

Product datasheet for **MG225272**

Tirap (NM_001177845) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tirap (NM_001177845) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Tirap
Synonyms: AA407980; C130027E04Rik; Mal; Tlr4ap; Wyatt
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG225272 representing NM_001177845
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTTCATCCTCCTCCGTCCTCCAGCCTCCTCCACTCCGTCCAAGAAGCCTCGAGACAAGATAGCTGACT
GGTTCAGGCAGGCTCTGTTGAAGAAGCCCAAGAAGATGCCGATCTCCAGGAAAGCCACCTCTATGATGG
TTCACAGACAGCCACACAGGATGGTCTCTCACCCTCGAGCTGCAGCTCACCCCGAGTCACAGTTCACCC
GAGAGCCGTAGCTCACCTCGAGCTGCAGTTCAGGAATGTCACCTACCTCGCCACCAACACACGTGGACA
GCAGCAGCAGCAGCAGTGGCCGCTGGAGCAAAGACTACGATGTCTGCGTGTGCCACAGTGAGGAGGACTT
GGAGGCGGCCAGGAGCTGGTCTCCTACTTGGAGGGTAGCCAGGCCAGTCTACGCTGCTTCTGCAGCTT
CGGGATGCAGCCCGGGTGGCGCATTGTTTCGGAGCTATGCCAGGCACTGAGTCGTAGTCACTGCCGTG
CGCTGCTCATCACTCCAGGCTTCCTTCGGGACCCCTGGTGCAAGTACCAGATGCTGCAGGCCCTGACGG
GGCCCCGGCGTCGGAGGGTTGCACCATACCCCTGCTGTCCGGCCTGTCCAGAGCCGCCTATCCGCCGGAA
CTCCGATTCATGTACTATGTGGATGGCAGAGGCAAGGACGGAGGCTTTTACCAAGTCAAGGAGGCTGTTA
TACTACTCTGGAGACTAAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG225272 representing NM_001177845
 Red=Cloning site Green=Tags(s)

MASSSSVPASSTPSKKPRDKIADWFRQALLKKPKKMPISQESHLYDGSQTATQDGLSPSSCSSPPSHSSP
 ESRSSPSSCSSGMSPTSPPTHVDSSSSSSGRWSKDYDVCVCHSEEDLEAAQELVSYLEGSQASLRCFLQL
 RDAAPGGAIVSELQALSRSHCRALLITPGFLRDPWCKYQMLQALTEAPASEGCTIPLL SGLSRAAYPPE
 LRFMYYYDGRGKDGGFYQVKEAVIHYLETLS

TRTRPLE - GFP Tag - V

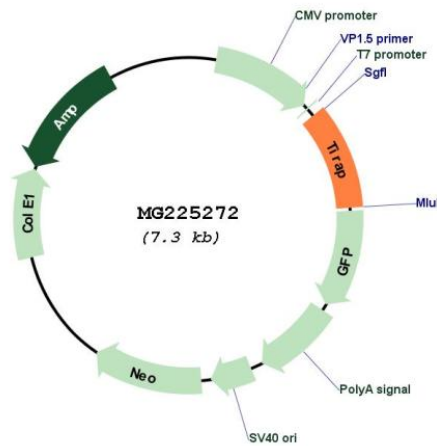
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001177845

ORF Size: 747 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:	<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:	NM_001177845.1 , NP_001171316.1
RefSeq Size:	4749 bp
RefSeq ORF:	750 bp
Locus ID:	117149
Cytogenetics:	9 A4
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]