

Product datasheet for **RC210079**

ST7 (NM_021908) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ST7 (NM_021908) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ST7
Synonyms:	ETS7q; FAM4A; FAM4A1; HELG; RAY1; SEN4; TSG7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC210079 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTGAAGCGGCCACGGGCTTTCTGGAGCAGCTCAAGTCTGCATAGTTTGGTCTTGACGTATCTGT
 GGACCGTGTGGTTCTTCATCGTGTATTCTGGTCTACATCCTGCGGGTGCCTTTGAAAATCAACGACAA
 CTTGAGCACAGTGAAGCATTGTTTTGAACACATTAAACACCGAAGTTCTACGTGGCCCTAACAGGCACTTC
 TCACTAATATCAGGGCTATTTTGAATTTGAATGGTGGTATTTTCGAAATACGGAACCTCATTCACTG
 AACAGTCTCAGTAAGCCACTTGCGCCCTTCTGGGAGGGTGGACAACAACCTTCCAACAATTCTAA
 TTCCAGTAACGGGGACTCAGATTCCAATAGGCAAAGTGTCTCAGAATGCAAAGTATGGCGAAATCCACTA
 AATTTATTTAGGGGTGCTGAATACAATCGGTATACTTGGTGACAGGACGAGAGCCTCTTACTTACTATG
 ACATGAATCTCTGCCCCAAGACCACCAGACATCTTTACTTGTGACTCGGACCATCTGCGTCCCGCAGA
 TGCAATAATGCAGAAAGCCTGGAGAGAGAGAAACCCCAAGCTAGGATTTCTGCAGCTCATGAAGCCTTG
 GAGATAAATGAAATTAGTCCAGAGTTGAAGTTCCTTAATTGCTTCTCTACCATCTGGGAGATAAAAT
 TGTACCAAAGTGTGCAACTGCTTATATCTCTTGGCTGAAGAGGAAGCAACAACCATGCTGAAGCAGA
 AAAATTATTTAAGCAGGCCCTGAAGGCTGGAGATGGCTGTTACCGACGCTCTCAGCAGCTACAACATCAT
 GGATCCCAGTATGAAGCCCAACATAGACGAGACACCAATGTCTTGGTGTACATCAAAAAGAAGGCTAGCAA
 TGTGTGCCAGAAGACTCGGGAGGACCAGGGAAGCAGTGAATAATGAGAGATTTAATGAAGGAGTTCCC
 CCTTCTGAGTATGTTCAATATCCATGAAAACCTTTTGAAGCCCTTCTGGAACACAAGCATATGCTGAT
 GTTCAGGCAGTCTTAGCAAAGTATGATGATATAAGCTTACCAAAGTCAGCAACAATATGCTACACAGCTG
 CTTTGTCAAAGCAAGAGCTGTCTCTGACAAATCTCTCCTGAGGCTGCATCTCGGCGGGGGCTGAGCAC
 AGCAGAGATGAATGCAGTAGAGGCCATTATAGAGCTGTGGAATCAATCCTCATGTGCCAAAATACCTA
 CTAGAAATGAAAAGCTTAACTCTACCCCAAGAACATATCCTGAAGAGAGGAGACAGTGAAGCAATAGCAT
 ATGCATCTTTTCACTTGCACACTGGAAGAGAGTGAAGGGGCTTTGAATCTTTTGCATTGTACGTGGGA
 AGGCACTTTTCGGATGATCCCTTATCCCTTGGAAAAGGGGCACCTATTTTATCCTTACCCAATCTGTACA
 GAAACAGCAGACCAGAGCTGCTCCATCTTCCATGAAGTCTCAGTTTACCCAAAGAAGGAGCTTCCCT
 TCTTTATCTCTTACTGCTGGATTATGTTCTTACAGCCATGCTGGCCCTCTGACACATCAGTTCCC
 GGAACCTATGGGGTCTTCGAAAAGCTATGATTGACATTTTCTGCTCGGCAGAGTTCAGGGACTGGAAT
 TGCAAGAGTATTTTCATGCGTGTGAAGATGAACTGGAATCCCTCCGGCACCTCAATCTCAACATTTCC
 AAAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC210079 protein sequence
 Red=Cloning site Green=Tags(s)

MAEATGFLEQLKSCIVSWTYLWTVWFFIVLFLVYILRVPLKINDNLSTVSMFLNLTLPKFYVALTGTS
 SLISGLILIFEWYFRKYGTSFIEQVSVSHLRPLLGGVDNNSNSNSNGSDSNRQSVSECKVWRNPL
 NLFrgAEYnryTWVtGREPLTYyDMNLSAQDHQTFFTCDSDHLRPADAIMQKAWRERNPQARISAAHEAL
 EINEIRSrvePLIASSTIWEIKLLPKCATAYILLAEEEATTIAEAEKLFKQALKAGDGCYRRSQQLQHH
 GSQYEAQHRRDtnVLYIKRRLAMCARRLGRtREAVKMMRDLmKEFPLLSMFNIHENLLEALLELQAYAD
 VQAVLAKYDDISLpKSATICyTAALLKARAVSDKFspeAASRRGLStAEMNAVEAIHRAVEFNPHVPKYL
 LEMKSLILPPEHILKRGDSEAIAYAFFHLAHWKRVEGALNLLHCTWEGTFRMIPYPLEKGHLFYPYPICT
 ETADRELLPSFHEVSVYPKELPFFILFTAGLCSFTAMLALLTHQFPELMGVFAKAMIDIFCSAEFRDWN
 CKSIFMRVEDELEIPPAPQSQHFQN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6677_f12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_021908

ORF Size: 1755 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_021908.3](#)

RefSeq Size: 2970 bp

RefSeq ORF: 1758 bp

Locus ID: 7982

UniProt ID: [Q9NRC1](#)

Cytogenetics: 7q31.2

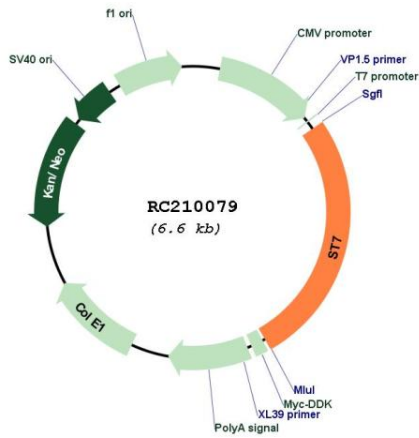
Domains: ST7

Protein Families: Transmembrane

MW: 67.2 kDa

Gene Summary: 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]

Product images:



Circular map for RC210079