

Product datasheet for **MR209385**

St5 (BC030391) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	St5
Synonyms:	2010004M01Rik, 2610305K15Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >MR209385 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTGCACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGTGGAGTCCCCAAGACAGGAAGTACAACCACCCACCCATGCAGCTGTCCCTGAAGTCCAACAGCCAGT
 CCCTGCGCAGTGGGAAGTGGTCAGAAAGGAAGGCCATCGTTTGCCACGATTACCAAGAGGCATAGCCA
 TGATGACATGATGCTGTTGGCTCAGCTGAGCCTGCCATCTTCACCTCCAGCCTCAATGAGGACAGCCTC
 AGCACCACAAGTGAGCTGCTGTCCAGCCGAGGTCCCAGCGCATTCCCAAGCTGTGCCAAAGAATTAAC
 CTATCTATAATGCCAAGAGAGGAAAGAGGTTGAAAAGCTGTCTATGTCCAGCCTTGAGACAGCATC
 ATTGAGAGATGAGAACAGTGAAAGCGAGAGTGACTCTGATGACAGGTTCAAAGCCACACCCAGCGCTTG
 GTCCACATCCAGTCGATGCTGAAGCGAGCGCCAGCTATCGGACGCTGGAGCTGGAGCTGCTCGAGTGCC
 AGGAGCGGGAGCTTTTGTAGTACTTGTGGTTGTGTCCCTCAAGAAGAAGCCATCTCGGAACACCTACCT
 CCCTGAAGTCTCCTATCAGTTTCCCAAGCTGGACCGTCCCACCAACAGATGCGGGAGGCAGAAGAAAGG
 CTCAAAGCTATCCCCAGTTTTGCTTTCGGATGCCAAGGACTGGCTCCCTGTGTGAGAATACAGCAGTG
 AAACCTTTTCTTCATGCTGACTGGGAAGATGGCAGCAGGCGCTTTGGCTATTGTAGGCGCTTACTGCC
 AAGTGGGAAGGGCCTCGTTGCCAGAGGTGTACTGTGTATCAGCCGCTAGGCTGCTTCGGTTTGT
 TCCAAGGTCTAGATGAGTGGAGCGCCGGCTGGGATCTCAGCTGCAGTGGTCTACCCCTTCATGAGAA
 GTCTCATGGAATCGCCCTTCCAGCCCGAGGAAAACCATCAAAGTGAAGACATTTCTTCCGCGCGCTGG
 CAATGAGGTGTAGAGCTGCGTCGGCTATGGACTCCGCGCTGGAGCACGTGGACTTTGAGTGCCTCTTC
 ACCTGCCTCAGTGTGCGTCAGCTTATCCGAATCTTGCCTATTGCTGTTGGAACGCAGAGTCATTTTGT
 TAGCAGATAAGCTCAGTACCTGTCCAGCTGCTCTACGCGGTGGTGGCCTTGTCTACCCCTTCTCCTG
 GCAGCACACATTATCTGTCTCCAGCCTCCATGATTGACATTGTCTGCTGCCACCCCTTTCCTG
 GTTGGCCTGCTCTCCAGCTCCCTTCCCAAAGTGAAGGAGCTGCCTGTGGAAGAGGCACTGATGGTGAATC
 TGGGATCTGACCGATTATCCGACAGATGGACGACGAGGACACACTGTTACCTAGAAAGTTGCAAGCTGC
 TCTGGAGCAGGCTCTGGAGAGGAAGAGTGAGCTCATCTCCAGGACTCTGACAGTACTCTGATGATGAA
 TGTAAATACCCTCAATGGACTTGTGTGAGAGGTGTTATCCGGTTCTTTGTGGAGACTGTGGGTCACTACT
 CCCTCTTCTGACACAGTGAGAAGGGGAAAGGGCTTTTCAGCGAGAGGCTTCCGCAAGTCTGTGGC
 CTCCAAAGTATCCGCGTTTTCTTGAAGTTTTATGGAATCTCAGATGTTTGTGGCTTCATCCAAGAC
 AGGGAGCTAAGGAAGTGTGAGCCAGGGCCTTTTGTGAGCAGAGTGGAAAGTATCTAGAAGAGCTCC
 CTGACACTGAGCAGAGCGGGATGAACAAGTTTCTCCGGGGCTGGGCAACAAGATGAAGTTCTCCACAA
 GAAGAAT

ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR209385 protein sequence
 Red=Cloning site Green=Tags(s)

MWSPQDRKYNHPPMQLSLKSNQSLRSGNWSERKSHRLPRLPKRHSHDDMMLLAQLSLPSSPSSLNEDSL
 STTSELLSSRRSRIPKLVRINSIYNAKRGKKRLKKLSMSSLETASLRDENSESESDSDDRFKAHTQRL
 VHIQSMKRAPSYRTLELLEWQERELFEYFVVVSLKKPSRNTYLPVSYQFPKLDPRPTKQMR EAER
 LKAIPQFCFPAKDWLPVSEYSSETFSMLTGEDGSRFGYCRLLPSGKGPRLPEVYCVISRLGCFGLF
 SKVLDEVERRRGISAALVYPFMRSLMESFPAPGKTIKVKTFPGAGNEVLELRPMDSRLEHVD FECLF
 TCLSVRQLIRIFASLLERRVIFVADKLSTLSSCHAVVALLYPFWSQHTFIPVLPAS MIDIVCCPTPFL
 VGLLSSSLPKLKELPVEEALMVNLGSDRFIRQMDEDTLLPRKLQAAL EQALERKSELISQDS DSDSDDE
 CNTLNGLVSEVFI RFFVETVGHYSFLTHSEKGERAFQREAFKSVASKSIRRFLEVFME SQMFAFIQD
 RELRKCRAGLFEQRVEQYLEELPDTEQSGMNKFLRGLGNKMKFLHKKN

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC030391

ORF Size: 1827 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [BC030391](#), [AAH30391](#)

RefSeq Size: 2752 bp

RefSeq ORF: 1829 bp

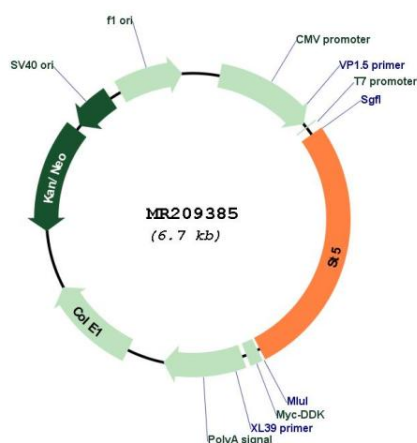
Locus ID: 76954

Cytogenetics: 7 57.27 cM

MW: 70.3 kDa

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]

Product images:



Circular map for MR209385