

Product datasheet for **RC204672**

BAFF (TNFSF13B) (NM_006573) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BAFF (TNFSF13B) (NM_006573) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	BAFF
Synonyms:	BAFF; BLYS; CD257; DTL; TALL-1; TALL1; THANK; TNFSF20; TNLG7A; ZTNF4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC204672 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGATGACTCCACAGAAAGGGAGCAGTCACGCCTTACTTCTTGCCTTAAGAAAAGAGAAGAAATGAAAC
TGAAGGAGTGTGTTTCCATCCTCCACGGAAGGAAAGCCCTCTGTCCGATCCTCAAAGACGGAAAGCT
GCTGGCTGCAACCTTGCTGCTGGCACTGCTGTCTTGTGCCTCACGGTGGTGTCTTTCTACCAGGTGGCC
GCCCTGCAAGGGGACCTGGCCAGCCTCCGGGCAGAGCTGCAGGGCCACCACGCGGAGAAGCTGCCAGCAG
GAGCAGGAGCCCCAAGGCCGGCTGGAGGAAGCTCCAGCTGTACCCGCGGGACTGAAAACTTTGAACC
ACCAGCTCCAGGAGAAGCAACTCCAGTCAGAACAGCAGAAATAAGCGTGCCGTTTCAAGGTCAGAGAA
ACAGTCACTCAAGACTGCTTGAACGATTGACAGACAGTGAACACCAACTATACAAAAAGGATCTTACA
CATTTGTTCCATGGCTTCTCAGCTTTAAAAGGGGAAGTGCCTTAGAAGAAAAAGAGAATAAAATATTGGT
CAAAGAACTGGTTACTTTTTATATATGGTCAGGTTTTATATACTGATAAGACCTACGCCATGGGACAT
CTAATTCAGAGGAAGAAGTCCATGTCTTTGGGGATGAATTGAGTCTGGTACTTTGTTTCGATGTATTC
AAAATATGCCTGAAACTACCAATAATTCCTGCTATTCAGCTGGCATTGCAAACTGGAAGAAGGAGA
TGAAGTCAACTTGCAATACCAAGAGAAAATGCACAAATCACTGGATGGAGATGTCACATTTTTGGT
GCATTGAACTGCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC204672 protein sequence
Red=Cloning site Green=Tags(s)

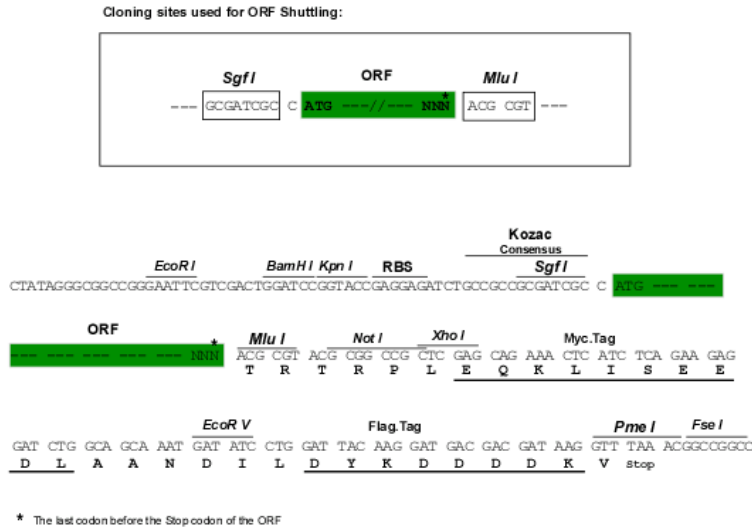
MDDSTEREQSRLTSLKKREEMKLKECVSILPRKESPSVRSSKDGKLLAATLLLALLSCCLTVVSFYQVA
 ALQGDLASLRAELQGHAEKLPAGAGAPKAGLEEAPAVTAGLKIPEPPAPGEGNSSQNSRNKRAVQGPEE
 TVTQDCLQLIADSETPTIQKGSYTFVPWLLSFKRGSALEEKENKILVKETGYFFIYGQVL YTDKTYAMGH
 LIQRKKVHVFGDEL SLVTLFRCIQNPETLPNNSCYSAGIAKLEEGDELQLAIPRENAQISLDGDVTFFG
 ALKLL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6172_d05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006573

ORF Size: 855 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.

RefSeq: [NM_006573.4](#)

RefSeq Size: 2675 bp

RefSeq ORF: 858 bp

Locus ID: 10673

UniProt ID: [Q9Y275](#)

Cytogenetics: 13q33.3

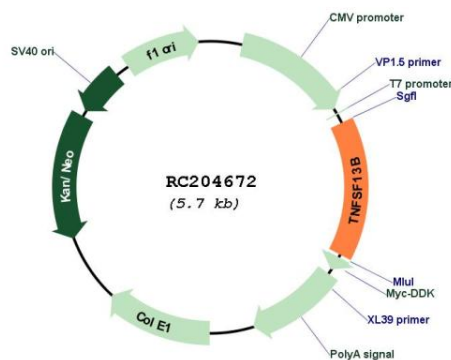
Protein Families: Druggable Genome, Secreted Protein, Transmembrane

Protein Pathways: Cytokine-cytokine receptor interaction

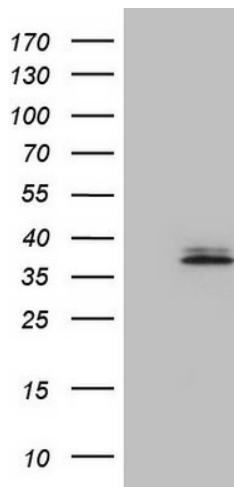
MW: 31.2 kDa

Gene Summary: The protein encoded by this gene is a cytokine that belongs to the tumor necrosis factor (TNF) ligand family. This cytokine is a ligand for receptors TNFRSF13B/TACI, TNFRSF17/BCMA, and TNFRSF13C/BAFFR. This cytokine is expressed in B cell lineage cells, and acts as a potent B cell activator. It has been also shown to play an important role in the proliferation and differentiation of B cells. Alternatively spliced transcript variants encoding distinct isoforms have been identified. [provided by RefSeq, Mar 2011]

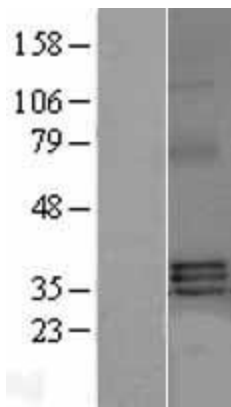
Product images:



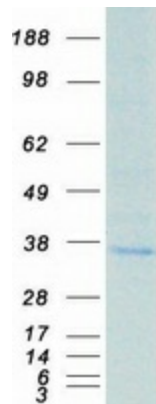
Circular map for RC204672



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY TNFSF13B (Cat# RC204672, 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-TNFSF13B (Cat# [TA807806])(1:500). Positive lysates [LY401966] (100ug) and [LC401966] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY401966]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204672 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TNFSF13B protein (Cat# [TP304672]). The protein was produced from HEK293T cells transfected with TNFSF13B cDNA clone (Cat# RC204672) using MegaTran 2.0 (Cat# [TT210002]).