

## Product datasheet for MR226924

### Jak1 (NM\_146145) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Jak1 (NM\_146145) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Jak1  
**Synonyms:** AA960307; BAP004; C130039L05Rik  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR226924 representing NM\_146145  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGGATCGCC

ATGCACTATCTAAATATAAAAGAGGACTGCAATGCCATGGCGTTCTGTGCTAAAAATGAGGAGCTTCAAGA  
 AGACTGAGGTGAAGCAGGTGGTCCCTGAGCCTGGAGTGGAGGTGACTTTCTATCTGTTGGACAGGGAGCC  
 CCTCCGCTGGGCAGCGGAGAGTATACAGCCGAGGAGCTGTGCATCAGGGCCGCCAGGAGTGCAGTATC  
 TCTCCTCTGTGCACAACCTCTTCGCCCTGTACGATGAGAGCACCAAGCTCTGGTACGCTCCGAACCGAA  
 TCATCACTGTGGATGACAAAACGTCTCTCCGGCTCCACTACCGCATGAGGTTCTACTTTACCAACTGGCA  
 CGGAACCAATGACAACGAACAGTCTGTATGGCGCATTCTCCAAAGAAGCAGAAAAACGGCTATGAGAAG  
 AAAAGGGTTCCAGAAGCAACCCCACTCCTTGATGCCAGTTCAGTGGAGTATCTGTTTGCACAGGGACAGT  
 ATGATTTGATCAAATGCCTGGCTCCCATTCGGGACCCCAAGACGGAGCAAGACGGACATGATATTGAAAA  
 TGAGTGCTGGGCATGGCGGTCTGGCCATCTCCCACTATGCCATGATGAAGAAGATGCAGTTGCCGGAA  
 CTTCCAAAGACATCAGCTACAAGCGATATATTCCAGAAACATTGAATAAATCCATCAGACAGAGGAACC  
 TTCTTACCAGGATGCGAATAAATAATGTTTTCAAGGATTTCTGAAGGAATTTAACAACAAGACCATCTG  
 TGACAGCAGTGTGTCTACACATGACCTGAAGGTGAAATACCTGGTACCTTGAAACTTTGACAAAAACAT  
 TATGGAGCTGAAATATTTGAGACTTCTATGCTACTGATTTTCATCAGAAAATGAATTGAGTCGATGCCATT  
 CGAATGACAGTGCAATGTTCTCTATGAGGTGATGGTACTGAAATCTCGGGATCCAGTGGCGGCAGAA  
 ACCAAATGTTGTTCTGTTGAAAAGGAAAAAATAAACTGAAGCGGAAAAAACTGGAATATAATAAACAC  
 AAGAAGGATGATGAGAGAAAACAACTCCGGGAAGAGTGAACAATTTTTCTATTTCCCTGAAATCACCC  
 ACATTGTAATAAAGGAGTCTGTGGTCAGCATTAAACAAACAGGACAACAAAAACATGGAATCAAGCTCTC  
 TTCTCGAGAGGAAGCCTTGCTCTTTGTGTCCTGGTGGATGGCTACTTCCGGCTCACTGCAGATGCCAC  
 CATTACCTCTGTACTGATGTGGCTCCCCACTGATTGTCCACAATATACAGAACGGCTGCCACGGTCCAA  
 TCTGCACAGAATATGCCATCAATAAGCTGCGGCAGGAAGGGAGTGAAGAGGGGATGTACGTGCTGAGGTG  
 GAGCTGCACCGACTTTGACAACATCTTATGACTGTCACCTGCTTTGAAAAGTCTGAGGTATTGGGTGGC



[View online »](#)

