

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
CCTGCAACTCCGGGATGCAACCCAGGGCGCTATAGTGTCCGAGCTGTGCCAGGCACTGAGCAGTAGT
CACTGCCGGGTGCTGCTCATCACGCCGGCTTCCCTCAGGACCCCTGGTGAAGTACCAGATGCTGCAGG
CCCTGACCGAGGCTCCAGGGGCCGAGGGCTGCACCATCCCCCTGCTGCGGGCTCAGCAGAGCTGCCTA
CCCACCTGAGCTCCGATTCATGTACTACGTGATGGCAGGGGCCCTGATGGTGGCTTTCGTAAGTCAA
GAAGCTGTCATGCGTTATCTGCAGACACTCAGTTGGCACTTGTATATCATGGGACCCCGAAATTTGGAG
TGAAGCTAGAAACAGAAAACCATGCAGGGCCTCGGATCCCACAATGTGACAAGAGGTATAGGGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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

MASSTSLPAPGSRPKKPLGKMADWFRQTLKKPKKRPNSPESTSSDASQPTSQDSPLPPSLSSVTSPLP
 PTHASDSGSSRWKDYDVCVCHSEEDLVAAQDLVSYLEGSTASLRCFLQLRDATPGGAIVSELCOALSSS
 HCRVLLITPGFLQDPWCKYQMLQALTEAPGAEGCTIPLL SGLSRAAYPELRFMYVVDGRGPDGGFRQVK
 EAVMRYLQTL SWHLL YHGTPEIGVKLETENPCRASDSHKCDKRYRE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: 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: 768 bp

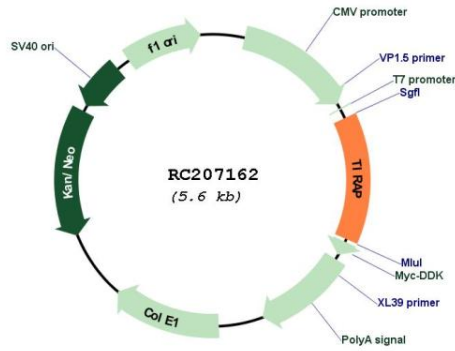
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

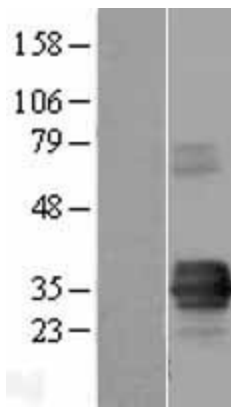
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
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]

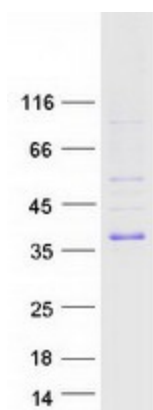
Product images:



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]).