

## Product datasheet for **MC219715**

### Zap70 (NM\_009539) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Zap70 (NM_009539) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Zap70
Synonyms:	mrtle; mur; S; Srk; ZAP-; ZAP-70
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC219715 representing NM\_009539  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCCGATCCCAGCGGCACCTGCCATTCTTCTATGGCAGCATCTCGGGGCTGAGGCCGAGGAGCACC  
 TGAAGCTGGCAGGCATGGCCGACGGGTGTTCTCCTGCCAGTGTTCGCTCCCTGGCGGCTACGT  
 GCTGTCTGGTGCACGACGTGCGCTTCCACCATTCCCATCGAGCGCAACTCAACGGCAGTACGCC  
 ATCGCGGGCGGAAGGCGCACTGCGGCCGCGGAGCTCTGCCAGTTCTACTCTCAGGACCCGACGGGC  
 TGCCCTGCAACCTGCGTAAGCCGTGAACCGCCGCCGGACTGGAGCCACAGCCGGGGTCTTCGACTG  
 CCTGCGTGATGCTATGGTGCAGACTACGTGCCAGACCTGGAAGCTGGAGGGCGATGCACTAGAGCAG  
 GCCATCATCAGCCAGGCCACAGGTGGAGAAGCTCATTGCTACCACAGCCACGAGCGAATGCCCTGGT  
 ATCACAGCAGCTGACTCGTGAGGAGGCCGAGCGCAAATCTATCCGGCCAGCAGACCGACGGCAAGTT  
 CCTGCTGAGGCCCGGAAGGAGCAGGGCACATATGCACTGTCCCTGGTCTATGGGAAAATGTATACCAC  
 TATCTCATCAGCCAGGACAAGGCTGGCAAGTACTGCATCCCCGAAGGCACCAAGTTTGACACGCTCTGGC  
 AGCTGGTGGAGTACCTGAAGCTGAAGGCGGATGGACTAATTTACCGCTTGAAGGAGGTCTGTCCCAACAG  
 CAGCGCCAGCGCGGAGTTGCTGCACCCACCCTCCAGCCACCCATCCACATCACTCAGCCTCAGAGA  
 CGAGTGGACACCTGAACTCGGACGGATACACCCTGAACCAGCAGCCTTAGCGTCATCGACAGACAAGC  
 CCCGGCGGATGCCATGGACACAAGTGTGTACGAGAGTCCCTACAGCGACCCTGAGGAACTCAAAGACAA  
 GAAGCTTCTCGAAGCGAGAGAATCTCCTCGTGGCGGACATCGAGCTTGGCTGTGGCAACTTTGGCTCC  
 GTGCGCCAGGGAGTCTATCGCATGCGCAAGAAGCAGATTGACGTGGCCATCAAGGTGCTGAAGCAGGGCA  
 CAGAGAAGGCGGACAAAGATGAGATGATGCGAGAGGCCAGATCATGCACCAGCTCGACAACCCCTACAT  
 CTGCGGCTCATCGGCGTGTGCCAGGCAAGCACTCATGCTGGTCTAGGAGATGGCGGGAGGCGGGCCC  
 CTGCACAAGTTCTGCTGGGAAAGAAGGAGGAGATCCCTGTGAGCAATGTGGCTGAACTGCTGCACCAGG  
 TGGCCATGGGCATGAAGTATTTGGAGGAGAAAACTTTGTGCACCGGACCTGGCAGCCGCAATGTTCT  
 ACTGGTCAATCGGCACTATGCCAAGATCAGCGACTTTGGCCTGTCAAAGCCCTGGGTGCTGACGACAGC  
 TATTACACAGCCCGTCTGCAGGAAAGTGGCTCTGAAGTGTACGCGCCAGAGTGCATCAACTTTCGGA  
 AGTTCTCCAGCCGAGTACGCTGAGGCTATGGGGTACCATGTGGGAGGCCTTCTCTATGGCCAGAA  
 GCCCTACAAGAAAATGAAGGGCCCCGAGGTCCTGGACTTCATCAAGCAGGGTAAGAGGATGGAATGTCCG  
 CCGGAGTGTCTCTGAGATGTATGCATTATGAGTGACTGCTGGATCTACAAGTGGGAGGATCGCCCCG  
 ACTTCTGACTGTGGAACAACGTATGCGGAACTATTACTACAGCCTGGCCAGCCGGGCGGAGGGACCC  
 ACAGTGTGAACAGGTGGCCGAGGCTGCATGTGGCTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-MluI

**ACCN:** NM\_009539

**Insert Size:** 1857 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).

**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\\_009539.3](#), [NP\\_033565.2](#)

**RefSeq Size:** 2247 bp

**RefSeq ORF:** 1857 bp

**Locus ID:** 22637

**UniProt ID:** [P43404](#)

**Cytogenetics:** 1 15.41 cM

**Gene Summary:** This gene encodes a member of the protein tyrosine kinase family. The encoded protein is essential for development of T lymphocytes and thymocytes, and functions in the initial step of T lymphocyte receptor-mediated signal transduction. A mutation in this gene causes chronic autoimmune arthritis, similar to rheumatoid arthritis in humans. Mice lacking this gene are deficient in alpha-beta T lymphocytes in the thymus. In humans, mutations in this gene cause selective T-cell defect, a severe combined immunodeficiency disease characterized by a selective absence of CD8-positive T lymphocytes. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014]  
Transcript Variant: This variant (1) differs in the 5' UTR, lacks a portion of the 5' coding region and initiates translation at a downstream start codon compared to variant 4. The encoded isoform (a) has a shorter N-terminus compared to isoform b. Variants 1 and 3 encode the same protein.