

Product datasheet for **RR205739**

Matk (NM_021859) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Matk (NM_021859) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Matk
Synonyms:	Batk
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RR205739 representing NM_021859
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCCAACGCAACGCTGGGCCCTGGGACTCAATGTATGACCAAGTGCAGAACTCACGCCCAAGCCCG
 GTGAGCTAGCCTTTCGAAAGGGTGACATGGTGACCATCTTGAGGCCCTGTGAGGACAAGAGCTGGTACCG
 AGCCAAGCACCACAGCAGTGGGCAGGAAGGGCTGCTGGCGGCTGCTGCTCTGCGACAGAGGGAGGCCCTT
 TCCACAGACCCCAAGCTCAGCCTCATGCCATGGTTCCATGGCAAGATTTCCGGTCAGGAAGCCATACAGC
 AGCTGCAGCCACCCGAGGATGGGCTGTTCTCGTGAGGGAATCGGCCGTCACCCGTTGACTATGTCTT
 GTGTGTCAGTTTCGGCCGTGATGTCATCCACTACCGTGTCTTGCATCGAGATGGGCACCTCACCATTGAT
 GAGGCCGTGTGTTCTGTAATCTGATGGACATGGTAGAGCACTACACCAGGGACAAGGGCGCCATCTGCA
 CCAAGCTGGTGAAGCCCAAGAGGAAACAGGGCGCAAAGTCCGCAGAGGAAGAGCTCGCCAAGGCTGGCTG
 GCTGCTAGACCTGCAGCATCTGACTCTGGGAGCACAGATTGGAGAGGGAGAGTTTGGAGCCGTCCTGCAG
 GCGGAGTACTTGGGACAGAAGGTGGCCGTGAAGAATATAAAGTGTGATGTGACAGCCAGGCCCTTCTGG
 ATGAGACGGCTGTGATGACAAAGCTGCAGCACAGGAACCTAGTGCGACTCCTGGGTGTGATCCTGCACCA
 CGGCCTGTACATTGTCATGGAACACGTGAGCAAGGGCAACCTGGTGAACCTTCTGCGCACGCGGGGCCGT
 GCGCTTGTGAGCACCTCTCAGCTCCTGCAGTTTGTCTTTCACGTTGCTGAAGGCATGGAGTACCTGGAGA
 GCAAGAAGCTGGTACACAGGGACCTGGCTGCTCGAAACATCCTGGTCTCTGAGGACTTAGTGGCCAAGGT
 CAGTGACTTTGGCCTAGCAAAGGCAGAGCTTAGGAAGGGGCTGGACTCAAGTCGGCTGCCAGTCAAGTGG
 ACAGACCCGAGGCTCTCAAAAATGGGAGTTCTCCAGCAAGTCGGATGTCTGGAGTTTGGGGTGTCTAC
 TGTGGGAAGTCTTCTCATATGGAAGAGCCCCATACCCCAAGATGTGCTAAAGGAGGTTTTCAGAGGCTGT
 GGAGAAGGGTTACCGCATGGAGCCCCCGACAGCTGCCAGGCCCTGTGCATACCCCTCATGGGCAGCTGC
 TGGGAGGCTGAGCCCTCGCGCAGACCACGTTCCGCAAAAATAGTGGAGAAGCTGGGTGCTGAGCTCCGCA
 GTGTGGGCGTCGACGCCCGCCGGGGACAGGAGGCTGAGGGCTCAGCTCCACACGGAGCCAGGACCC
 C

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR205739 representing NM_021859
 Red=Cloning site Green=Tags(s)

MPTQRWAPGTQCMTKCENSRRPKGELAFRKGDMVTILEACEDKSWYRAKHHSSGQEGLLAAAALRQREAL
 STDPKLSLMPWFHKGISGQEIQLQPPEDGLFLVRESARHPGDYVLCVSFGRDVIHYRVLHRDGHLLTID
 EAVCFCNLMDMVEHYTRDKGAICTKLVKPKRKQAKSAEEELAKAGWLLDLQHLTLGAQIGEGEFGAVLQ
 GEYLGQKVAVKNIKCDVTAQAFLETAVMTKLQHRNLVRLGVILHHGLYIVMEHVSNGNLVNFRLRTRGR
 ALVSTSQLLQFALHVAEGMEYLESKLVHRDLAARNILVSEDLVAKVSDFLAKAELRKGLDSSRLPVKW
 TAPEALKNGRFSSKSDVVSFGVLLWEVFSYGRAPYPKMSLKEVSEAVEKGYRMEPPDSCPGPVHTLMGSC
 WEAEPSRRPPFRKIVEKLGRELRSVGVAAAPAGGQEAEGSAPTRSQDP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

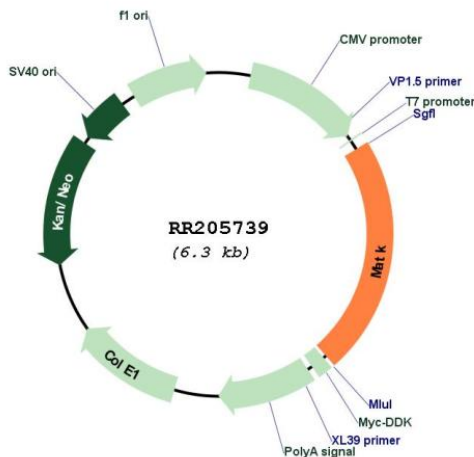
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_021859

ORF Size:

1401 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_021859.2](#), [NP_068631.1](#)

RefSeq Size: 1670 bp

RefSeq ORF: 1404 bp

Locus ID: 60450

UniProt ID: [P41243](#)

Cytogenetics: 7q11

MW: 51.9 kDa

Gene Summary: a non-receptor protein tyrosine kinase [RGD, Feb 2006]