

## Product datasheet for **RG227189**

### **BAFF (TNFSF13B) (NM\_001145645) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** BAFF (TNFSF13B) (NM\_001145645) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** TNFSF13B  
**Synonyms:** BAFF; BLYS; CD257; DTL; TALL-1; TALL1; THANK; TNFSF20; TNLG7A; ZTNF4  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG227189 representing NM\_001145645  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGATGACTCCACAGAAAGGGAGCAGTCACGCCTTACTTCTTGCCTTAAGAAAAGAGAAGAAATGAAAC  
TGAAGGAGTGTGTTCCATCCTCCACGGAAGGAAAGCCCTCTGTCCGATCCTCAAAGACGGAAAGCT  
GCTGGCTGCAACCTTGCTGCTGGCACTGCTGTCTTGTGCCTCACGGTGGTGTCTTTCTACCAGGTGGCC  
GCCCTGCAAGGGGACCTGGCCAGCCTCCGGGCAGAGCTGCAGGGCCACCACGCGGAGAAGCTGCCAGCAG  
GAGCAGGAGCCCCAAGGCCGGCTGGAGGAAGCTCCAGCTGTACCGCGGGACTGAAAACTTTGAACC  
ACCAGCTCCAGGAGAAGGCAACTCCAGTCAGAACAGCAGAAATAAGCGTGCCGTTTCCAGGTCAGAGAA  
ACAGGATCTTACACATTTGTTCCATGGCTTCTCAGCTTTAAAAGGGGAAGTGCCTTAGAAGAAAAAGAGA  
ATAAAATATTGGTCAAAGAACTGGTTACTTTTTATATATGGTCAGTTTTATATACTGATAAGACCTA  
CGCCATGGGACATCTAATTCAGAGGAAGAAGGTCCATGTCTTTGGGGATGAATTGAGTCTGGTGACTTTG  
TTTCGATGTATTCAAAATATGCCTGAAACTACCCAATAATTCCTGCTATTGAGCTGGCATTGCAAAAC  
TGAAGAAGGAGATGAACTCCAATTGCAATACCAAGAGAAAAATGCACAAATATCACTGGATGGAGATGT  
CACATTTTTTGGTGCATTGAAACTGCTG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >RG227189 representing NM\_001145645  
Red=Cloning site Green=Tags(s)

MDDSTEREQSRLTSLCKKREEMKLEKCVSILPRKESPSVRSSKDGKLLAATLLLALLSCCLTVVSFYQVA  
 ALQGDLASLRAELQGHAEKLPAGAGAPKAGLEEAPAVTAGLKIPEPPAPGEGNSSQNSRNKRAVQGPEE  
 TGSYTFVPWLLSFKRGSAL EEKENKILVKETGYFFIYGQVLYTDKTYAMGHLIQRKKVHVFGDELSLVTL  
 FRCIQNMPETLPNNSCYSAGIAKLEEGDELQLAIPRENAQISLDGDVTFFGALKLL

TRTRPLE - GFP Tag - V

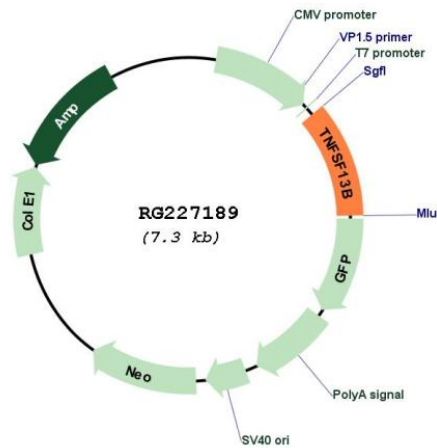
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** NM\_001145645

**ORF Size:** 798 bp

<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_001145645.2</a>
<b>RefSeq Size:</b>	1147 bp
<b>RefSeq ORF:</b>	801 bp
<b>Locus ID:</b>	10673
<b>UniProt ID:</b>	<a href="#">Q9Y275</a>
<b>Cytogenetics:</b>	13q33.3
<b>Protein Families:</b>	Druggable Genome, Secreted Protein, Transmembrane
<b>Protein Pathways:</b>	Cytokine-cytokine receptor interaction
<b>Gene Summary:</b>	<p>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]</p>