

Product datasheet for **MC227843**

Matk (NM_001285853) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Matk (NM_001285853) 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: >MC227843 representing NM_001285853
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCAACGCAGCGCTGGCCCCCTGGGACTCAATGCATGACCAAGTGTGAGAAGTCTCGCCCAAGCCCG
 GTGAGCTAGCCTTTCGAAAGGGTGACATGGTGACCATCTTGAGGCCCTGTGAGGACAAGAGCTGGTACCG
 AGCCAAGCACCATGGCAGTGGGAGGAAGGGCTGCTGGCGGCCGCTGCTCTGCGACAGCGGGAGGCCCTC
 TCCACAGACCCCAAGCTCAGCCTCATGCCATGGTTTCATGGCAAGATCTCCGCCAGGAAGCCATACAGC
 AGCTGCAGCCACCCGAGGACGGGCTGTTCTTGTGAGGGAATCAGCTCGTCACCCCTGGAGACTATGTCTT
 GTGTGTCAGTTTCGGCCGTGACGTCATCCACTACCGTGTTCATCGAGATGGGCACCTCACCATCGAT
 GAGGCCGTGTGTTCTGTAACCTGATGGACATGGTGGAGCACTACACCAAGGACAAGGGGGCCATCTGCA
 CCAAGCTGGTGAAGCCAAGGAGGAAACAGGGCGCAAAGTCTGCAGAGGAGGAGCTCGCCAAGGCTGGCTG
 GCTACTCGACCTGCAGCATCTGACTCTGGGAGCACAGATTGGAGAGGGGGAGTTTGGAGCCGTCTACAG
 GGTGAGTACCTGGGACAGAAGGTGGCTGTGAAGAATATCAAGTGTGATGTGACAGCCAGGCCTTCTGG
 ATGAGACGGCTGTGATGACGAAGCTGCAGCACAGGAACCTAGTGCGACTCCTGGGTGTGATCCTGCACCA
 CGGCTTGTACATTGTCATGGAGCACGTGAGCAAGGGCAACCTGGTGAACCTCCTGCGCACGCGGGCCGT
 GCTCTTGTGAGCACCTCTCAGCTTCTGCAGTTTGTCTTTCATGTTGCTGAAGGCATGGAATACCTGGAGA
 GCAAGAAGCTGGTGCACCGGGACCTGGCTGCTCGGAACATCCTGGTCTCTGAGGACTTGGTGGCCAAAGT
 CAGTGACTTTGGCTTAGCCAAGGCAGAGCGCAAGGGGCTGGACTCAAGCCGGCTGCCAGTCAAGTGGACG
 GCACCTGAGGCTCTCAAAAACGGGCGGTTCTCCAGCAAGTGGATGTCTGGAGTTTGGGGTGTGTTGT
 GGAAGTCTTCTTATGGAAGAGCCCATACCCCAAGATGTCGCTAAAGGAGTTTTCAGAGGCTGTGGA
 GAAGGGTTACCGCATGGAGCCCCCGATGGCTGCCAGGCTCTGTGCACACCCTCATGGGTAGCTGCTGG
 GAGGCAGAGCCTGCGCGCCGACCACCTTCCGCAAAATAGTGGAGAAGCTGGGCCGTGAGCTCCGCAAGT
 TGGGTGTCTCGGCCCCGCTGGGGGACAGGAGGCTGAGGGCTCAGCTCCACACGGAGCCAGGACCCCTG
 A

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_001285853
- Insert Size:** 1401 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_001285853.1](#), [NP_001272782.1](#)

RefSeq Size: 1847 bp

RefSeq ORF: 1401 bp

Locus ID: 17179

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 (2) contains a distinct 5' UTR, lacks an in-frame portion of the 5' coding region and uses an alternate in-frame splice site in the 5' coding region, compared to variant 1. The resulting isoform (2) has a shorter N-terminus, compared to 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.