

Product datasheet for **RR213771**

ST7 (NM_001004102) Rat Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | ST7 (NM_001004102) Rat Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | ST7 |
| Synonyms: | MGC124523 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide Sequence:

>RR213771 representing NM_001004102
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCGAGGCGGGCTCGGGCTTCTGGAGCAGCTCAAGTCTGCATCGTGTGGTCTGGACCTATCTGT
 GGACCGTGTGTTCTTCTCGTCTCTTCTGGTCTACATCCTGAGGGTGCCCTGAGGATCAACGACAA
 TCTGAGCACAGTGAAGTGTGTTTGAACACGTTAACCCCAAAGTCTACGTGGCCCTGACAGGCACTTCC
 TCACTAATATCGGGACTTATTTGATATTTGAATGGTGGTATTTTCGCAAGTATGGAACATCGTTCATTG
 AACAACTCTCAGTGAAGCACTTGCAGCCCTTCTGGTGGGGTGGACAACAACCTTCCAATAATTCTAA
 TTCCAGTAAATGGGGACTCAGATTCCAACAGGCAAAGTGTCTCAGAATGCAAAGTATGGCGAAATCCACTG
 AATTTGTTTAGGGGTGCTGAATAACAATCGGTACACTTGGGTACAGGACGAGAGCCTCTGACCTACTATG
 ACATGAACCTCTCTGCCAAGACCACCAGACCTCTTTACCTGTGACTCGGACCATCTCCGTCGCCGAGA
 TGCAATAATGCAAAAAGCGTGGAGAGAGAGGAACCTCAAGCCAGGATTTCTGCAGCCCATGAAGCTTTG
 GAGATAAATGAGTGTGCAACTGCTTATATCTCTTGGCTGAAGAGGAAGCCACAACCTATTGCTGAAGCAG
 AAAAGCTCTTAAAGCAGGCCCTGAAGGCTGGAGATGGTTGTTACCGCGTCTCAGCAGCTACAACATCA
 TGGCTCCCAGTATGAAGCTCAACACAGACGAGACCAATGTCTTGGTCTATATCAAAAAGAGGCTGGCA
 ATGTGTGCCCGGAGACTTGAAGGACCAGAGAAGCCGTGAAGATGATGAGAGATTTAATGAAGGAGTTTC
 CCCTCTTAAGCATGTTCAATATCCATGAAAACCTTCTAGAAGCTCTTCTGGAACCTCAAGCCTATGCGGA
 TGTTCAAGCAGTCTTAGCAAAGTATGATGATAAGCTTACCAAAGTCGCAACAATATGCTACACAGCG
 GCCCTGCTCAAAGCAAGAGCTGTCTCTGACAAATCTCTCCAGAGGCTGCATCTCGGCGGGGCTGAGCA
 CAGCAGAGATGAATGCAGTAGAAGCCATTCACAGAGCTGTGGAATTTAATCCACACGTGCCAAAAATATCT
 GCTAGAAAATGAAAAGCTTAATCCTCCACAGAGCACATCCTGAAGAGAGGAGACAGTGAAGCAATAGCA
 TATGCATTCTTTCATCTTGCACACTGGAAGAGGGTGAAGGGGCTTTGAATCTCTTGCATTGTACGTGGG
 AAGGCACTTTCGGATGATCCCATATCCTCTGGAGAAGGGGCACCTATTTTATCCATACCAATCTGTAC
 AGAGACAGCTGACCGGGAGCTACTTCCCTCTTCCATGAAGTCTCAGTTTACCAAAGAAGGAACTTCCC
 TTCTTCATCCTTCTACTGCTGGATTGTGTTCTTCCAGCCATGCTGGCCCTCTGACACATCAGTTTC
 CGGAACCTATGGGAGCTTCGCAAAAAGCTTCTCAGCACTTTGTTTGCCCTTGAACCTTGTATGGA
 GAAAGTGAAAGCATCTCCCTCCAGTTGTGGCATCAGCTAACACGGATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR213771 representing NM_001004102
 Red=Cloning site Green=Tags(s)

MAEAGSGFLEQLKSCIVSWTYLWTVWFFLVFLVYILRVPLRINDNLSTVSMFLNLTLPKFYVALTGTS
 SLISGLILIFEWYFRKYGTSFIEQVSVSHLRPLLGGVDNNSNNSNNGSDSDSNRQSVSECKVWRNPL
 NLFRTAEYNYRWVTGREPLTYDMNLSAQDHQTFCTDSDHLRPADAIMQAWRERNPQARISAAHEAL
 EINECATAYILLAEAEATTIAEAEKLFKQALKAGDGCYRRSQQLQHHGSQYEAQHRRDNTNLVYIKRRLA
 MCARRLGRTREAVKMMRDLMEFPLL SMFN IHNLL EALLELQAYADVQAVLAKYDDISLPKSATICYTA
 ALLKARAVSDFK SPEAASRRGLSTAEMNAVEAIHRAVEFNPHVPKYLLEMKSLILPPEHILKRGDSEIAI
 YAFFHLAHWKRVEGALNLLHCTWEGTFRMIYPYPLEKGHLYFPYPICTETADRELLPSFHEVSVYPKKELP
 FFILFTAGLCSFTAMLALLTHQPELMGVFAKAFSTLFAPLNFVMEKVESILPSSLWHQLTRI

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001004102

ORF Size: 1662 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_001004102.1](#), [NP_001004102.1](#)

RefSeq Size: 2098 bp

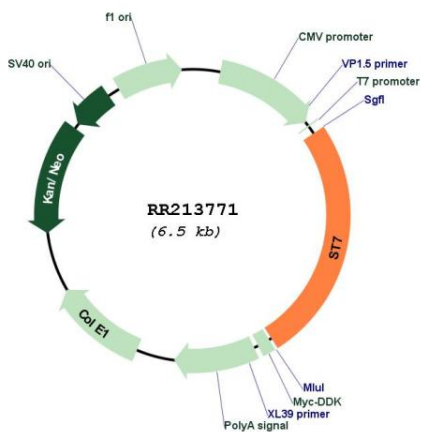
RefSeq ORF: 1665 bp

Locus ID: 296911

Cytogenetics: 4q21

MW: 63.5 kDa

Product images:



Circular map for RR213771