGACACCTGGGCGGAGCGCAGGACTCCCT
 GCACTGCCCCACAGCAAGCTGCCATGGGCCGGGGACAAGCCACCACCCACATGTACCC
 AGAGATCGGACAGCCACCACATACGGTCCCTACATTCGGGAAGCCACCACTTTTTACA
 AACGACTGTGGCCCCCTCGTGAAGCCAATCACGACACCTGGATTGCGAAAGCCCGCTT
 GGACCCAGAAGGTGGGGCCCTGGGGTCTCACACAAATTGATGGCCCTGCCACCCTGG
 ATGACATGGATGAACTTTGACCACCCCGGGGAAGATTACTTGGACCCCCACCCCGAA
 ACCTCAATTTGAAAAAGGAACGATACCAACCGCCAGCCCTAAAAAACCGCGATTGTT
 TCCCAACCGGGGAAACTCATCTCCACATGTACCCATAACTCTCCCGTCAAGTACTAT
 TGGGGATACATATAAGACATTGGAGACCCACCACCAAGGG

Restriction Sites:

EcoRI-XbaI

ACCN:

NM_002461

Insert Size:

1910 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:	<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:	<u>NM_002461.1</u> , <u>NP_002452.1</u>
RefSeq Size:	1812 bp
RefSeq ORF:	1203 bp
Locus ID:	4597
UniProt ID:	<u>P53602</u>
Cytogenetics:	16q24.2
Domains:	GHMP_kinases
Protein Pathways:	Metabolic pathways, Terpenoid backbone biosynthesis
Gene Summary:	The enzyme mevalonate pyrophosphate decarboxylase catalyzes the conversion of mevalonate pyrophosphate into isopentenyl pyrophosphate in one of the early steps in cholesterol biosynthesis. It decarboxylates and dehydrates its substrate while hydrolyzing ATP. [provided by RefSeq, Jul 2008]