

Product datasheet for RC228232

LYK5 (STRADA) (NM_001165970) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LYK5 (STRADA) (NM_001165970) Human Tagged ORF Clone
Tag:	Myc-DDK
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)
ORF Nucleotide Sequence:	<p>>RC228232 representing NM_001165970</p> <p>Red=Cloning site Blue=ORF Green=Tags(s)</p>

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGTCATTTCTTGTAAGTAAACCAGAGCGAATCAGGCGGTGGTCTCGGAAAAGTTCATTGTTGAGGGCT
 TAAGAGATTTGGAATTTTGGAGGCAAAGGATTTGAGGACCTGATGACTGTGAATCTAGCAAGGTACAA
 ACCAACAGGAGAGTACGTGACTGTACGGAGGATTAACCTAGAAGCTTGTCCAATGAGATGGTAACATTC
 TTGCAGGGCGAGCTGCATGTCTCAAACCTCTCAACCATCCCAATATCGTGCCATATCGAGCCACTTTTA
 TTGCAGACAATGAGCTGTGGTTGTACATCATTATGCATACGTTCTGCAAAAGATCTCATCTGTAC
 ACATTTTCATGGATGGCATGAATGAGCTGGCGATTGCTTACATCCTGCAGGGGGTGTGAAGGCCCTCGAC
 TACATCCACCACATGGGATATGTACACAGGAGTGTCAAAGCCAGCCACATCCTGATCTCTGTGGATGGGA
 AGGTCTACCTGTCTGTTTGCAGCAACCTCAGCATGATAAGCCATGGGCAGCGGCAGCGAGTGGTCCA
 CGATTTTCCCAAGTACAGTGTCAAGTTTCTGCCGTGGCTCAGCCCCGAGGTCTCCAGCAGAATCTCCAG
 GGTTATGATGCCAAGTCTGACATCTACAGTGTGGGAATCACAGCCTGTGAACTGGCCAACGGCCATGTCC
 CCTTTAAGGATATGCCTGCCACCCAGATGCTGCTAGAGAACTGAACGGCACAGTGCCCTGCCTGTTGGA
 TACCAGCACCATCCCCGCTGAGGAGCTGACCATGAGCCCTTCGCGCTCAGTGCCCAACTCTGGCCTGAGT
 GACAGCCTGACCACCAGCACCCCCGGCCCTCCAACGGCCAGTGCCAGCACCCCTCC

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC228232 representing NM_001165970

Red=Cloning site Green=Tags(s)

MSFLVSKPERIRRWVSEKIVEGLRDLELFGGKGFEDLMTVNLARYKPTGEYVTVRRINLEACSNEMVTF
LQGLHVSKLFNHPNIPYRATFIADNELWVVTSMAYGSAKDLICTHFM DGMNELAIAYILQGVVKALD
YIHMGYVHRSVKASHILISVDGKYYLSGLRSNLSMISHGQRQRVVDHFPKYSVKVLPWLSPEVLQQNLQ
GYDAKTSIYSGVIGTACELANGHVFPKDMPATQMLLEKLN GTVPCLLDTSTIPAEELTMSPSRSVANSGLS
DSLTDSTIRPNSNGPAPACS

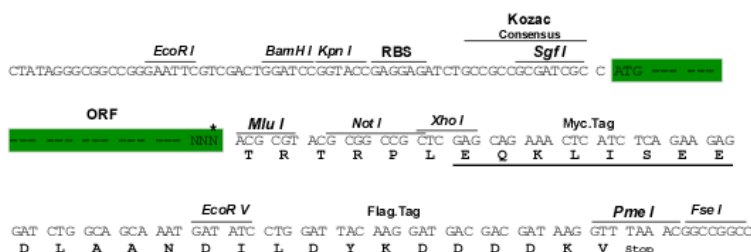
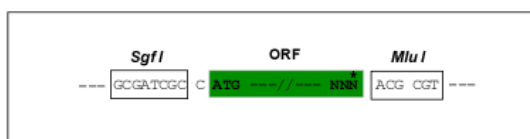
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8050_f01.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM 001165970

ORF Size: 897 bp

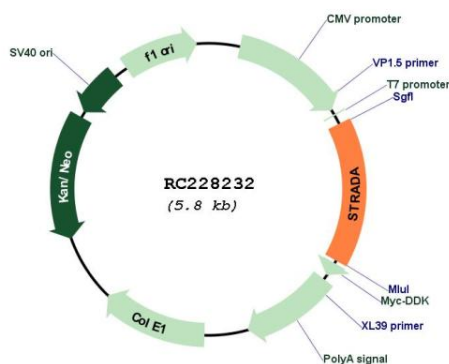
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

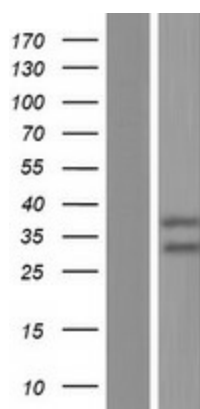
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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:	<u>NM_001165970.2</u>
RefSeq ORF:	900 bp
Locus ID:	92335
UniProt ID:	<u>Q7RTN6</u>
Cytogenetics:	17q23.3
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	mTOR signaling pathway
MW:	33.1 kDa
Gene Summary:	<p>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]</p>

Product images:



Circular map for RC228232



Western blot validation of overexpression lysate (Cat# [LY431260]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC228232 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).