

Product datasheet for **MR230772**

Zap70 (NM_001289766) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zap70 (NM_001289766) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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)



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ORF Nucleotide Sequence:

>MR230772 representing NM_001289766
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCAAATCTGTCTTGGAAAACCAGGAAGGAGCCTGTTACCCTCTGTGGTGTGCTTACTACAGGGTCCAG
 CGATGCCCGATCCCGCGCGCACCTGCCATTCTTCTATGGCAGCATCTCGCGGGCTGAGGCCGAGGAGCA
 CCTGAAGCTGGCAGGCATGGCCGACGGGCTGTTCTCCTGCGCCAGTGTTTGCCTCCCTGGCGGCTAC
 GTGCTGTCTGGTGCACGACGTGCGCTTCCACCATTCCCCATCGAGCGCAACTCAACGGCACGTACG
 CCATCGCGGGCGGAAGGCGCACTGCGGCCGCGGAGCTCTGCCAGTTCTACTCTCAGGACCCCGACGG
 GCTGCCCTGCAACCTGCGTAAGCCGTGTAACCGGCCGCCCGACTGGAGCCACAGCCCGGGTCTTCGAC
 TGCTGCGTGATGCTATGGTGCAGACTACGTGCGCCAGACTGGAAGCTGGAGGGCGATGCACTAGAGC
 AGGCCATCATCAGCCAGGCCACAGGTGGAGAAGCTCATTGCTACCACAGCCACGAGCGAATGCCCTG
 GTATCACAGCAGCTGACTCGTGAGGAGCCGAGCGCAAATCTATTCCGCCAGCAGACCGACGGCAAG
 TTCTGCTGAGGCCCGGAAGGAGCAGGGCACATATGCACTGTCCCTGGTCTATGGGAAAATGTATACC
 ACTATCTCATCAGCCAGGACAAGGCTGGCAAGTACTGCATCCCCGAAGGCACCAAGTTTGACACGCTCTG
 GCAGCTGGTGGAGTACCTGAAGCTGAAGGCGGATGGACTAATTTACCGCTTGAAGGAGGTCTGTCCCAAC
 AGCAGCGCCAGCGCGCAGTTGCTGCACCCACCCTCCCAGCCACCCATCCACATTCACTCAGCCTCAGA
 GACGAGTGGACACCCTGAACTCGACGGATACACCCTGAACCAGCACGTTAGCGTTCATCGACAGACAA
 GCCCGGCCGATGCCATGGACACAAGTGTGTACGAGAGTCCCTACAGCGACCCTGAGGAACTCAAAGAC
 AAGAAGCTCTTCTGAAGCGAGAGAATCTCCTCGTGGCGGACATCGAGCTTGGCTGTGGCACTTTGGCT
 CCGTGCGCCAGGGAGTCTATCGCATGCGCAAGAAGCAGATTGACGTGGCCATCAAGGTGCTGAAGCAGGG
 CACAGAGAAGGCCGACAAAGATGAGATGATGCGAGAGGCCAGATCATGCCAGCTCGACAACCCCTAC
 ATCGTGGGCTCATCGGCGTGTGCCAGGAGAAGCACTCATGCTGGTTCATGGAGATGGCGGGAGGGGGC
 CCCTGCACAAGTTCTGCTGGGAAAGAAGGAGGAGATCCCTGTGAGCAATGTGGTGAAGTCTGCACCA
 GGTGGCCATGGGCATGAAGTATTTGGAGGAGAAAACTTTGTGCACCGGACCTGGCAGCCCGCAATGTT
 CTAAGTCAATCGCACTATGCCAAGATCAGCGACTTTGGCTGTCAAAGCCCTGGGTGCTGACGACA
 GCTATTACACAGCCGGTCTGCAGGGAAGTGGCTCTGAAGTGGTACGCGCCAGAGTGCATCAACTTTG
 GAAGTTCTCCAGCCGAGTGACGTCTGGAGCTATGGGGTACCATGTGGGAGGCTTCTCCTATGGCCAG
 AAGCCCTACAAGAAAATGAAGGGCCCCGAGGCTCTGGACTTCATCAAGCAGGGTAAGAGGATGGAATGTC
 CGCCGGAGTGCTCCTGAGATGTATGCACTTATGAGTACTGCTGGATCTACAAGTGGGAGGATCGCCC
 CGACTTCTGACTGTGGAACAACGTATGCGGAATATTACTACAGCTGGCCAGCCGGGCCGAGGGACCC
 CCACAGTGTGAACAGGTGGCCGAGGCTGCATGTGGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR230772 representing NM_001289766
 Red=Cloning site Green=Tags(s)

MQICLGKPGRSLLPVSVCLLQGPAMPDPA AHL PFFYGSISR AEAEHLKLAGMADGLFLLRQCLRSLGGY
 VLSLVHDVRFHHFPIERQLNGTYAIAGGKAHC PAELCQFYSQDPDGLPCNLKPCNRPPGLEPQPGVFD
 CLRDAMVRDYVRQTWKLEGDAL EQAIIISQAPQVEKLIATTAHERMPWYHSSLTREEAERKLYSGQQT D GK
 FLLRPRKEQGT YALSLVYGKTVYHYLISQDKAGKYCIPEGTKFDLWQLVEYLK LKADGLIYRLKEVCPN
 SSASA AVAAPTLP AHPSTFTQPQRRVDTLNSDGYTPEPARLASSTDKPRPMPMDTSVYESPYSDPEELKD
 KKLFLKRENLLVADIELGCGNFGSVRQGVYRMRKKQIDVAIKVLKQGTEKADKDEMMREAQIMHQLDNPY
 IVRLIGVCQAEALMLVMEMAGGGPLHKFLLGKKEEIPVSNVAELLHQVAMGMKYLEEKNFVHRDLAARNV
 LLVNRHYAKISDFGLSKALGADDSYYTARSAGKWLK WYAPECINFRKFSSRSVDVWSYGVMTWEAFSYGQ
 KPYKMKMGPEVLDFIKQGKRMECPPECPPEMYALMSDCWIYKWEDRPDFLTVEQRMRNYYYSLASRAEGP
 PQCEQVAEACG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001289766

ORF Size: 1926 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:

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_001289766.1](#), [NP_001276695.1](#)

RefSeq Size: 2255 bp

RefSeq ORF: 1929 bp

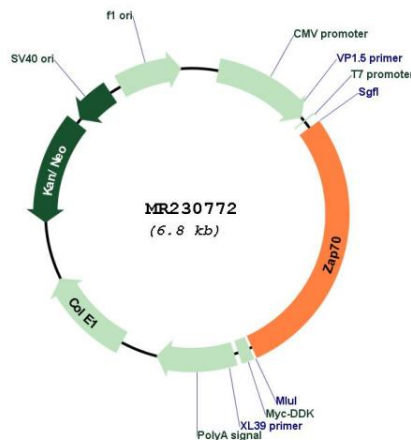
Locus ID: 22637

Cytogenetics: 1 15.41 cM

MW: 73 kDa

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]

Product images:



Circular map for MR230772