

Product datasheet for **MC228561**

Zap70 (NM_001289766) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zap70 (NM_001289766) 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: >MC228561 representing NM_001289766
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCAAATCTGTCTTGGAAAACCAGGAAGGAGCCTGTTACCCTCTGTGGTGTGCTTACTACAGGGTCCAG
 CGATGCCCGATCCGCGGCGCACCTGCCATTCTTCTATGGCAGCATCTCGCGGGCTGAGGCCGAGGAGCA
 CCTGAAGCTGGCAGGCATGGCCGACGGGCTGTTCTCCTGCGCCAGTGTGGCGCTCCCTGGGCGGCTAC
 GTGCTGTCGTTGGTGCACGACGTGCGCTTCCACCATTCCCCATCGAGCGCAACTCAACGGCACGTACG
 CCATCGCGGGCGGAAGGCGCACTGCGGCCGCGGAGCTCTGCCAGTTCTACTCTCAGGACCCCGACGG
 GCTGCCCTGCAACCTGCGTAAGCCGTGTAACCGGCCGCGCCGACTGGAGCCACAGCCCGGGTCTTCGAC
 TGCTGCGTGATGCTATGGTGCAGACTACGTGCGCCAGACTGGAAGCTGGAGGGCGATGCACTAGAGC
 AGGCCATCATCAGCCAGGCCCCACAGGTGGAGAAGCTCATTGCTACCACAGCCCACGAGCGAATGCCCTG
 GTATCACAGCAGCCTGACTCGTGAGGAGCCGAGCGCAAATCTATTCCGCCAGCAGACCGACGGCAAG
 TTCTGCTGAGGCCCGGAAGGAGCAGGGCACATATGCACTGTCCCTGGTCTATGGGAAAATGTATACC
 ACTATCTCATCAGCCAGGACAAGGCTGGCAAGTACTGCATCCCCGAAGGCACCAAGTTTGACACGGCTCTG
 GCAGCTGGTGGAGTACCTGAAGCTGAAGGCGGATGGACTAATTTACCGCTTGAAGGAGGTCTGTCCCAAC
 AGCAGCGCCAGCGCGGAGTTGCTGCACCCACCCTCCCAGCCCACCCATCCACATTCACTCAGCCTCAGA
 GACGAGTGGACACCCTGAACTCGGACGGATACACCCTGAACCAGCACGTTAGCGTTCATCGACAGACAA
 GCCCGGCGGATGCCCATGGACACAAGTGTGTACGAGAGTCCCTACAGCGACCCTGAGGAACTCAAAGAC
 AAGAAGCTCTTCTGAAGCGAGAGAATCTCCTCGTGGCGGACATCGAGCTTGGCTGTGGCACTTTGGCT
 CCGTGGCCAGGGAGTCTATCGCATGCGCAAGAAGCAGATTGACGTGGCCATCAAGTGTGAAGCAGGG
 CACAGAGAAGGCCGACAAGATGAGATGATGCGAGAGGCCAGATCATGCCAGCTCGACAACCCCTAC
 ATCGTGGCGTCTATCGGCGTGTGCCAGGAGAAGCACTCATGCTGGTTCATGGAGATGGCGGGAGGGGGC
 CCCTGCACAAGTCTGCTGGGAAAGAAGGAGGAGATCCCTGTGAGCAATGTGGCTGAACTGCTGCACCA
 GGTGGCCATGGGCATGAAGTATTTGGAGGAGAAAACTTTGTGCACCGCGACCTGGCAGCCCGCAATGTT
 CTACTGGTCAATCGCACTATGCCAAGATCAGCGACTTTGGCTGTCCAAAGCCCTGGGTGCTGACGACA
 GCTATTACACAGCCGGTCTGCAGGGAAGTGGCTCTGAAGTGGTACGCGCCAGAGTGCATCAACTTTTCG
 GAAGTTCTCCAGCCGAGTGACGTCTGGAGCTATGGGGTACCATGTGGGAGGCTTCTCCTATGGCCAG
 AAGCCCTACAAGAAAATGAAGGGCCCCGAGGCTCTGGACTTCATCAAGCAGGGTAAGAGGATGGAATGTC
 CGCCGGAGTGTCTCCTGAGATGTATGCACTTATGAGTACTGCTGGATCTACAAGTGGGAGGATCGCCC
 CGACTTCTGACTGTGGAACAACGTATGCGGAACTATTACTACAGCCTGGCCAGCCGGGCGGAGGGACCC
 CCACAGTGTGAACAGGTGGCCGAGGCTGCATGTGGCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI

ACCN: NM_001289766

Insert Size: 1929 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).

OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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:	<u>NM_001289766.1</u> , <u>NP_001276695.1</u>
RefSeq Size:	2255 bp
RefSeq ORF:	1929 bp
Locus ID:	22637
Cytogenetics:	1 15.41 cM
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (4) encodes the longest isoform (b). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>