

## Product datasheet for RC207162

### TIRAP (NM\_001039661) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TIRAP (NM_001039661) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TIRAP
Synonyms:	BACTS1; Mal; MyD88-2; wyatt
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC207162 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCATCATCGACCTCCCTCCCAGCTCCTGGCTCTCGGCCTAAGAAGCCTCTAGGCAAGATGGCTGACT  
GGTTCAGGCAGACCCTGCTGAAGAAGCCCAAGAAGAGGCCCAACTCCCCAGAAAGCACCTCCAGCGATGC  
TTCACAGCCTACCTCACAGGACAGCCACTACCCCAAGCCTCAGCTCAGTCACGTCTCCAGCCTGCCA  
CCCACACATGCGAGTGACAGTGGCAGTAGTCGCTGGAGCAAAGACTATGACGTCTGCGTGTGCCACAGTG  
AGGAAGACCTGGTGGCCGCCAGGACCTGGTCTCCTACTTGAAGGCAGCACTGCCAGCCTGCGCTGCTT  
CCTGCAACTCCGGGATGCAACCCAGGCGGCGCTATAGTGTCCGAGCTGTGCCAGGCACTGAGCAGTAGT  
CACTGCCGGGTGCTGCTCATCACGCCGGGCTTCCCTCAGGACCCCTGGTGAAGTACCAGATGCTGCAGG  
CCCTGACCGAGGCTCCAGGGGCCGAGGGCTGCACCATCCCCCTGCTGTGGGCCTCAGCAGAGCTGCCTA  
CCCACCTGAGCTCCGATTCATGTACTACGTGATGGCAGGGGCCCTGATGGTGGCTTTCGTCAAGTCAA  
GAAGCTGTCATGCGTTATCTGCAGACACTCAGTTGGCACTTGTATATCATGGGACCCCGAAATTTGGAG  
TGAAGCTAGAAACAGAAAACCATGCAGGGCCTCGGATCCCACAATGTGACAAGAGGTATAGGGAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC207162 protein sequence  
Red=Cloning site Green=Tags(s)

MASSTSLPAPGSRPKKPLGKMADWFRQTLKKPKKRPNSPESTSSDASQPTSQDSPLPPSLSSVTSPLP  
 PTHASDSGSSRWKDYDVCVCHSEEDLVAAQDLVSYLEGSTASLRCLQLRDATPGGAIVSELQALSSS  
 HCRVLLITPGFLQDPWCKYQMLQALTEAPGAEGCTIPLL SGLSRAAYPELRFMYVVDGRGPDGGFRQVK  
 EAVMRYLQTL SWHLL YHGTPEIGVKLETENPCRASDSHKCDKRYRE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6334\\_a06.zip](https://cdn.origene.com/chromatograms/mk6334_a06.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001039661

**ORF Size:** 666 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 Size:** 2348 bp

**RefSeq ORF:** 666 bp

**Locus ID:** 114609

**UniProt ID:** [P58753](#)

**Cytogenetics:** 11q24.2

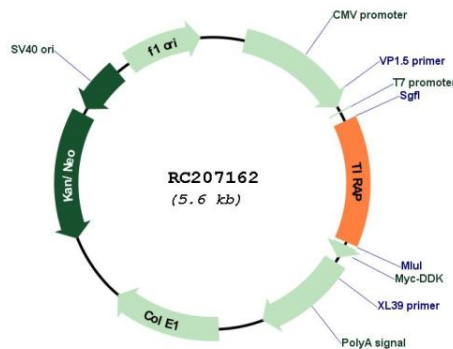
**Protein Families:** Druggable Genome

**Protein Pathways:** Toll-like receptor signaling pathway

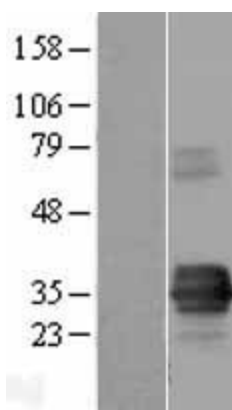
**MW:** 28 kDa

**Gene Summary:** The innate immune system recognizes microbial pathogens through Toll-like receptors (TLRs), which identify pathogen-associated molecular patterns. Different TLRs recognize different pathogen-associated molecular patterns and all TLRs have a Toll-interleukin 1 receptor (TIR) domain, which is responsible for signal transduction. The protein encoded by this gene is a TIR adaptor protein involved in the TLR4 signaling pathway of the immune system. It activates NF-kappa-B, MAPK1, MAPK3 and JNK, which then results in cytokine secretion and the inflammatory response. Alternative splicing of this gene results in several transcript variants; however, not all variants have been fully described. [provided by RefSeq, Jul 2008]

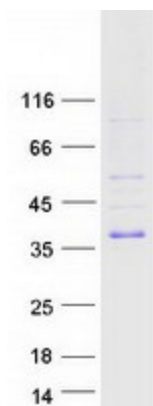
### Product images:



Circular map for RC207162



Western blot validation of overexpression lysate (Cat# [LY422104]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207162 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TIRAP protein (Cat# [TP307162]). The protein was produced from HEK293T cells transfected with TIRAP cDNA clone (Cat# RC207162) using MegaTran 2.0 (Cat# [TT210002]).