

## Product datasheet for **MR230050**

### Matk (NM\_001285854) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Matk (NM_001285854) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Matk
Synonyms:	CHK; HYL; Ntk; p56ntk
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>MR230050 representing NM\_001285854  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCCAACGCGCTGGGCCCTGGGACTCAATGCATGACCAAGTGTGAACTCTCGCCCCAAGCCGGTG  
 AGCTAGCCTTTCGAAAGGGTGCATGGTGACCCTTGGAGGCCTGTGAGGACAAGAGCTGGTACCAGC  
 CAAGCACCATGGCAGTGGGCAGGAAGGGCTGTGGCGGCCGTCTCGGACAGCGGGAGGCCCTCTCC  
 ACAGACCCCAAGCTCAGCCTCATGCCATGGTTTCATGGCAAGATCTCCGCCAGGAAGCCATACAGCAGC  
 TGCAGCCACCCGAGGACGGGCTGTTCTTGTGAGGGAATCAGCTCGTCACCCTGGAGACTATGTCTGTG  
 TGTCACTTTCGGCCGTGACGTATCCACTACCGTGTTCATCGAGATGGGCACCTCACCATCGATGAG  
 GCCGTGTGTTTGTAACTGATGGACATGGTGGAGCACTACACCAAGGACAAGGGGGCCATCTGCACCA  
 AGCTGGTGAAGCCAAGGAGGAAACAGGGCGCAAAGTCTGCAGAGGAGGAGCTCGCAAGGCTGGCTGGCT  
 ACTCGACCTGCAGCATCTGACTCTGGGAGCACAGATTGGAGAGGGGGAGTTTGGAGCCGCTCTACAGGGT  
 GAGTACCTGGGACAGAAGGTGGCTGTGAAGAATATCAAGTGTGATGTGACAGCCAGGCCTTCTGGATG  
 AGACGGCTGTGATGACGAAGCTGCAGCACAGGAACCTAGTGCAGCTCCTGGTGTGATCCTGCACCACGG  
 CTTGTACATTGTGATGGAGCACGTGAGCAAGGGCAACCTGGTGAACCTTCTGCGCACGGGGCCGTGCT  
 CTTGTGAGCACCTCTCAGCTTCTGCAGTTTGTCTTTCATGTTGCTGAAGGCATGGAATACCTGGAGAGCA  
 AGAAGCTGGTGCACCGGGACCTGGCTGCTCGGAACATCCTGGTCTCTGAGGACTTGGTGGCAAGGTCAG  
 TGACTTTGGCTTAGCCAAGGCAGAGCGCAAGGGGCTGGACTCAAGCCGGCTGCCAGTCAAGTGGACGGCA  
 CCTGAGGCTCTCAAAAACGGGCGGTTCTCCAGCAAGTCCGATGTCTGGAGTTTGGGGTGTCTGTTGTTGGG  
 AAGTCTTCTCTTATGGAAGAGCCCCATACCCCAAGATGTCGCTAAAGGAGGTTTCAGAGGCTGTGGAGAA  
 GGGTTACCGCATGGAGCCCCCGATGGCTGCCAGGCTCTGTGCACACCCCTCATGGGTAGCTGCTGGGAG  
 GCAGAGCCTGCGCGCCGACCACCTTCCGCAAAATAGTGGAGAAGCTGGGCCGTGAGCTCCGCAGTGTGG  
 GTGTCTCGGCCCCGCTGGGGGACAGGAGGCTGAGGGCTCAGCTCCACACGGAGCCAGGACCCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR230050 representing NM\_001285854  
 Red=Cloning site Green=Tags(s)

MPTRWAPGTQCMTKCENS RPKGELAFRKGDMVTILEACEDKSWYRAKHHGSGQEGLLAAAAALRQREALS  
 TDPKLSLMPWFHGKISGQEIQQLPPE DGLFLVRESARHPGDYVLCVSFGRDVIHYRVLHRDGH LTIDE  
 AVCFCNLMDMVEHYTKDKGAICTKLVKPRRKQGA KSAEEELAKAGWLLDLQHLTLGAQIGEGEFGAVLQ G  
 EYLGQKVAVKNIKCDVTAQAFLETA VMTKLQHRNLVRL LGVILHHGLYIVMEHVSKGNLVNFLRTRGRA  
 LVSTSQLLQFALHVAEGMEYLESKLVHRDLAARNILVSEDLVAKVSDFLAKAERKGLDSSRLPVK WTA  
 PEALKNRFSKSDVWSFGVLLWEVFSYGRAPYPM SMLKEVSEAVEKGYRMEPPDGCPSVHTLMGSCWE  
 AEPARRPPFRKIVEKLGRELRSVGV SAPAGGQEAEGSAPTRSQDP

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

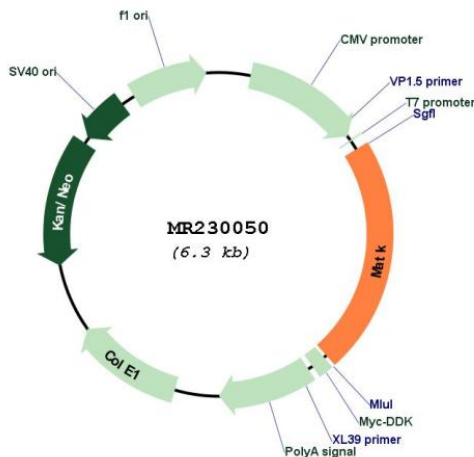
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001285854

ORF Size: 1395 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\\_001285854.1](#), [NP\\_001272783.1](#)

**RefSeq Size:** 1844 bp

**RefSeq ORF:** 1398 bp

**Locus ID:** 17179

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

**Cytogenetics:** 10 C1

**MW:** 52 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]