

## Product datasheet for **RG211915**

### ST7 (NM\_018412) Human Tagged ORF Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids                          |
| Product Name:             | ST7 (NM_018412) Human Tagged ORF Clone       |
| Tag:                      | TurboGFP                                     |
| Symbol:                   | ST7  |
| Synonyms:                 | ETS7q; FAM4A; FAM4A1; HELG; RAY1; SEN4; TSG7 |
| Mammalian Cell Selection: | Neomycin                                     |
| Vector:                   | pCMV6-AC-GFP (PS100010)                      |
| E. coli Selection:        | Ampicillin (100 ug/mL)                       |



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**ORF Nucleotide Sequence:**

>RG211915 representing NM\_018412  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCTGAAGCGGCCACGGGCTTTCTGGAGCAGCTCAAGTCCTGCATAGTTTGGTCTTGACGTATCTGT  
 GGACCGTGTGGTTCTTCATCGTGTATTCTGGTCTACATCCTGCGGGTGCCTTTGAAAATCAACGACAA  
 CTTGAGCACAGTGAAGCATGTTTTTGAACACATTAACACCGAAGTTCTACGTGGCCCTAACAGGCACTTCC  
 TCACTAATATCAGGGCTATTTTGAATTTGAATGGTGGTATTTTCGAAATACGGAACCTCATTCACTG  
 AACAGTCTCAGTAAGCCACTTGCGCCCTTCTGGGAGGGGTTGACAACAACCTTCCAACAATTCTAA  
 TTCCAGTAACGGGGACTCAGATTCCAATAGGCAAAGTGTCTCAGAATGCAAAGTATGGCGAAATCCACTA  
 AATTTATTTAGGGGTGCTGAATACAATCGGTATACTTGGGTGACAGGACGAGAGCCTCTTACTTACTATG  
 ACATGAATCTCTCTGCCAAGACCACCAGACATCTTTACTTGTGACTCGGACCATCTGCGTCCCGCAGA  
 TGCAATAATGCAGAAAGCCTGGAGAGAGAGAAACCCCAAGCTAGGATTTCTGCAGCTCATGAAGCCTTG  
 GAGATAAATGAGTGTGCAACTGCTTATATCTCTTGGCTGAAGAGGAAGCAACAACCATTGCTGAAGCAG  
 AAAAAATTTAAGCAGGCCCTGAAGGCTGGAGATGGCTGTTACCGACGCTCTCAGCAGCTACAACATCA  
 TGGATCCCAGTATGAAGCCCAACATAGACGAGACACCAATGTCTTGGTGTACATCAAAGAAGGCTAGCA  
 ATGTGTGCCAGAAGACTCGGGAGGACCAGGGAAGCAGTAAAAATGATGAGAGATTTAATGAAGGAGTTCC  
 CCCTTCTGAGTATGTTCAATATCCATGAAAACCTTTTAGAAGCCCTTCTGGAACACAAGCATATGCTGA  
 TGTTCAAGCAGTCTTAGCAAAGTATGATGATATAAGCTTACCAAAGTCAACAACAATATGCTACACAGCT  
 GCTTTGCTCAAAGCAAGAGCTGTCTCTGACAAATCTCTCCTGAGGCTGCATCTCGGCGGGGCTGAGCA  
 CAGCAGAGATGAATGCAGTAGAGGCCATTCATAGAGCTGTGGAATTCAATCCTCATGTGCCAAAAATACCT  
 ACTAGAAATGAAAAGCTTAATCCTACCCCAAGACATATCCTGAAGAGAGGAGACAGTGAAGCAATAGCA  
 TATGCATTCTTTCATCTTGCACACTGGAAGAGAGTGAAGGGGCTTTGAATCTTTTGCAATTGACGTGGG  
 AAGGCACTTTTCGGATGATCCCTTATCCCTTGGAAAAGGGGCACCTATTTTATCCTTACCCAATCTGTAC  
 AGAAACAGCAGACCGAGAGCTGCTTCCATCTTCCATGAAGTCTCAGTTTACCAAAGAAGGAGCTTCCC  
 TTCTTTATCTCTTACTGCTGGATTATGTTCTTACAGCCATGCTGGCCCTCTGACACATCAGTTCC  
 CGGAACCTATGGGGTCTTCGAAAAGCTTCTCAGCACTTTGTTTGCCTTAAACTTTGTCATGGA  
 GAAAGTGGAGAGCATCTCCCATCCAGTCTGTGGCACCAGCTAACACGGATC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG211915 representing NM\_018412  
 Red=Cloning site Green=Tags(s)

MAEAAATGFLEQLKSCIVSWTYLWTVWFFIVLFLVYILRVPLKINDNLSTVSMFLNLTLPKFYVALTGTS  
 SLISGLILIFEWYFRKYGTSFIEQVSVSHLRPLLGGVDNNSNNSNNGSDSDSNRQSVSECKVWRNPL  
 NLFRTAEYNRYTWTGREPLTYDMNLSAQDHQTFCTDSDHLRPADAIMQAWRERNPQARISAAHEAL  
 EINECATAYILLAEAEATTIAEAEKLFKQALKAGDGCYRRSQQLQHHGSQYEAQHRRDNTLVYIKRRLA  
 MCARRLGRTRAVKMMRDLMEFPLLSMFNIHENLLEALLELQAYADVQAVLAKYDDISLPKSATICYTA  
 ALLKARAVSDFKFSPEASRRGLSTAEMNAVEAIHRAVEFNPHVPKYLLEMKSLILPPEHILKRGDSEIAI  
 YAFFHLAHWKRVEGALNLLHCTWEGTFRMIPYPLEKGHLYFPYPICTETADRELLPSFHEVSVYPKELP  
 FFILFTAGLCSFTAMLALLTHQFPELMGVFAKFLSTLFAPLNFVMEKVESILPSSLWHQLTRI

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI



|                               |  |
|-------------------------------|--|
| <b>ACCN:</b>                  | NM_018412  |
| <b>ORF Size:</b>              | 1662 bp  |
| <b>OTI Disclaimer:</b>        | 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>   |
| <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_018412.4</a>  |
| <b>RefSeq Size:</b>           | 2045 bp  |
| <b>RefSeq ORF:</b>            | 1665 bp  |
| <b>Locus ID:</b>              | 7982   |
| <b>UniProt ID:</b>            | <a href="#">Q9NRC1</a>   |
| <b>Cytogenetics:</b>          | 7q31.2   |
| <b>Domains:</b>               | ST7  |
| <b>Protein Families:</b>      | Transmembrane  |
| <b>Gene Summary:</b>          | The gene for this product maps to a region on chromosome 7 identified as an autism-susceptibility locus. Mutation screening of the entire coding region in autistic individuals failed to identify phenotype-specific variants, suggesting that coding mutations for this gene are unlikely to be involved in the etiology of autism. The function of this gene product has not been determined. Transcript variants encoding different isoforms of this protein have been described. [provided by RefSeq, Jul 2008] |