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Product datasheet for RC217522

TRIF (TICAM1) (NM_182919) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRIF (TICAM1) (NM_182919) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TRIF
Synonyms:	IIAE6; MyD88-3; PRVTIRB; TICAM-1; TRIF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>RC217522 representing NM_182919
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCTGCACAGGCCCATCACTTCCTAGCGCCTTCGACATTCTAGGTGCAGCAGGCCAGGACAAGCTCT
TGTATCTGAAGCACAAACTGAAGACCCCACGCCCAGGCTGCCAGGGGCAGGACCTCCTGCATGCCATGGT
TCTCCTGAAGCTGGGCCAGGAAACTGAGGCCAGGATCTCTCTAGAGGCATTGAAGGCCGATGCGGTGGCC
CGGCTGGTGGCCCGCCAGTGGGCTGGCGTGGACAGCACCGAGGACCCAGAGGAGCCCCCAGATGTGTCCT
GGGCTGTGGCCCGCTTGTACCACCTGCTGGCTGAGGAGAAGCTGTGCCCCGCCTCGCTGCGGGACGTGGC
CTACCAGGAAGCCGTCCGCACCCTCAGCTCCAGGGACGACCACCGGCTGGGGGAACTTCAGGATGAGGCC
CGAAACCGGTGTGGGTGGGACATTGCTGGGGATCCAGGGAGCATCCGGACGCTCCAGTCCAATCTGGGCT
GCCTCCCACCATCCTCGGCTTTGCCCTCTGGGACCAGGAGCCTCCCACGCCCCATTGACGGTGTTTCGGA
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CAGTCCCCTACCATGCCCTTCCTCAGCCTGCACCGCAGCCCACATGGGCCCAGCAAGCTCTGTGACGACC
CCCAGGCCAGCTTGGTGCCCGAGCCTGTCCCCGGTGGCTGCCAGGAGCCTGAGGAGATGAGCTGGCCGCC
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GATGCAACCTCCACTGGCCTCCCTGATACCCCCGCAGCTCCAGAAACCAGCACCAACTACCCAGTGGAGT
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TGTCAAAGACCAGACGCCACTCCAACTTTCTGTAGAAGATACCACCTCTCCAAATACCAAGCCGTGCCCA
CCTACTCCCACCACCCCAGAAACATCCCCTCCTCCTCCTCCTCCTCCTTCATCTACTCCTTGTTCAG
CTCACCTGACCCCCTCCTCCCTGTTCCCTTCCTCCCTGGAATCATCATCGGAACAGAAATTCTATAACTT
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CCACCCCTGCACGCATGGCAGGCTGGCACCCCCCCACCGCCCTCCCCACAGCCAGCAGCCTTTCCACAGT
CACTGCCCTTCCCGCAGTCCCCAGCCTTCCCTACGGCCTCACCCGCACCCCCTCAGAGCCCAGGGCTGCA
ACCCCTCATTATCCACCACGCACAGATGGTACAGCTGGGGCTGAACAACCACATGTGGAACCAGAGAGGG
TCCCAGGCGCCCGAGGACAAGACGCAGGAGGCAGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC217522 representing NM_182919
Red=Cloning site Green=Tags(s)

