

Product datasheet for **RC216168**

MLK4 (MAP3K21) (NM_032435) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MLK4 (MAP3K21) (NM_032435) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MLK4
Synonyms:	dj862P8.3; MLK4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC216168 representing NM_032435 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTTTGCGGGGCGCCGGGAGCGACCCCGGTGTCCTCGGCCGGGGAGCCCCGGCGGCT
CAGCGTCTCGTCGTCCACCTCCTCGGGCGGCTCGGCCTCGGCCGGCGCGGGGCTGTGGGCCGCGTCTA
TGACTACGAGGCTCGGGCGAGGACGAGCTGAGCCTCGGCCGGCCAGCTGGTGGAGGTGCTGTCGCAG
GACGCCCGGTGTCGGGCGACGAGGGCTGGTGGCAGGCCAGGTGCAGCGGCCCTCGGCATCTTCCCCG
CCAACACTAGTGGCTCCCTGCCGCCGGCCAGCCCCGCGCCGCCCTCGCGGCCAGCTCCCCGGT
ACACGTCGCCTTCGAGCGGCTGGAGCTGAAGGAGCTCATCGGCCGTGGGGCTTCGGGCAGGTGTACCGC
GCCACCTGGCAGGGCCAGGAGGTGGCCGTGAAGGCGGCGCCAGGACCCGGAGCAGGACGCGGGCGCG
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CGCACGTGCTGGTCAACTGGGCCGTGCAGATAGCGGGGCGATGCTCTACCTGCATGAGGAGGCTTCGT
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CCCAAGGTAAAGAAGAGGAAGGGCAAGTTAAGAGAAGTCGTTTAAAGCTCAAAGATGGACATCGAATCA
GTTTACCTTCAGATTTCCAGCACAAAGATAACCGTGCAGGCCTCTCCCACTTGGACAAACGGCGGAGCCT
GAACAGCAGCAGTTCAGTCCCCGAGCAGCCCCACAATGATGCCCGACTCCGAGCCATACAGTTGACT
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CATCCCACCAATTCTCTCGTGCCAAGGAGAGAATAAATCCCATGTGCCTTCTTACTGGATGCTGACG
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC216168 representing NM_032435
 Red=Cloning site Green=Tags(s)

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MALRGAAGATDTPVSSAGGAPGGSASSSTSSGGSASAGAGLWAALYDYEARGEDELSLRGQLVEVLSQ
DAAVSGDEGWAGQVQRRLGIFPANYVAPCRPAASPAPPPSRPSSPVHVAFERLELKLIGAGGFQVYR
ATWQGEVAVKAAARQDPEQDAAAAAESVRREARLFAMLRHPNIIELRGVCLQQPHLCLVLEFARGGALNR
ALAAANAAPDPRAPGPRRARRIPPHVLVNWAVQIARGMLYLHEEAFVPIIHRDLKSSNILLLEKIEHDDI
CNKTLKITDFGLAREWHRTTKMSTAGTYAWMAPEVIKSSLFSKGSDIWSYGVLLWELLTGEVPHYRIDGL
AVAYGVAVNKLTLPIPSTCPEPFKLMKECWQDPHIRPSFALILEQLTAIEGAVMTEMPQESFHSMQDD
WKLEIQMFDELRTKEKELRSREEELTRAAALQQKSQEELLKRREQLAEREIDVLERELNILIFQLNQEK
PKVKKRKGKFKRSRLKLDGHRISLPSDFQHKITVQASPNLDRSLNSSSSSPSSPTMMPRLRAIQLT
SDESNKTWGRNTVFRQEEFEDVKRNFKKKGTWGPNSIQMKDRDTCERIRPLSDGNPSTILIKNQKT
MPLASLFVDQPGSCEEPKLSPDGLEHRKPKQIKLPSQAYIDLPLGKDAQRENPAEASWEEAASANAATV
SIEMTPTNSLSRSPQRKKTESALYGCTVLLASVALGLDLRELHKAQAAEEPLPKEEKKKREGIFQRASKS
RRSASPSTSLPSTCGEASSPPLPLSSALGILSTPSFSTKCLLQMDSEDPLVDSAPVTCDEMLTPDFCP
TAPGSGREPALMPRLDTCVSRNLPSFLQQTGCVNYPCASSKHRPSSHRRMTSDGNPTPTGATIIISAT
GASALPLCPSAPHSHLPREVSPKKHSTVHIIPQRRPASLRSRSDLPPQAYPQTAVSQAQTACVVGRRPGP
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_032435

ORF Size: 3108 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_032435.3](#)

RefSeq Size: 4667 bp

RefSeq ORF: 3111 bp

Locus ID: 84451

UniProt ID: [Q5TCX8](#)

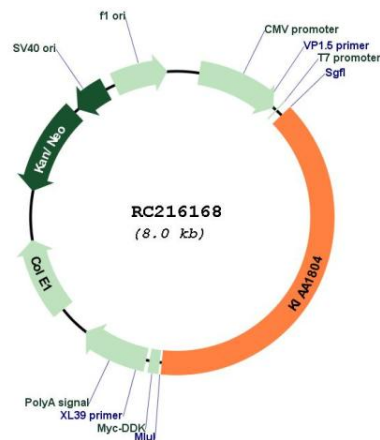
Cytogenetics: 1q42.2

Protein Families: Druggable Genome, Protein Kinase

MW: 113.8 kDa

Gene Summary: Negative regulator of TLR4 signaling. Does not activate JNK1/MAPK8 pathway, p38/MAPK14, nor ERK2/MAPK1 pathways.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC216168