

## Product datasheet for **RG203446**

### APRIL (TNFSF13) (NM\_172088) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	APRIL (TNFSF13) (NM_172088) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	APRIL
Synonyms:	APRIL; CD256; TALL-2; TALL2; TNLG7B; TRDL-1; UNQ383/PRO715; ZTNF2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG203446 representing NM_172088 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCAGCCTCATCTCCTTTCTTGCTAGCCCCAAAGGGCCTCCAGGCAACATGGGGGGCCAGTCAGAG  
AGCCGGCACTCTCAGTTGCCCTCTGGTTGAGTTGGGGGGCAGCTCTGGGGCCGTGGCTTGTGCCATGGC  
TCTGCTGACCCAACAACAGAGCTGCAGAGCCTCAGGAGAGAGGTGAGCCGGCTGCAGGGGACAGGAGGC  
CCCTCCAGAATGGGAAGGGTATCCCTGGCAGAGTCTCCGGAGCAGAGTTCGGATGCCCTGGAAGCCT  
GGGAGAGTGGGGAGAGATCCCGAAAAGGAGAGCAGTGCTCACCCAAAAACAGAAGAAGCAGCACTCTGT  
CCTGCACCTGGTTCCCATTAACGCCACCTCAAGGATGACTCCGATGTGACAGAGGTGATGTGGCAACCA  
GCTCTTAGGCGTGGGAGAGGCCTACAGGCCAAGGATATGGTGTCCGAATCCAGGATGCTGGAGTTTATC  
TGCTGTATAGCCAGGTCCTGTTTCAAGACGTGACTTTACCATGGGTGAGGTGGTGTCTCGAGAAGGCCA  
AGGAAGGCAGGAGACTCTATTCCGATGTATAAGAAGTATGCCCTCCACCCGGACCGGGCCTACAACAGC  
TGCTATAGCGCAGGTGTCTTCCATTTACACCAAGGGGATATTCTGAGTGTATAATTCGCCGGGCAAGGG  
CGAAACTTAACCTCTCTCCACATGGAACCTTCTGGGACTT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG203446 representing NM\_172088  
 Red=Cloning site Green=Tags(s)

MPASSPFLAPKPPGNMGGPVREPALSVALWLSWGAALGAVACAMALLTQQTELQSLRREVSRLQGTGG  
 PSQNGEGYPWQSLPEQSSDALEAWESGERSRKRRRAVLTKQKQKQHSVLHLVPIINATSKDDSDVTEVMWQP  
 ALRRRGRGLQAQGYGVRIQDAGVYLLYSQVLFQDVTFTMGQVVSREGQGRQETLFR CIRSMPSHPDRAYNS  
 CYSAGVFHLHQGDILSVIIPRARAKLNLSPHGTFLLGL

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_172088

**ORF Size:** 741 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\\_172088.1](#), [NP\\_742085.1](#)

**RefSeq Size:** 2095 bp

**RefSeq ORF:** 744 bp

**Locus ID:** 8741

**UniProt ID:** [O75888](#)

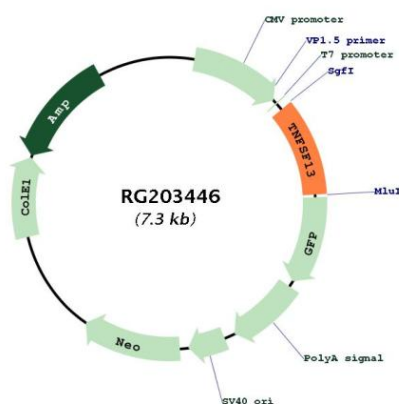
**Cytogenetics:** 17p13.1

**Protein Families:** Druggable Genome, Secreted Protein, Transmembrane

**Protein Pathways:** Cytokine-cytokine receptor interaction

**Gene Summary:** The protein encoded by this gene is a member of the tumor necrosis factor (TNF) ligand family. This protein is a ligand for TNFRSF17/BCMA, a member of the TNF receptor family. This protein and its receptor are both found to be important for B cell development. In vitro experiments suggested that this protein may be able to induce apoptosis through its interaction with other TNF receptor family proteins such as TNFRSF6/FAS and TNFRSF14/HVEM. Alternative splicing results in multiple transcript variants. Some transcripts that skip the last exon of the upstream gene (TNFSF12) and continue into the second exon of this gene have been identified; such read-through transcripts are contained in GeneID 407977, TNFSF12-TNFSF13. [provided by RefSeq, Oct 2010]

## Product images:



Circular map for RG203446