

## Product datasheet for **RG215211**

### ST18 (NM\_014682) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ST18 (NM_014682) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ST18
Synonyms:	NZF-3; NZF3; ZC2H2C3; ZC2HC10; ZNF387
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG215211 representing NM_014682 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGATGCAGAGGCTGAAGATAAAACGCTGCGTACTCGCTCTAAAGGAACCGAGGTGCCAATGGATTCAC  
TAATCCAGGAGCTCAGTGTTCCTATGATTGCTCCATGGCAAAGAAGAGAACAGCTGAAGATCAGGCTTT  
GGGGTCCAGTCAACAAAAGGAAATCCCTGCTAATGAAGCCCCGACACTACAGCCAAAAGCAGACTGC  
CAAGAAGACCGCAGTGACAGGACAGAGGACGATGGCCCCTTGAAACACATGGTCACTCTACCGCAGAGG  
AAATCATGATAAAACCTATGGATGAAAGTCTTCTTCACTGCACAAGAAAACCTCAGTAGGAAGGAAGA  
CAGATACTCTTGTATCAAGAGCTCATGGTCAAGTCTTTAATGCACTTGGGGAAATTTGAAAAAATGTA  
TCTGTTCAAGTGTAAAGTAAATGACAGTGGCATCCAGTCTTTAAAAGCAGAGAGCGATGAAG  
CAGACGAGTGCTTCTGATTCTGATGATGGAAGAGACAAGATTGATGATTCTCAGCCACCCTTCTG  
CTCCTCTGATGACAATGAAAGTAACTCTGAAAGTGCAGAAAATGGCTGGGACAGTGGCTCCAACCTCTCA  
GAAGAAACCAACCACCTAGAGTCCCAAAGTATGTTTTAACAGATCATAAAAAAGACCTATTGGAAGTTC  
CTGAAATAAAACTGAAGTGACAAATTTATCCCTGTGAGAACAGGTGTGATTCTGAAACAGAAAGGAA  
AGACCCGAGAATGCTCTCGCAGAACCCTGGATGGCAATGCCAGCCCTCATCCCTGACGTTGAGGAG  
GAAGATAGCGAGAGCCTGGCAGTAAATGACGGAAGAGGGTGTGACCTGGAAAAGGCAAGGGGAATTTAA  
GTTTGCTGGAGCAGGCAATTGCTCTGCAGGCTGAGCGAGGTTGTGTTTTCCATAACACCTACAAAGAGCT  
GGATAGGTTCTGCTGGAGCACCTAGCAGGGGAAAGGAGGCAAACCAAAGTTATCGACATGGGTGGAAGA  
CAAATCTTTAACAAATAAACATTCACCAAGGCTGAAAAGAGGGAGACCAAGTGCCCGATCCCTGGATGTG  
ATGGCACGGGACAGTGACAGGGCTCTACCCGACACCAGCCTTTGCGGGTGCCCCACAAAGTGCG  
GGTCCCTGGAAATCTTGCCATGCATGAAAATGTGCTCAAGTGTCCCACGCCGGGATGCACAGGAAGG  
GGTCATGTGAACAGCAACCGCAACCCACAGGAGTCTTCTGGTTGTCCAATTGCTGCAGCTGAAAAAT  
TGGCAATGTCCCAGGATAAAAAATCAGCTTGATTCTCCCAAACCTGGGCAGTGTCTGACCAGGCCACAG  
GACAAGTTTGGTGAAGCAAATTGAATTCATTTCCCGTACAAGCCATCACCTCTCCAGAGCCACAGT



TCAAAGAACAAGAGAAGTTTGGAAAAGTACCATTTGATTATGCCAGTTTTGATGCCCAAGTTTTTCGGTA  
AACGCCCTCTCATACAAACAGTGAAGGACGAAAAACACCACCATTTCTGAATCAAAGCATTTCCTCAAA  
TCCAGTGAATTTCTAATCGACTGCCTAGTGCAGGCGCCACACCCAGAGCCCTGGCCGTGCCAGCTCT  
TATAGCTACGGTCAATGTAGTGAAGACACCCACATAGCAGCAGCTGCTGCCATCTGAACTTTTCCACCC  
GCTGCAGGGAAGCCACAGACATCCTCTCCAACAAGCCACAGAGTGCATGCCAAGGGAGCCGAAATAGA  
AGTGGATGAAAATGGCACATTGGACTTAAGCATGAAAAAATCGAATCCTGGACAAGTGCACCCCTA  
ACTTCTCTAACACTTCTATTCCAACCTCTTCTTCCCATTCAAACAAGCAGCATTCTGGTCAATG  
CAGCATTCTATCAGGCTCTTTGTGACCAAGAGGCTGGGACACTCTATCAACTATAGCAAAACTCACGG  
GAAGACAGAGGAGGAGAAAGAGAAAAGACCCAGTGAAGCTCTCTAGAAAATTTAGAGGAAAAAAGTTTCT  
GGAGAGGCTCTATACCAAGCCCTAAACCCAAGCTTCATGCAAGAGATCTCAAAAAGGAATAATCACCT  
GTCCAACACCAGGATGTGATGGAAGTGGCCACGTGACAGGAAACTATGCATCTCATCGCAGTGTTTCTGG  
ATGTCCTTAGCAGATAAGACTTAAAATCCCTCATGGCTGCCAACTCTCAGGAGCTTAAGTGTCCAACC  
CCAGGCTGCGATGGCTCGGGCACGTGACTGAAACTATGCTTCCCACAGAAGCTGTCCGGATGCCCTC  
GTGCAAGGAAAGGTGGTGTCAAATGACCCCTACCAAGGAAGAAAAGAAGCCCTGAAGTAAATGTCC  
TGTGATAGGGTGTGATGGCCAAGGTCACATATCAGGTAATACACATCACACCGCACAGCTTCTGGCTGT  
CCTCTGGCTGCCAAGAGACAGAAGGAGAATCCTCTCAATGGAGCCTCCCTCTCTGGAAACTGAACAAAC  
AAGAGCTACCACATTGTCCCTTGCCAGGCTGCAATGGGCTGGGCCATGTAATAATGTTTTGTACCCCA  
CCGAAGCTTATCTGGATGTCTCTCAATGCACAAGTTATCAAAAAGGGCAAGTTTTCTGAAGAACTCATG  
ACCATCAAGCTCAAAGCAACTGGGGAAATAGAGAGTGTGAAGAAATTAGGCATTTGGATGAAGAAATAA  
AGGAAGTGAATGAATCCAACCTTAAAATGAAGCAGATATGATGAAACTCAGACCCAGATCACATCTAT  
GGAGAGCAACTTAAAGACGATAGAGGAGGAGAACAACCTCATAGAACAGAACAATGAAAGTCTGTGAAA  
GAGCTGGCAGGTCTAAGCCAAGCTCTCATTTCAAGCCTTGCTGACATCCAGCTTCCACAGATGGGACCTA  
TCAGTGAGCAGAATTTTGAAGCATATGTAATACACTCACAGATATGTACAGCAATCTGGAAACGGGACTA  
TTCCCCGGAATGCAAAGCTCTACTGAAAAGTATCAAACAGGCAGTGAAGGGTATCCATGTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG215211 representing NM\_014682  
Red=Cloning site Green=Tags(s)