CAGAAGCAGTTCAAGAACTTTCAGATTGAGGTACAGAAGGGCCGCTACAGCCTGCATGGCTCTATGGACC  
ACTTTCCAGCCTGCGAGACCTCATGAACCACCTCAAGAAGCAGATCCTGCGCACGGACAACATAAGCTT  
TGTGCTGAAACGATGCTGTCAGCCTAAGCCTCGAGAAATCTCCAATCTGCTCGTAGCCACTAAGAAAGCC  
CAGGAGTGGCAGCCTGTCTACTCCATGAGCCAGCTGAGCTTTGATCGGATCCTTAAGAAAGATATTATAC  
AAGGTGAGCACCTTGGCAGAGGCCAAGAACACATATCTATTCTGGGACCCTGCTGGACTACAAGGATGA  
GGAAGGAATTGCTGAAGAGAAGAAGATAAAAGTGATCCTCAAAGTCTAGACCCAGCCACCGGGACATC  
TCTCTGGCCTTCTTTGAGGCTGCTAGCATGATGAGACAGGTTTCCACAAACATATAGTGTACCTCTACG  
GGTGTGTGTCGAGATGTGAAAAATATCATGGTGAAGAGTTTGTGGAGGGGGCCGTTGGATCTCTT  
CATGCACCGAAAAAGTGATGCGCTTACTACCCCTGGAAGTTCAAGGTTGCCAAACAGCTGGCCAGTGCC  
CTGAGTACTTGAAGATAAAGACCTGGTTCATGGAAATGTGTGCACTAAAAACCTCTTCTGGCCCGTG  
AGGGCATTGACAGTGACATTGGCCCGTTCATCAAGCTTAGTGACCCTGGCATCCCAGTCTCTGTGCTGAC  
CAGGCAAGAGTGCATAGAGCGAATCCCCTGGATCGCTCCTGAGTGTGTTGAAGACTCCAAGAACCTGAGT  
GTGGCTGCTGACAAGTGGAGCTTTGGAACCACGCTCTGGGAAATCTGCTACAACGGAGAGATTCTCTCA  
AAGACAAGACCCTCATTGAGAAAGAGAGGTTTTATGAAAGCCGCTGCAGGCCTGTGACTCCATCTTGCAA  
GGAGCTAGCTGACCTCATGACTCGCTGCATGAACTATGACCCCAACCAGAGACCCTTCTTCCGAGCCATC  
ATGAGGGACATTAACAAGCTGGAGGAGCAGAATCCAGACATTGTTTCAGAAAAGCAGCCAACAACAGAGG  
TGGACCCCACTCACTTTGAAAAGCGGTTCTGAAGAGGATTCGTGACTTGGGAGAGGGTCACTTTGGGAA  
GGTTGAGCTCTGCAGATATGATCCTGAGGGAGACAACACAGGGGAGCAGGTAGCTGTCAAGTCCCTGAAG  
CCTGAGAGTGGAGGTAACCACATAGCTGATCTGAAGAAGGAGATAGAGATCTTACGGAACCTCTACCATG  
AGAACATTGTGAAGTACAAAGGAATCTGCATGGAAGACGGAGGCAATGGTATCAAGCTCATCATGGAGTT  
TCTGCCTTCGGGAAGCCTAAAGGAGTATCTGCCAAAGAATAAGAACAAAATCAACCTCAACAGCAGCTA  
AAATATGCCATCCAGATTTGTAAGGGGATGGACTACTTGGGTTCTCGGCAATACGTTACCGGGACTTAG  
CAGCAAGAAATGTCCTTGTGAGAGTGAGCATCAAGTGAAGATCGGAGACTTTGGTTAAACCAAAGCAAT  
TGAACCGATAAAGGAGTACTACACAGTCAAGGACGACCGGGACAGCCAGTGTTCTGGTACGCTCCGGAA  
TGTTTAATCCAGTGTAATTTTATATCGCCTCTGATGTCTGGTCTTTTGGAGTGACACTGCACGAGCTGC  
TCACTTACTGTGACTCAGATTTTAGTCCCATGGCCTTGTCTCTGAAAATGATAGGCCCAACTCATGGCCA  
GATGACAGTGACACGGCTTGTGAATACTCTGAAAGAAGGAAAGCGTCTGCCATGTCCACCCAAGTCTCT  
GATGAGGTTTATCAGCTTATGAGAAAATGCTGGGAATTCCAACCATCTAACCGGACAACCTTTTCAGAACC  
TTATTGAAGGATTTGAAGCACTTTTAAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR226924 representing NM\_146145  
 Red=Cloning site Green=Tags(s)

