

Product datasheet for **RG201971**

MVK (NM_000431) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | MVK (NM_000431) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | MVK |
| Synonyms: | LRBP; MK; MVLK; POROK3 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG201971 representing NM_000431 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTGTCAGAAGTCTACTGGTGTCTGCTCCGGGAAAGTCATCCTTCATGGAGAACATGCCGTGGTAC
ATGGCAAGGTAGCACTGGCTGTATCCTTGAACCTGAGAACATTCCTCCGGCTTCAACCCACAGCAATGG
GAAAGTGGACCTCAGCTTACCCAACATTGGTATCAAGCGGGCCTGGGATGTGGCCAGGCTTCAGTCACTG
GACACAAGCTTTCTGGAGCAAGGTGATGCACAACACCCACCTCAGAGCAAGTGGAGAAGCTAAAGGAGG
TTGCAGGCTTGCCTGACGACTGTGCTGTACCCGAGCGCCTGGCTGTGCTGGCCTTTCTTTACTTATACCT
GTCCATCTGCCGGAAGCAGAGGGCCCTGCCGAGCCTGGATATCGTAGTGTGGTCCGAGCTGCCCCCGGG
GCGGGCTTGGGCTCCAGCGCCGCTACTCGGTGTGCTGGCAGCAGCCCTCCTGACTGTGTGCGAGGAGA
TCCCAAACCCGCTGAAGGACGGGATTGCGTCAACAGGTGGACCAAGGAGGATTTGGAGCTAATTAACAA
GTGGGCTTCCAAGGGGAGAGAAATGATTCACGGGAACCCCTCCGGAGTGGACAATGTGTGACGACCTGG
GGAGGAGCCCTCCGATACCATCAAGGGAAGATTCATCCTTAAAGAGGTCCGACGCTCCAGATCCTGC
TGACCAACACCAAAGTCCCTCGCAATACCAGGGCCCTTGTGGCTGGCGTCAGAAACAGGCTGCTCAAGTT
CCCAGAGATCGTGGCCCCCTCCTGACCTCAATAGATGCCATCTCCCTGGAGTGTGAGCGCGTGTGGGA
GAGATGGGGGAAGCCCCAGCCCCGAGCAGTACCTCGTGTGGAAGACTCATTGACATGAACAGCACC
ATCTGAATGCCCTCGGCGTGGCCACGCCTCTCTGGACCAGCTCTGCCAGGTGACCAGGGCCCGCGGACT
TCACAGCAAGCTGACTGGCGCAGCGGTGGTGGCTGTGGCATCACACTCCTCAAGCCAGGCTGGAGCAG
CCAGAAGTGGAGGCCACGAAGCAGGCCCTGACCAGCTGTGGCTTTGACTGCTTGGAAACCAGCATCGGTG
CCCCGGCGTCTCCATCCACTCAGCCACCTCCCTGGACAGCCGAGTCCAGCAAGCCCTGGATGGCCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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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_000431.4](#)

RefSeq Size: 1952 bp

RefSeq ORF: 1191 bp

Locus ID: 4598

UniProt ID: [Q03426](#)

Cytogenetics: 12q24.11

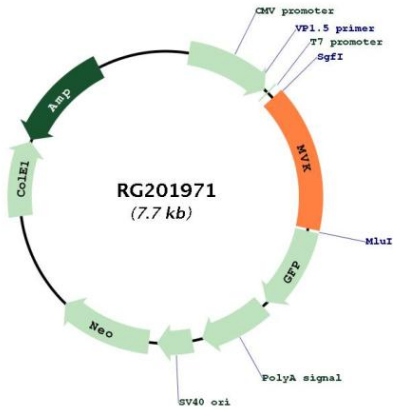
Domains: GHMP_kinases

Protein Families: Druggable Genome

Protein Pathways: Metabolic pathways, Terpenoid backbone biosynthesis

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 RG201971