

Product datasheet for MR229170

Zap70 (NM_001289612) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zap70 (NM_001289612) 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)
ORF Nucleotide Sequence:	>MR229170 representing NM_001289612 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCCATGGACACAAGTGTGTACGAGAGTCCCTACAGCGACCCTGAGGAACTCAAAGACAAGAAGCTCT
TCCTGAAGCGAGAGAATCTCCTCGTGGCGGACATCGAGCTTGGCTGTGGCAACTTTGGCTCCGTGCGCCA
GGGAGTCTATCGCATGCGCAAGAAGCAGATTGACGTGGCCATCAAGGTGCTGAAGCAGGGCAGAGAAG
GCCGACAAAGATGAGATGATGCGAGAGGCCAGATCATGCACCAGCTCGACAACCCCTACATCGTGCGGC
TCATCGGCGTGTGCCAGGCAGAAGCACTCATGCTGGTCATGGAGATGGCGGGAGGCGGGCCCTGCACAA
GTTCTGCTGGGAAAGAAGGAGGAGATCCCTGTGAGCAATGTGGCTGAACTGCTGCACCAGTGGCCATG
GGCATGAAGTATTTGGAGGAGAAAACTTTGTGCACCGCGACCTGGCAGCCCGCAATGTTCTACTGGTCA
ATCGGCACTATGCCAAGATCAGCGACTTTGGCCTGTCAAAGCCCTGGGTGCTGACGACGCTATTACAC
AGCCCGGTCTGCAGGGAAGTGGCCTCTGAAGTGGTACGCGCCAGAGTGCATCAACTTTGGAAAGTTCTCC
AGCCGAGTGACGTCTGGAGCTATGGGGTACCATGTGGGAGGCCTTCTCCTATGGCCAGAAGCCCTACA
AGAAAAAAGAGGGCCCGAGGTCCTGGACTTCAATCAAGCAGGGTAAGAGGATGGAATGTCCGCGGAGTG
TCCTCCTGAGATGATGCACTTATGAGTGACTGCTGGATCTACAAGTGGGAGGATCGCCCCGACTTCCTG
ACTGTGGAACAACGTATGCGGAACTATTACTACAGCCTGGCCAGCCGGGCGGAGGACCCCCACAGTGTG
AACAGGTGGCCGAGGCTGCATGTGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229170 representing NM_001289612
Red=Cloning site Green=Tags(s)

MPMDTSVYESPYSDPEELKDKKFLKRENLLVADIELGCGNFGSVRQGVYMRKKQIDVAIKVLKQGTEK
 ADKDEMMREAQIMHQLDNPYIVRLIGVCQAEALMLVMEMAGGGPLHKFLLGKKEEIPVSNVAELLHQVAM
 GMKYLEEKNFVHRDLAARNVLLVNRHYAKISDFGLSKALGADDSYYTARSAGKWPLKWAYAPECINFRKFS
 SRSDVWSYGVTMWEAFSYGQKPYKMKGPEVLDKIKQGKRMECPPECPPEMYALMSDCWIYKWEDRPDFL
 TVEQRMNRYYSLASRAEGPPQCEQVAEACG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_001289612

ORF Size: 936 bp

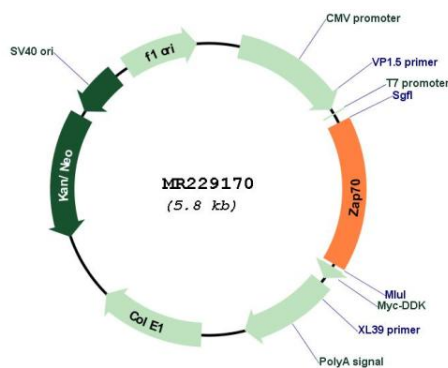
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<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_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
MW:	36.3 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 MR229170