

Product datasheet for **RG200451**

MVD (NM_002461) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: MVD (NM_002461) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: MVD
Synonyms: FP17780; MDDase; MPD; POROK7
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG200451 representing NM_002461
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCTCGGAGAAGCCGCTGGCGGCAGTCACTTGTACAGCGCCGGTCAACATCGCGGCATCAAGTACT
GGGGCAAGCGGATGAAGAGCTGGTCTGCCCATCAACTCCTCCCTGAGCGTCACTCTGCACCAGGACCA
GTTAAAAACCACCACAACAGCCGTCATCAGCAAGGACTTCACCGAGGACCGGATTTGGCTGAATGGCCGG
GAGGAGGATGTGGGCAGCCGAGGCTGCAGGCCTGCCTGCGGGAGATCCGCTGCCTGGCCCGGAAGCGGA
GGAACACAGGGATGGGGACCCGCTGCCCTCCAGCCTCAGCTGCAAGGTGCACGTGGCATCGGTGAACAA
CTTCCCCACGGCTGCGGGCCTGGCTCCTCAGCGCGGGCTATGCCTGCCTAGCCTACACCCTGGCCCGT
GTCTACGGCGTGGAGAGTGACCTCTCAGAAGTGGCTCGCCGGGGCTCAGGCAGCGCTGCCGGAGCCTGT
ATGGGGGCTTTGTGGAGTGGCAGATGGGAGAGCAGGCCGACGGGAAGGACAGCATCGCTCGGCAAGTGGC
CCCCGAGTCACACTGGCCTGAACTCCGCGTGCTCATCCTTGTGGTGGAGCGCTGAGAAGAAGTGCAGGC
AGTACCGTGGGCATGCGGGCAGTGTGGAGACCAGCCCTGCTTCGGTTCGGGGCCGAGTCCGTGGTGC
CCGCGCATGGCGGAGATGGCCCGTGCATCCGGGAGCGAGACTTCCCCAGCTTCGCCAGCTGACCAT
GAAGGACAGCAACCAGTCCACGCCACCTGCCTCGACACCTTCCCGCCATCTCTTACCTCAATGCCATC
TCCTGGCGCATCATCCACTGGTGCACCCGCTTCAACGCCACACGGGGACACCAAGTGGCGTACACCT
TTGACGGGGCCCAATGCCGTGATCTTACCCTGGACGACACTGTGGCTGAGTTTGTGGCTGCTGTGTG
GCACGGCTTTCCCCAGGCTCGAATGGAGACACGTTTCTGAAGGGGCTGCAGGTGAGGCCGGCCCTCTC
TCAGCTGAGCTTCAGGCTGCGCTGGCCATGGAGCCGACCCCGGTGGGGTCAAATACATCATTGTCACTC
AGGTGGGGCCAGGGCCTCAAATCCTGGATGACCCTGCGCCACCTCCTGGGTCTGACGGCCTGCCGAA
GCCAGCTGCC

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >RG200451 representing NM_002461
 Red=Cloning site Green=Tags(s)

MASEKPLAAVTCTAPVNI AVIKYWGKRDEELVLPINSSLSVTLHQDQLKTTTAVISKDFTEDRIWLNGR
 EEDVGGQPR LQA CLREIRCLARKRRNSRDGDL PSSL SCKVHVASVNNFPTAAGLASSAAGYACLAYTLAR
 VYGVESDLSEVARRGSGSACRSLYGGFVEWQMGEQADGKDSIARQVAPESHWP ELRVLILVVS AEKLTG
 STVGMRASVETSPLLRFRAESVVPARMAEMARCIRERDFPSFAQLTMKDSNQFHATCLDFTFPPISYLNAI
 SWRIIHLVHRFNAHHGDTKVAYTFDAGPNAVIFLDDTVAEFVAAVWHGFPPGSGNDTFLKGLQVRPAPL
 SAELQAALAMEPTPGGVKYYIIVTQVGGPQILDDPCAHL L GPDGLPKPAA

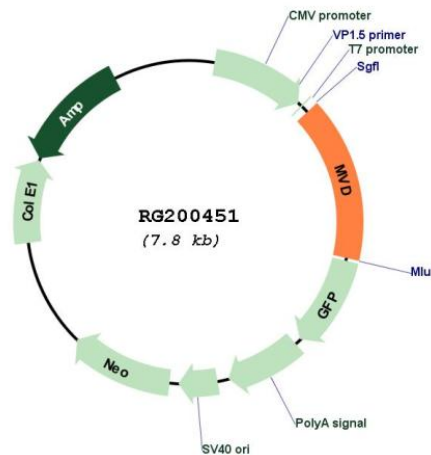
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_002461

ORF Size:	1200 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_002461.1 , NP_002452.1
RefSeq Size:	1812 bp
RefSeq ORF:	1203 bp
Locus ID:	4597
UniProt ID:	P53602
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]