

Product datasheet for SC116770

LCK (NM_005356) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LCK (NM_005356) Human Untagged Clone
Tag:	Tag Free
Symbol:	LCK
Synonyms:	IMD22; LSK; p56lck; pp58lck; YT16
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_005356 edited
 ATGGGCTGTGGCTGCAGCTCACACCCGGAAGATGACTGGATGGAAAACATCGATGTGTGT
 GAGAAGTCCATTATCCCATAGTCCCAGTGGATGGCAAGGGCAGCTGCTCATCCGAAAT
 GGCTCTGAGGTGCGGGACCCACTGGTTACCTACGAAGGCTCCAATCCGCCGGCTTCCCA
 CTGCAAGACAACCTGGTTATCGCTCTGCACAGCTATGAGCCCTCTCACGACGGAGATCTG
 GGCTTTGAGAAGGGGGAACAGCTCCGCATCCTGGAGCAGAGCGGCGAGTGGTGAAGGCG
 CAGTCCCTGACCACGGGCCAGGAAGGCTTCATCCCCTTCAATTTTGTGGCCAAAGCGAAC
 AGCCTGGAGCCCGAACCTGGTTCTTCAAGAACCTGAGCCGAAGGACGCGGAGCGGCAG
 CTCTGGCGCCCGGAACACTCACGGCTCCTTCCCTCATCCGGGAGAGCGAGACCCGCG
 GGATCGTTTTCTACTGTCGGTCCGGGACTTCGACCAGAACCAGGGAGAGTGGTGAACAT
 TACAAGATCCGTAATCTGGACAACGGTGGCTTCTACATCTCCCCTCGAATCACTTTTCCC
 GGCTGCATGAACTGGTCCGCCATTACACCAATGCTTCAGATGGGCTGTGCACACGGTTG
 AGCCGCCCTGCCAGACCAGAAGCCCCAGAAGCCGTGGTGGGAGGACGAGTGGGAGGTT
 CCCAGGGAGACGCTGAAGCTGGTGGAGCGGCTGGGGGCTGGACAGTTCGGGGAGGTGTGG
 ATGGGGTACTACAACGGGCACACGAAGGTGGCGGTGAAGAGCCTGAAGCAGGGCAGCATG
 TCCCCGGACGCCTTCTGGCCGAGGCCAACCTCATGAAGCAGCTGCAACACCAGCGGCTG
 GTTCGGCTCTACGCTGTGGTCACCCAGGAGCCCATCTACATCATCACTGAATACATGGAG
 AATGGGAGTCTAGTGGATTTTCTCAAGACCCCTTCAGGCATCAAGTTGACCATCAACAAA
 CTCCTGGACATGGCAGCCAAATTGCAGAAGGCATGGCATTCAATTGAAGAGCGGAATTAT
 ATTCATCGTGACCTTCGGGCTGCCAACATTCTGGTGTCTGACACCCTGAGCTGCAAGATT
 GCAGACTTTGGCCTAGCACGCCTCATTGAGGACAACGAGTACACAGCCAGGGAGGGGGCC
 AAGTTTCCATTAAGTGGACAGCGCCAGAAGCCATTAACACGGGACATTACCATCAAG
 TCAGATGTGTGGTCTTTTGGGATCCTGCTGACGAAAATTGTCACCCACGGCCGCATCCCT
 TACCCAGGGATGACCAACCCGAGGTGATTGAGAACCTGGAGCGAGGCTACCGCATGGT
 CGCCCTGACAAGTGTCCAGAGGAGCTGTACCAACTCATGAGGCTGTGCTGGAAGGAGCGC
 CCAGAGGACCGGCCACCTTTGACTACCTGCGCAGTGTGCTGGAGGACTTCTTCACGGCC
 ACAGAGGGCCAGTACCAGCTCAGCCTTGA



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_005356 unedited NGGATCACATGGGGTTATGTTAATACCCACTTCTTTATGAGGGCGGCACAAAACCTTCGGC ACGAGGTGAATGGGGCCAGAGGGCTCCCGGGCTGGGCAGGGACCATGGGCTGTGGCTGCA GCTCACACCCGGAAGATGACTGGATGGAACATCGATGTGTGTGAGAACTGCCATTATC CCATAGTCCCCTGGATGGCAAGGGCACGCTGCTCATCCGAAATGGCTCTGATGTGCGGG ACCCACTGGTTACCTACGAAGGCTCCAATCCGCCGGCTTCCCCACTGCAAGACAACCTGG TTATCGCTCTGCACAGCTATGAGCCCTCTCACGACGGAGATCTGGGCTTTGAGAAGGGGG AACAGCTCCGCATCCTGGAGCAGAGCGGCGAGTGGTGAAGGCGCAGTCCCTGACCACGG GCCAGGAAGGCTTCATCCCCTTCAATTTTGTGGCCAAAGCGAACAGCCTGGAGCCCGAAC CCTGGTTCTTCAAGAACCTGAGCCGCAAGGACGCGGAGCGGCAGCTCCTGGCGCCCGGA ACACTCACGGCTCCTTCTCATCCGGGAGAGCGAGAGCACCGCGGGATCGTTTTCACTGT CGGTCCGGGACTTCGACCAGAACCAGGGAGAGGTGGTGAACATTACAAGATCCGTAATC TGGACAACGGTGGCTTACATCTCCCCTCGAATCACTTTTCCCGCCTGCATGAACTGG TCCGCCATTACCAATGCTTCAGATGGGCTGTGCACACGGTTGAGCCGCCCTGCCAGA CCCAGAAGCCCCAGAAGCCGTGGTGGGAGACCAGTGNGAGGTTCCAGGGAGACGCTGA AGNNCTGTGNAGCGCTGGNGGCTGNACAGNNTCGGGAGGTGTGGATGGGGTACTACNNAC GGCACNACGAAGTGGCNGTGAAGAGCCTGAAGCAG
Restriction Sites:	NotI-NotI
ACCN:	NM_005356
Insert Size:	2300 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).
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_005356.2 , NP_005347.2
RefSeq Size:	2032 bp
RefSeq ORF:	1530 bp
Locus ID:	3932
UniProt ID:	P06239
Cytogenetics:	1p35.2
Domains:	ppkinase, SH2, TyrKc, SH3, S_TKc
Protein Families:	Druggable Genome, Protein Kinase, Stem cell - Pluripotency

Protein Pathways: Natural killer cell mediated cytotoxicity, Primary immunodeficiency, T cell receptor signaling pathway

Gene Summary: This gene is a member of the Src family of protein tyrosine kinases (PTKs). The encoded protein is a key signaling molecule in the selection and maturation of developing T-cells. It contains N-terminal sites for myristylation and palmitoylation, a PTK domain, and SH2 and SH3 domains which are involved in mediating protein-protein interactions with phosphotyrosine-containing and proline-rich motifs, respectively. The protein localizes to the plasma membrane and pericentrosomal vesicles, and binds to cell surface receptors, including CD4 and CD8, and other signaling molecules. Multiple alternatively spliced variants encoding different isoforms have been described. [provided by RefSeq, Aug 2016]
Transcript Variant: This variant (2) is transcribed from the distal type II promoter and contains a distinct 5' UTR compared to variant 1. Variants 1 and 2 encode the same isoform (a).