

Product datasheet for **RR201679**

Stc2 (NM_022230) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Stc2 (NM_022230) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Stc2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR201679 representing NM_022230
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGTGCGGAGCGGCTGGGCCAGTTCGTGACCCTGGCTTTGGTGTGGCCACCTGGACCTGCGCGAG
GGACGGACTCCACGAACCCTCCGGAAGGTCCCCAAGACAGGGGCTCCAGCAGAAAAGCCGCCTGTCCCT
GCAGAACACAGCGGAGATCCAGCACTGTTGGTCAACGCCGGGACGTGGGGTGTGGTGTGTTGAGTGC
TTCGAGAACAACTCTTGTGAAATCCAGGGCTTACATGGGATTTGCATGACGTTTCTGCACAACGCTGGAA
AATTTGATGCCAGGCAAGTCATTCATCAAGGATGCCCTGAGGTGCAAGGCCCATGCCCTGCGGCATAA
ATTTGGCTGCATCAGCAGGAAGTGTCCGGCAATTAGGAAATGGTTTACCAGTTGCAGAGGGAATGCTAT
CTCAAGCACGACCTGTGCTCGGCAGCGCAGGAGAACGTCGTGATTGTGGAGATGATTCATTTCAAGG
ATCTCCTGCTGCATGAACCCTACGTGGACCTTGTAAACCTGCTGCTGACCTGTGGGAAGACGTGAGGGA
GGCGGTCACCGAAGCGTCCAGGCTCAGTGTGAACAGAGCTGGGAGGCCTCTGCTCCATCCTGAGTTTC
TGCACCTCCAACATACAGAGACCCCTACCGCAGCCCGGAGCATCAGCCCTGGCAGACAGGGCCACG
TCTCCAGACCTTACCACGGGACACCGACCACCACCTAACAGCCAACAGAGGTGCCAAGGGTGAAGCAGG
GAGCAAAAGCCACCTGCATGCCATGCTCGAGGCGGAGCAGGTGGCCAGAGTGCCCAAGGACCTCTGGA
AGCAGTGAGTGGGAAGACGAACAGTCTGAGTATCCGACATCCGGAGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR201679 representing NM_022230
 Red=Cloning site Green=Tags(s)

MCAERLGQFVTLALVFATLDPARGTDSTNPPEGPQDRGSQQKGRLSLQNTAEIQHCLVNAGDVGCGVFEC
 FENNSCEIQGLHGICMTFLHNAGKFDAQKSF IKDALRCKAHALRHKFGCISRKCPAIREM VYQLQRECY
 LKHDLCSSAAQENVVIVEMIHFKDLLLHEPYVDLVNLLLTCGEDVREAVTRSVQAQCEQSWGGLCSILSF
 CTSNIQRPPPTAAPEHQPLADRAQLSRPYHRDTHHLLTANRGAKGERGSKSHLHAHARGGAGGQSAQGPSG
 SSEWEDEQSEYSDIRR

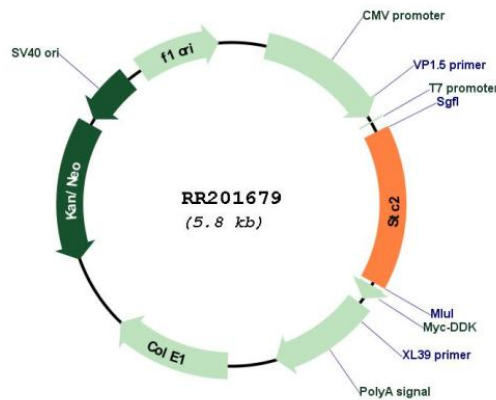
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_022230

ORF Size:	888 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:	<ol style="list-style-type: none">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_022230.2 , NP_071566.1
RefSeq Size:	910 bp
RefSeq ORF:	891 bp
Locus ID:	63878
UniProt ID:	Q9R0K8
Cytogenetics:	10q12
MW:	32.6 kDa
Gene Summary:	has opposite effects on calcium and phosphate homeostasis as compared to Stc1 [RGD, Feb 2006]