

## Product datasheet for **MC217140**

### Matk (NM\_010768) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Matk (NM_010768) Mouse Untagged Clone
Tag:	Tag Free
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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**Fully Sequenced ORF:** >MC217140 representing NM\_010768  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGGCAAGGCCAAGCTCCCGGCTCCTGGCTGGCCTTTGAAGGCTGGGAATCTAGGGACCTGCCTCGGG  
TGAGCCCTAGATTGTTCCGAGCTTGGCACCCCGCCTGCTGCAGCTAGGATGCCAACGCGCTGGGCCCC  
TGGGACTCAATGCATGACCAAGTGTGAGAACTCTCGCCCCAAGCCCGGTGAGCTAGCCTTTCGAAAGGGT  
GACATGGTGACCATCTTGGAGGCCTGTGAGGACAAGAGCTGGTACCGAGCCAAGCACCATGGCAGTGGGC  
AGGAAGGGCTGCTGGCGGCCGCTGCTCTGCGACAGCGGGAGGCCCTCTCCACAGACCCCAAGCTCAGCCT  
CATGCCATGGTTTCATGGCAAGATCTCCGGCCAGGAAGCCATACAGCAGCTGCAGCCACCCGAGGACGGG  
CTGTTCCCTGTGAGGGAATCAGCTCGTACCCTGGAGACTATGTCTTGTGTGTGAGTTTCGGCCGTGACG  
TCATCCACTACCGTGTTCATCGAGATGGGCACCTCACCATCGATGAGGCCGTGTGTTCTGTAACTT  
GATGGACATGGTGGAGCACTACACCAAGGACAAGGGGGCCATCTGCACCAAGCTGGTGAAGCCAAGGAGG  
AAACAGGGCGCAAAGTCTGCAGAGGAGGAGCTCGCCAAGGCTGGCTGGCTACTCGACCTGCAGCATCTGA  
CTCTGGGAGCACAGATTGGAGAGGGGAGTTTGGAGCCGCTCTACAGGGTGAAGTCTGGGACAGAAAGGT  
GGCTGTGAAGAATATCAAGTGTGATGTGACAGCCAGGCCTTCTGGATGAGACGGCTGTGATGACGAAG  
CTGCAGCACAGGAACCTAGTGGACTCCTGGGTGTGATCCTGCACCACGGCTTGTACATTGTGATGGAGC  
ACGTGAGCAAGGGCAACCTGGTGAACCTCCTGCGCACGGGGCCGCTGCTTGTGAGCACCTCTCAGCT  
TCTGCAGTTTGTCTTTCATGTTGCTGAAGGCATGGAATACCTGGAGAGCAAGAAGCTGGTGCACCCGGAC  
CAGAGCGCAAGGGGCTGGACTCAAGCCGGCTGCCAGTCAAGTGGACGGCACCTGAGGCTCTCAAAAACGG  
GCGGTTCTCCAGCAAGTGGATGTCTGGAGTTTTGGGGTGTGTTGTGGGAAGTCTTCTTATGGAAGA  
GCCCCATACCCCAAGATGTGCTAAAGGAGTTTCAAGAGCTGTGGAGAAGGGTTACCGCATGGAGCCCC  
CCGATGGCTGCCAGGCTCTGTGACACCCCTCATGGGTAGCTGCTGGGAGGCAGAGCCTGCGCGCCGACC  
ACCCTTCCGAAAATAGTGGAGAAGCTGGGCCGTGAGCTCCGCAGTGTGGGTGTCTCGGCCCCCGCTGGG  
GGACAGGAGGCTGAGGGCTCAGCTCCACACGGAGCCAGGACCC**TGA**

**ACGGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_010768

**Insert Size:** 1518 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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:** 1980 bp

**RefSeq ORF:** 1518 bp

**Locus ID:** 17179

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

**Cytogenetics:** 10 C1

**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]  
Transcript Variant: This variant (1) encodes the longest isoform (1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.