

## Product datasheet for **RG211838**

### **TBX18 (NM\_001080508) Human Tagged ORF Clone**

#### **Product data:**

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                         |
| Product Name:             | TBX18 (NM_001080508) Human Tagged ORF Clone |
| Tag:                      | TurboGFP                                    |
| Symbol:                   | TBX18                                       |
| Synonyms:                 | CAKUT2                                      |
| Mammalian Cell Selection: | Neomycin                                    |
| Vector:                   | pCMV6-AC-GFP (PS100010)                     |
| E. coli Selection:        | Ampicillin (100 ug/mL)                      |



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**ORF Nucleotide Sequence:**

>RG211838 representing NM\_001080508  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCCGAGAAGCGAAGGGGCTCGCCGTGCAGCATGCTAAGCCTCAAGGCGCACGCTTCTCGTGGAGG  
 CGCTGATCGGCGCCGAGAAGCAGCAACAGCTTTCAGAAAGCGGCGAAAAGTGGGCGCCGAGAGCGGC  
 GGGGGCCGTGGACGACGAGGCTGCAGCCGCGGCGGCGGGCGAAAAGGGTCTTCTGAGGGAGAC  
 GAAGGCGCTGCGCTCCCGCCCGGCTGGGGCGACGTCTGGCCGCTCGGAGTGGCGCAGACCTGGAGC  
 GCGGAGCCGCGGCGGCTGTGAGGACGGCTTCCAGCAGGAGCTTCCCCTCTGGCGTACCAGGAGGCTC  
 CCCAAGGGTCTCCGGCGCTCCCTGGCCCGCCGGACCCTCTGCCCTCGCCGAGGCCCGCGG  
 GTGGATCTGCAGGAGCCGAGCTCTGGAAGCGCTTTCATGAGATAGGCACTGAGATGATCATACCAAGG  
 CCGGAGCGCATGTTCCAGCAATGAGAGTGAAGATCTCTGGATTAGATCCTCACCAGCAATATTACAT  
 TGCCATGGATATTGTACCAGTGGACAACAAAAGATACAGGTATGTTTACCACAGTTCGAAATGGATGGT  
 GCAGGTAATGCTGACTCGCTGTGCCACCCGTGTGTACATTCAGACTCGCCTGCCTCGGGGAGAG  
 CTTGGATGAGACAAGTTATCAGCTTCGACAAGCTGAAGCTCACCAACAATGAACTGGATGACCAAGGCCA  
 TATTATTCTTCTATGCACAAATACCAACCGGAGTGCACGTATCCGTAAGACTGTGGAGACGAT  
 CTTTCTCCCATCAAGCCTGTTCCATCCGGGAGGGAGTAAAGGCATTCTCCTTCCAGAACTGTCTTCA  
 CAACCGTCACTGCCTATCAGAATCAGCAGATTACTCGCCTGAAGATAGATAGGAATCCATTTGCTAAAGG  
 CTTCCGAGACTCCGGCGCAACAGAATGGGTTTGAAGCCTTGGTGAATCATATGCATTCTGGCGACCA  
 TCACTACGGACTCTGACCTTTGAAGATATCCCTGGAATCCCAAGCAAGGCAATGCAAGTCTCCACCT  
 TGCTCCAAGTACTGGGAATGGCGTCTCGCCACTCACCTCACCTTTTGTCTGGCTCCTCTTGCTCCTC  
 TCCTGCCTTCCATCTGGGGCCCAACACCAGCCAGCTGTGTAGTCTGGCCCTGCTGACTATTCTGCCTGT  
 GCCCGCTCAGGCCTCACCTCAACCGATACAGCACATCTTGGCAGAGACCTACAACAGGCTCACCAACC  
 AGGCTGGTGGACCTTTGCCCGCCAGGACTCCCTCCTATGTGGGCGTGGAGCAGCAGCCTCCGTGAA  
 CATGTCCATGGGTGGCACTGATGGGACACCTCAGCTGCCACAGACCAGCTTATCCATGCAGATTTG  
 GGAATGTCCCCCAGCTCCAGTATATCATGCCATCACCTCCAGCAATGCCTTCGCCACTAACAGACCC  
 ATCAGGGTTCCTATAATACTTTTAGATTACACAGCCCCTGTGCACTATATGGATAAATCTCCACATC  
 CCCCAACTGGTGCAGTCTGAGAAAATGTTTCTTCCAAGGAAGTTTCTGGGGTCTCCAGGAGT  
 GGGACCATGACGGATCGGCAGATGTTGCCCTGTGGAAGGAGTGCACCTGCTTAGCAGTGGGGTCAAG  
 AGAGTTTCTTACTCTAGGACCCTAGGAAGCTTAACTCTGTCATCATCTCAAGTATCTGCACATATGGT  
 C

