

Product datasheet for **SC100826**

LYK5 (STRADA) (NM_153335) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | LYK5 (STRADA) (NM_153335) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | LYK5 |
| Synonyms: | LYK5; NY-BR-96; PMSE; Stlk; STRAD; STRAD alpha |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Fully Sequenced ORF: | >OriGene ORF within SC100826 sequence for NM_153335 edited (data generated by NextGen Sequencing) |

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ATGTCATTTCTTACCAATGATGCGAGCTCAGAGTCAATAGCATCCTTCTCTAAACAGGAG
GTCATGAGTAGCTTTCTGCCAGAGGGAGGGTGTACGAGCTGCTCACTGTGATAGCAAA
GGATTTGAGGACCTGATGACTGTGAATCTAGCAAGGTACAAACCAACAGGAGAGTACGTG
ACTGTACGGAGGATTAACCTAGAACTTGTTCATGAGATGGTAACATTCTTGCAGGGC
GAGCTGCATGTCTCAAACCTCTCAACCATCCCAATATCGTGCCATATCGAGCCACTTTT
ATTGCAGACAATGAGCTGTGGGTGTGCACATCATTGATGGCATAACGGTTCTGCAAAAGAT
CTCATCTGTACACACTTCATGGATGGCATGAATGAGCTGGCGATTGCTTACATCCTGCAG
GGGGTGTGAAGGCCCTCGACTACATCCACCACATGGGATATGTACACAGGAGTGTCAA
GCCAGCCACATCCTGATCTCTGTGGATGGGAAGGTCTACCTGTCTGGTTTGCCGAGCAAC
CTCAGCATGATAAGCCATGGGCAGCGGCAGCGAGTGGTCCACGATTTTCCCAAGTACAGT
GTCAAGGTTCTGCCGTGGCTCAGCCCCGAGGTCCTCCAGCAGAATCTCCAGGGTTATGAT
GCCAAGTCTGACATCTACAGTGTGGGAATCACAGCCTGTGAACTGGCCAACGGCCATGTC
CCCTTTAAGGATATGCCTGCCACCCAGATGCTGCTAGAGAAACTGAACGGCACAGTGCC
TGCTGTGGATACCAGCACCATCCCCGCTGAGGAGCTGACCATGAGCCCTTCGCGCTCA
GTGGCCAACCTCTGGCCTGAGTGACAGCCTGACCACCAGCACCCCCGGCCCTCCAACGGT
GACTCGCCCTCCACCCCTACCACCGAACCTTCTCCCCCACTTCCACCCTTTGTGGAG
CAGTGCCCTCAGCGCAACCCGGATGCCAGGTATCCCTGCTGGCCTGGGCTGGGCTTCGG
GAGAGCAGAGGGTGCTCAGGAGGGTAA

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Clone variation with respect to NM_153335.5



