

Product datasheet for **SC310215**

ZAP70 (NM_001079) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZAP70 (NM_001079) Human Untagged Clone
Tag:	Tag Free
Symbol:	ZAP70
Synonyms:	ADMIO2; IMD48; SRK; STCD; STD; TZK; ZAP-70
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_001079 edited
 GCTTGCCGGAGCTCAGCAGACACCAGGCCTTCCGGGCAGGCCTGGCCACCGTGGGCCTC
 AGAGCTGCTGCTGGGGCATTAGAACCGGCTCTCCATTGGCATTGGGACCAGAGACCCCG
 CAAGTGGCCTGTTTGCCTGGACATCCACCTGTACGTCCCCAGGTTTCGGGAGGCCAGGG
 GCGATGCCAGACCCCGCGGCACCTGCCCTTCTCTACGGCAGCATCTCGCGTGCCGAG
 GCCGAGGAGCACCTGAAGCTGGCGGGCATGGCGACGGGCTCTTCTGCTGCGCCAGTGC
 CTGCGCTCGCTGGGCGGCTATGTGCTGTGCTCGTGCACGATGTGCGCTTCCACCACTTT
 CCCATCGAGCGCCAGCTCAACGGCACCTACGCCATTGCCGGCGGCAAAGCGCACTGTGA
 CCGGCAGAGCTCTGCGAGTTCTACTCGCGCACCCCGACGGGCTGCCCTGCAACCTGCGC
 AAGCCGTGCAACCGGCCGTGGGGCTCGAGCCGACGCGGGGTCTTCGACTGCCTGCGA
 GACGCCATGGTGCCTGACTACGTGCGCCAGACGTGGAAGCTGGAGGGCGAGGCCCTGGAG
 CAGGCCATCATCAGCCAGGCCCGCAGGTGGAGAAGCTCATTGCTACGACGGCCACGAG
 CGGATGCCCTGGTACCACAGCAGCCTGACGCGTGAGGAGGCCGAGCGCAAACCTTTACTCT
 GGGGCGCAGACCCAGGCAAGTTCTGCTGAGGCCGCGGAAGGAGCAGGGCACATACGCC
 CTGTCCCTCATCTATGGGAAGACGGTGTACCACTACCTCATCAGCCAAGACAAGGCGGGC
 AAGTACTGCATTTCCCGAGGGCACCAAGTTTGACACGCTCTGGCAGCTGGTGGAGTATCTG
 AAGCTGAAGGCGGACGGGCTCATCTACTGCCTGAAGGAGGCCTGCCCCAACAGCAGTGCC
 AGCAACGCCTCAGGGGCTGCTGCTCCACACTCCCAGCCACCCATCCACGTTGACTCAT
 CCTCAGAGACGAATCGACACCCTCAACTCAGATGGATACACCCCTGAGCCAGCAGCATA
 ACGTCCCAGACAAAACCGCGCCGATGCCCATGGACACGAGCGTGTATGAGAGCCCTAC
 AGCGACCCAGAGGAGCTCAAGGACAAGAAGCTCTTCTGAAGCGGATAACCTCCTCATA
 GCTGACATTGAACTTGGCTGCGCAACTTTGGCTCAGTGCAGGCGGTGTACCGCATG
 CGCAAGAAGCAGATCGACGTGGCCATCAAGTGTGAAGCAGGGCACGGAGAAGGCAGAG
 ACGGAAGAGATGATGCGCGAGGGCCAGATCATGCCAGCTGGACAACCCCTACATCGTG
 CGGCTCATTGGCGTCTGCCAGGCGAGGCCCTCATGCTGGTATGAGAGTGGTGGGGG
 GGGCCGCTGCACAAGTTCTGGTCCGCAAGAGGGAGGAGATCCCTGTGAGCAATGTGGCC
 GAGCTGCTGCACCAGGTGCCATGGGGATGAAGTACCTGGAGGAGAAGAACTTTGTGCAC
 CGTGACCTGGCGGCCCGCAACGTCTGCTGGTTAACCGGCACTACGCCAAGATCAGCGAC
 TTTGGCCTCTCCAAGCACTGGGTGCCGACGACAGCTACTACACTGCCCGCTCAGCAGGG
 AAGTGGCCGCTCAAGTGGTACGCACCCGAATGCATCAACTCCGCAAGTTCTCCAGCCG
 AGCGATGTCTGGAGCTATGGGGTACCATGTGGGAGGCCTTGCTCTACGCCCAGAAGCCC
 TACAAGAAGATGAAAGGGCCGGAGGTATGGCCTTCATCGAGCAGGGCAAGCGGATGGAR
 TGCCACCCAGAGTGTCCACCCGAAGTGTACGCACTCATGAGTGACTGCTGGATCTACAAG
 TGGGAGGATCGCCCCGACTTCTGACCGTGGAGCAGCGCATGCGAGCCTGTTACTACAGC
 CTGGCCAGCAAGTGGAAAGGGCCCCAGGCAGCACACAGAAGGCTGAGGCTGCCTGTGCC
 TGAGCTCCCGTGGCCAGGGGAGCCCTCCACACCGGCTCTTCCCCACCCTCAGCCCCACC
 CCAGGTCTGCAGTCTGGCTGAGCCCTGCTTGGTTGTCTCCACACACAGCTGGGCTGTGG
 TAGGGGGTGTCTCAGGCCACACCGGCTTGCAATGCCTGCCTGGCCCCCTGTCTCTCTG
 GCTGGGAGCAGGGAGGTCCGGGAGGGTCCGGCTGTGCAGCCTGTCTGGGCTGGTGGCT
 CCCGGAGGGCCCTGAGCTGAGGGCATTGCTTACACGGATGCCTTCCCCTGGGCCCTGACA
 TTGGAGCCTGGGCATCCTCAGGTGGTACGGCGTAGATCACCAGAAATAAACCCAGTTCCT
 TCTTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
 AAAAAAA

Restriction Sites: Please inquire
ACCN: NM_001079
Insert Size: 2500 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:	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_001079.3.
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_001079.3, NP_001070.2</u>
RefSeq Size:	2450 bp
RefSeq ORF:	1860 bp
Locus ID:	7535
UniProt ID:	<u>P43403</u>
Cytogenetics:	2q11.2
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Natural killer cell mediated cytotoxicity, Primary immunodeficiency, T cell receptor signaling pathway
Gene Summary:	<p>This gene encodes an enzyme belonging to the protein tyrosine kinase family, and it plays a role in T-cell development and lymphocyte activation. This enzyme, which is phosphorylated on tyrosine residues upon T-cell antigen receptor (TCR) stimulation, functions in the initial step of TCR-mediated signal transduction in combination with the Src family kinases, Lck and Fyn. This enzyme is also essential for thymocyte development. Mutations in this gene cause selective T-cell defect, a severe combined immunodeficiency disease characterized by a selective absence of CD8-positive T-cells. Two transcript variants that encode different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>