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG211838 representing NM\_001080508  
 Red=Cloning site Green=Tags(s)

MAEKRRGSPCSMLSLKAHAFSVEALIGAEEKQQQLQKRRRKLGAEEAAGAVDDGGCSRGGGAGEKGSSEGD  
 EGAALPPPAGATSGPARSGADLERGAAGCEDGFQQGASPLASPGGSPKGSPARSLARPGTLPSPQAPR  
 VDLQGAELWKRFEIGTEMIITKAGRRMFPAMRVKISGLDPHQYYIAMDIVPVDNKRYYVYHSSKWMV  
 AGNADSPVPPRVYIHPDSPASGETWMRQVISFDKLLKLNELDDQGHIIILHSMHKYQPRVHVIRKDCGDD  
 LSPKIPVPSGEGVKAFSFPETVFTVTAYQNQIITRLKIDRNPFAGKFRDSGRNRMGLEALVESYAFWRP  
 SLRSLTFEDIPGIPKQGNASSSTLLQGTGNGVPATHPHLLSGSSCSPAFHLGPNTSQLCSLAPADYSAC  
 ARSGLTLNRYSTSLAETYNRLTNQAGETFAAPPRTPSYVGVSSSTSVNMSMGTDGDTFSCPQTSLSMQIS  
 GMSPQLQYIMPSPSSNAFATNQTHQGSYNTFRLHSPCALYGFNFSTSPKLAASPEKIVSSQGSFLGSSPS  
 GMTMDRQMLPPVEGVHLLSSGGQSQFFDSRTLGSLLSSQVSAHVM

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001080508

**ORF Size:** 1821 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\\_001080508.3](#)

**RefSeq Size:** 4070 bp

**RefSeq ORF:** 1824 bp

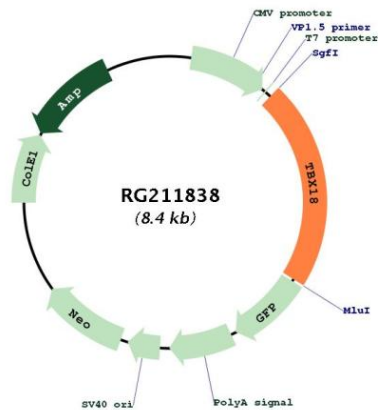
**Locus ID:** 9096

**UniProt ID:** [O95935](#)

**Cytogenetics:** 6q14.3

**Gene Summary:** This genes codes for a member of an evolutionarily conserved family of transcription factors that plays a crucial role in embryonic development. The family is characterized by the presence of the DNA-binding T-box domain and is divided into five sub-families based on sequence conservation in this domain. The encoded protein belongs to the vertebrate specific Tbx1 sub-family. The protein acts as a transcriptional repressor by antagonizing transcriptional activators in the T-box family. The protein forms homo- or heterodimers with other transcription factors of the T-box family or other transcription factors. [provided by RefSeq, Nov 2012]

**Product images:**



Circular map for RG211838