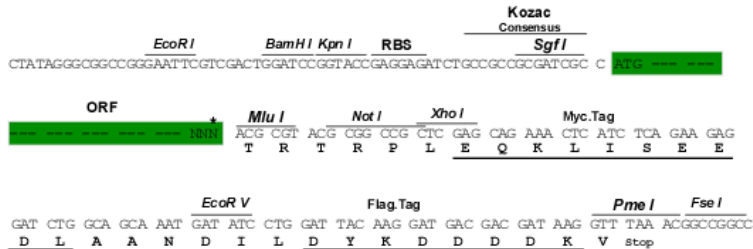
MQYLNIKEDCNAMAFCAKMRSFKKTEVKQVPEPGVEVTFYLLDREPLRLGSGEYTAELCIRAAQECISI  
 SPLCHNLFALYDESTKLYAPNRIITVDDKTSRLHYRMRFYFTNWHGTNDNEQSVWRHSPKKQKNGYEK  
 KRVPPEATPLLDASSLEYLFAQQGYDLIKCLAPIRDPKTEQDGHDIENECLGMVLAISHYAMMKMQLPE  
 LPKDISYKRYIPETLNKSIRQRNLLTRMRINNVFKDFLKEFNNTICDSSVSTHDLKVKYLATLETLTKH  
 YGAEIFETSMLLISSSENELSRCHSNDSGNVLVEVMVTGNLGIQWRQKPNVVPVEKEKNLKRKKLEYNKH  
 KKDDERNKLREEWNNFSYFPEITHIVIKESVVSINKQDNKNMELKLSREEALSFVSLVDGYFRLTADAH  
 HYLCTDVAPPLIVHNIQNGCHGPICTEYAINKLRQEGSEEGMYVLRWSCTDFDNILMTVTCTFEKSEVLGG  
 QKQFKNFQIEVQKGRYSLHGSMDFPSLRDLMNHLKKQILRTDNISFVLKRCQPKPREISNLLVATKKA  
 QEWQPVYSMSQLSFDRIKDKDIIQGEHLGRGTRTHIYSGTLDDYKDEEGIAEEKIKVILKVLDPSHRDI  
 SLAFFEAASMMRQVSHKHIVYLGVVCRDVENIMVEEFVEGGPLDLFMRKSDAL TTPWKFKVAKQLASA  
 LSYLEDKDLVHGNVCTKNLLAREGIDSDIGPFIKLSDPGIPVSVLTRQECIERIPWIAPECVEDSKNLS  
 VAADKWSFGTTLWEICYNGEIPDKDKTLIEKERFYESRCPVTPSCKELADLMTRCMNYDPNQRPFFRAI  
 MRDINKLEEQNPDI VSEKQPTTEVDPTHF EKRF LKRIRDLGEGHFGKVELCRYDPEGDNTGEQVAVKSLK  
 PESGGNHIADLKEIEILRNLYHENIVKYKGICMEDGGNGIKLIMEFLPSGSLKEYLPKNKNKINLKQQL  
 KYAIQICKGMDYLGSRQYVHRDLAARNVLVESEHQVKIGDFGLTKAIETDKEYYTKDDRDSPVFWYAPE  
 CLIQCFYIASDVWSFGVTLHELLTYCDSDFSPMALFLKMI GPTHGQMTVTRLVNTLKEGKRLPCPPNCP  
 DEYYQLMRKCWEFQPSNRRTTFQNLIEGF EALLK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**  
**Cloning Scheme:**

Sgfl-MluI

Cloning sites used for ORF Shuttling:



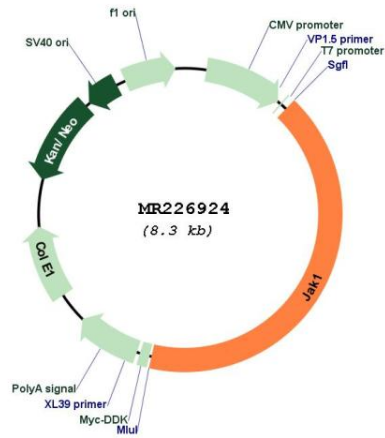
\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_146145

**ORF Size:** 3459 bp

<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<u><a href="#">NM_146145.2</a>, <a href="#">NP_666257.2</a></u>
<b>RefSeq Size:</b>	5299 bp
<b>RefSeq ORF:</b>	3462 bp
<b>Locus ID:</b>	16451
<b>Cytogenetics:</b>	4 46.19 cM
<b>MW:</b>	133.8 kDa

Product images:



Circular map for MR226924