

Product datasheet for **SC329015**

SYK (NM_001174167) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SYK (NM_001174167) 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: >NCBI ORF sequence for NM_001174167, the custom clone sequence may differ by one or more nucleotides

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ATGGCCAGCAGCGGCATGGCTGACAGCGCCAACCACCTGCCCTTCTTTTTCGGCAACATC
ACCCGGGAGGAGGCAGAAGATTACCTGGTCCAGGGGGGCATGAGTGATGGGCTTTATTTG
CTGCGCCAGAGCCGCAACTACCTGGGTGGCTTCGCCCTGTCCGTGGCCCACGGGAGGAAG
GCACACCACTACACCATCGAGCGGGAGCTGAATGGCACCTACGCCATCGCCGGTGGCAGG
ACCCATGCCAGCCCCGCGACCTTGCCACTACCACTCCCAGGAGTCTGATGGCCTGGTC
TGCCCTCTCAAGAAGCCCTTCAACCGGCCCAAGGGGTGCAGCCAAGACTGGGCCCTTT
GAGGATTTGAAGGAAAACCTCATCAGGGAATATGTGAAGCAGACATGGAACCTGCAGGGT
CAGGCTCTGGAGCAGGCCATCATCAGTCAGAAGCCTCAGCTGGAGAAGCTGATCGCTACC
ACAGCCCATGAAAAATGCCTTGGTTCCATGGAAAAATCTCTCGGAAGAATCTGAGCAA
ATTGCTCTGATAGGATCAAAGACAAATGGAAAGTTCTGATCCGAGCCAGAGACAACAAC
GGCTCCTACGCCCTGTGCCTGCTGCACGAAGGGAAGGTGCTGCACTATCGCATCGACAAA
GACAAGACAGGGAAGCTCTCCATCCCCGAGGGAAGAAGTTCGACACGCTCTGGCAGCTA
GTCGAGCATTATTCTTATAAAGCAGATGGTTTGTAAAGAGTTCTTACTGTCCCATGTCAA
AAAATCGGCACACAGGGAATGTTAATTTTGGAGGCCGTCCACAACCTCCAGTTCCCAT
CCTGCGACTTGGTCAGCGGGTGAATAATCTCAAGAATCAAATCATACTCTTCCCAAAG
CCTGGCCACAGAAAGTCTCCCTGCCCAAGGGAACCGGCAAGAGAGTACTGTGTCATTC
AATCCGTATGAGCCAGAACTTGCACCCTGGGCTGCAGACAAGGCCCCAGAGAGAAGCC
CTACCCATGGACACAGAGGTGTACGAGAGCCCCTACGCGGACCCCGAGGAGATCAGGCC
AAGGAGGTTTACCTGGACCGAAAGCTGCTGACGCTGGAAGACAAGAAGTGGGCTCTGGT
AATTTTGGAACTGTGAAAAAGGGCTACTACCAAATGAAAAAGTTGTGAAAACCGTGGCT
GTGAAAAACTGAAAAACGAGGCCAATGACCCCGCTCTTAAAGATGAGTTATTAGCAGAA
GCAAATGTCATGCAGCAGCTGGACAACCCGTACATCGTGCAGGATGATCGGGATATGCGAG
GCCGAGTCTGGATGCTGGTTATGGAGATGGCAGAACTGGTCCCCTCAATAAGTATTTG
CAGCAGAACAGACATGTCAAGGATAAGAACATCATAGAAGTGGTTCATCAGGTTTCCATG
GGCATGAAGTACTTGGAGGAGAGCAATTTTGTGCACAGAGATCTGGTGCAGAAATGTG
TTGCTAGTTACCCAACATTACGCCAAGATCAGTGATTTCCGACTTCCAAAGCACTGCGT
GCTGATGAAAACACTACAAGGCCAGACCCATGGAAAGTGGCCTGTCAAGTGGTACGCT
CCGGAATGCATCAACTACTACAAGTTCTCCAGCAAAAGCGATGTCTGGAGCTTTGGAGTG
TTGATGTGGGAAGCATTCTCTATGGGCAGAAGCCATATCGAGGGATGAAAGGAAGTGAA
GTCACCGCTATGTTAGAGAAAGGAGAGCGGATGGGGTGCCTGCAGGGTGTCCAAGAGAG
ATGTACGATCTCATGAATCTGTGCTGGACATACGATGTGGAACAGGCCCGGATTTCGCA
GCAGTGGAACTGCGGCTGCGCAATTACTACTATGACGTGGTGAAGTAA

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Restriction Sites: Please inquire

ACCN: NM_001174167

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:

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_001174167.1](#), [NP_001167638.1](#)

RefSeq Size: 5072 bp

RefSeq ORF: 1908 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: 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]
Transcript Variant: This variant (3) differs in the 5' UTR compared to variant 1. Both variants 1 and 3 encode isoform Syk(L). 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.