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| 5' Read Nucleotide Sequence: | >OriGene 5' read for NM_153335 unedited AAACGCAATTTCGCACGAGGCTCCCCTCCCAGCAACCGTCTGGCGGCGGCGGCAGTAA AACTGAGGAGGCGGAGCCAAGACGGTCGGGGCTGCTTGCTAACTCCAGGAACAGGTTTAA GTTTTTGAACCTGAAGTAGGCTACACAGTAGGAACTCATGTCAATTTCTTGTAAAGTAAAC CTTAGCGAATCAGGACCAATGATGCGAGCTCAGAGTCAATAGCATCCTTCTCTAAACAGG AGGTCATGAGTAGCTTTCTGCCAGAGGGAGGTGTACGAGCTGCTCACTGTGATAGGCA AAGGATTTGAGGACCTGATGACTGTGAATCTAGCAAGGTACAAACCAACAGGAGAGTACG TGACTGTACGGAGGATTAACCTAGAAGCTTGTCCAATGAGATGGTAACATTCTTGCAAGG GCGAGCTGCATGTCTCCAACTCTTCAACCATCCAATATCGTGCCATATCGAGCCACTT TTATTGCAGACAATGAGCTGTGGTTGTACATCATTTCATGGCATACGGTTCTGCAAAAG ATCTCATCTGTACACACTTCATGGATGGCATGAATGAGCTGGCGATTGCTTACATCCTGC AGGGGGTCTGAAGGCCCTCGACTACATCCACCACATGGGATATGTACACAGGAGTGCA AAGCCAGCCACATCCTGATCTCTGTGGATGGGAAGGTCTACCTGTCTGGTTTGCAGCA ACCTCAGCATGATAAGCCATGGGCAGCGCAGCGAGTGGTCCACGATTTTCCAAGTACA GTGTCAAGGTTCTGCCGTGGCTCAGCCCGAGTCTCCAGCAGAATCTNCAGGGTTATGA TGCCAAGTCTGACAA |
| 3' Read Nucleotide Sequence: | >OriGene 3' read for NM_153335 unedited CGACGAAAATTCGGCTTCTCTGANAAATATTTAATTTGTTNCTGNACAACGNAACTAA CACAGCATAAGGACTTAAGCCCTCAAGCTAGGCAAGACTGATGGCCCTTGGAGAAAGC ACCAGGGCAGCTGGCAGGAGGCGCTAAGATGGATTCTTGGTGGGAAAGGAATGAGGCACA CACATAAACCGTGGGAAAGACTTAGGTGTCAGGGCCCAAGCCAGAAGAGGATAAGGATG GACTGTTCCAGCCTTAGTCTGTGCTTAAAAAGACAGAAATGCCCTTCTCTGGAATTATGA GGGAGAGGTCTGAGGGAAGGGAGGCAGGCACTTACTACTTGCCCTTCTACTGACCTATA GCATCTGAGGCATCTGAGAGCAAAGTTAAATAGAATGAGGCTGGTCGCAAGCACTGGGAA GAGGTGGCGGTCCTCGGGTTTAAGGAGCCAAACCCTGGGCTTGAATTGAGCTCCAGGG CCAGAGCAGCATCTCTTCTGCGGAGGAGGTCACCTGAGCTCACAGGACTGGGAATGTC GGCTTTGGACCCTCCTGATCCCTGGTTGTTGAGATTCCCTTGTGTCTCANAAGCCTTGG GCAGTGAAGTGTCTCTCCAGGATTTTCTTTCCCAATCAGTCAGCAGTCACTTTCTGGA AGATGTCTTTCTACCAATCTGCCAGGAGGGCGGGAATGTGGCCGGCCCTCAGAAGGG CCTCTGGGTGGCCTCTGCATCCCTGGCTGGAGATGCGCACAGTTTGCAGAGGCTCAGAAC TCCAATCGTCCAACCTCAGCTTCCAGGTTTGTACCAGGCCAAAGATTCACTGTGGT CCTGAGACTGGCTGCCCTCAAATGGTGTGGGGTGACAGGACGAAGCAATTCGGCCAA ACCTCTGAGGC |
| Restriction Sites: | NotI-NotI |
| ACCN: | NM_153335 |
| Insert Size: | 3000 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). |

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| 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_153335.4 , NP_699166.2 |
| RefSeq Size: | 2658 bp |
| RefSeq ORF: | 1047 bp |
| Locus ID: | 92335 |
| UniProt ID: | Q7RTN6 |
| Cytogenetics: | 17q23.3 |
| Domains: | pkinase, TyrKc, S_TKc |
| Protein Families: | Druggable Genome, Protein Kinase |
| Protein Pathways: | mTOR signaling pathway |
| 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> <p>Transcript Variant: This variant (3) uses an alternate splice site and lacks two alternate exons in the 5' coding region, and uses an alternate splice pattern in the 3' coding region and 3' UTR, compared to variant 1. The resulting isoform (3) lacks an internal segment near the N-terminus and has a shorter and distinct C-terminus, compared to isoform 1.</p> |