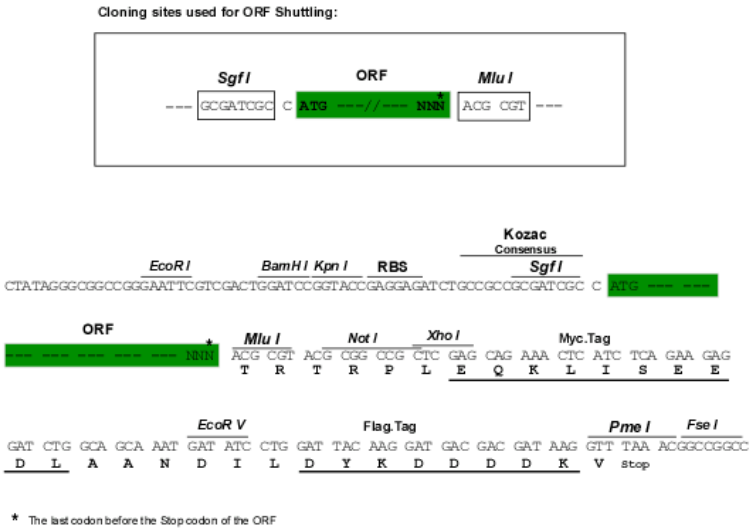
MACTGPSLPSAFDILGAAGQDKLLYLKHKLKTPRPGCQGQDLLHAMVLLKLGQETEARISLEALKADAVA
RLVARQWAGVDSTEDPEEPPDVSWAVARLYHLLAEEKLCPASLRDVAYQEAVRTLSSRDDHRLGELQDEA
RNRCGWDIAGDPGSIRTLQSNLGCLPPSSALPSGTRSLPRPIDGVSDWSQGCSLRSTGSPASLASNLEIS
QSPTMPFLSLHRSPHGPSKLCDDPQASLVPEPVPGGCQEPEEMSWPPSGEIASPPELPSSPPPGLPEVAP
DATSTGLPDTPAAPETSTNYPVECTEGSAGPQSLPLPILEPVKNPCSVKDQTPLQLSVEDTTSPNTKPCP
PTPTTPETSPPPPPPPPSSTPCSAHLTPSSLFPSSLESSSEQKFYNFVILHARADEHIALRVREKLEALG
VPDGATFCEDFQVPGRGELSCLQDAIDHSAFIILLLTSNFDCRLSLHQVNQAMMSNLTRQGSPDCVIPFL
PLESSPAQLSSDTASLLSGLVRLDEHSQIFARKVANTFKPHRLQARKAMWRKEQDTRALREQSQHLDGER
MQAAALNAAYSAYLQSYLSYQAQMEQLQVAFGSHMSFGTGAPYGARMPFGGQVPLGAPPPFPTWPGCPQP
PPLHAWQAGTPPPPSPQPAAFPQSLPFPQSPAFPTASPAPPQSPGLQPLIIHHAQMVQLGLNNHMWNQRG
SQAPEDKTQEAE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6204_b08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_182919

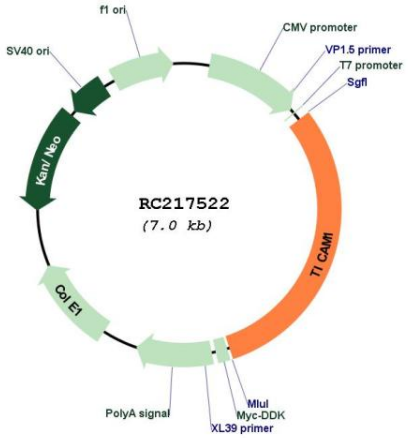
ORF Size: 2136 bp

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

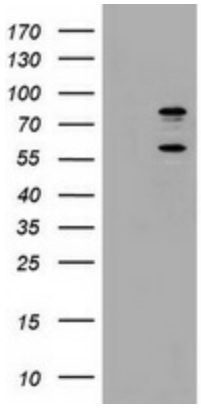
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_182919.4
RefSeq Size:	2460 bp
RefSeq ORF:	2139 bp
Locus ID:	148022
UniProt ID:	Q8IUC6
Cytogenetics:	19p13.3
Protein Families:	Druggable Genome
Protein Pathways:	Toll-like receptor signaling pathway
MW:	76.2 kDa
Gene Summary:	This gene encodes an adaptor protein containing a Toll/interleukin-1 receptor (TIR) homology domain, which is an intracellular signaling domain that mediates protein-protein interactions between the Toll-like receptors (TLRs) and signal-transduction components. This protein is involved in native immunity against invading pathogens. It specifically interacts with toll-like receptor 3, but not with other TLRs, and this association mediates dsRNA induction of interferon-beta through activation of nuclear factor kappa-B, during an antiviral immune response. Mutations in this gene are associated with encephalopathy, acute, infection-induced. [provided by RefSeq, Jul 2020]

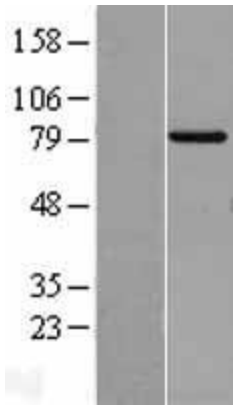
Product images:



Circular map for RC217522



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY TICAM1 (Cat# RC217522, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-TICAM1(Cat# [TA800679]). Positive lysates [LY403651] (100ug) and [LC403651] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY403651]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217522 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).