

Product datasheet for **SC300542**

LYK5 (STRADA) (NM_001003788) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LYK5 (STRADA) (NM_001003788) Human Untagged Clone
Tag:	Tag Free
Symbol:	LYK5
Synonyms:	LYK5; NY-BR-96; PMSE; Stlk; STRAD; STRAD alpha
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC300542 representing NM_001003788. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTGTAGTAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG
 GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**
 ATGAGTAGCTTTCTGCCAGAGGGAGGGTGTACGAGCTGCTCACTGTGATAGGCAAAGGATTTGAGGAC
 CTGATGACTGTGAATCTAGCAAGGTACAAACCAACAGGAGAGTACGTGACTGTACGGAGGATTAACCTA
 GAAGCTTGTTCGAATGAGATGGTAACATTCTTGCAGGGCGAGCTGCATGTCTCCAACTCTTCAACCAT
 CCCAATATCGTGCCATATCGAGCCACTTTATTGCAGACAATGAGCTGTGGGTTGTCACATCATTTCATG
 GCATACGGTTCTGCAAAAGATCTCATCTGTACACACTTCATGGATGGCATGAATGAGCTGGCGATTGCT
 TACATCCTGCAGGGGGTCTGAAGGCCCTCGACTACATCCACCACATGGGATATGTACACAGGAGTGTC
 AAAGCCAGCCACATCCTGATCTCTGTGGATGGGAAGGTCTACCTGTCTGGTTTGCAGCAACCTCAGC
 ATGATAAGCCATGGGCAGCGGCAGCGAGTGGTCCACGATTTTCCAAGTACAGTGTAAGGTTCTGCCG
 TGGCTCAGCCCCGAGGTCTCCAGCAGAATCTCCAGGGTTATGATGCCAAGTCTGACATCTACAGTGTG
 GGAATCACAGCCTGTGAAGTGGCAACGGCCATGTCCCTTTAAGGATATGCCTGCCACCCAGATGCTG
 CTAGAGAACTGAACGGCAGTGCCTGCCTGTTGGATACCAGCACCATCCCGCTGAGGAGCTGACC
 ATGAGCCCTTCGCGCTCAGTGGCCAACCTCTGGCCTGAGTGACAGCCTGACCACAGCACCCTCCGGCCC
 TCCAACGGTGACTCGCCCTCCACCCCTACCACCGAACCTTCTCCCCCACTTCCACCACCTTTGTGGAG
 CAGTGCCTTCAGCGCAACCCGGATGCCAGGCCAGTGCCAGCACCCTCTGAACCACTCTTCTTCAAG
 CAGATCAAGCGACGTGCCTCAGAGGCTTTGCCCGAATTGCTTCGTCTGTCAACCCCATCACCAATTTT
 GAGGGCAGCCAGTCTCAGGACCACAGTGAATCTTTGGCCTGGTAACAAACCTGGAAGAGCTGGAGGTG
 GACGATTGGGAGTTC**TGA**
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites: SgfI-MluI



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ACCN:	NM_001003788
Insert Size:	1122 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:	<u>NM_001003788.2</u>
RefSeq Size:	2338 bp
RefSeq ORF:	1122 bp
Locus ID:	92335
UniProt ID:	<u>Q7RTN6</u>
Cytogenetics:	17q23.3
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	mTOR signaling pathway
MW:	41.7 kDa

Gene Summary:

The protein encoded by this gene contains a STE20-like kinase domain, but lacks several residues that are critical for catalytic activity, so it is termed a 'pseudokinase'. The protein forms a heterotrimeric complex with serine/threonine kinase 11 (STK11, also known as LKB1) and the scaffolding protein calcium binding protein 39 (CAB39, also known as MO25). The protein activates STK11 leading to the phosphorylation of both proteins and excluding STK11 from the nucleus. The protein is necessary for STK11-induced G1 cell cycle arrest. A mutation in this gene has been shown to result in polyhydramnios, megalencephaly, and symptomatic epilepsy (PMSE) syndrome. Multiple transcript variants encoding different isoforms have been found for this gene. Additional transcript variants have been described but their full-length nature is not known. [provided by RefSeq, Sep 2009]

Transcript Variant: This variant (4) lacks an alternate in-frame exon in the 5' coding region, compared to variant 1. The resulting isoform (4) lacks an internal segment near the N-terminus, compared to isoform 1.