

Product datasheet for **MG209619**

Jak1 (BC031297) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Jak1 (BC031297) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Jak1
Synonyms:	MGC37919, C130039L05Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209619 representing BC031297
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAACCACCTCAAGAAGCAGATCCTGCGCACGGACAACATAAGCTTTGTGCTGAAACGATGCTGTCAGC
 CTAAAGCCTCGAGAAATCTCCAATCTGCTCGTAGCCACTAAGAAAGCCAGGAGTGGCAGCCTGTCTACTC
 CATGAGCCAGCTGAGCTTTGATCGGATCCTTAAGAAAGATATTATACAAGGTGAGCACCTTGGCAGAGGC
 ACAAGAACACATATCTATTCTGGGACCCTGCTGGACTACAAGGATGAGGAAGGAATTGCTGAAGAGAAGA
 AGATAAAAGTGATCCTCAAAGTCTAGACCCAGCCACCGGGACATCTCTCTGGCCTTCTTTGAGGCTGC
 TAGCATGATGAGACAGGTTTCCACAAACATATAGTGTACCTCTACGGCGTGTGTGTCGAGATGTGAA
 AATATCATGGTGAAGAGTTTGTGGAGGGGGCCGTTGGATCTTTCATGCACCGGAAAAGTGATGCGC
 TTAACACCCCTGGAAGTTCAAGGTTGCCAAACAGCTGGCCAGTGCCTGAGTACTTGGAAAGATAAAGA
 CCTGGTTCATGGAATGTGTGCACTAAAACTCCTTCTGGCCCGTGAGGGCATTGACAGTGACATTGGC
 CCGTTCATCAAGCTTAGTGACCTGGCATCCAGTCTCTGTGCTGACCAGGCAAGAGTGATAGAGCGAA
 TCCCTGGATCGCTCCTGAGTGTGTTGAAGACTCCAAGAACCTGAGTGTGGCTGTGACAAGTGGAGCTT
 TGGAAACCAGCTCTGGAAATCTGCTACAACGGAGAGATTCTCTCAAAGACAAGACCCTCATTGAGAAA
 GAGAGGTTTTATGAAAGCCGCTGCAGGCCTGTGACTCCATCTTGAAGGAGCTAGCTGACCTCATGACTC
 GCTGCATGAACATGACCCCAACCAGAGACCCTTCTTCCGAGCCATCATGAGGGACATTAACAAGCTGGA
 GGAGCAGAATCCAGACATTTGTTTCAGAAAAGCAGCCAACAACAGAGGTGGACCCCACTACTTTGAAAAG
 CGGTTCTGAAGAGGATTCGTGACTTGGGAGAGGGTCACTTTGGGAAGGTTGAGCTCTGCAGATATGATC
 CTGAGGGAGACAACACAGGGGAGCAGGTAGCTGTCAAGTCCCTGAAGCCTGAGAGTGGAGTAACACAT
 AGCTGATCTGAAGAAGGAGATAGAGATCTTACGGAACCTTACCATGAGAACATTGTGAAGTACAAGGA
 ATCTGCATGGAAGACGGAGGCAATGGTATCAAGCTCATCATGGAGTTTCTGCCTTCGGAAGCCTAAAGG
 AGTATCTGCCAAAGAATAAGAACAAAATCAACCTCAAACAGCAGCTAAAAATGCCATCCAGATTTGTAA
 GGGGATGGACTACTTGGGTTCTCGGCAATACGTTACCGGGACTTAGCAGCAAGAATGCCTTGTGAG
 AGTGAGCATCAAGTGAAGATCGGAGACTTTGGTTAAACCAAGCAATTGAAACCGATAAGGAGTACTACA
 CAGTCAAGGACGACCGGGACAGCCAGTGTCTGGTACGCTCCGGAATGTTAATCCAGTGTAAATTTTA
 TATCGCCTCTGATGTCTGGTCTTTGGAGTGACACTGCACGAGCTGCTCACTTACTGTGACTCAGATTTT
 AGTCCCATGGCCTTGTCTGAAAATGATAGGCCAACTCATGGCCAGATGACAGTGACACGGCTTGTGA
 ATACTCTGAAAGAAGAAAGCGTCTGCCATGTCCACCAACTGTCTGATGAGGTTTATCAGCTTATGAG
 AAAATGCTGGGAATTCACCATCTAACCGGACAACCTTTTCAGAACCTTATTGAAGGATTTGAAGCACTT
 TAAAA

ACGCGTACGCGGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG209619 representing BC031297
 Red=Cloning site Green=Tags(s)

MNHLKKQILRTDNISFVLKRCQPKPREISNLLVATKKAQEWQPVYSMSQLSFDRILKKDIIQGEHLGRG
 TRTHIYSGTLLDYKDEEGIAEKKIKVILKVLDPShrdISLAFEAASMMRQVSHKHIVLYGVCVRDVE
 NIMVEEFVEGGPLDLFMRKSDALTPWKFVAKQLASALSYLEDKDLVHGNCVTKNLLAREGIDSDIG
 PFIKLSDPGIPVSVLTRQECIERIPWIAPECVEDSKNLSVAADKWSFGTTLWEICYNGEIPDKDKLIEK
 ERFYESRCRPVTPSCKELADLMTRCMNYDPNQRPFRAIMRDINKLEEQNPDI VSEKQPTTEVDPTHFEK
 RFLKRIKIRDLGEGHFGKVELCRYDPEGDNTGEQVAVKSLKPESSGNHIADLKKEIEILRNLYHENIVKYKG
 ICMEDGGNGIKLIMEFLPSGSLKEYLPKKNKINLKQQLKYAIQICKGMDYLGSRQYVHRDLAARNVLE
 SEHQVKIGDFGLTKAIETDKEYYTKDDRSPVFWYAPECLIQCKFYIASDVWSFGVTLHELLTYCDSDF
 SPMALFLKMI GPTHGQMTVTRLVNTLKEGKRLPCPNCPDEVYQLMRKCWEFQPSNRTTFQNLIEGFEAL
 LK

TRTRPLE – GFP Tag – V

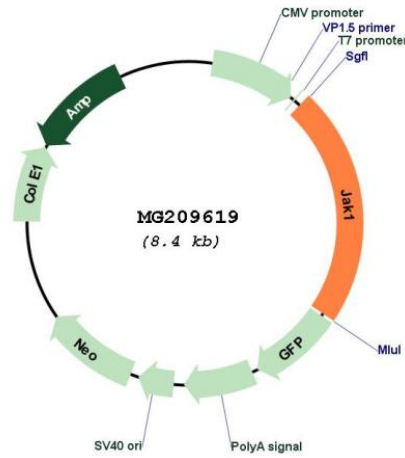
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: BC031297

ORF Size: 1898 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:	<ol style="list-style-type: none">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:	BC031297 , AAH31297
RefSeq Size:	2365 bp
RefSeq ORF:	1898 bp
Locus ID:	16451
Cytogenetics:	4 46.19 cM