

Product datasheet for MR225270

Tirap (NM_054096) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tirap (NM_054096) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tirap
Synonyms:	AA407980; C130027E04Rik; Mal; Tlr4ap; Wyatt
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR225270 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCCGATCGCC

ATGGCTTCATCCTCCTCCGTCAGCCTCCTCCACTCCGTCCAAGAAGCCTCGAGACAAGATAGCTGACTGGTTCAGGCAGGCTCTGTTGAAGAAGCCCAAGAAGATGCCGATCTCCAGGAAAGCCACCTCTATGATGGTTCACAGACAGCCACACAGGATGGTCTCTACCCTCGAGCTGCAGCTCACCCCGAGTCACAGTTCACCCGAGCCGTAGCTCACCTCGAGCTGCAGTTCAGGAATGTCACCTACCTCGCCACCAACACAGTGGACAGCAGCAGCAGCAGTGGCCGCTGGAGCAAAGACTACGATGTCTGCGTGTGCCACAGTGAGGAGGACTTGGAGGCGCCAGGAGCTGGTCTCCTACTTGGAGGGTAGCCAGGCCAGTCTACGCTGCTTCTGCAGCTTCGGGATGCAGCCCGGGTGGCGCCATTGTTTCGGAGCTATGCCAGGCACTGAGTCGTAGTCACTGCCGTGCGCTGCTCACTCCAGGCTTCCCTTCGGGACCCCTGGTGCAAGTACCAGATGCTGCAGGCCCTGACGGAGGCCCGGCGTCGGAGGGTTGCACCATAACCCTGCTGTCCGGCCTGTCCAGAGCCGCCTATCCGCCGGAACTCCGATTCATGTACTATGTGGATGGCAGAGGCAAGGACGGAGGCTTTTACCAAGTCAAGGAGGCTGTTATACACTATCTGGAGACTAAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR225270 protein sequence
Red=Cloning site Green=Tags(s)

MASSSSVPASSTPSKKPRDKIADWFRQALLKKPKKMPISQESHLYDGSQTATQDGLSPSSCSSPPSHSSP
 ESRSSPSSCSSGMSPTSPPTHVDSSSSSSSGRWSKDYDVCVCHSEEDLEAAQELVSYLEGSQASLRCLQL
 RDAAPGGAIVSELQALSRSHCRALLITPGFLRDPWCKYQMLQALTEAPASEGCTIPLL SGLSRAAYPPE
 LRFMYVVDGRGKDGGFYQVKEAVIHYLETLS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_054096

ORF Size: 726 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_054096.2](#), [NP_473437.2](#)

RefSeq Size: 4741 bp

RefSeq ORF: 750 bp

Locus ID: 117149

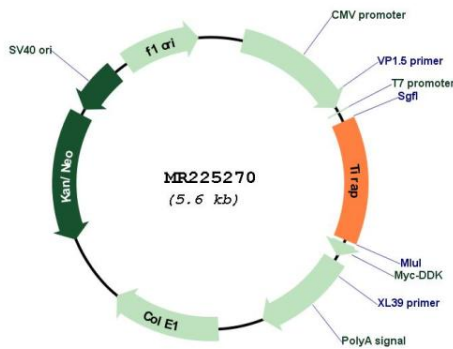
UniProt ID: [Q99JY1](#)

Cytogenetics: 9 A4

MW: 26 kDa

Gene Summary: Adapter involved in the TLR2 and TLR4 signaling pathways in the innate immune response. Acts via IRAK2 and TRAF-6, leading to the activation of NF-kappa-B, MAPK1, MAPK3 and JNK, and resulting in cytokine secretion and the inflammatory response (By similarity). Positively regulates the production of TNF-alpha and interleukin-6 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR225270