

Product datasheet for RC202729

TNFAIP8 (NM_014350) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TNFAIP8 (NM_014350) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: TNFAIP8
Synonyms: GG2-1; MDC-3.13; NDED; SCC-S2; SCCS2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC202729 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCACCTCGAAGCAGAAGAATCCAAGGAAGTGGCCACAGATGTCTTTAATTCAAAAACCTGGCCGTTT
 AGGCACAAAAGAAGATCTTGGGTAATAAGGTGTCCAAATCCATCGCCACCACCTAATAGACGACACAAG
 TAGTGAGGTGCTGGATGAGCTCTACAGAGTGACCAGGGAGTACACCCAAAACAAGAAGGAGGCAGAGAAG
 ATCATCAAGAACCTCATCAAGACAGTCAAGCTGGCCATTCTTTATAGGAATAATCAGTTAATCAAG
 ATGAGCTAGCATTGATGGAGAAATTAAGAAGAAAGTTCATCAGCTTGCTATGACCGTGGTCAGTTTCCA
 TCAGGTGGATTATACCTTTGACCGGAATGTGTTATCCAGGCTGTTAAATGAATGCAGAGAGATGCTGCAC
 CAAATCATTACAGCGCCACCTCACTGCCAAGTCACATGGACGGGTTAATAATGTGTTTTCAG
 ATTGTGAATTTTTGGCTGCCTTGTATAATCCTTTTGGGAATTTAAACCCCACTTACAAAACTATGTGA
 TGGTATCAACAAAATGTTGGATGAAGAGAACATA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC202729 protein sequence
 Red=Cloning site Green=Tags(s)

MHSEAEESKEVATDVFNKSNLAVQAQKKILGKMVSKSIATTLIDDTSSSEVLDEL YRV TREYTQNKKEAEK
 I IKNL IKTVIKLAIL YRNNQFNQDELALMEKFKKKVHQLAMTVVFSFHQVDYTFDRNVL SRRLLNECREMLH
 QIIQRHLTAKSHGRVNNVDFHFSDFCEFLAALYNPFGNFKPHLQKLCDGINKMLDEENI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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Chromatograms: https://cdn.origene.com/chromatograms/mk6079_a05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_014350

ORF Size: 594 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.

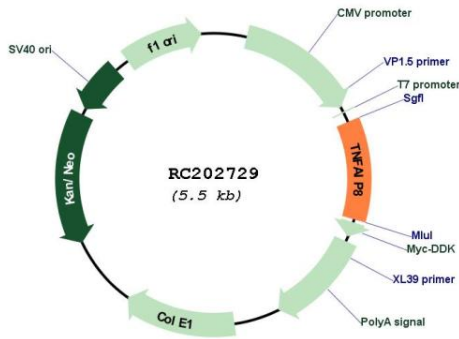
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_014350.4](#)

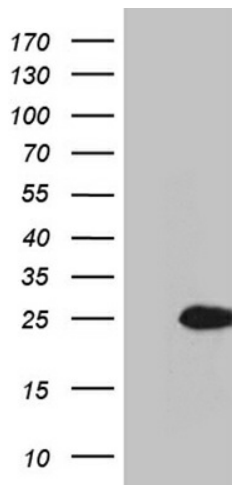
RefSeq Size: 2103 bp

RefSeq ORF:	597 bp
Locus ID:	25816
UniProt ID:	<u>O95379</u>
Cytogenetics:	5q23.1
Protein Families:	Druggable Genome
MW:	23 kDa
Gene Summary:	Acts as a negative mediator of apoptosis and may play a role in tumor progression. Suppresses the TNF-mediated apoptosis by inhibiting caspase-8 activity but not the processing of procaspase-8, subsequently resulting in inhibition of BID cleavage and caspase-3 activation.[UniProtKB/Swiss-Prot Function]

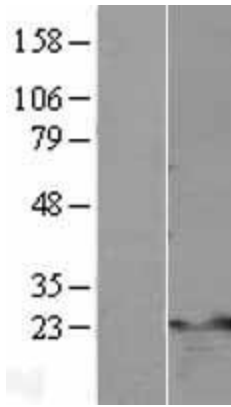
Product images:



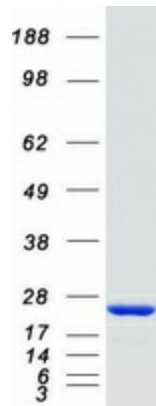
Circular map for RC202729



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY TNFAIP8 (Cat# RC202729, 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-TNFAIP8 (Cat# [TA810682])(1:500). Positive lysates [LY402318] (100ug) and [LC402318] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY402318]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202729 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TNFAIP8 protein (Cat# [TP302729]). The protein was produced from HEK293T cells transfected with TNFAIP8 cDNA clone (Cat# RC202729) using MegaTran 2.0 (Cat# [TT210002]).