

## Product datasheet for **RG208622**

### **SRC (NM\_005417) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	SRC (NM_005417) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SRC
Synonyms:	ASV; c-SRC; p60-Src; SRC1; THC6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG208622 representing NM\_005417  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGGTAGCAACAAGAGCAAGCCCAAGGATGCCAGCCAGCGGCCGCGCAGCCTGGAGCCCGCCGAGAACG  
 TGCACGGCGCTGGCGGGGGCGCTTTCCCGCCTCGCAGACCCCAAGCAAGCCAGCCTCGGCCGACGCCA  
 CCGCGGCCCCAGCGCGGCCCTTCGCCCGCGGCCGCGCAGCCCAAGCTGTTCCGGAGGCTTCAACTCTCG  
 GACACCGTCACCTCCCGCAGAGGGCGGCCCGCTGGCCGGTGGAGTGACCACCTTTGTGGCCCTCTATG  
 ACTATGAGTCTAGGACGGAGACAGACCTGTCTTCAAGAAAGGCGAGCGGCTCCAGATTGTCAACAACAC  
 AGAGGGGAGACTGGTGGCTGGCCACTCGCTCAGCACAGGACAGACAGGCTACATCCCAGCAACTACGTG  
 GCGCCCTCCGACTCCATCCAGGCTGAGGAGTGGTATTTGGCAAGATCACCAGACGGGAGTCAGAGCGGT  
 TACTGCTCAATGCAGAGAACCCGAGAGGGACCTTCTCGTGCAGAAAAGTGAGACCAGAAAGGTGCCTA  
 CTGCCCTCAGTGTCTGACTTCGACAACGCCAAGGGCCTCAACGTGAAGCACTACAAGATCCGCAAGCTG  
 GACAGCGCGCGCTTCTACATCACCTCCCGCACCCAGTTCAACAGCCTGCAGCAGCTGGTGGCCTACTACT  
 CCAAACACGCCGATGGCCTGTGCCACCCGCTCACCACCGTGTGCCCCACGTCCAAGCCGACAGACTCAGGG  
 CCTGGCCAAGGATGCCTGGGAGATCCCTCGGGAGTCCGCTGCGGCTGGAGGTCAAGCTGGGCCAGGGCTGC  
 TTTGGCGAGGTGTGGATGGGGACCTGGAACGGTACCACCAGGGTGGCCATCAAAACCTGAAGCCTGGCA  
 CGATGTCTCCAGAGGCCCTTCTGCAGGAGGCCAGGTCATGAAGAAGCTGAGGCATGAGAAGCTGGTGCA  
 GTTGTATGCTGTGGTTTCAGAGGAGCCATTTACATCGTCACGGAGTACATGAGCAAGGGGAGTTTGCTG  
 GACTTTCTCAAGGGGAGACAGGCAAGTACCTGCGGCTGCCTCAGCTGGTGGACATGGCTGCTCAGATCG  
 CCTCAGGCATGGCGTACGTGGAGCGGATGAACACTCCACCGGGACCTTCGTGCAGCCAACATCCTGGT  
 GGGAGAGAACCCTGGTGTGCAAAAGTGGCCGACTTTGGGCTGGCTCGGCTCATTGAAGACAATGAGTACACG  
 GCGCGCAAGGTGCCAAATTCCCATCAAGTGGACGGCTCCAGAAGCTGCCCTCTATGGCCGCTTACCA  
 TCAAGTCGGACGTGTGGTCTTCGGGATCCTGCTGACTGAGCTCACCACAAGGGACGGGTGCCCTACCC  
 TGGGATGGTGAACCGCGAGGTGCTGGACCAGGTGGAGCGGGGCTACCGGATGCCCTGCCCGCCGAGTGT  
 CCCGAGTCCCTGCACGACCTCATGTGCCAGTGTGGCGGAAGGAGCCTGAGGAGCGGCCACCTTCGAGT  
 ACCTGCAGGCCTTCTGGAGGACTACTTACGTCCACCGAGCCCCAGTACCAGCCGGGGAGAACCTC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG208622 representing NM\_005417  
 Red=Cloning site Green=Tags(s)

MGSNKSQPKDASQRRRSLEPAENVHGAGGGAFFASQTPSKPASADGHRGPSAAFAPAAAEPKLFGGFNSS  
 DTVTSPQRAGPLAGGVTTFFVALYDYESRTETDLSEFKKGERLQIVNNTGDDWLLAHSLSGQTGYIPSNYV  
 APSDSIQAEWYFGKITRRESERLLNAENPRGTFVRESETTKGAYCLSVSDFDNAKGLNVKHYKIRKL  
 DSGGFYITSRTQFNLSLQQLVAYYSKHADGLCHRLTTVCPTSKPQTQGLAKDAWEIPRESLRLEVKLGQGC  
 FGEVWMGTWNGTTRVAIKTLKPGTMSPEAFLQEAQVMKKLRHEKLVQLYAVVSEEPYIYIVTEYMSKGSLL  
 DFLKGETGKYLRPLQVDMAAQIASGMAYVERMNYVHRDLRAANILVGENLVCKVADFLARLIEDNEYT  
 ARQGAKFPIKWTAPEAALYGRFTIKSDVWSFGILLTELTTKGRVPYPMVMNREVLQVERGYRMPCPPEC  
 PESLHDLMCQWRKEPEERPTFEYLQAFLEDYFTSTEPQYQGENL

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



ACCN: NM\_005417

ORF Size: 1608 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\\_005417.4](#)

RefSeq Size: 4145 bp

RefSeq ORF: 1611 bp

Locus ID: 6714

UniProt ID: [P12931](#)

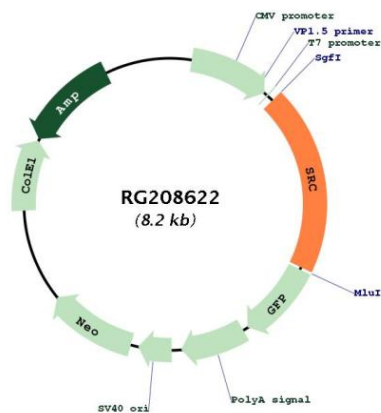
Cytogenetics: 20q11.23

**Protein Families:** Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase, Stem cell relevant signaling - JAK/STAT signaling pathway

**Protein Pathways:** Adherens junction, Endocytosis, Epithelial cell signaling in Helicobacter pylori infection, ErbB signaling pathway, Focal adhesion, Gap junction, GnRH signaling pathway, Tight junction, VEGF signaling pathway

**Gene Summary:** This gene is highly similar to the v-src gene of Rous sarcoma virus. This proto-oncogene may play a role in the regulation of embryonic development and cell growth. The protein encoded by this gene is a tyrosine-protein kinase whose activity can be inhibited by phosphorylation by c-SRC kinase. Mutations in this gene could be involved in the malignant progression of colon cancer. Two transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RG208622