

## Product datasheet for RC214029L3

### OriGene Technologies, Inc.

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# LYK5 (STRADA) (NM\_153335) Human Tagged Lenti ORF Clone

#### **Product data:**

**Product Type:** Expression Plasmids

Product Name: LYK5 (STRADA) (NM\_153335) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: LYK5

Synonyms: LYK5; NY-BR-96; PMSE; Stlk; STRAD; STRAD alpha

Mammalian Cell Puromycin

Selection:

**Vector:** pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

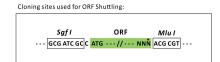
ORF Nucleotide The ORF insert of this clone is exactly the same as(RC214029).

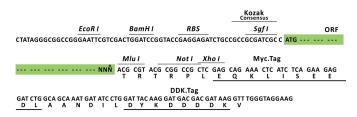
Sgfl-Mlul

Sequence:

Cloning Scheme:

**Restriction Sites:** 





<sup>\*</sup> The last codon before the Stop codon of the ORF.

**ACCN:** NM\_153335

ORF Size: 1044 bp



## LYK5 (STRADA) (NM\_153335) Human Tagged Lenti ORF Clone - RC214029L3

**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:** <u>NM 153335.4</u>

 RefSeq Size:
 2658 bp

 RefSeq ORF:
 1047 bp

 Locus ID:
 92335

 UniProt ID:
 Q7RTN6

Cytogenetics:

**Domains:** pkinase, TyrKc, S TKc

**Protein Families:** Druggable Genome, Protein Kinase

17q23.3

**Protein Pathways:** mTOR signaling pathway

MW: 38.4 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]