

Product datasheet for MC226959

Zap70 (NM_001289612) Mouse Untagged Clone

Product data:

OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	Zap70 (NM_001289612) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Zap70
Synonyms:	mrtle; mur; S; Srk; ZAP-; ZAP-70
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC226959 representing NM_001289612 Red=Cloning site Blue=ORF Orange=Stop codon
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGCCCATGGACACAAGTGTGTACGAGAGTCCCTACAGCGACCCTGAGGAACTCAAAGACAAGAAGCTCT TCCTGAAGCGAGAGAATCTCCTCGTGGCGGACATCGAGCTTGGCTGTGGCAACTTTGGCTCCGTGCGCCA GGGAGTCTATCGCATGCGCAAGAAGCAGATTGACGTGGCCATCAAGGTGCTGAAGCAGGGCACAGAGAAG GCCGACAAAGATGAGGATGATGCGAGAGGCCCAGATCATGCACCAGCTCGACAACCCCTACATCGTGCGGC TCATCGGCGTGTGCCAGGCAGAAGCACTCATGCTGGTCATGGAGATGGCCGGGAGGCGGGCCCCTGCACAA GTTCCTGCTGGGAAAGAAGGAGGAGACCCCTGTGAGCAATGTGGCTGAACTGCTGCACCAGGTGGCCATG GGCATGAAGTATTTGGAGGAGAAAACTTTGTGCACCGCGACCTGGCAGCCCGCAATGTTCTACTGGTCA ATCGGCACTATGCCAAGATCAGCGACTTTGGCCTGTCCAAAGCCCTGGGTGCTGACGACAGCTATTACAC AGCCCGGTCTGCAGGGAAAGAGGGCCTCTGAAGTGGTACGCGCCAGAGTGCATCAACTTTCGGAAGTTCTCC AGCCCGAGTGACGTCTGGAGCTATGGGGTCACCATGTGGGAGGCCTTCTCCTATGGCCAGAAGCCCTACA AGAAAATGAAGGGCCCCCGAGGTCCTGGACTTCATCAAGCAGGGTAGGAATGTCCGCCGGAGTG TCCTCCTGAGATGTATGCACTTATGAGTGACTGCTGGATCTACAAGTGGGAGGATCGCCCCGACTTCCTG ACTGTGGAACAACGTATGCGGAACTATTACTACAGCCTGGCCAGCCGGGGCCGAGGGACCCCCACAGTGTG AACAGGTGGCCGAGGCTGCATGTGGCTGA
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001289612



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GRIGENE Zap70 (NM_001289612) Mouse Untagged Clone – MC226959	
Insert Size:	939 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:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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:	<u>NM 001289612.1, NP 001276541.1</u>
RefSeq Size:	1343 bp
RefSeq ORF:	939 bp
Locus ID:	22637
UniProt ID:	<u>P43404</u>
Cytogenetics:	1 15.41 cM

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CRIGENE Zap70 (NM_001289612) Mouse Untagged Clone – MC226959

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 (2) contains a 5' terminal exon that extends past a splice site that is used in variant 1. This variant 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 (TZK, also known as truncated ZAP kinase; PMID 14985102) has a shorter N-terminus compared to 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.

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