

Product datasheet for **MR230694**

Zap70 (NM_001289765) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zap70 (NM_001289765) 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:

>MR230694 representing NM_001289765
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCGATCCCGCGGCACCTGCCATTCTTCTATGGCAGCATCTCGGGGCTGAGGCCGAGGAGCACC
 TGAAGCTGGCAGGCATGGCCGACGGCTGTTCTCCTGCCAGTGTTCGCTCCCTGGCGGCTACGT
 GCTGTCGTTGGTGCACGACGTGCGCTTCCACCATTTCCCATCGAGCGCAACTCAACGGCAGTACGCC
 ATCGCGGGCGGAAGGCGCACTGCGGCCGCGGAGCTCTGCCAGTTCTACTCTCAGGACCCGACGGGC
 TGCCCTGCAACCTGCGTAAGCCGTGAACCGCCGCCCGGACTGGAGCCACAGCCGGGGTCTTCGACTG
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 GAAGCTTCTTGAAGCGAGAGAATCTCCTCGTGGCGGACATCGAGCTTGGCTGTGGCAACTTTGGCTCC
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 GCCCTACAAGAAAATGAAGGGCCCCGAGGTCCTGGACTTCATCAAGCAGGGTAAGAGGATGGAATGTCCG
 CCGGAGTGTCTCTGAGATGTATGCATTATGAGTGACTGCTGGATCTACAAGTGGGAGGATCGCCCCG
 ACTTCTGACTGTGGAACAACGTATGCGGAATTAATACTACAGCCTGGCCAGCCGGGCGGAGGGACCCCC
 ACAGTGTGAACAGGTGGCCGAGGCTGCATGTGGC

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Protein Sequence:

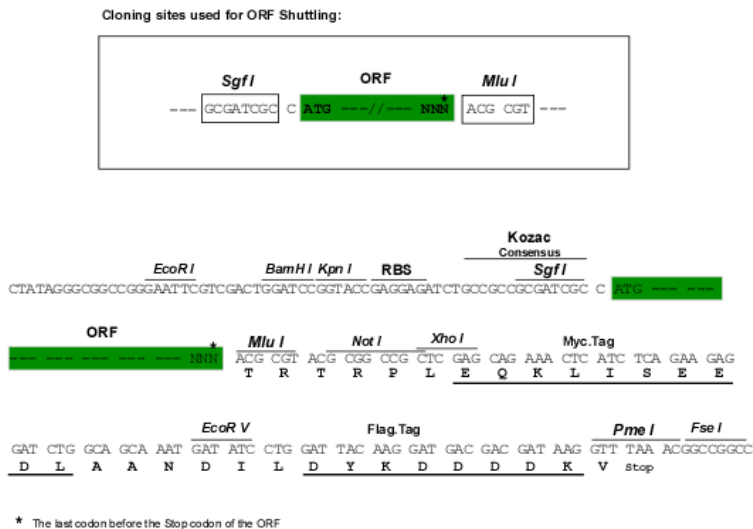
>MR230694 representing NM_001289765
 Red=Cloning site Green=Tags(s)

MPDPA AHL PFFYGSISR AE EHLKLAGMADGLFLLRQCLRSLGGYVLSLVHDVRFHHPPIERQLNGTYA
 IAGGKAHCGPAELCQFYSQDPDGLPCNLRKPCNRPPGLEPQPGVDFCLRDAMVRDYVRQTKWLEGDAL EQ
 AIIISQAPQVEKLIATTAHERMPWYHSSLTREEAERKLYSGQQTGDKFLLRPRKEQGTYSLVYGKTVYH
 YLISQDKAGKYCIPEGTKFDLWQLVEYLKADGLIYRLKEVCPNSSASA AVAAP TLP AHPSTFTQPQR
 RVDTLNSDGYTPEPARLASSTDKPRPMPMDTSVYESPYSDPEELKDKKFLKRENLLVADIELGCGNFGS
 VRQGVYRMRKKQIDVAIKVLKQGT EKADKDEMMREAQIMHQLDNPYIVRLIGVCQAEALMLVEMAGGGP
 LHKFLLGKKEEIPVSNVAELLHQVAMGMKYLEEKNFVHRDLAARNVLLVNRHYAKISDFGLSKALGADDS
 YYTARSAGKWPLKWAYPECINFRKFSRSRDVWSYGVTMWEAFSYGQKPYKMKGP EVDLFIKQGRMECP
 PECPPEMYALMSDCWIYKWEDRPDFLTVEQRMNYYYYSLASRAEGPPQCEQVAEAAACG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001289765

ORF Size: 1854 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_001289765.1](#), [NP_001276694.1](#)

RefSeq Size: 2290 bp

RefSeq ORF: 1857 bp

Locus ID: 22637

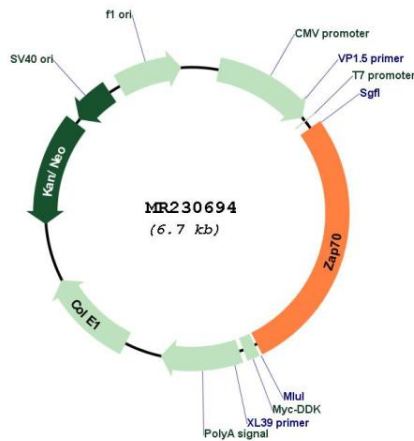
UniProt ID: [P43404](#)

Cytogenetics: 1 15.41 cM

MW: 70.1 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 MR230694