

Product datasheet for **MR230051**

Matk (NM_001285855) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Matk (NM_001285855) 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:

>MR230051 representing NM_001285855
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCAACCGCTGGGCCCTGGGACTCAATGCATGACCAAGTGTGAACTCTCGCCCCAAGCCGGTG
 AGCTAGCCTTTTCGAAAGGGTGCATGGTACCCTTTGGAGCCTGTGAGGACAAGAGCTGGTACCAGC
 CAAGCACCATGGCAGTGGCAGGAAGGGCTGTGGCGGCCGTCTCGCAGACGCGGAGGCCCTCTCC
 ACAGACCCCAAGCTCAGCCTCATGCCATGGTTTCATGGCAAGATCTCCGCCAGGAAGCCATACAGCAGC
 TGCAGCCACCCGAGGACGGGCTGTTCTTGTGAGGGAATCAGCTCGTCACCCTGGAGACTATGTCTGTG
 TGTCACTTTCGGCCGTGACGTATCCACTACCGTGTTCATCGAGATGGGCACCTCACCATCGATGAG
 GCCGTGTGTTTGTAACTGATGGACATGGTGGAGCACTACACCAAGGACAAGGGGGCCATCTGCACCA
 AGCTGGTGAAGCCAAGGAGGAAACAGGGCGCAAAGTCTGCAGAGGAGGAGCTCGCAAGGCTGGCTGGCT
 ACTCGACCTGCAGCATCTGACTCTGGGAGCACAGATTGGAGAGGGGAGTTTGGAGCCGCTCTACAGGGT
 GAGTACCTGGGACAGAAGGTGGCTGTGAAGAATATCAAGTGTGATGTGACAGCCAGGCCTTCTGGATG
 AGACGGCTGTGATGACGAAGCTGCAGCACAGGAACCTAGTGCAGCTCCTGGGTGTGATCCTGCACCACGG
 CTTGTACATTGTATGGAGCACGTGAGCAAGGGCAACCTGGTGAACCTTCTGCGCACGGGGCCGTGCT
 CTTGTGAGCACCTCTCAGCTTCTGCAGTTTGTCTTTCATGTTGCTGAAGGCATGGAATACCTGGAGAGCA
 AGAAGCTGGTGCACCGGGACCTGGCTGCTCGGAACATCCTGGTCTCTGAGGACTTGGTGGCAAGGTCAG
 TGACTTTGGCTTAGCCAAGGCAGAGCGCAAGGGCTGGACTCAAGCCGGCTGCCAGTCAAGTGGACGGCA
 CCTGAGGCTCTCAAAAACGGGCGGTTCTCCAGCAAGTCCGATGTCTGGAGTTTGGGGTGTCTGTTGGG
 AAGTCTTCTCTTATGGAAGAGCCCCATACCCCAAGATGTCGCTAAAGGAGGTTTCAGAGGCTGGAGAA
 GGGTTACCGCATGGAGCCCCCGATGGCTGCCAGGCTCTGTGCACACCCCTCATGGGTAGCTGCTGGGAG
 GCAGAGCCTGCGCGCCGACCACCTTCCGCAAAATAGTGGAGAAGCTGGGCCGTGAGCTCCGCAGTGTGG
 GTGTCTCGCCCCCGCTGGGGGACAGGAGGCTGAGGGCTCAGCTCCACACGGAGCCAGGACCCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230051 representing NM_001285855
 Red=Cloning site Green=Tags(s)

MPTRWAPGTQCMTKCENSRPKPGELAFRKGDMVTILEACEDKSWYRAKHHGSGQEGLLAAAAALRQREALS
 TDPKLSLMPWFHGKISGQEIQQLPPEDEGLFLVRESARHPGDYVLCVSFGRDVIHYRVLHRDGHLLTIDE
 AVCFCNLMDMVEHYTKDKGAICTKLVKPRRKQGAKEEELAKAGWLLDLQHLTLGAQIGEGEFQAVLQ
 EYLGQKQVAVKNIKCDVTAQAFLETAVMTKLQHRNLVRLGVLHHGLYIVMEHVSNGNLVNFLRTRGRA
 LVSTSQLLQFALHVAEGMEYLESKLVHRDLAARNILVSEDLVAKVSDFGLAKAERKGLDSSRLPVKQTA
 PEALKNRFSKSDVWSFGVLLWEVFSYGRAPYPMKSLKEVSEAVEKGYRMEPPDGCPSVHTLMGSCWE
 AEPARRPPFRKIVEKLGRELRSVGVSAAGGQEAEGSAPTRSQDP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

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_001285855.1](#), [NP_001272784.1](#)

RefSeq Size: 1912 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]