

Product datasheet for **RG230346**

SYK (NM_001174168) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SYK (NM_001174168) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SYK
Synonyms:	IMD82; p72-Syk
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG230346 representing NM_001174168
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCAGCAGCGGCATGGCTGACAGCGCCAACCACTGCCCTTCTTTTTCGGCAACATCACCCGGGAGG
 AGGCAGAAGATTACCTGGTCCAGGGGGGCATGAGTGATGGGCTTTATTTGCTGCGCCAGAGCCGCAACTA
 CCTGGGTGGCTTCGCCCTGTCCGTGGCCACGGGAGGAAGGCACACCACTACACCATCGAGCGGGAGCTG
 AATGGCACCTACGCCATCGCCGGTGGCAGGACCCATGCCAGCCCCGCGACCTCTGCCACTACCACTCCC
 AGGAGTCTGATGGCTGGTCTGCCTCCTCAAGAAGCCCTCAACCGGCCCAAGGGGTGCAGCCCAAGAC
 TGGGCCCTTTGAGGATTTGAAGGAAAACCTCATCAGGGAATATGTGAAGCAGACATGGAACCTGCAGGGT
 CAGGCTCTGGAGCAGGCCATCATCAGTCAGAAGCCTCAGCTGGAGAAGCTGATCGCTACCACAGCCCATG
 AAAAAATGCCTTGGTTCCATGAAAAATCTCTCGGAAGAATCTGAGCAAATGTCCTGATAGGATCAA
 GACAAATGAAAGTTCTGATCCGAGCCAGAGACAACAACGGCTCTACGCCCTGTGCCTGCTGCACGAA
 GGGAAAGTGTGCACTATCGCATCGACAAGACAAGACAGGGAAGCTCTCCATCCCCGAGGAAAGAAGT
 TCGACACGCTCTGGCAGCTAGTCGAGCATTATTCTTATAAAGCAGATGGTTTGTTAAGAGTCTTACTGT
 CCCATGTCAAAAAATCGGCACACAGGAAATGTTAATTTTGGAGGCCGTCCACAACCTCCAGGTTCCCAT
 CCTGCGTCTCCCTGCCAAGGGAACCGGCAAGAGAGTACTGTGTCATTCAATCCGTATGAGCCAGAAC
 TTGCACCTGGGCTGCAGACAAAGGCCCCAGAGAGAAGCCCTACCCATGGACACAGAGGTGTACGAGAG
 CCCCTACGCGGACCCCGAGGAGATCAGGCCAAGGAGGTTTACCTGGACCGAAAGCTGCTGACGCTGGAA
 GACAAAGAAGTGGGCTCTGGTAATTTTGAAGCTGTGAAAAAGGGCTACTACCAAATGAAAAAGTTGTGA
 AAACCGTGGCTGTGAAAAACTGAAAAACGAGGCCAATGACCCCGCTCTTAAAGATGAGTATTAGCAGA
 AGCAAATGTCATGCAGCAGCTGGACAACCCGTACATCGTGGGATGATCGGGATATGCGAGGCCGAGTCC
 TGGATGCTGGTTATGGAGATGGCAGAATTGGTCCCCTCAATAAGTATTTGCAGCAGAACAGACATGTCA
 AGGATAAGAACATCATAGAACTGGTTCATCAGGTTTCCATGGGCATGAAGTACTTGGAGGAGAGCAATTT
 TGTGCACAGAGATCTGGCTGCAAGAAATGTTGCTAGTTACCCAACATTACGCCAAGATCAGTGATTTT
 GGACTTTCCAAGCACTGCGTGTGATGAAAACTACTACAAGGCCAGACCCATGGAAAGTGGCCTGTCA
 AGTGGTACGCTCCGAATGCATCAACTACTACAAGTTCTCCAGCAAAGCGATGTCTGGAGCTTTGGAGT
 GTTGATGTGGGAAGCATTCTCCTATGGGCAGAAGCCATATCGAGGGATGAAAGGAAGTGAAGTACCCT
 ATGTTAGAAAAGGAGAGCGGATGGGGTCCCTGCAGGGTGTCCAAGAGAGATGTACGATCTCATGAATC
 TGTGCTGGACATACGATGTGAAAAACAGGCCCGGATTTCGACGAGTGGAACTGCGGCTGCCCAATTACTA
 CTATGACGTGGTGAAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG230346 representing NM_001174168
 Red=Cloning site Green=Tags(s)

MASSGMADSANHLPFFFGNITREEAEDYL VQGGMSDGLYLLRQSRNYLGGFAL SVAHGRKAHHTIEREL
 NGTYAIAGGRTHASPADLCHYHSQESDGLVCLLKPFNRPQGVQPKTGPFDLKENLIREYVKQTWNLQG
 QALEQAIISQKPQLEKLIATTAHEKMPWFHGKISRESEQIVLIGSKTNGKFLIRARDNNGSYALCLLHE
 GKVLHYRIDKDKTGKLSIPEGKKFDLWQLVEHYSYKADGLLRVLTVPCKIGTQGNVNFGRPQLPGSH
 PASSPAQGNRQESTVSFNPEPELAPWAADKGPQREALPMDTEVYESPYADPEEIRPKEVYLDRLKLLTLE
 DKELGSGNFGTVKKGYYQMKKVVKTVAVKILKNEANDPALKDELLEAEANVMQQLDNPYIVRMIGICEAES
 WMLVMEMAEELGPLNKYLQQRHVKDKNIIELVHQSVMGMKYLEESNFMVHRDLAARNVLLVTQHYAKISDF
 GLSKALRADENYYKAQTHGKWPVKWYAPECINYYKFSKSDVWSFGVLMWEAFSYGQKPYRGMKGSEVTA
 MLEKGERMGPAGCPREMYDLMNLCWTYDVENRPGFAAVELRLRNYYYDVVN

TRTRPLE – GFP Tag – V

Restriction Sites:

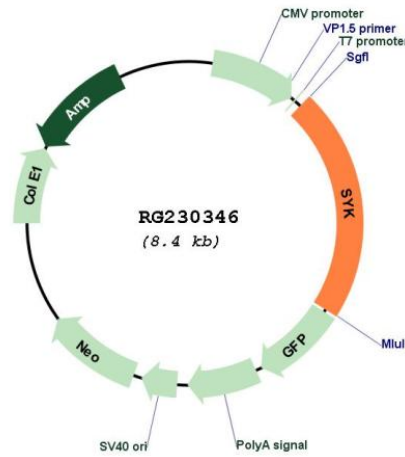
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001174168
 ORF Size: 1836 bp

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_001174168.3
RefSeq Size:	4927 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:	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]