

Product datasheet for **SC325233**

SYK (NM_001135052) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SYK (NM_001135052) Human Untagged Clone
Tag:	Tag Free
Symbol:	SYK
Synonyms:	IMD82; p72-Syk
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_001135052 edited
 GGAGGTTACGGGGAACGACGCGCTGCTTTCATGCCCTTCTTGTCTACCTTCATCGGCC
 GAGGTGGACACCTGCGCAGGTGTGTGCCCTCCGGCCCCTGAAGCATGGCCAGCAGCGGCA
 TGGCTGACAGCGCAACACCTGCCCTTCTTTTCGGCAACATCACCCGGGAGGAGGCAG
 AAGATTACCTGGTCCAGGGGGCATGAGTGATGGGCTTATTTGCTGCGCCAGAGCCGCA
 ACTACCTGGGTGGCTTCGCCCTGTCCGTGGCCACGGGAGGAAGGCACACCACTACACCA
 TCGAGCGGGAGCTGAATGGCACCTACGCCATCGCCGGTGGCAGGACCCATGCCAGCCCCG
 CCGACCTCTGCCACTACCACTCCAGGAGTCTGATGGCCTGGTCTGCCTCCTCAAGAAGC
 CCTTCAACCGGCCCAAGGGGTGCAGCCCAAGACTGGGCCCTTTGAGGATTTGAAGGAAA
 ACCTCATCAGGGAATATGTGAAGCAGACATGGAACCTGCAGGGTCAGGCTCTGGAGCAGG
 CCATCATCAGTCAGAAGCCTCAGCTGGAGAAGCTGATCGCTACCACAGCCCATGAAAAAA
 TGCCTTGGTTCCATGGAAAAATCTCTCGGAAGAATCTGAGCAAATTTGCCTGATAGGAT
 CAAAGACAAATGGAAAGTTCTGATCCGAGCCAGAGACAACAACGGCTCTACGCCCTGT
 GCCTGCTGCACGAAGGGAAGGTGCTGCACTATCGCATCGACAAAGACAAGACAGGGAAGC
 TCTCCATCCCCGAGGGAAGAAGTTCGACACGCTCTGGCAGCTAGTCGAGCATTATCTT
 ATAAAGCAGATGGTTTGTAAAGAGTTCTACTGTCCCATGTCAAAAAATCGGCACACAGG
 GAAATGTTAATTTTGGAGGCCGTCCACAACCTCCAGGTTCCCATCCTGCCTCCTCCCTG
 CCCAAGGGAACCGGCAAGAGAGTACTGTGTCATTCAATCCGTATGAGCCAGAACTTGAC
 CCTGGGTGCAGACAAAGGCCCCAGAGAGAAGCCCTACCCATGGACACAGAGGTGTACG
 AGAGCCCCACGCGGACCCCGAGGAGATCAGGCCAAGGAGGTTTACCTGGACCGAAAGC
 TGCTGACGCTGGAAGACAAGAAGTGGGCTCTGGTAATTTTGAAGTGTGAAAAAGGGCT
 ACTACAAATGAAAAAGTTGTGAAAACCGTGGCTGTGAAAATACTGAAAAACGAGGCCA
 ATGACCCCGCTCTTAAAGATGAGTTATTAGCAGAAGCAAATGTCATGCAGCAGCTGGACA
 ACCCGTACATCGTGCGGATGATCGGGATATGCGAGGCCAGTCCCTGGATGCTGGTTATGG
 AGATGGCAGAACTTGGTCCCCTCAATAAGTATTTGCAGCAGAACAGACATGTCAAGGATA
 AGAACATCATAGAACTGGTTCATCAGGTTTCCATGGGCATGAAGTACTTGGAGGAGAGCA
 ATTTTGTGCACAGAGATCTGGCTGCAAGAAATGTGTTGCTAGTTACCCAACATTACGCCA
 AGATCAGTGATTTCCGACTTTCCAAGCACTGCGTGTGATGAAAATACTACAAGGCC
 AGACCCATGGAAAGTGGCTGTCAAGTGGTACGCTCCGGAATGCATCAACTACTACAAGT
 TCTCCAGCAAAAGCGATGTCTGGAGCTTTGGAGTGTGATGTGGGAAGCATTCTCCTATG
 GGCAGAAGCCATATCGAGGGATGAAAGGAAGTGAAGTACCGCTATGTTAGAGAAAGGAG
 AGCGGATGGGGTCCCTGCAGGGTGTCCAAGAGAGATGTACGATCTCATGAATCTGTGCT
 GGACATACGATGTGGAACAGGCCCGGATTTCGAGCAGTGGAACTGCGGCTGCGCAATT
 ACTACTATGACGTGGTGAACCAACCGCTCCCGCACCTGTCCGTGGCTGCCTTTGATCACA
 GGAGCAATCACAGGAAAAATGATCCAGAGGAATTGATTGTGAGCCACCTCCCTCTGCCAG
 TCGGGAGAGCCAGGCTTGGATGGAACATGCCCACAACTTGTACCCAAAGCCTGTCCCAG
 GACTCACCTCCACAAAGCAAAGGCAGTCCCGGAGAAAAGACGGATGGCAGGATCCAAG
 GGGCTAGCTGGATTTGTTTGTCTTCTGTCTGTGATTTTATACAGGTTATTTTACG
 ATCTGTTTCCAAATCCCTTTCATGTCTTCCACTTCTCTGGTCCCAGGGTGCATTTGTT
 ACTCATCGGGCCAGGGACATTGCAGAGTGGCCTAGAGCACTCTCACCCAAAGCGGCTT
 TTCCAAATGCCCAAGGATGCCTTAGCATGTGACTCCTGAAGGGAAGGCAAGGCAGAGGA
 ATTTGGCTGCTTCTACGGCCATGAGACTGATCCCTGGCCACTGAAAAGCTTCTGACAA
 TAAAAATGTTTTGAGGCTTTAAAAAGAAAATCAAGTTTGACCAGTGCAGTTTCTAAGCAT
 GTAGCCAGTTAAGGAAAGAAAGAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire
ACCN: NM_001135052
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:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_001135052.1 , NP_001128524.1
RefSeq Size:	5012 bp
RefSeq ORF:	1839 bp
Locus ID:	6850
UniProt ID:	P43405
Cytogenetics:	9q22.2
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	B cell receptor signaling pathway, Fc epsilon RI signaling pathway, Fc gamma R-mediated phagocytosis, Natural killer cell mediated cytotoxicity
Gene Summary:	<p>This gene encodes a member of the family of non-receptor type Tyr protein kinases. This protein is widely expressed in hematopoietic cells and is involved in coupling activated immunoreceptors to downstream signaling events that mediate diverse cellular responses, including proliferation, differentiation, and phagocytosis. It is thought to be a modulator of epithelial cell growth and a potential tumour suppressor in human breast carcinomas. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2010]</p> <p>Transcript Variant: This variant (2) lacks an alternate in-frame exon in the central coding region, compared to variant 1, resulting in an isoform (Syk(S)) that is shorter than isoform Syk(L). Both variants 2 and 4 encode isoform Syk(S). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>