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Product datasheet for RC219127

C1orf38 (THEMIS2) (NM_004848) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C1orf38 (THEMIS2) (NM_004848) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	C1orf38
Synonyms:	C1orf38; ICB-1; ICB1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC219127 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGCCGGTGCCGCTGCAGGACTTCGTGCGCGCCTTGGACCCCGCCTCCCTCCCGCGCGTGCTGCGGG
TCTGCTCGGGGGTCTACTTCGAGGGCTCCATCTATGAGATCTCTGGGAATGAGTGCTGCCTCTCCACGGG
GGACCTGATCAAGGTCACCCAGGTCCGCCTCCAGAAGGTGGTCTGTGAGAACCCGAAGACCAGCCAGACC
ATGGAGCTCGCCCCCAACTTCCAGGGCTACTTCACCCCCCTCAACACCCCACAGAGCTATGAAACCCTGG
AGGAGCTGGTCTCTGCCACAACTCAGAGCTCCAAGCAGCTGCCCACTTGCTTCATGTCGACCCACAGGAT
TGTCACAGAGGGCAGGGTGGTGACTGAGGACCAGCTCCTCATGCTTGAGGCTGTGGTGATGCACCTCGGG
ATCCGCTCTGCCCGCTGTGTCCTGGGCATGGAGGGTCAGCAGGTCATCCTGCACCTGCCCCTATCCCAGA
AGGGGCCCTTCTGGACATGGGAGCCTAGTGCCCCTCGAACTCTGCTCCAGGTCCTACAGGATCCAGCCCT
GAAAGACCTCGTCCTCACCTGCCCCACCCTGCCCTGGCATTCCCTGATCCTGCGGCCCCAGTATGAGATC
CAAGCCATCATGCACATCTTCTCAAGTCTTAGGATTGCAGCAACACGCTCGGCTGCCCAAACCCAAGGCG
AAGACCTTGCCAGAGTTCATCAAGGATGGCTCCAGTACGTACAGCAAGATTCCTGCCCACAGGAAGGGCC
ACAGGCCCGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC219127 protein sequence
Red=Cloning site Green=Tags(s)

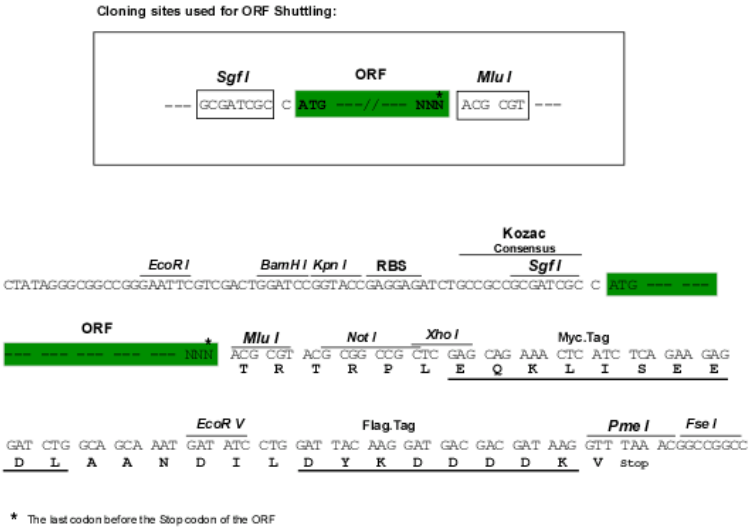
MEPVPLQDFVRALDPASLPRVLRVCSGVYFEGSIYEISGNECCLSTGDLIKVTQVRLQKVVCENPKTSQT
MELAPNFQGYFTPLNTPQSYETLEELVSATTQSSKQLPTCFMSTHRIVTEGRVVTEDQLLMLEAVVMHLG
IRSARCVLGMEGQQVILHLPLSQKGPFWTWEPSAPRTLLQVLQDPALKDLVLTCPTLPWHSLILRPQYEI
QAIMHIFSSLRIAATRSAAQTQGEDLARVHQGWLQYVQQDSCPQEGPQAR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6470_d07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004848

ORF Size: 780 bp

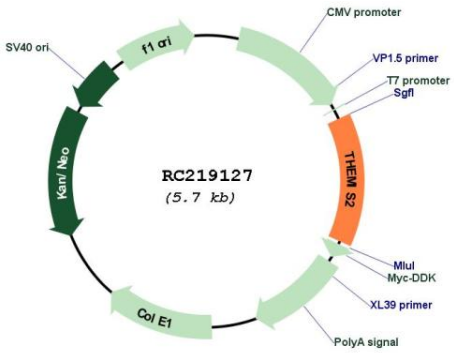
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially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

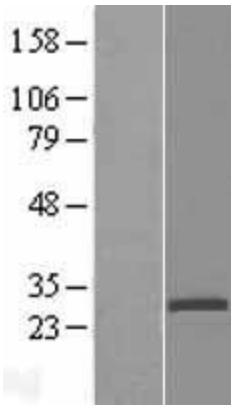
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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_004848.3
RefSeq Size:	1651 bp
RefSeq ORF:	783 bp
Locus ID:	9473
UniProt ID:	Q5TEJ8
Cytogenetics:	1p35.3
MW:	29.1 kDa
Gene Summary:	May constitute a control point in macrophage inflammatory response, promoting LPS-induced TNF production.[UniProtKB/Swiss-Prot Function]

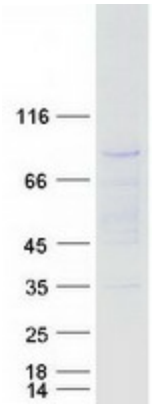
Product images:



Circular map for RC219127



Western blot validation of overexpression lysate (Cat# [LY417704]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219127 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified THEMIS2 protein (Cat# [TP319127]). The protein was produced from HEK293T cells transfected with THEMIS2 cDNA clone (Cat# RC219127) using MegaTran 2.0 (Cat# [TT210002]).