

Product datasheet for **RG219430**

LCK (NM_001042771) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LCK (NM_001042771) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LCK
Synonyms:	IMD22; LSK; p56lck; pp58lck; YT16
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG219430 representing NM_001042771
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGCTGTGGCTGCAGCTCACACCCGGAAGATGACTGGATGGAAAACATCGATGTGTGTGAGAAGTCC
 ATTATCCCATAGTCCCACTGGATGGCAAGGGCAGCTGCTCATCCGAAATGGCTCTGAGGTGCGGGACCC
 ACTGGTTACCTACGAAGGCTCCAATCCGCCGGCTTCCCCACTGCAAGACAACCTGGTTATCGCTCTGCAC
 AGCTATGAGCCCTCTCACGACGGAGATCTGGGCTTTGAGAAGGGGGAACAGCTCCGCATCTGGAGCAGA
 GCGGGCAGTGGTGAAGGCGCAGTCCCTGACCACGGGCCAGGAAGGCTTCATCCCCTTCAATTTTGTGGC
 CAAAGCGAACAGCCTGGAGCCCGAACCTGGTTCTTCAAGAACCTGAGCCGCAAGGACGCGGAGCGGCAG
 CTCTGGCGCCCGGAACACTCACGGCTCCTTCTCATCCGGGAGAGCGAGAGCACCGCGGGATCGTTTT
 CACTGTCGGTCCGGGACTTCGACCAGAACCAGGGAGAGGTGGTGAACATTACAAGATCCGTAATCTGGA
 CAACGGTGGCTTCTACATCTCCCCTCGAATCACTTTTCCGGCCTGCATGAACTGGTCCGCCATTACACC
 AATGCTTCAGATGGGCTGTGCACACGGTTGAGCCGCCCTGCCAGACCCAGAAGCCCGAGAAGCCGTGGT
 GGGAGGACGAGTGGGAGGTTCCAGGGAGACGCTGAAGCTGGTGGAGCGGCTGGGGGCTGGACAGTTCGG
 GGAGGTGTGGATGGGTTACTACAACGGGCACACGAAGGTGGCGGTGAAGAGCCTGAAGCAGGGCAGCATG
 TCCCCGGACGCCTTCTGGCCGAGGCCAACCTCATGAAGCAGCTGCAACACCAGCGGCTGGTTCCGGCTCT
 ACGCTGTGGTCACCCAGGAGCCCATCTACATCACTGAATACATGGAGAATGGGAGTCTAGTGGATTT
 TCTCAAGACCCCTCAGGCATCAAGTTGACCATCAACAACTCCTGGACATGGCAGCCCAAATTCAGAA
 GGCATGGCATTTCATTGAAGAGCGGAATTATATTCATCGTGACCTTCGGGCTGCCAACATTCTGGTGTCTG
 ACACCTGAGCTGCAAGATTGCAGACTTTGGCCTAGCACGCCTCATTGAGGACAACGAGTACACAGCCAG
 GGAGGGGCCAAGTTTCCATTAAAGTGGACAGCGCCAGAAGCCATTAACACTACGGGACATTACCATCAAG
 TCAGATGTGTGGTCTTTTGGATCCTGCTGACGAAAATTGTCACCCACGGCCGCATCCCTTACCCAGGGA
 TGACCAACCCGGAGGTGATTCAGAACCTGGAGCGAGGCTACCGCATGGTGCGCCCTGACAACTGTCCAGA
 GGAGCTGTACCAACTCATGAGGCTGTGCTGGAAGGAGCGCCAGAGGACCGGCCACCTTTGACTACCTG
 CGCAGTGTGCTGGAGGACTTCTTACGGCCACAGAGGGCCAGTACCAGCCTCAGCCT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG219430 representing NM_001042771
 Red=Cloning site Green=Tags(s)

MGCGCSSHPEDDWMENIDVCENCHYPIVPLDGKGTLLIRNGSEVRDPLVTYEGSNPPASPLQDNLVIALH
 SYEPSHDGDLGFEKGEQLRILEQSGEWWKAQSLTTGQEGFIPFNFVAKANSLEPEPWFFKNLSRKDAERQ
 LLAPGNTHGSFLIRESESTAGSFSLSVRDFDQNGEVVKHYKIRNLDNGGFYISPRITFPGLHELVRHYT
 NASDGLCTRLSRPCQTQKPQPWWEDEWEVPRETLKLVRLGAGQFGEVVMGYNGHTKVAVKSLKQGS
 SPDAFLAEANLMKQLQHQRVRLYAVVTQEPYIYIITEYMENGLVDFLKTSPGKILTKINKLLDMAAQIAE
 GMAFIEERNYIHRDLRAANILVSDTLCKIADFLARLIEDNEYTAREGAKFPIKWTAPEAINYGTFTIK
 SDVWSFGILLTEIVTHGRIPYPGMTNPEVIQNLERGYRMVRPDCPEELYQLMRLCWKERPEDRPTFDYL
 RSVLEDFFTATEGQYQPQP

TRTRPLE – GFP Tag – V

Chromatograms:

https://cdn.origene.com/chromatograms/ja1899_g07.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001042771

ORF Size: 1527 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:

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_001042771.2](#), [NP_001036236.1](#)

RefSeq Size: 2118 bp

RefSeq ORF: 1530 bp

Locus ID: 3932

UniProt ID: [P06239](#)

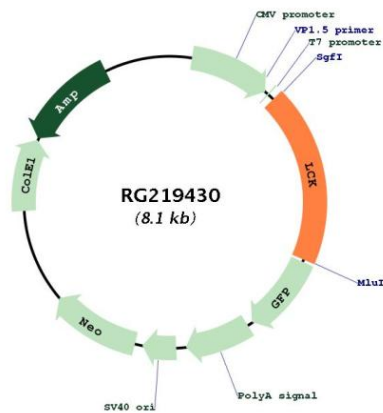
Cytogenetics: 1p35.2

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 palmylation, 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]

Product images:



Circular map for RG219430