

Product datasheet for **MC227839**

Matk (NM_001285854) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Matk (NM_001285854) 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: >MC227839 representing NM_001285854
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCAACGCGCTGGGCCCTGGGACTCAATGCATGACCAAGTGTGAGAACTCTCGCCCCAAGCCCGGTG
 AGCTAGCCTTTTCGAAAGGGTGACATGGTGACCATCTTGGAGGCCTGTGAGGACAAGAGCTGGTACCGAGC
 CAAGCACCATGGCAGTGGGCAGGAAGGGCTGTGGCGGCCGCTGTCTGCGACAGCGGGAGGCCCTCTCC
 ACAGACCCCAAGCTCAGCCTCATGCCATGGTTTCATGGCAAGATCTCCGCCAGGAAGCCATACAGCAGC
 TGCAGCCACCCGAGGACGGGCTGTTCTTGTGAGGGAATCAGCTCGTCACCCTGGAGACTATGTCTTGTG
 TGTCAAGTTTCGGCCGTGACGTATCCACTACCGTGTGTTTGCATCGAGATGGGCACCTCACCATCGATGAG
 GCCGTGTGTTTCTGTAACTGATGGACATGGTGGAGCACTACACCAAGGACAAGGGGGCCATCTGCACCA
 AGCTGGTGAAGCCAAGGAGGAAACAGGGCGCAAAGTCTGCAGAGGAGGAGCTCGCCAAGGCTGGCTGGCT
 ACTCGACCTGCAGCATCTGACTCTGGGAGCACAGATTGGAGAGGGGGAGTTTGGAGCCGCTCTACAGGGT
 GAGTACCTGGGACAGAAGGTGGCTGTGAAGAATATCAAGTGTGATGTGACAGCCAGGCCTCTCTGGATG
 AGACGGCTGTGATGACGAAGCTGACGACACAGGAACCTAGTGCAGCTCCTGGGTGTGATCCTGCACCACGG
 CTTGTACATTGTGATGGAGCACGTGAGCAAGGGCAACCTGGTGAACCTCTGCGCACGGGGGCCGTGCT
 CTTGTGAGCACCTCTCAGCTTCTGCAGTTTGTCTTTCATGTTGCTGAAGGCATGGAATACCTGGAGAGCA
 AGAAGCTGGTGCACCGGGACCTGGCTGCTCGGAACATCCTGGTCTCTGAGGACTTGGTGGCCAAGGTCAG
 TGACTTTGGCTTAGCCAAGGCAGAGCGCAAGGGGCTGGACTCAAGCCGGCTGCCAGTCAAGTGGACGGCA
 CCTGAGGCTCTCAAAAACGGGCGGTTCTCCAGCAAGTCGGATGTCTGGAGTTTGGGGTGTGTTGTGGG
 AAGTCTTCTCTTATGGAAGAGCCCCATACCCCAAGATGTCGCTAAAGGAGGTTTTCAGAGGCTGTGGAGAA
 GGGTTACCGCATGGAGCCCCCGATGGCTGCCCCAGGCTCTGTGCACACCCTCATGGGTAGCTGTGGGAG
 GCAGAGCCTGCGCGCCGACCCCTTCCGCAAAATAGTGGAGAAGCTGGGCCGTGAGCTCCGCAAGTGTGG
 GTGTCTCGGCCCCGCTGGGGGACAGGAGGCTGAGGGCTCAGCTCCACACGGAGCCAGGACCC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_001285854
- Insert Size:** 1398 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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

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 (3) contains a distinct 5' UTR and lacks an in-frame portion of the 5' coding region, compared to variant 1. The resulting isoform (3) has a shorter N-terminus, compared to isoform 1. Both variants 3 and 4 encode the same isoform (3).
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.