

Product datasheet for **RG227973**

MLKL (NM_001142497) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MLKL (NM_001142497) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MLKL
Synonyms:	hMLKL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG227973 representing NM_001142497 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAAAATTTGAAGCATATTATCACCCCTTGCCAGGTCATCCACAAACGGTGTGAAGAGATGAAATACT
GCAAGAAACAGTGCCGGCGCCTGGGCCACCGCTCCTCGGCCTGATCAAGCCTCTGGAGATGCTCCAGGA
CCAAGGAAAGAGGAGCGTGCCCTCTGAGAAGTTAACCACAGCCATGAACCGCTTCAAGGCTGCCCTGGAG
GAGGCTAATGGGGAGATAGAAAAGTTCAAGCAATAGATCCAATATCTGCAGGTTTCTAACAGCAAGCCAGG
ACAAAATACTCTTCAAGGACGTGAACAGGAAGCTGAGTGTGTCTGGAAGGAGCTCTCGTGTTACTTCA
GGTTGAGCAACGCATGCCTGTTTCACCCATAAGCCAAGGAGCGTCTGGGCACAGGAAGATCAGCAGGAT
GCAGACGAAGACAGGCGAGCTTCCAGATGCTAAGAAGAGATAATGAAAAATAGAAGCTTCACTGAGAC
GATTAGAAATCAACATGAAAGAAATCAAGGAACTTTGAGGCAGTCTTTGGAATCGTCTCTGGGAAATC
GCCACTGGAGATATCCCCTTTCAAGGTGAAGAAATGTGAAGACTGGCTCAGCCAGTGGCTGTAAATCTGAG
AAGATCCGCAAGCTGGTGGCTGTGAAGCGGCAGCAGGAGCCACTGGGTGAAGACTGCCCTCAGAGCTGC
GGGAGATCATTGATGAGTGCCGGGCCATGATCCCTCTGTGCGGCCCTCTGTGGATGAAATCTTAAAGAA
ACTCTCCACCTTTTCTAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG227973 representing NM_001142497
Red=Cloning site Green=Tags(s)

MENLKHIITLGGQVIHKRCEEMKYCKKQCRRLGHRVGLIKPLEMLQDQGKRSVPSEKLTAMNRFKAALE
 EANGEIEKFSNRSNICRFLTASQDKILFKDVNRKLSDVWKELELLQVEQRMPVSPISQGASWAQEDQQD
 ADEDRRAFQMLRRDNEKIEASLRRLINMKEIKETLRQSLSSSGKSPLIISRFKVKNVKTGSASGCNSE
 KIRKLVAVKRQEQPLGEDCPSELREIIDECAHDPVSRPSVDEILKKLSTFSK

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja3476_b03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001142497

ORF Size: 789 bp

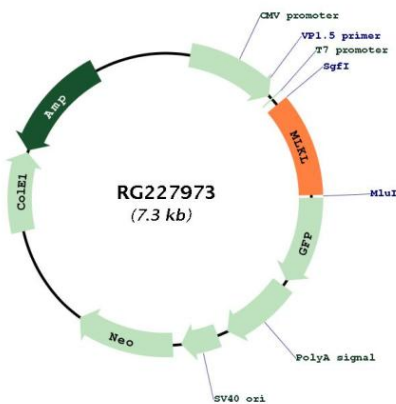
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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:	<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:	<u>NM_001142497.3</u>
RefSeq Size:	1898 bp
RefSeq ORF:	792 bp
Locus ID:	197259
UniProt ID:	<u>Q8NB16</u>
Cytogenetics:	16q23.1
Protein Families:	Druggable Genome, Protein Kinase
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 RG227973