

## Product datasheet for **MC223691**

### St5 (NM\_001001326) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** St5 (NM\_001001326) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** St5  
**Synonyms:** 2010004M01Rik; 2610305K15Rik  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC223691 representing NM\_001001326  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGACCATGACTGCCAACAGAAGCTCCAGCATCACTCATGGAACCGGAGGCACTAAGGCCCTCGGGAGA  
CGCTGAGCAGGTCTCAGTCAGTCTCTCCACCTCCAGTTTTATACCCACCAAGAAGTCCCATCTACCCACT  
CAGTGACAGTGAAACCTCAGCCTGCAGGTACCCAGCCACTCTAAATCCCAGGTGCTCCTCAAGGACCGG  
CATTCTCGAAATCCTTCACTCCTAGGTCAAGATCCGTCGCCAGAAACCTCACCACCCATTGTACCCCTCA  
AGGCTACCAGCTTCAGCTATTTGGACAGAACCCCTTCATTACGCAAAAAGAGAGGACCAGAAGGAGACTGT  
CCAGGGTGCAGTCCAGGATGTAGAAGGTGTGGCTGCTTGCCTCCCCCTTGCCAGAGCACCCATTCCCTA  
GGGGCCGGGTCTCGGAGTGTCTTGTGAGTTGCACTGGTACCCGAGCCATAGCCTGGGTATCCGAGAGA  
AGATCTCAGCATGGGAAGGTCCGCCGAGAGGCTTACCCAGGATGAGTCTGTGTGGAGAGAAGCGGGAGGG  
CCCTGGGAGCGAGTGGTCCGTGAGTGGGGCTGCCCCAGTGTGGGCTGCCCCAGTGTGGTGCATCCCC  
TGCAGCTCAGAAAAGACCTTTGATTTCAAAGCCCTCCGGAGGATGAGCAGGACCTTCTCTGAGTGTTCCT  
ACCCCGAGACAGAGGAGGAGGCAGAGGCACTTCTGGACGGGACTTTTATACCGGCTGGAGAAGCGTCC  
AGGCCGACTGAGCCAGTGCCTTGCTCAGGGGCAATGGCATCAGGAAAGAGAGCTCAGCAGTGTGAGC  
CGGATCCAGAAGATCGAACCAAGCCCTAAAGGAGCAGCCTGGCCGGGGTCTCCCCAGCTCCCTAGCAGCT  
GCTACAGTGTAGACCAAGGGAGGAGGAAGACTGGAACCTTTGGCACCTTGAGGAGCCAACAGGAAGTGC  
AAGTGTAAAGCCAGCAGCAGGGCAGGAGGAGTGGCCGGAGTTGCTGGGAGGCAGGCCACCCCTGGAC  
AGGGAAGGCAGTGTCTCCATGAAGTCAGAGACCCCTGGAATAGCTCCAGTCCCCAGTGTCTGCCTCCGA  
AGAGCTCCCTGATCCAGCTGTGAACCTGTTCCCAAACCAAGCGTACCTTTGAGTACGAGGCTGACAA  
GAATCCTAAGACTAAGCCAAGCAATGGTCTACCTCCTTACCCACACCTGCTGCTCCACCCCTTGCCT  
TCCACCCAGCCCAAGTCAACCGGAGACCCAAAGAAGGACATGCGTGGTCAACCGAAGTCAACAGAACA  
GAAAATCCTTCGAGTTTGAAGATGCATCAGTCTCCAATCCCTGTATCCCTCTTCTCCTACTGAGAAATGG  
TACTGAGAGTCAACCAAGTTTGGATCCAAAAGCACTTTAGAAGAGAATGCCTATGAAGATATTGTGGGA  
GGGCTTCCCAAGGAGAATCCCTACGAGGATGTGGACTTAAAGAACCGGAGAGCTGGACGAAAATCCACAGC



