

## Product datasheet for **MR220069**

### Matk (NM\_010768) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Matk (NM_010768) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Matk
Synonyms:	CHK; HYL; Ntk; p56ntk
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MR220069 representing NM\_010768  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCAAGGCGAAGCTCCCGGGTCTCTGGCTGGCCTTTGAAGGCTGGGAATCTAGGGACCTGCCTCGGG  
 TGAGCCCTAGATTGTTCCGAGCTTGGCACCCCGCCTGCTGCAGCTAGGATGCCAACGCGCTGGGCCCC  
 TGGGACTCAATGCATGACCAAGTGTGAGAACTCTCGCCCAAGCCCGGTGAGCTAGCCTTTCGAAAGGGT  
 GACATGGTGACCATCTTGGAGGCCTGTGAGGACAAGAGCTGGTACCGAGCCAAGCACCATGGCAGTGGGC  
 AGGAAGGGCTGCTGGCGGCCGCTGCTCTGCGACAGCGGGAGGCCCTCTCCACAGACCCCAAGCTCAGCCT  
 CATGCCATGGTTTCATGGCAAGATCTCCGGCCAGGAAGCCATACAGCAGCTGCAGCCACCCGAGGACGGG  
 CTGTTCTTGTGAGGGAATCAGCTCGTACCCTGGAGACTATGTCTTGTGTGTGAGTTTCGGCCGTGACG  
 TCATCCACTACCGTGTTCATCGAGATGGGCACCTCACCATCGATGAGGCCGTGTGTTCTGTAACT  
 GATGGACATGGTGGAGCACTACACCAAGGACAAGGGGGCCATCTGCACCAAGCTGGTGAAGCCAAGGAGG  
 AAACAGGGCGCAAAGTCTGCAGAGGAGGAGCTCGCCAAGGCTGGCTGGCTACTCGACCTGCAGCATCTGA  
 CTCTGGGAGCACAGATTGGAGAGGGGAGTTTGGAGCCGCTCTACAGGGTGAAGTACCTGGGACAGAAGGT  
 GGCTGTGAAGAATATCAAGTGTGATGTGACAGCCAGGCCCTTCTGGATGAGACGGCTGTGATGACGAAG  
 CTGCAGCACAGGAACCTAGTGGACTCCTGGGTGTGATCCTGCACCACGGCTTGTACATTGTGATGGAGC  
 ACGTGAGCAAGGGCAACCTGGTGAACCTTCTGCGCACGGGGCCGTGCTTGTGAGCACCTCTCAGCT  
 TCTGCAGTTTGTCTTTCATGTTGCTGAAGGCATGGAATACCTGGAGAGCAAGAAGCTGGTGCACCCGGAC  
 CTGGCTGCTCGGAACATCCTGGTCTCTGAGGACTTGGTGGCAAGGTGAGTACTTGGCTTAGCCAAGG  
 CAGAGCGCAAGGGCTGGACTCAAGCCGGCTGCCAGTCAAGTGGACGGCACCTGAGGCTCTCAAAAACGG  
 GCGGTTCTCCAGCAAGTGGATGTCTGGAGTTTGGGGTGTGTTGTGGGAAGTCTTCTTATGGAAGA  
 GCCCATACCCCAAGATGTGCTAAAGGAGTTTCAAGGCTGTGGAGAAGGTTACCGCATGGAGCCCC  
 CCGATGGCTGCCAGGCTCTGTGACACCCCTCATGGTAGCTGCTGGGAGGCAGAGCCTGCGCGCCGACC  
 ACCCTTCCGAAAATAGTGGAGAAGCTGGGCCGTGAGCTCCGCAGTGTGGGTGTCTCGGCCCCCGCTGGG  
 GGACAGGAGGCTGAGGGCTCAGCTCCACACGGAGCCAGGACCCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR220069 representing NM\_010768  
 Red=Cloning site Green=Tags(s)

MARRSSRVSWLAFEGWESRDLPVSPRLFAGWHPAPAAAAMPTRWAPGTQCMTKCENSRPKPGELAFRKG  
 DMVTILEACEDKSWYRAKHHGSGQEGLAAAALRQREALSTDPKLSLMPWFHGKISGQEIQQLPPEDE  
 LFLVRESARHPGDYVLCVSFGRDVIHYRVLHRDGHLLTIDEAVCFNLMDMVEHYTKDKGAICTKLKPRR  
 KQGAESAEEELAKAGWLLDLQHLTLGAQIGEGEFGAVLQGEYLGQKVAVKNIKCDVTAQAFLEDAVMTK  
 LQHRNLVRLLGVLHHGLYIVMEHVSNGNLVNFLRTRGRALVSTSQLLQFALHVAEGMEYLESKLVRD  
 LAARNILVSEDLVAKVSDFGLAKAERKGLDSSRLPVKWTAPEALKNGRFSKSDVVSFVLLWEVFSYGR  
 APYPKMSLKEVSEAVEKGYRMEPPDGCPSVHTLMGSCWEAEPARRPPFRKIVEKLGRELRSVGSAPAG  
 GQEAEGSAPTRSQDP

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9010\\_b07.zip](https://cdn.origene.com/chromatograms/mm9010_b07.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_010768

**ORF Size:** 1515 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:**

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\\_010768.2](#), [NP\\_034898.1](#)

**RefSeq Size:** 1734 bp

**RefSeq ORF:** 1518 bp

**Locus ID:** 17179

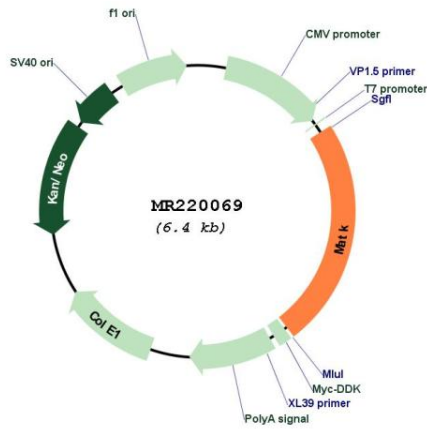
**UniProt ID:** [P41242](#)

**Cytogenetics:** 10 C1

MW: 56.6 kDa

Gene Summary: Could play a significant role in the signal transduction of hematopoietic cells. May regulate tyrosine kinase activity of SRC-family members in brain by specifically phosphorylating their C-terminal regulatory tyrosine residue which acts as a negative regulatory site. It may play an inhibitory role in the control of T-cell proliferation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR220069