

Product datasheet for **RC226054**

C1orf38 (THEMIS2) (NM_001105556) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
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: >RC226054 representing NM_001105556
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGAGCCGGTGCCGCTGCAGGACTTCGTGCGCGCCTTGGACCCCGCCTCCCTCCGCGCGTGCTGCGGG
 TCTGCTCGGGGGTCTACTTCGAGGGCTCCATCTATGAGATCTCTGGGAATGAGTGCTGCCTCTCCACGGG
 GGACCTGATCAAGGTCAACCCAGGTCCGCCTCCAGAAGGTGGTCTGTGAGAACCCGAAGACACGACAGACC
 ATGGAGCTCGCCCCCACTTCAGGGCTACTTCACCCCTCAACACCCACAGAGCTATGAAACCTGG
 AGGAGCTGGTCTCTGCCCACTCAGAGCTCCAAGCAGCTGCCACTTGCTTCATGTGACCCACAGGAT
 TGTACAGAGGGCAGGGTGGTGAAGTGAAGCAGCTCCTCATGCTTGAGGCTGTGGTGATGCACCTCGGG
 ATCCGCTCTGCCGCTGTGCTCTGGGATGGAGGTGAGCAGGTATCCTGCACCTGCCCTATCCAGA
 AGGGGCCCTTCTGGACATGGGAGCCTAGTGCCCTCGAAGTCTGCTCCAGGTCTACAGGATCCAGCCCT
 GAAAGACCTCGTCTCACCTGCCACCTGCCCTGGCATTCCCTGATCCTGCGGCCCAAGTATGAGATC
 CAAGCCATCATGCACATGCGCAGGACATTGTCAAGATCCCTTCTACCTGGAGGTGACGTGGAGGACG
 TCACCGCTCTCCCGGACGTCCACTTTATCAAACCGCTGCTGCTGAGCGAGGTCTGGCCTGGGAAGG
 CCCTTTCCCTGTCCATGGAGATCCTGGAGGTTCCTGAGGGCCGCCCATCTTCTCAGCCGTGGGTG
 GGCTCTTGCAAAAAGGCCAGAGGCTTTCGCTCTATGGCTAGCCTACCAACCTGGCGGGTCTTGGCT
 CAAGCAAGGGCCGCAAGGTGCCAGGCACTTCTGGTGTGAGGGGGTACCAAGGCAAGCTGCGGCGCG
 GCCAAGGGAGTTCCCGCGCCTATGACCTCTAGGTGCTTTCAGCCAGGCGGCCACTCCGGTGGTG
 GCCACAAGGACTGTGAGGGCAGAGGGAGGAGAATCCGAGTTCACGTCCCTGGCTGTGGTGACCGGC
 TGGAGGTGCTGGGGCTGGCCAGGCCATGGGGCCAGGCGAGTACGTGGATGTCTTGGTTTGTACGCG
 GCTGAGTGACAGGCTGGGGAGGATGAGGAGGAAGAGTGCAAGAGAGGAGCAGAGAGCCAGAGCGGGTC
 CTGCTGCCCTTCACTTCCCTGGCAGTTTCGTGGAGGAGATGAGTGACAGCCGCGCTACAGCCTGGCAG
 ATCTGACTGCCAGTTTCACTGCCTTGTGAGGTCAAGGTGGTGGCAAGGACACGACCCCACTGA
 CCCTCTGACCTCCTTCTGGGCTGCGGCTGGAGGAGAAGATCACAGAGCATTCTTGGTGGTGAGCCTA
 GACTCTGAGCCTGGGATGTGCTTTGAGATCCCTCCCGGTGGCTGACCTGACTGTTGTGAAGGCCAAGG
 GGCAGCCAGACTTGCCAGAGGGTCTCTCCCCATAGCCACAGTGGAGGAGCTGACAGACACCTTCTATTA
 TCGTCTTCGGAAGTTACAGCCTGTGAGATCCAAGCCCCCACCAGGCCCTAAAAATCAGGGCCTC
 AGCAAGCAGAGGAGACACAGCAGTGGGGAGGCGTCAAGTCTTCTCAAGTCTTAGGATTGCAGCAACACG
 CTCGGCTGCCAAACCCAGGCGAAGACCTTGCCAGAGTTCATCAAGGATGGCTCCAGTACGTACAGCAA
 GATTCTGCCACAGGAAGGGCCACAGGCCGCTAAGCCCCAAGGCAGGATCTAGATGATGATGAACAT
 GATTATGAAGAAATACTTGAGCAATTTAGAAAACCATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC226054 representing NM_001105556
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MEPVLPQDFVRALDPASLPRVLRVCSGVYFEGSIYEISGNECLSTGDLIKVTQVRLQKVVCPENPKTSQT
 MELAPNFQGYFTPLNTPQSYETLEELVSATTQSSKQLPTCFMSTHRIVTEGRVVTEDQLLMEAVVMHLG
 IRSARCVLGMGGQVILHLPLSQKPFWTWEPSAPRTLLQVLQDPALKDLVLTCPPLPWHSLILRPQYEI
 QAIMHMRRITVQIPSTLEVDVEDVTASSRHVHFVFKPLLLSEVLAWEGPFPLSMEILEVPEGRPIFLSPWV
 GSLQKQRLCVYGLASPPWRVLASSKGRKVPFRHFLVSGGYQGLRRRPREFPTAYDLLGAFQPGRPLRVV
 ATKDCGEGERENPEFTSLAVGDRLEVLGPGQAHAQGSVDVLCQRLSDQAGEDEEECKEEAESPERV
 LLPFHFGSFVEEMSDSRYSADLTAFSLPCEVKVAKDTSHTDPLTSFLGLRLEEKITEPFLVVS
 DSEPGMCFEIPRWLDLTVVKAKGQPDLPESLPIATVEELTDTFYRLRKLPAEIQAPPPPPKNQGL
 SKQRRHSSEGGVKSQVLGLQGHARLPKPKAKTLPEFIKDGSSSTYSKIPAHRKGRPAKPPQRQDLDDDEH
 DYEEILEQFQKTI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8071_c01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001105556

ORF Size: 1929 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_001105556.3

RefSeq ORF: 1932 bp

Locus ID: 9473

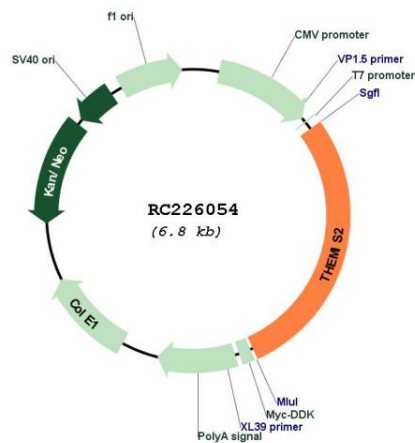
UniProt ID: Q5TEJ8

Cytogenetics: 1p35.3

MW: 71.9 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 RC226054

Western validation with an anti-DDK antibody

* L: Control HEK293 lysate R: Over-expression lysate