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Product datasheet for RG213152

MLKL (NM_152649) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MLKL (NM_152649) 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:

>RG213152 representing NM_152649
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAAAATTTGAAGCATATTATCACCCTTGGCCAGGTCATCCACAAACGGTGTGAAGAGATGAAATACT
GCAAGAAACAGTGCCGGCGCCTGGGCCACCGCGTCCTCGGCCTGATCAAGCCTCTGGAGATGCTCCAGGA
CCAAGGAAAGAGGAGCGTGCCCTCTGAGAAGTTAACCACAGCCATGAACCGCTTCAAGGCTGCCCTGGAG
GAGGCTAATGGGGAGATAGAAAAGTTCAGCAATAGATCCAATATCTGCAGGTTTCTAACAGCAAGCCAGG
ACAAAATACTCTTCAAGGACGTGAACAGGAAGCTGAGTGATGTCTGGAAGGAGCTCTCGCTGTTACTTCA
GGTTGAGCAACGCATGCCTGTTTCACCCATAAGCCAAGGAGCGTCCTGGGCACAGGAAGATCAGCAGGAT
GCAGACGAAGACAGGCGAGCTTTCCAGATGCTAAGAAGAGATAATGAAAAAATAGAAGCTTCACTGAGAC
GATTAGAAATCAACATGAAAGAAATCAAGGAAACTTTGAGGCAGTATTTACCACCAAAATGCATGCAGGA
GATCCCGCAAGAGCAAATCAAGGAGATCAAGAAGGAGCAGCTTTCAGGATCCCCGTGGATTCTGCTAAGG
GAAAATGAAGTCAGCACACTTTATAAAGGAGAATACCACAGAGCTCCAGTGGCCATAAAAGTATTCAAAA
AACTCCAGGCTGGCAGCATTGCAATAGTGAGGCAGACTTTCAATAAGGAGATCAAAACCATGAAGAAATT
CGAATCTCCCAACATCCTGCGTATATTTGGGATTTGCATTGATGAAACAGTGACTCCGCCTCAATTCTCC
ATTGTCATGGAGTACTGTGAACTCGGGACCCTGAGGGAGCTGTTGGATAGGGAAAAAGACCTCACACTTG
GCAAGCGCATGGTCCTAGTCCTGGGGGCAGCCCGAGGCCTATACCGGCTACACCATTCAGAAGCACCTGA
ACTCCACGGAAAAATCAGAAGCTCAAACTTCCTGGTAACTCAAGGCTACCAAGTGAAGCTTGCAGGATTT
GAGTTGAGGAAAACACAGACTTCCATGAGTTTGGGAACTACGAGAGAAAAGACAGACAGAGTCAAATCTA
CAGCATATCTCTCACCTCAGGAACTGGAAGATGTATTTTATCAATATGATGTAAAGTCTGAAATATACAG
CTTTGGAATCGTCCTCTGGGAAATCGCCACTGGAGATATCCCGTTTCAAGGCTGTAATTCTGAGAAGATC
CGCAAGCTGGTGGCTGTGAAGCGGCAGCAGGAGCCACTGGGTGAAGACTGCCCTTCAGAGCTGCGGGAGA
TCATTGATGAGTGCCGGGCCCATGATCCCTCTGTGCGGCCCTCTGTGGATGAAATCTTAAAGAAACTCTC
CACCTTTTCTAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG213152 representing NM_152649
Red=Cloning site Green=Tags(s)

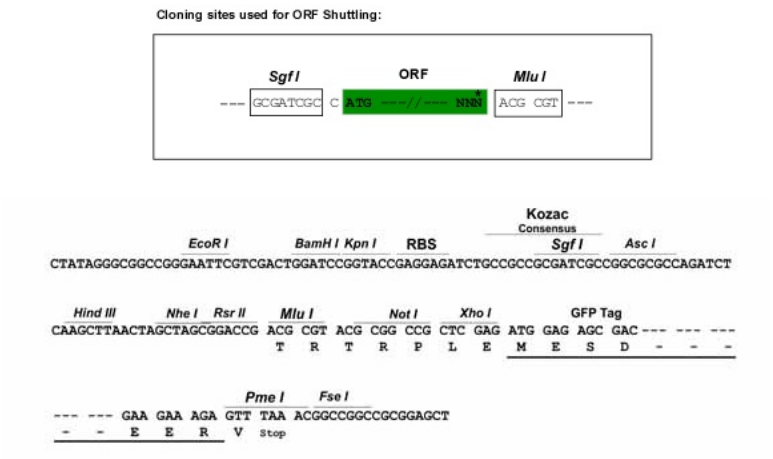
MENLKHIITLGQVIHKRCEEMKYCKKQCRRLGHRVLGLIKPLEMLQDQGKRSVPSEKLTTAMNRFKAALE
EANGEIEKFSNRSNICRFLTASQDKILFKDVNRKLSDVWKELSLLLQVEQRMPVSPISQGASWAQEDQQD
ADEDRRAFQMLRRDNEKIEASLRRLEINMKEIKETLRQYLPPKCMQEIPQEQIKEIKKEQLSGSPWILLR
ENEVSTLYKGEYHRAPVAIKVFKKLQAGSIAIVRQTFNKEIKTMKKFESPNILRIFGICIDETVTPPQFS
IVMEYCELGTLRELLDREKDLTLGKRMVLVLGAARGLYRLHHSEAPELHGKIRSSNFLVTQGYQVKLAGF
ELRKTQTSMSLGTTREKTDRVKSTAYLSPQELEDVFYQYDVKSEIYSFGIVLWEIATGDIPFQGCNSEKI
RKLVAVKRQQEPLGEDCPSELREIIDECRAHDPSVRPSVDEILKKLSTFSK

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja1755_h02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



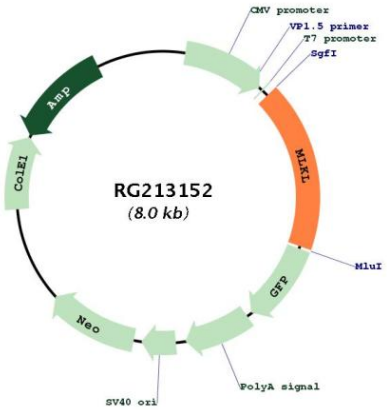
ACCN:	NM_152649
ORF Size:	1413 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own 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.
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

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 RG213152