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AACTGTCTGAGAACTCCTTGACTCTTTGCACAGGATGTGGAGTCCCAAGACAGGAAGTACAACCACC
ACCCATGCAGCTGTCCCTGAAGTCCAACAGCCAGTCCCTGCGCAGTGGAACTGGT CAGAAAGGAAGAGC
CATCGTTTGCCACGATTACCCAAGAGGCATAGCCATGATGACATGATGCTGTTGGCTCAGCTGAGCCTGC
CATCTTACCCTCCAGCCTCAATGAGGACAGCCTCAGCACCACAAGT GAGCTGCTGTCCAGCCGAGGTC
CCGCCGATTCCAAGCTGTCCAAGAATTA AACTCTATCTATAATGCCAAGAGAGGAAAAGAAGAGGTTG
AAAAAGCTGTCTATGTCCAGCCTTGAGACAGCATATTGAGAGATGAGAACAGT GAAAGCGAGAGTGACT
CTGATGACAGGTTCAAAGCCCACACCCAGCGCTTGGTCCACATCCAGTCGATGCTGAAGCGAGCGCCAG
CTATCGGACGCTGGAGCTGGAGCTGCTCGAGTGGCAGGAGCGGGAGCTTTTTGAGTACTTTGTGGTTGTG
TCCTCAAGAAGAAGCCATCTCGGAACCTACCTCCCTGAAGTCTCCTATCAGTTTCCAAGCTGGACC
GTCCACCAAACAGATGCGGGAGGCAGAAGAAAGGCTCAAAGCTATCCCCAGTTTTGCTTCCGGATGC
CAAGGACTGGCTCCCTGTGTCAGAATACAGCAGT GAAACCTTTTCTTTCATGCTGACTGGGGAAGATGGC
AGCAGGCGCTTTGGCTATTGTAGGCGTTACTGCCAAGTGGGAAAGGGCCTCGGTTGCCAGAGGTGACT
GTGTCATCAGCCGCTAGGCTGCTCGGTTGTTTTCAAAGTCTAGATGAGGTGGAGCGCCGGCGTGG
GATCTCAGCTGCACTGGTCTACCCCTTCATGAGAAGTCTCATGGAATCGCCCTTCCAGCCCAGGGAAA
ACCATCAAAGTGAAGACATTTCTCCCGCGCTGGCAATGAGGTGTTAGAGCTGCGTCGGCTATGGACT
CCGCCTGGAGCAGTGGACTTTGAGTGCTCTTACCTGCCTCAGTGTGCGTCAGCTTATCCGAATCTT
TGCTCATTGCTGTTGGAACGCAGAGTCATTTTTGTAGCAGATAAGCTCAGTACCCTGTCCAGCTGCTCT
CACGCGGTGGTGGCCTTGCTCTACCCCTTCTCCTGGCAGCACACATTCATTCTGTCTCCAGCCTCCA
TGATTGACATTGTCTGCTGTCCACCCCTTCTCGTTGGCCTGCTCTCCAGCTCCCTTCCCAAAGTAA
GGAGCTGCCTGTGGAAGAGGCACTGATGGTGAATCTGGGATCTGACCGATTATCCGACAGATGGACGAC
GAGGACACACTGTTACCTAGAAAGTTGCAAGCTGCTCTGGAGCAGGCTCTGGAGAGGAAGAGTGAGCTCA
TCTCCAGGACTCTGACAGTACTCTGATGATGAATGTAATACCCCTCAATGGACTTGTGTGAGAGGTTG
TATCCGGTCTTTGTGGAGACTGTGGTCACTACTCCCTTCCCTGACACACAGT GAGAAGGGGAAAGG
GCTTTTACGCGAGAGGCCTCCGCAAGTCTGTGGCTCCAAAAGTATCCGCCGTTTTCTGAAAGTTTTTA
TGAATCTCAGATGTTTGTGGCTTCCATCCAAGCAGGGAGCTAAGGAAGTGTGAGCAGCAAGGGCCTCT
TGAGCAGAGAGTGAACAGTATCTAGAAGAGCTCCCTGACACTGAGCAGAGCGGGATGAACAAGTTTCTC
CGGGGCTGGCAACAAGATGAAGTTCTCCACAAGAAGAATAA
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**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001001326
- Insert Size:** 3405 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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\\_001001326.1](#), [NP\\_001001326.1](#)

RefSeq Size: 4255 bp

RefSeq ORF: 3405 bp

Locus ID: 76954

UniProt ID: [Q924W7](#)

Cytogenetics: 7 57.27 cM

**Gene Summary:** Isoform 1: May be involved in cytoskeletal organization and tumorigenicity. Seems to be involved in a signaling transduction pathway leading to activation of MAPK1/ERK2. Plays a role in EGFR trafficking from recycling endosomes back to the cell membrane.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) encodes the longer protein (isoform 1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.