

Product datasheet for **RC227973**

MLKL (NM_001142497) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MLKL (NM_001142497) 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)
ORF Nucleotide Sequence:	>RC227973 representing NM_001142497 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGAAAAATTTGAAGCATATTATCACCCCTTGCCAGGTCATCCACAAACGGTGTGAAGAGATGAAATACT
GCAAGAAACAGTGCCGGCGCCTGGGCCACCGCTCCTCGGCCTGATCAAGCCTCTGGAGATGCTCCAGGA
CCAAGGAAAGAGGAGCGTGCCCTCTGAGAAGTTAACCACAGCCATGAACCGCTTCAAGGCTGCCCTGGAG
GAGGCTAATGGGAGATAGAAAAGTTCAAGCAATAGATCCAATATCTGCAGGTTTCTAACAGCAAGCCAGG
ACAAAATACTCTTCAAGGACGTGAACAGGAAGCTGAGTGTGTCTGGAAGGAGCTCTCGTGTTACTTCA
GGTTGAGCAACGCATGCCTGTTTCACCCATAAGCCAAGGAGCGTCTGGGCACAGGAAGATCAGCAGGAT
GCAGACGAAGACAGGCGAGCTTTCCAGATGCTAAGAAGAGATAATGAAAAATAGAAGCTTCACTGAGAC
GATTAGAAATCAACATGAAAGAAATCAAGGAACTTTGAGGCAGTCTTTGGAATCGTCTCTGGGAAATC
GCCACTGGAGATATCCCCTTTCAAGGTGAAGAATGTGAAGACTGGCTCAGCCAGTGGCTGTAAATCTGAG
AAGATCCGCAAGCTGGTGGCTGTGAAGCGGCAGCAGGAGCCACTGGGTGAAGACTGCCCTCAGAGCTGC
GGGAGATCATTGATGAGTGCCGGGCCATGATCCCTCTGTGCGGCCCTCTGTGGATGAAATCTTAAAGAA
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

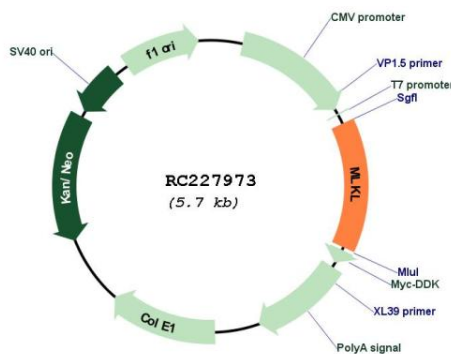


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- Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
- Reconstitution Method:**
1. Centrifuge at 5,000xg 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_001142497.3](#)
- RefSeq ORF:** 792 bp
- Locus ID:** 197259
- UniProt ID:** [Q8NB16](#)
- Cytogenetics:** 16q23.1
- Protein Families:** Druggable Genome, Protein Kinase
- MW:** 30.1 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 RC227973