

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
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC214937 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTTAAAAGTGAAGAGGCTGGAAGAATCAACACGTGTTATAACAGCAACCAGCTGGAGAAAATGGCCT
TTTTTCAGTGCAGGGAAGAGGTGGAGAAAGTGAAGTGTTCCTGGAAAAAATCTGGGGACCAGGATTC
AAGATCTAGACATAATGAGGCGAAGGAGGTGTGGTCAAACGCCGACCTGACGGAAAGGATGCCCGTCAAA
AGCAAAAGGACATCAGCCCTCGCAGTTGACATCCCGGCTCCTCCGGCCCCATTTGATCATCGTATTGTGA
CAGCCAAGCAAGGAGCGGTCAACAGCTTCTATACTGTGAGCAAGACAGAAATCCTAGGAGGAGGGCGTTT
CGGCCAGGTTCACAAGTGTGAGGAGACGGCCACAGGTCTGAAGCTGGCAGCCAAAATCATCAAGACCAGA
GGCATGAAGGACAAGGAGGAGGTGAAGAACGAGATCAGCGTCAATGAACCAGCTGGACCACGCGAACCTCA
TCCAGCTGTACGATGCCTTCGAGTCTAAGAACGACATTGTCTGGTCAATGGAGTATGTGGATGGTGGGA
GCTGTTTGACCGCATCATCGATGAGAGCTACAATTTGACGGAGCTTGATACCATCCTGTTTCATGAAGCAG
ATATGTGAGGGGATAAAGGCACATGCATCAGATGTACATTCTCCACTTGGACCTGAAGCCTGAGAATATCC
TGTGTGTAATCGGGATGCTAAGCAAATAAAAATTATTGATTTTGGATTGGCCAGAAGATACAAACCCAG
AGAGAAGCTGAAGGTGAACCTTTGGAACCCAGAAATTTCTCGCCCTGAAGTTGTGAACTATGATTTTGT
TCAATTTCCCACTGACATGTGGAGTGTGGGGTTCATCGCCTATATGCTACTTAGCGGTTTGTGCGCTTTCC
TGGGTGACAATGATGCTGAGACGCTGAACAACATCCTGGCCTGCAGGTGGGACTTAGAGGATGAAGAATT
TCAGGACATCTCGGAGGAGGCCAAGGAGTTCATCTCTAAGCTTCTGATTAAGGAGAAGAGTTGGCGAATA
AGTGCAAGCGAAGCTCTCAAGCACCCCTGGTTGTCAGACCACAAGCTCCACTCCAGACTCAATGCCCAGA
AGAAGAAGAAATCGTGGCTCTGATGCCAGGACTTTGTGACCAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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

MLKVKRLEEFNTCYNSNQLKMAFFQCREEVEKVKCFLEKNSGDQDSRSRHNEAKEVWSNADLTERMPVK
 SKRTSALAVDIPAPPAPFDHRIVTAKQGAVNSFYTVSKTEILGGGRFGQVHKCEETATGLKLAAKIIKTR
 GMKDKEEVKNEISVMNQLDHANLIQLYDAFESKNDIVL VMEYVDGGELFDRIIDESYNL TELDTILFMKQ
 ICEGIRHMHQMYILHLDLKPENILCVNRDAKQIKIIDFGLARRYKPREKLKVNFGTPEFLAPEVVNYDFV
 SFPTDMWSVGVIA YMLLSGLSPFLGDND AETLNNILACRWDL EDEFQDI SEEAKEFISKLLIKEKSWRI
 SASEALKHPWLS DHKLSRLNAQKKNRGSDAQDFVTK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

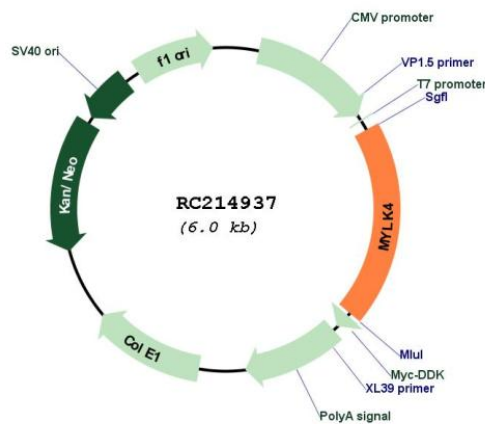
Chromatograms: https://cdn.origene.com/chromatograms/mk6470_h07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

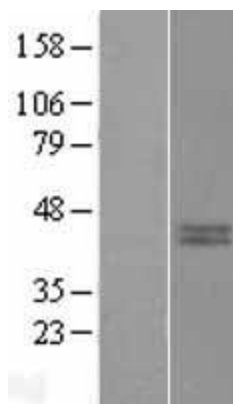


Plasmid Map:

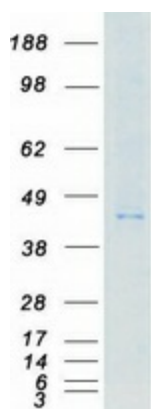


ACCN:	NM_001012418
ORF Size:	1164 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its 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:	<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_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:



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]).