

Product datasheet for **MR209619**

Jak1 (BC031297) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Jak1 (BC031297) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Jak1
Synonyms:	MGC37919, C130039L05Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR209619 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAACCACTCAAGAAGCAGATCCTGCGCACGGACAACATAAGCTTTGTGCTGAAACGATGCTGTGAGC
CTAAGCCTCGAGAAATCTCCAATCTGCTCGTAGCCACTAAGAAAGCCAGGAGTGGCAGCCTGTCTACTC
CATGAGCCAGCTGAGCTTTGATCGGATCCTTAAGAAAGATATTATACAAGGTGAGCACCTTGGCAGAGGC
ACAAGAACACATATCTATTCTGGGACCCTGCTGGACTACAAGGATGAGGAAGGAATTGCTGAAGAGAAGA
AGATAAAAGTGATCCTCAAAGTCTAGACCCAGCCACCGGGACATCTCTCTGGCCTTCTTTGAGGCTGC
TAGCATGATGAGACAGGTTTCCACAAACATATAGTGTACCTCTACGGCGTGTGTGCCGAGATGTGAA
AATATCATGGTGAAGAGTTTGTGGAGGGGGGCCGTTGGATCTTTCATGCACCGGAAAAGTGATGCGC
TACTACCCCTGGAAGTTCAAGTTGCCAAACAGCTGGCCAGTCCCTGAGTACTTGGAAAGATAAAGA
CCTGGTTCATGGAATGTGTGCACTAAAACTCCTTCTGGCCGTGAGGGCATTGACAGTGACATTGGC
CGTTCATCAAGCTTAGTGACCTGGCATCCAGTCTCTGTGCTGACCAGGCAAGAGTGATAGAGCGAA
TCCCTGGATCGCTCCTGAGTGTGTTGAAGACTCCAAGAACCTGAGTGTGGCTGTGACAAGTGGAGCTT
TGGAAACCAGCTCTGGAAATCTGCTACAACGGAGAGATTCTCTCAAAGACAAGACCCTCATTGAGAAA
GAGAGGTTTTATGAAAGCCGCTGAGGCTGTGACTCCATCTTGAAGGAGCTAGCTGACCTCATGACTC
GCTGCATGAACTATGACCCCAACCAGAGACCCTTCTTCCGAGCCATCATGAGGGACATTAACAAGCTGGA
GGAGCAGAATCCAGACATTGTTTCAGAAAAGCAGCCAACAACAGAGGTGGACCCCACTACTTTGAAAAG
CGGTTCTGAAGAGGATTCGTGACTTGGGAGAGGGTCACTTTGGGAAGGTTGAGCTCTGCAGATATGATC
CTGAGGGAGACAACAGGGGAGCAGGTAGCTGTCAAGTCCCTGAAGCCTGAGAGTGGAGGTAACCACAT
AGCTGATCTGAAGAAGGAGATAGAGATCTTACGGAACCTTACCATGAGAACATTGTGAAGTACAAAGGA
ATCTGCATGGAAGACGGAGGCAATGGTATCAAGCTCATCATGGAGTTTCTGCCTTCGGAAGCCTAAAGG
AGTATCTGCCAAAGAATAAGAACAAAATCAACCTCAAACAGCAGCTAAAAATGCCATCCAGATTTGTAA
GGGGATGGACTACTTGGGTTCTCGGCAATACGTTACCGGGACTTAGCAGCAAGAAATGCCTTGTGAG
AGTGAGCATCAAGTGAAGATCGGAGACTTTGGTTAACCAGCAATTGAAACCGATAAGGAGTACTACA
CAGTCAAGGACGACCGGGACAGCCAGTGTCTGGTACGCTCCGGAATGTTAATCCAGTGTAAATTTTA
TATCGCCTCTGATGTCTGGTCTTTGGAGTGACACTGCACGAGCTGCTCACTTACTGTGACTCAGATTTT
AGTCCCATGGCCTTGTCTGAAAATGATAGGCCCAACTCATGGCCAGATGACAGTGACACGGCTTGTGA
ATACTCTGAAAGAAGGAAAGCGTCTGCCATGTCCACCAACTGTCTGATGAGGTTTATCAGCTTATGAG
AAAATGCTGGGAATTCACCATCTAACCGGACAACCTTTTCAGAACCTTATTGAAGGATTTGAAGCACTT
TTAAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR209619 protein sequence
Red=Cloning site Green=Tags(s)

MNHLKKQILRTDNISFVLKRCQPKPREISNLLVATKKAQEQPVVYSMSQLSFDRLKKDIIQGEHLGRG
 TRTHIYSGTLLDYKDEEGIAEEKKIKVILKVLDPShrdISLAFEAASMMRQVSHKHIVLYGVCVRDVE
 NIMVEEFVEGGPLDLFMHRKSDALTPWKFVKVAKQLASALSYLEDKDLVHGNVCTKNLLAREGIDSDIG
 PFIKLSDPGIPVSVLTRQECIERIPWIAPECVEDSKNLSVAADKWSFGTTLWEICYNGEIPLKDKTLIEK
 ERFYESRCRPVTPSCKELADLMTRCMNYDPNQRPFRAIMRDINKLEEQNPDIVSEKQPTTEVDPTHFEK
 RFLKRIRDLGEGHFGKVELCRYDPEGDNTGEQVAVKSLKPESGGNHIADLKEIEILRNLYHENIVKYKG
 ICMEDGGNGIKLIMEFLPSGSLKEYLPKNKNINLKQQLKYAIQICKGMDYLGSRYVHRDLAARNVLVE
 SEHQVKIGDFGLTKAIETDKEYYTKDDRSPVFWYAPECLIQCKFYIASDVWSFGVTLHELLTYCDSDF
 SPMALFLKMIGPTHGQMTVTRLVNTLKEGKRLPCPPNCPDEVYQLMRKCWEFQPSNRTTFQNLIEGFEAL
 LK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: BC031297

ORF Size: 1896 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [BC031297](#), [AAH31297](#)

RefSeq Size: 2365 bp

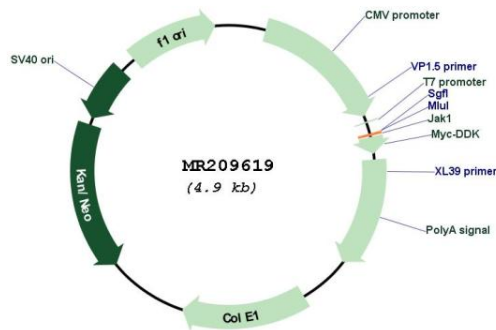
RefSeq ORF: 1898 bp

Locus ID: 16451

Cytogenetics: 4 46.19 cM

MW: 72.7 kDa

Product images:



Circular map for MR209619