

Product datasheet for **MG226660**

Zap70 (NM_009539) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zap70 (NM_009539) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Zap70
Synonyms:	mrtle; mur; S; Srk; ZAP-; ZAP-70
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG226660 representing NM_009539
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCCCGATCCCGCGGCACCTGCCATTCTTCTATGGCAGCATCTCGGGGCTGAGCCGAGGAGCACC
 TGAAGCTGGCAGGCATGGCCGACGGCTGTTCTCCTGCCAGTGTTCGCTCGCTGGCGGCTACGT
 GCTGTCTGTTGGTGCACGACGTGCGCTTCCACCATTTCCCATCGAGCGCAACTCAACGGCACGTACGCC
 ATCGCGGGCGGAAGGCGCACTGCGGCCCGGCGAGCTCTGCCAGTTCTACTCTCAGGACCCGACGGGC
 TGCCCTGCAACCTGCGTAAGCCGTGAACCGGCCCTGGACTGGAGCCACAGCCGGGGTCTTCGACTG
 CCTGCGTGATGCTATGGTGCAGATTACGTGCGCCAGACCTGGAAGCTGGAGGGCGATGCACTAGAGCAG
 GCCATCATCAGCCAGGCCACAGGTGGAGAAGCTCATTGCTACCACAGCCACGAGCGAATGCCCTGGT
 ATCACAGCAGCTGACTCGGAGGAGGCCGAGCGCAAACCTCTATCCGGCCAGCAGCCGACGGCAAGTT
 CCTGCTGAGGCCCGGAAGGAGCAGGGCACATATGCACTGTCCCTGGTCTATGGGAAAACGTATACCAC
 TATCTCATCAGCCAGGACAAGGCTGGCAAGTACTGCATCCCCGAAGGCACCAAGTTTGACACGCTCTGGC
 AGCTGGTGGAGTACCTGAAGCTGAAGGCGGATGGACTAATTTACCCTTGAAGGAGGTCTGTCCCAACAG
 CAGCGCCAGTGGCGCAGTTGCTGCACCCACCCTCCAGCCACCCATCCACATCACTCAGCCTCAGAGA
 CGAGTGGACACCTGAACTCGGACGGATACACCCTGAACCAGCAGCCTTAGCGTCATCGACAGACAAGC
 CCCGGCCGATGCCATGGACACAAGTGTGTACGAGAGTCCCTACAGCGACCCTGAGGAACTCAAAGACAA
 GAAGCTCTTCTGAAGCGAGAGAATCTCCTCGTGGCGGACATCGAGCTTGGCTGTGGCAACTTTGGCTCC
 GTGCGCCAGGGAGTCTATCGCATGCGCAAGAAGCAGATTGACGTGGCCATCAAGGTGCTGAAGCAGGGCA
 CAGAGAAGGCCGACAAAGATGAGATGATGCGAGAGGCCAGATCATGCACCAGCTCGACAACCCCTACAT
 CGTGGCGCTCATCGGCGTGTGCCAGGCAGAAGCACTCATGCTGGTCTGGAGATGGCGGGAGGCGGGCCC
 CTGCACAAGTTCTGCTGGGAAAGAAGGAGGAGATCCCTGTGAGCAATGGGCTGAACTGCTGCACCAGG
 TGGCCATGGCATGAAGTATTTGGAGGAGAAAACTTTGTGCACCAGCAGCTGGCAGCCGCAATGTTCT
 ACTGGTCAATCGGCACTATGCCAAGATCAGCGACTTTGGCCTGTCAAAGCCCTGGGTGCTGACGACAGC
 TATTACACAGCCCGTCTGCAGGAAAGTGGCCTCTGAAGTGTACGCGCCAGAGTGCATCAACTTTCGGA
 AGTTCTCCAGCCGAGTGTCTGGAGCTATGGGGTACCATGTGGGAGGCCTTCTCTATGGCCAGAA
 GCCCTACAAGAAAATGAAGGGCCCCGAGGTCCTGGACTTCATCAAGCAGGGTAAGAGGATGGAATGTCCG
 CCGGAGTGTCTCTGAGATGTATGCATTATGAGTGACTGCTGGATCTACAAGTGGGAGGATCGCCCCG
 ACTTCTGACTGTGGAACAACGTATGCGGAACTATTACTACAGCCTGGCCAGTGGGCGGAGGGACCCCC
 ACAGTGTGAACAGGTGGCCGAGGCTGCATGTGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG226660 representing NM_009539
 Red=Cloning site Green=Tags(s)

MPDPA AHL PFFYGSISR AEAEHLKLAGMADGLFLLRQCLRSLGGYVLSLVHDVRFHHFPIERQLNGTYA
 IAGGKAHCGPAELCQFYSQDPDGLPCNLRKPCNRPPGLEPQPGVFDCLRDAMVRDYVRQTKWLEGDAL
 EQ AIISQAPQVEKLIATTAHERMPWYHSSLTREEAERKLYSGQQTGKFLLRPRKEQGTYSLSVYKTVYH
 YLISQDKAGKYCIPEGTKFDLWQLVEYLKLDGLIYRLKEVCPNSSASA AVAAP TLP AHPSTFTQPQR
 RVDLNSDGYTPEPARLASSTDKPRPMPMDTSVYESPYSDPEELKDKKFLKRENLLVADIELGCGNFGS
 VRQGVYMRKKQIDVAIKVLKQTEKADKDEMMREAIQIMHQLDNPYIVRLIGVCQAEALMLMEMAGGGP
 LHKFLLGKKEEIPVSNVAELHQQVAMGMYLEEKNFVHRDLAARNVLLVNRHYAKISDFGLSKALGADDS
 YYTARSAGKWPLKWAPECFINFRKFSRSDVWSYGVTMWEAFSYGQKPYKMKMGPEVLDIFIKQGRMECP
 PECPPEMYALMSDCWIYKWEDRPDLTVEQRMNRYYSLSASRAEGPPQCEQVAEAAACG

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

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:	<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:	NM_009539.2 , NP_033565.2
RefSeq Size:	2180 bp
RefSeq ORF:	1857 bp
Locus ID:	22637
UniProt ID:	P43404
Cytogenetics:	1 15.41 cM
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]