

Product datasheet for **SC323675**

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-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC323675 sequence for NM_001079 edited (data generated by NextGen Sequencing)

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ATGCCAGACCCCGCGGCGCACCTGCCCTTCTTCTACGGCAGCATCTCGCGTGCCGAGGCC
GAGGAGCACCTGAAGCTGGCGGGCATGGCGGACGGGCTTTCCTGCTGCGCCAGTGCCTG
CGCTCGTGGGCGGCTATGTGCTGTCGCTCGTGCACGATGTGCGTTCCACCACTTTCCC
ATCGAGCGCCAGCTCAACGGCACCTACGCCATTGCCGGCGGCAAAGCGCACTGTGGACCG
GCAGAGCTCTGCAGTTCTACTCGCGGACCCCGACGGGCTGCCCTGCAACCTGCGCAAG
CCGTGCAACCGGCGTCCGGCCTCGAGCCGACGCGGGGTCTTCGACTGCCTGCGAGAC
GCCATGGTGCCTGACTACGTGCGCCAGACGTGGAAGCTGGAGGGCGAGGCCCTGGAGCAG
GCCATCATCAGCCAGGCCCGCAGGTGGAGAAGCTCATTGCTACGACGGCCACGAGCGG
ATGCCCTGGTACCACAGCAGCCTGACGCGTGAGGAGGCCGAGCGCAAACCTTACTCTGGG
GCGCAGACCGACGGCAAGTTCTGCTGAGGCCGCGGAAGGAGCAGGGCACATACGCCCTG
TCCCTCATCTATGGGAAGACGGTGTACCACTACCTCATCAGCCAAGACAAGGCGGCAAG
TACTGCATTTCCGAGGGACCAAGTTTGACACGCTCTGGCAGCTGGTGGAGTATCTGAAG
CTGAAGGCGGACGGGCTCATCTACTGCCTGAAGGAGGCCTGCCCAACAGCAGTGCCAGC
AACGCCTCAGGGGCTGCTGCTCCACACTCCAGCCACCCATCCACGTTGACTCATCTCT
CAGAGACGAATCGACACCTCAACTCAGATGGATACACCCTGAGCCAGCACGCATAACG
TCCCCAGACAAACCGCGGCCGATGCCCATGGACACGAGCGTGTATGAGAGCCCCTACAGC
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GACATTGAACTTGGCTGCGGCAACTTTGGCTCAGTGCGCCAGGGCGTGTACCGCATGCGC
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CTCATTGGCGTCTGCCAGGCCGAGGCCCTCATGCTGGTATGGAGATGGCTGGGGGCGGG
CCGCTGCAACAAGTTCCTGGTCCGCAAGAGGGAGGAGATCCCTGTGAGCAATGTGGCCGAG
CTGCTGCACCAGGTGTCATGGGGATGAAGTACCTGGAGGAGAAGAACTTTGTGCACCGT
GACCTGGCGGCCCGCAACGTCTGCTGGTTAACCGGCACTACGCCAAGATCAGCGACTTT
GGCCTCTCAAAGCACTGGGTGCCGACGACAGCTACTACACTGCCCGCTCAGCAGGGAAG
TGGCCGCTCAAGTGGTACGCACCCGAATGCATCAACTCCGCAAGTTCTCCAGCCGACG
GATGTCTGGAGCTATGGGGTACCATGTGGGAGGCCTTGTCTACGGCCAGAAGCCCTAC
AAGAAGATGAAAGGGCCGAGGTGATGGCTTCATCGAGCAGGGCAAGCGGATGGAATGC
CCACCAGAGTGTCCACCCGAAGTACGCACTCATGAGTACTGCTGGATCTACAAGTGG
GAGGATCGCCCCGACTTCTGACCGTGGAGCAGCGCATGCGAGCCTGTTACTACAGCCTG
GCCAGCAAGTGGAAGGGCCCCAGGCAGCACACAGAAGGCTGAGGCTGCCTGTGCCTGA
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Clone variation with respect to NM_001079.3
1106 a=>t;1677 g=>a

5' Read Nucleotide Sequence:	>OriGene 5' read for mutant NM_001079 unedited ACCGCCGTTGAGCAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAA CCGTCAGAATTTTGAATACGACTACTATAGGGCGGCCGCAATTCGGCACCAGGAGCGGCAGGGCCTC CCTCTCAGGCGGGGGCTTGGGCTGCAGGAAATCAAACCGGCTTTGTAAGCCCCGATTCTCACCCAG AACCGGCTCTCCATTGGCATTGGGACCAGAGACCCCGCAAGTGGCCTGTTGCTGGACATCCACCTGTA CGTCCCCAGGTTTCGGGAGGCCAGGGGCGATGCCAGACCCCGCGGCACCTGCCCTTCTTAGGGCA GCATCTCGGTGCCGAGGCCGAGGACCTGAAGCTGGCGGGCATGGCGGACGGGCTCTCCTGCTGCG CCAGTGCCTGCGCTCGCTGGGCGGCTATGTCTGTGCTCGCTCGTGACGATGTGCGCTTCCACCACTTCCC ATCGGAGCGCAGCTCAACGGCACCTACGCATTGCCGGCGCAAAGCCGCACTGGTGGACCGCAGAGAGC TTCTGCAAGTTCTAACTGGCCGGACCCGGACGGCTGGCCTTGCAACTGGCCAGGCTGTGCAACGGCGT CGGGCCTTAAGCGGAAACGGGGTCTCCTCGCAACTGCCTGCAGAACGCCATGGGCGGTGACACTACTG TGCCTAACTGTGAAACCTGGGAGGGCAAGGCCCTTGGACAAGGCCTATTATACAGGCCCGAGAGTGT GGGAACTCTAGTGCTACAGGGCTAGACCGATTCTGTGTACAACAGACCGTAGACTTGGAGAGCCAAG CCAATACTACCTGGGCAACTGCAGATCCGTGAGAGCTCGAAGAGTACAGACCATATCCGTGCTATAT GGACCGGTGTACCCATATCTACTTAAAACGGTCATATCGTTCGAGACAAATGGCATCGCATCTGGTGAGC CTA
Kinase Domain Sequence:	>SC323675 kinase domain raw sequence. By performing BLASTX analysis with this sequence against NCBI reference protein database, you can confirm the presence of the kinase-deficient mutation TACTGGCTGCGGCACTTTGGCTCAGTGCGCCAGGGCGTGTACCGCATGCGCAAGTATGGCCGCCCTGCC GTGGTGGGAGCACCGCCCTGGGGCAGAGGGAGTGGCTTACCGGGCTGTGGGACGGGAGCCGGGATG TCTGTCTCACAGCAGTTTGCCTGGGAAACAGACTCTGGGGCAGGACGTTGCACGCTGGAGGATCCCTGA GAGAGCTCGGGACACCTGACGGGGTGGATGGGGCTGGGCAGG
Restriction Sites:	Please inquire
ACCN:	NM_001079
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:	This kinase-deficient mutant clone was generated by created by site-directed mutagenesis from the corresponding wild-type clone. See details in "Application of active and kinase-deficient kinome collection for identification of kinases regulating hedgehog signaling." Cell, 2008 May p536-548.
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_001079.3 , NP_001070.2
RefSeq Size:	2450 bp

RefSeq ORF:	1860 bp
Locus ID:	7535
UniProt ID:	P43403
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>