

## Product datasheet for **MG225270**

### Tirap (NM\_054096) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Tirap (NM\_054096) 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:** >MG225270 representing NM\_054096  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCTTCATCCTCCTCCGTCACGCTCCTCCACTCCGTCCAAGAAGCCTCGAGACAAGATAGCTGACT  
 GGTT**CAGGCAGGCTCTGTTGAAGAAGCCCAAGAAGATGCCGATCTCCAGGAAAGCCACCTCTATGATGG**  
**TTCACAGACAGCCACACAGGATGGTCTCTACCCTCGAGCTGCAGCTCACCCCGAGTCACAGTTCACCC**  
**GAGAGCCGTAGCTCACCTCGAGCTGCAGTTCAGGAATGTCACCTACCTCGCCACCAACACAGTGGACA**  
**GCAGCAGCAGCAGCAGTGGCCGCTGGAGCAAAGACTACGATGTCTGCGTGTGCCACAGTGAGGAGGACTT**  
**GGAGGCGGCCAGGAGCTGGTCTCCTACTTGGAGGGTAGCCAGGCCAGTCTACGCTGCTTCTGCAGCTT**  
**CGGGATGCAGCCCGGGTGGCGCATTGTTTCGGAGCTATGCCAGGCACTGAGTCGTAGTCACTGCCGTG**  
**CGCTGCTCACTCCAGGCTTCCTTCGGGACCCCTGGTGCAAGTACCAGATGCTGCAGGCCCTGACGGG**  
**GGCCCCGGCGTCGGAGGGTTGCACCATAACCCTGCTGTCCGGCCTGTCCAGAGCCGCCTATCCGCCGGAA**  
**CTCCGATTCATGTACTATGTGGATGGCAGAGGCAAGGACGGAGGCTTTTACCAAGTCAAGGAGGCTGTTA**  
**TACTATCTGGAGACTAAGC**

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >MG225270 representing NM\_054096  
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MASSSSVPASSTPSKPRDKIADWFRQALLKKPKKMPISQESHLYDGSQTATQDGLSPSSCSSPPSHSSP  
 ESRSSPSSCSSGMSPTSPPTHVDSSSSSSGRWSKDYDVCVCHSEEDLEAAQELVSYLEGSQASLRCFLQL  
 RDAAPGGAIVSELQALSRSHCRALLITPGFLRDPWCKYQMLQALTEAPASEGCTIPLL SGLSRAAYPPE  
 LRFMYVDGRGKDGGFYQVKEAVIHYLETLS

TRTRPLE - GFP Tag - V

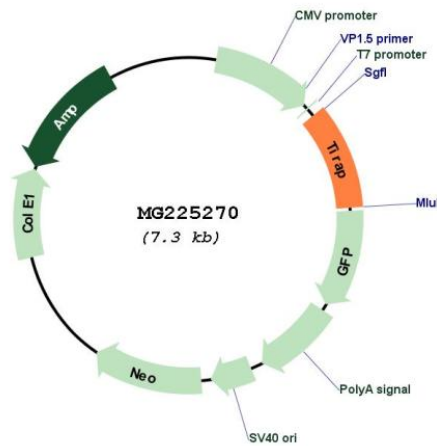
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** NM\_054096

**ORF Size:** 747 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_054096.2</a> , <a href="#">NP_473437.2</a>
<b>RefSeq Size:</b>	4741 bp
<b>RefSeq ORF:</b>	750 bp
<b>Locus ID:</b>	117149
<b>UniProt ID:</b>	<a href="#">Q99JY1</a>
<b>Cytogenetics:</b>	9 A4
<b>Gene Summary:</b>	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]