

Product datasheet for **RC213152**

MLKL (NM_152649) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MLKL (NM_152649) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MLKL
Synonyms:	hMLKL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC213152 representing NM_152649
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAAAATTTGAAGCATATTATCACCTTGGCCAGGTCATCCACAACGGTGTGAAGAGATGAAATACT
 GCAAGAAACAGTGCCGGCGCCTGGGCCACCGCTCCTCGCCTGATCAAGCCTCTGGAGATGCTCCAGGA
 CCAAGGAAAGAGGAGCGTGCCCTCTGAGAAGTTAACACAGCCATGAACCGCTTCAAGGCTGCCCTGGAG
 GAGGCTAATGGGGAGATAGAAAAGTTCAAGCAATAGATCCAATATCTGCAGGTTTCTAACAGCAAGCCAGG
 ACAAATACTCTTCAAGGACGTGAACAGGAAGCTGAGTGATGTCTGGAAGGAGCTCTCGTGTTACTTCA
 GGTTGAGCAACGCATGCCTGTTTACCCATAAGCCAAGGAGCGTCTGGGCACAGGAAGATCAGCAGGAT
 GCAGACGAAGACAGGCGAGCTTCCAGATGCTAAGAAGAGATAATGAAAAATAGAAGCTTCACTGAGAC
 GATTAGAATCAACATGAAAGAAATCAAGGAACTTTGAGGCAGTATTTACCACCAAAATGCATGCAGGA
 GATCCCGCAAGAGCAAATCAAGGAGATCAAGAAGGAGCAGCTTTCAGGATCCCCGTGGATTCTGCTAAGG
 GAAAAATGAAGTCAGCACACTTTATAAAGGAGAATACCACAGAGCTCCAGTGGCCATAAAAGTATTCAAAA
 AACTCCAGGCTGGCAGCATTGCAATAGTGAGGCAGACTTTCAATAAGGAGATCAAAAACATGAAGAAATT
 CGAATCTCCCAACATCCTGCGTATATTTGGGATTTGCATTGATGAAACAGTGACTCCGCCTCAATTTCTCC
 ATTGTCATGGAGTACTGTGAACCTCGGGACCCTGAGGGAGCTGTTGGATAGGGAAAAAGACCTCACACTTG
 GCAAGCGCATGGTCTAGTCTGGGGCAGCCGAGGCCATACCGGCTACACCATTGAGAAGCACCTGA
 ACTCCACGGAAAAATCAGAAGCTCAAATCTCTGGTAACTCAAGGCTACCAAGTGAAGCTTGCAAGATTT
 GAGTTGAGGAAAAACAGACTTCCATGAGTTTGGAACTACGAGAGAAAAACAGACAGAGTCAAATCTA
 CAGCATATCTCACCTCAGGAACTGGAAGATGATTTTATCAATATGATGTAAGTCTGAAATATACAG
 CTTTGGAAATCGTCTCTGGGAAATCGCCACTGGAGATATCCCGTTTCAAGGCTGTAATTCTGAGAAGATC
 CGCAAGCTGGTGGCTGTGAAGCGGCAGCAGGAGCCACTGGGTGAAGACTGCCCTTCAAGAGCTGCGGGAGA
 TCATTGATGAGTGCCGGGCCATGATCCCTCTGTGCGGCCCTCTGGATGAAATCTTAAAGAACTCTC
 CACCTTTTCTAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC213152 representing NM_152649
 Red=Cloning site Green=Tags(s)

MENLKHIITLQVIHKRCEEMKYCKKQCRRLGHRVLGLIKPLEMLQDQGRSVPSEKLTAMNRFKAALE
 EANGEIEKFSNRSNICRFLTASQDKILFKDVNRKLSVWKELELLLQVEQRMPVSPISQASWAQEDQQD
 ADEDRRAFQMLRRDNEKIEASLRRLINMKEIKETLRQYLPKCMQEIPEQEIKEIKKEQLSGSPWILLR
 ENEVSTLYKGEYHRAPVAIKVFKKLQAGSIAIVRQTFNKEIKTMKCFESPNILRIFGICIDETVTPPQFS
 IVMEYCELGTLRELLDREKDLTGKRMVVLGAARGLYRLHHSEAPELHGKIRSSNFLVTQGYQVKLAGF
 ELRKTQTSMSLGTTRKTDREVSTAYLSPQLEDFYQYDVKSEIYSFGIVLWEIATGDIPIFGQCNSEKI
 RKLVAVKRQQEPLGEDCPSELREIIDE CRAHDPSVRPSVDEILKKLSTFSK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6709_g04.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_152649

ORF Size: 1413 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_152649.4](#)

RefSeq Size: 2496 bp

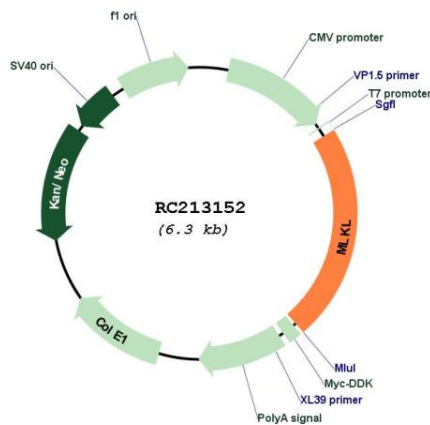
RefSeq ORF: 1416 bp

Locus ID: 197259

UniProt ID: [Q8NB16](#)
Cytogenetics: 16q23.1
Domains: pkinase
Protein Families: Druggable Genome, Protein Kinase
MW: 54.3 kDa

Gene Summary: This gene belongs to the protein kinase superfamily. The encoded protein contains a protein kinase-like domain; however, is thought to be inactive because it lacks several residues required for activity. This protein plays a critical role in tumor necrosis factor (TNF)-induced necroptosis, a programmed cell death process, via interaction with receptor-interacting protein 3 (RIP3), which is a key signaling molecule in necroptosis pathway. Inhibitor studies and knockdown of this gene inhibited TNF-induced necrosis. High levels of this protein and RIP3 are associated with inflammatory bowel disease in children. Alternatively spliced transcript variants have been described for this gene. [provided by RefSeq, Sep 2015]

Product images:



Circular map for RC213152