

Product datasheet for RC225616

MVK (NM_001114185) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MVK (NM_001114185) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MVK
Synonyms:	LRBP; MK; MVLK; POROK3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC225616 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTGTCAGAAGTCTACTGGTGTCTGCTCCGGGAAAGTCATCCTTCATGGAGAACATGCCGTGGTAC
ATGGCAAGGTAGCACTGGCTGTATCCTTGAAGTGAAGAACATTCTCCGGCTTCAACCCACAGCAATGG
GAAAGTGGACCTCAGCTTACCCAACATTGGTATCAAGCGGGCCTGGGATGTGGCCAGGCTTCAGTCACTG
GACACAAGCTTTCTGGAGCAAGGTGATGCACAACACCCACCTCAGAGCAAGTGGAGAAGCTAAAGGAGG
TTGCAGGCTTGCCTGACGACTGTGCTGTACCGAGCGCCTGGCTGTGCTGGCCTTTCTTTACTTATACCT
GTCCATCTGCCGGAAGCAGAGGGCCCTGCCGAGCCTGGATATCGTAGTGTGGTCCGAGCTGCCCCCGGG
GCGGGCTTGGGCTCCAGCGCCGCTACTCGGTGTGCTGGCAGCAGCCCTCCTGACTGTGTGCGAGGAGA
TCCCAAACCCGCTGAAGGACGGGATTGCGTCAACAGGTGGACCAAGGAGGATTTGGAGCTAATTAACAA
GTGGGCTTCCAAGGGGAGAGAAATGATTCACGGGAACCCCTCCGGAGTGGACAAATGCTGTGACGACCTGG
GGAGGAGCCCTCCGATACCATCAAGGGAAGATTCATCCTTAAAGAGGTGCGCAGCTCTCCAGATCCTGC
TGACCAACACCAAAGTCCCTCGCAATACCAGGGCCCTTGTGGCTGGCGTCAGAAACAGGCTGCTCAAGTT
CCCAGAGATCGTGGCCCCCTCCTGACCTCAATAGATGCCATCTCCCTGGAGTGTGAGCGCGTGTGGGA
GAGATGGGGGAAGCCCCAGCCCCGGAGCAGTACCTCGTGTGGAAGGCTCATTGACATGAACAGCACC
ATCTGAATGCCCTCGGCGTGGCCACGCCCTCTCTGGACCAGCTCTGCCAGGTGACCAGGGCCCGCGGACT
TCACAGCAAGCTGACTGGCGCAGCGGTGGTGGCTGTGGCATCACACTCCTCAAGCCAGGCTGGAGCAG
CCAGAAGTGGAGGCCACGAAGCAGGCCCTGACCAGCTGTGGCTTTGACTGCTTGGAAACCAGCATCGGTG
CCCCGGCGTCTCCATCCACTCAGCCACCTCCCTGGACAGCCGAGTCCAGCAAGCCCTGGATGGCCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

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_001114185.3](#)

RefSeq Size: 2075 bp

RefSeq ORF: 1191 bp

Locus ID: 4598

UniProt ID: [Q03426](#)

Cytogenetics: 12q24.11

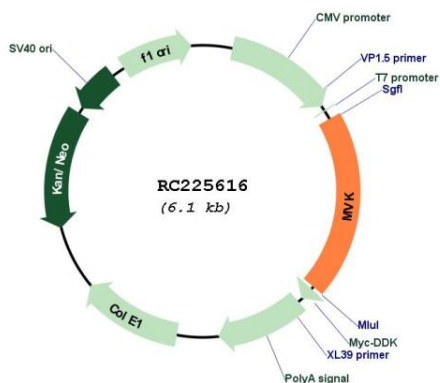
Protein Families: Druggable Genome

Protein Pathways: Metabolic pathways, Terpenoid backbone biosynthesis

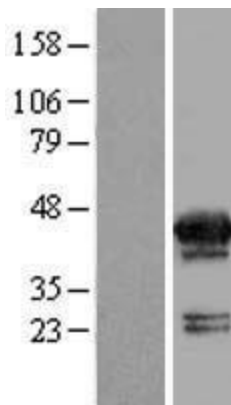
MW: 42.5 kDa

Gene Summary: This gene encodes the peroxisomal enzyme mevalonate kinase. Mevalonate is a key intermediate, and mevalonate kinase a key early enzyme, in isoprenoid and sterol synthesis. Mevalonate kinase deficiency caused by mutation of this gene results in mevalonic aciduria, a disease characterized psychomotor retardation, failure to thrive, hepatosplenomegaly, anemia and recurrent febrile crises. Defects in this gene also cause hyperimmunoglobulinaemia D and periodic fever syndrome, a disorder characterized by recurrent episodes of fever associated with lymphadenopathy, arthralgia, gastrointestinal dismay and skin rash. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2014]

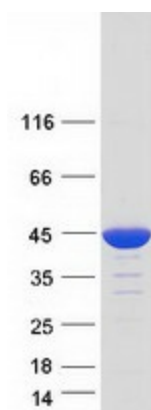
Product images:



Circular map for RC225616



Western blot validation of overexpression lysate (Cat# [LY426476]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC225616 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified MVK protein (Cat# [TP325616]). The protein was produced from HEK293T cells transfected with MVK cDNA clone (Cat# RC225616) using MegaTran 2.0 (Cat# [TT210002]).