

Product datasheet for **MC221022**

St5 (NM_029811) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	St5 (NM_029811) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	St5
Synonyms:	2010004M01Rik; 2610305K15Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC221022 representing NM_029811
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACCATGACTGCCAACAAAGAACTCCAGCATCACTCATGGAACCGGAGGCACTAAGGCCCTCGGGAGA
 CGCTGAGCAGAAAATCCTTCGAGTTTGGAGATGCATCCAGTCTCCAATCCCTGTATCCCTTCTCCTAC
 TGAGAATGGTACTGAGAGTCAACCCAAGTTTGGATCCAAAAGCACTTTAGAAGAGAATGCCTATGAAGAT
 ATTGTGGGAGGGCTTCCCAAGGAGAATCCCTACGAGGATGTGGACTTAAAGAACCGGAGAGCTGGACGAA
 AATCCCAGCAACTGTCTGAGAACTCCTTGGACTCTTTCACAGGATGTGGAGTCCCAAGACAGGAAGTA
 CAACCACCCACCCATGCAGCTGTCCCTGAAGTCCAACAGCCAGTCCCTGCGCAGTGGAACTGGTCAGAA
 AGGAAGAGCCATCGTTTGCACGATTACCCAAGAGGCATAGCCATGATGACATGATGCTGTTGGCTCAGC
 TGAGCCTGCCATCTTACCCTCCAGCCTCAATGAGGACAGCCTCAGCACCACAAGTGAGCTGCTGCCAG
 CCGCAGGTCCCGCCGATTCCCAAGCTTGTCCAAGAATTAAGTCTATCTATAATGCCAAGAGAGGAAAAG
 AAGAGGTTGAAAAGCTGTCTATGTCCAGCCTTGAGACAGCATCATTGAGAGATGAGAACAGTGAAGCG
 AGAGTGACTCTGATGACAGGTTCAAAGCCACACCCAGCGCTTGGTCCACATCCAGTCGATGCTGAAGCG
 AGCGCCAGCTATCGGACGCTGGAGCTGGAGCTGCTCGAGTGGCAGGAGCGGGAGCTTTTGGAGTCTTT
 GTGGTTGTGCCCTCAAGAAGAAGCCATCTCGAACACCTACCTCCCTGAAGTCTCCTATCAGTTTCCCA
 AGCTGGACCGTCCCAACACAGATGCGGGAGGCAGAAGAAAGGCTCAAAGCTATCCCCAGTTTTGCTT
 TCCGGATGCCAAGGACTGGCTCCCTGTGTGAGAATACAGCAGTGAACCTTTTCTTTCATGCTGACTGGG
 GAAGATGGCAGCAGGCGCTTTGGCTATTGTAGGCGCTTACTGCCAAGTGGGAAAGGGCTCGGTTGCCAG
 AGGTGTACTGTGTATCAGCCGCTAGGCTGCTCGGTTTGTTCCTCAAGTCTAGATGAGGTGGAGCG
 CCGGCGTGGGATCTCAGCTGCAGTGGTCTACCCCTTCATGAGAAGTCTCATGGAATCGCCCTTCCAGCC
 CCAGGGAAAACCATCAAAGTGAAGACATTTCTCCCGGCGCTGGCAATGAGGTGTTAGAGCTGCGTCGGC
 CTATGGACTCCCGCTGGAGCACGTGGACTTTGAGTGCCTCTTACCTGCCTCAGTGTGCGTCAGCTTAT
 CCGAATCTTGCCTCATTGCTGTTGGAACGCAGAGTCATTTTTGTAGCAGATAAGCTCAGTACCCTGTCC
 AGCTGCTCTCACGCGGTGGTGGCCTTGTCTACCCCTTCTCCTGGCAGCACACATTCACTTCTGCTCC
 CAGCCTCCATGATTGACATTGTCTGCTGTCCACCCCTTCTCCTGGTTGGCCTGCTCTCCAGCTCCCTCC
 CAAACTGAAGGAGCTGCCTGTGGAAGAGGCACTGATGGTGAATCTGGGATCTGACCGATTATCCGACAG
 ATGGACGACGAGGACACACTGTTACCTAGAAAGTTGCAAGCTGCTCTGGAGCAGGCTCTGGAGAGGAAGA
 GTGAGCTCATCTCCAGGACTCTGACAGTGAAGTCTGATGATGAATGTAATACCCTCAATGGACTTGTGTC
 AGAGGTGTTTATCCGGTTCTTTGTGGAGACTGTGGGTCACTACTCCCTCTTCTGACACACAGTGAGAAG
 GGGGAAAGGGCTTTTTCAGCGAGAGGCCTTCCGCAAGTCTGTGGCCTCCAAAAGTATCCGCGCTTTTCTTG
 AAGTTTTTATGGAATCTCAGATGTTTGTGGCTTCAATCAAGACAGGGAGCTAAGGAAGTGTGAGCCAA
 GGGCCTCTTTGAGCAGAGAGTGGAAACAGTATCTAGAAGAGCTCCCTGACACTGAGCAGAGCGGGATGAAC
 AAGTTTCTCCGGGCGCTGGGCAACAAGATGAAGTTCTCCACAAGAAGAAT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_029811

Insert Size: 2154 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:	<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:	<u>NM_029811.2</u> , <u>NP_084087.2</u>
RefSeq Size:	3004 bp
RefSeq ORF:	2154 bp
Locus ID:	76954
UniProt ID:	<u>Q924W7</u>
Cytogenetics:	7 57.27 cM
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) lacks an alternate in-frame exon, compared to variant 1. The resulting protein (isoform 2) is shorter when it is compared to 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.</p>