

Product datasheet for RC214937

MYLK4 (NM_001012418) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MYLK4 (NM_001012418) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MYLK4
Synonyms:	SgK085
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC214937 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

ATGTTAAAAGTGAAGAGGCTGGAAGAATCAACACGTGTATAACAGCAACCAGCTGGAGAAAATGGCCTTTTTTCAGTGCAGGGAAGAGGTGGAGAAAGTGAAGTGTTCGGAAAAAATCTGGGGACCAGGATCAAGATCTAGACATAATGAGGCGAAGGAGGTGTGGTCAAACGCCGACCTGACGGAAAGGATGCCCGTCAAAAGCAAAAGGACATCAGCCCTCGCAGTTGACATCCCGGCTCCTCCGGCCCCATTTGATCATCGTATTGTGACAGCCAAGCAAGGAGCGGTCAACAGCTTCTATACTGTGAGCAAGACAGAAATCCTAGGAGGAGGGCGTTTCGGCCAGGTTACAAGTGTGAGGAGACGCCACAGGTCTGAAGCTGGCAGCCAAAATCATCAAGACCAGAGGCATGAAGGACAAGGAGGAGGTGAAGAACGAGATCAGCGTCATGAACCAGCTGGACCACCGGAACCTCATCCAGCTGTACGATGCCTTCGAGTCTAAGAACGACATTGTCTGGTTCATGGAGTATGTGGATGGTGGGAGCTGTTTGACCGCATCATCGATGAGAGCTACAATTTGACGGAGCTTGATACCATCCTGTTTCATGAAGCAGATATGTGAGGGGATAAGGCACATGCATCAGATGTACATTCTCCACTTGGACCTGAAGCCTGAGAATATCCGTGTGTGAATCGGGATGCTAAGCAAATAAAAAATTATTGATTTGGATTGGCCAGAAGATACAAACCCAGAGAGAAGCTGAAGGTGAACCTTTGGAACCCAGAATTTCTCGCCCTGAAGTTGTGAACATGATTTTGTTCATTTCCACTGACATGTGGAGTGTGGGGTCATCGCCTATATGCTACTAGCGGTTTGTCCGCTTCCGGTGACAATGATGCTGAGACGCTGAACAACATCCTGGCTGCAGGTGGGACTTAGAGGATGAAGAATTTCAGGACATCTCGGAGGAGGCCAAGGAGTTCATCTCTAAGCTTCTGATTAAAGGAGAAGAGTTGGCGAATAAGTGCAAGCGAAGCTCTCAAGCACCCCTGGTTGTGACACCACAAGCTCCACTCCAGACTCAATGCCCAGAGAAGAAGAATCGTGGCTCTGATGCCCAGGACTTTGTGACCAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC214937 protein sequence
 Red=Cloning site Green=Tags(s)

MLKVKRLEEFNTCYNSNQLEKMAFFQCREEVEKVKCFLEKNSGDQDSRSRHEAKEVWSNADLTERMPVK
 SKRTSALAVDIPAPPAPFDHRIVTAKQGA VNSFYTVSKTEILGGGRFGQVHKCEETATGLKLAAKIIKTR
 GMKDKEEVKNEISVMNQLDHANLIQLYDAFESKNDIVLVMEYVDGGELFDRIIDESYNLTDLTILFMKQ
 ICEGIRHMHQMYILHLDLKPENILCVNRDAKQIKIIDFGLARRYKPRELKVNFGTPEFLAPEVVNYDFV
 SFPTDMWSVGVIA YMLLSGLSPFLGDNDAETLNNILACRWDLEDEEFQDI SEEAKEFI SKLLIKEKSWRI
 SASEALKHPWLS DHKLSR LNAQKK KNRGSDA QDFVTK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6470_h07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001012418

ORF Size: 1164 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_001012418.5](#)

RefSeq Size: 5760 bp

RefSeq ORF: 1167 bp

Locus ID: 340156

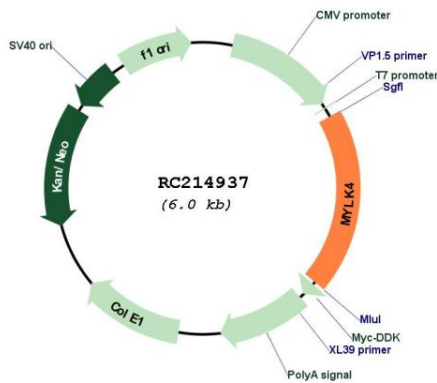
UniProt ID: [Q86YV6](#)

Cytogenetics: 6p25.2

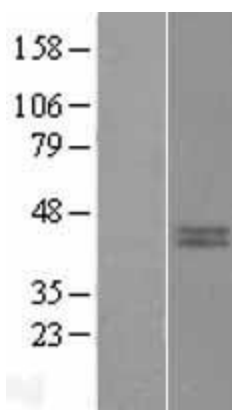
Protein Families: Druggable Genome, Protein Kinase

MW: 44.6 kDa

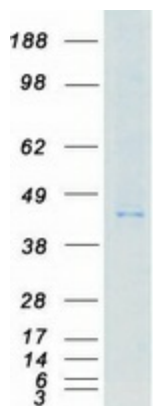
Product images:



Circular map for RC214937



Western blot validation of overexpression lysate (Cat# [LY422856]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC214937 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified MYLK4 protein (Cat# [TP314937]). The protein was produced from HEK293T cells transfected with MYLK4 cDNA clone (Cat# RC214937) using MegaTran 2.0 (Cat# [TT210002]).