

Product datasheet for **MR230054**

Matk (NM_001285853) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Matk (NM_001285853) 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



[View online »](#)

ORF Nucleotide Sequence:

>MR230054 representing NM_001285853
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCAACGCAGCGCTGGCCCCCTGGGACTCAATGCATGACCAAGTGTGAGAACTCTGCCCAAGCCCC
 GTGAGCTAGCCTTTCGAAAGGGTGACATGGTGACCATCTTGGAGGCCGTGTGAGGACAAGAGCTGGTACCG
 AGCCAAGCACCATGGCAGTGGGCAGGAAGGGCTGCTGGCGGCCGCTGCTCTGCGACAGCGGGAGGCCCTC
 TCCACAGACCCCAAGCTCAGCCTCATGCCATGGTTTCATGGCAAGATCTCCGCCAGGAAGCCATACAGC
 AGCTGCAGCCACCCGAGGACGGGCTGTTCTTGTGAGGGAATCAGCTCGTCACCCCTGGAGACTATGTCTT
 GTGTGTCAAGTTCGGCCGTGACGTCACTCACTACCGTGTTCATCGAGATGGGCACCTCACCATCGAT
 GAGGCCGTGTGTTCTGTAACTGATGGACATGGTGGAGCACTACACCAAGGACAAGGGGGCCATCTGCA
 CCAAGCTGGTGAAGCCAAGGAGGAAACAGGGCGCAAAGTCTGCAGAGGAGGAGCTCGCAAGGCTGGCTG
 GCTACTCGACCTGCAGCATCTGACTCTGGGAGCACAGATTGGAGAGGGGGAGTTTGGAGCCGTCCTACAG
 GGTGAGTACCTGGGACAGAAGGTGGCTGTGAAGAATATCAAGTGTGATGTGACAGCCAGGCCTTCTCGG
 ATGAGACGGCTGTGATGACGAAGCTGCAGCACAGGAACCTAGTGCGACTCCTGGGTGTGATCCTGCACCA
 CGGCTTGTACATTGTCATGGAGCACGTGAGCAAGGGCAACCTGGTGAACCTCCTGCGCACGCGGGGCCGT
 GCTCTTGTGAGCACCTCTCAGCTTCTGCAGTTTGTCTTTCATGTTGCTGAAGGCATGGAATACCTGGAGA
 GCAAGAAGCTGGTGCACCGGGACCTGGCTGCTCGGAACATCCTGGTCTCTGAGGACTTGGTGGCCAAAGT
 CAGTGACTTTGGCTTAGCCAAGGCAGAGCGCAAGGGGCTGGACTCAAGCCGGCTGCCAGTCAAGTGGACG
 GCACCTGAGGCTCTCAAAAACGGGCGGTTCTCCAGCAAGTGGATGTCTGGAGTTTGGGGTGTGTTGT
 GGAAGTCTTCTTATGGAAGAGCCCCATACCCCAAGATGTCGTAAGGAGGTTTTCAGAGGCTGTGGA
 GAAGGGTTACCGCATGGAGCCCCCGATGGCTGCCAGGCTCTGTGCACACCCTCATGGGTAGCTGCTGG
 GAGGCAGAGCCTGCGCGCCGACCACCTTCCGCAAAATAGTGGAGAAGCTGGGCCGTGAGCTCCGCAAGT
 TGGGTGTCTCGCCCCGCTGGGGGACAGGAGGCTGAGGGCTCAGCTCCACACGGAGCCAGGACCCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230054 representing NM_001285853
 Red=Cloning site Green=Tags(s)

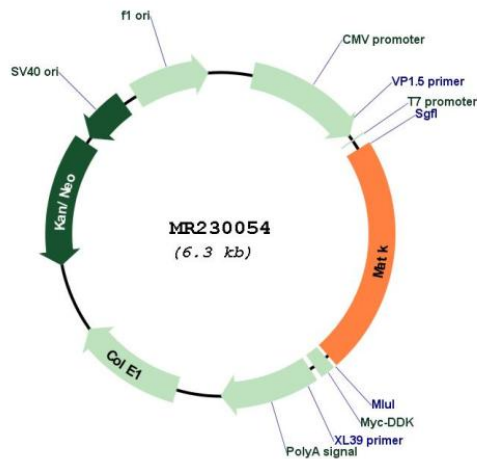
MPTQRWAPGTQCMTKCENSRRPKGELAFRKGDMVTILEACEDKSWYRAKHHGSGQEGLLAAAALRQREAL
 STDPKLSLMPWFHGKISGQEIQQLPEDGLFLVRESARHPGDYVLCVSFGRDVIHYRVLHRDGHLLTID
 EAVCFCNLMDMVEHYTKDKGAICTKLVKPRRKQGAKSAAEELAKAGWLLDLQHLTLGAQIGEGEFGAVLQ
 GEYLGQKVAVKNIKCDVTAQAFLETAVMTKLQHRNLVRLGVLHHLGLYIVMEHVSNGNLVNFRLRTRGR
 ALVSTSQLLQFALHVAEGMEYLESKLVHRDLAARNILVSEDLVAKVSDFLAKAERKGLDSSRLPVKWT
 APEALKNGRFSSKSDVWSFGVLLWEVFSYGRAPYPKMSLKEVSEAVEKGYRMEPPDGCPCGSVHTLMGSCW
 EAEPARRPPFRKIVEKLGRELRSVGSAPAGGQEAEGSAPTRSQDP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_001285853

ORF Size: 1398 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_001285853.1](#), [NP_001272782.1](#)

RefSeq Size: 1847 bp

RefSeq ORF: 1401 bp

Locus ID: 17179

Cytogenetics: 10 C1

MW: 52.2 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]