MDAEAEKTLRTRSKGTEVPMSLIQELSVAYDCSMAKKRTAEDQALGVPVNRKRSLLMKPRHYSKADC  
QEDRSRDEDDGPLETHGHSTAEIIMIKPMDESLSTAQENSSRKEDRYSCYQELMVKSLMHLGKFEKNV  
SVQTVSENLNDSGIQSLKAESDEADECFLIHSDDRDKIDDSQPPFCSSDDNESNSESAENGWDSGSNFS  
EETKPPRVPKYVLTDHKKDLLEVPEIKTEGDKFIPCENRCDSETERKDPQNALAEPLDGNAPSPFDVEE  
EDSESLAVMTEEGSDLEKAKGNLSLLEQAIALQAERGCVFHNTYKELDRFLEHLAGERRQTKVIDMGR  
QIFNKHSPRPEKRETKCPIPGCDGTGHVTGLYPHHRSLSGCPHKVVRVPLEILAMHENVLKPTPGCTGR  
GHVNSNRNTHRSLSGCPIAAAELAMSQDNQLDSPQTGQCPDQAHRTSLVKQIEFNFPQAITSRATV  
SKEQEKFGKVPFDYASFDAQVFGKRPLIQTVQGRKTPPFESKHFNPVFPNRLPSAGAHTQSPGRASS  
YSYGQCSIEDTHIAAAAAIILNLSTRCREATDILSNKPQSLHAKGAEIEVDENGLDL SMKKNRILDKSAPL  
TSSNTSIPTPSSPFKTSILVNAAFYQALCDQEGWDTPINYSKTHGKTEEEKEKDPVSSLENLEEKFP  
GEASIPSPKPKLHARDLKKELITCPTPGCDGSGHVTGNYASHRSVSGCPLADKTLKSLMAANSQELKCP  
PGCDGSGHVTGNYASHRSLSGCPRARKGKVMPTKKEEKDEPELKPVIIGCDGQGHISGKYTSRHTASGC  
PLAAKRQKENPLNGASLWKLNKQELPHCPLPGCNGLGHVNNVFVTHRSLSGCPLNAQVIKKGKVSSELM  
TIKTKATGGIESDEEIRHLDDEEIKELNESNLKIEADMMKLQTIITSMESNLKTIIEENKLEQNESLLK  
ELAGLSQALISSLADIQLPQMGPISQNFAYVNTLTDMYSNLERDYSPECKALLESIKQAVKGIHV

TRTRPLE – GFP Tag – V

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_014682

**ORF Size:** 3141 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.

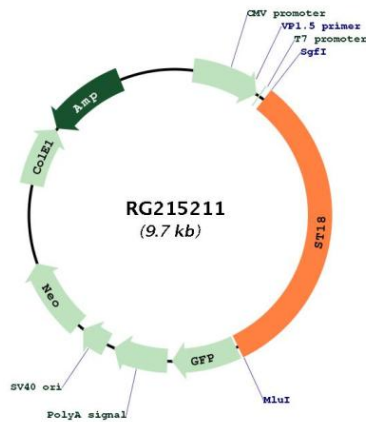
**RefSeq:** [NM\\_014682.2](#), [NP\\_055497.1](#)

**RefSeq Size:** 6183 bp

**RefSeq ORF:** 3144 bp

**Locus ID:** 9705  
**UniProt ID:** [O60284](#)  
**Cytogenetics:** 8q11.23  
**Domains:** zf-C2HC  
**Protein Families:** Transcription Factors  
**Gene Summary:** Repressor that binds to DNA sequences containing a bipartite element consisting of a direct repeat of the sequence 5'-AAAGTTT-3' separated by 2-9 nucleotides. Represses basal transcription activity from target promoters (By similarity). Inhibits colony formation in cultured breast cancer cells.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for RG215211