

Product datasheet for **MR209435**

Ssx2ip (NM_138744) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ssx2ip (NM_138744) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ssx2ip
Synonyms:	Adip; AU014939; AU042321
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR209435 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGAGATTGGATGACTGTGACAGATCCAGTTCTGTGTACAGAAAACAAAATCTCTCAATATACCT
 CAGAAACAAAGATGTCTCCGTCCAGTTTGTACTCCAGCAAGTTCTGTGCTCTTCACTACCTTTATCCAA
 AAACGTGCATGGTGTTCGTTCTTCTGCACAGGAGAGAACATTGAACAAAGTATTTCTATCTTGAT
 CAGGAGCTGACCACCTTCGGGTTTCTTCTTGTATGAAGAATCCAAAAGTAAAGAGGCAAAGAGAGAAT
 TAAATATAGTCGCTGTTCTGAAGTGTATGAACGAGCTGCTCGTCTTCAAGAGAGAGACAGGAGGAGG
 GGAGAGCGTGGAGACACAGAAGTGAAGCTGGGAGTGCATGGACCACCTGCAGAGCTGCTACGCCAAA
 CTTAAGGAGCAGTTGAAACGTCCAGGCGGGAGATGATCGGGCTCAAGAGAGAGACAGGAGCTGCAGT
 GCAAGAACAGGAGTTGCATCAGCTCCTGAAGAATGAGAAAGATGAGGTACAAAAATTACAAAATATCAT
 AGCCAGCCGGGCTACTCAGTATAATCATGATGTGAAGAGGAAGGAGCGTGAATATAATAAGCTAAAGGAG
 CGCTGCATCAGCTCGTTATGAACAAGAAGGATAAAAACATAGCCATGGATGTTTTAAATATGTGGGTC
 GAGCTGATGGCAAACGAGGCTCATGGAGGACTGACAAAACAGAAGCCAGGAATGAAGATGAGATGTACAA
 AATTCTGTTGAATGATTATGAGTACCGCCAGAAGCAGATCCTGATGGAGAACCGGAGCTGAAGAAGGTC
 CTCCAGCAGATGAAGAAGGAGATGATCTCTCTCTCTCCTCAGAAGAAGAAGCCAGGAAAGAGCAG
 AGGACGGCACAGGCACTGTTGCTATCTCCGATATAGAAGTACTCTGGGAACTGAGCAGAGACAGCGT
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 AAAAGTCATGTAGAAAACTCGATAACCAAGCTTCGAAGGTACTCAGAGGGCCTTAATGAGGAGGACG
 TCATCTCACGACAAGACCATGAGCAAGAGACTGAGAACTGGAGCTGGAGATTGAGCGGTGAAGAGAT
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 AAAAGAATTTTGAGAGAGAAAGCGAAGCTTTACAGAAGTGCCTTCGATTGGGGTTGGAGAGAAAGGC
 GTTTGAAGAAGAGCGAGCCAGCTGGGTAAGCAGCAGTTTTTAAACATGACGAACTTTGACCACCAGAAC
 TCAGAAAATGTGAACTTTTTCAGTGCTTCTCAGGAAGTCTGATCCAGACAATCTTATAGTCCACTCAC
 GGCCACGGCAAAGAAGCTACACAGTGTGGCTAATGGGGTCCAGCTTGCACATCAAACACTGACTAAATC
 TCTTCTGCCTCACCTTCTACTTCACTTTCAGACTTTCCGACACACATTCATGTGTGTCTGAACACAGTTCATC
 AGTGTGCTGAATATAACTCCTGAAGAAAGTAAACCAAGTGAAGTTGCAAGAGAAAGCAGGATCAGAAGT
 GGAGCGTGCAGTCGAGGCCAGCTCGCGGGAGGGTGTACAGCGGATGCTCCTCGGCCTCAGGAGCGC
 TCACGGGACCGAGATGACTTACCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

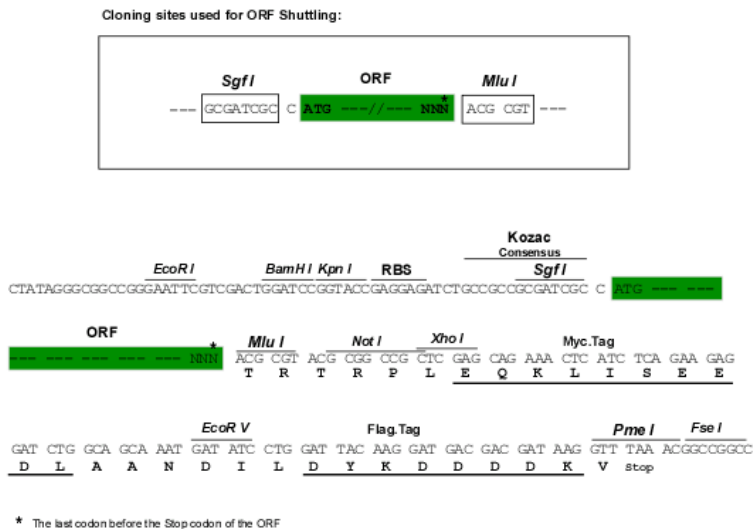
>MR209435 protein sequence
 Red=Cloning site Green=Tags(s)

MGDWMVTDPVLCENKNSQYSETKMSPSSLYSQVLCSSVPLSKNVHGVFVFTGENIEQISISYLD
 QELTTFGFPSLYEESKSKEAKRELNIVAVLNCMNELLVLQRKNLLAQESVETQNLKLGSDMDHLQSCYAK
 LKEQLETSRREMIGLQERDRQLQCKNRSLHQLLKNKDEVOQLQNIIASRATQYNHDKRERENKLE
 RLHQLVMNKKDKNIAMDVLNYVGRADGKRGSWRTDKTEARNEDEMYKILLNDYERYQKQILMENAELKKV
 LQQMKKEMISLLSPQKKKPRERAEDGTVAISDIEDDSGELSRDSVWGLSCDTVREQLTNSIRKQWRIL
 KSHVEKLDNQASKVHSEGLNEEDVISRDHEQETEKLELEIERCKEMIKAQQQLLQQQLATTCDDDTTSL
 LRDCYLLEEKERLKEEWLTFKEQKNFERERRSFTEAAIRLGLERKAFFEEERASWVKQFLNMTNFDHQ
 NSENVKLFSAFSGSSDPDNLIVHSRPRQKLLHSVANGVPACTSKLTKSLPASPSTSDFRQTHSCVSEHSSI
 SVLNITPEESKPSEVARESTDQKWSVQSRPSSREGCYSGCSSAFRSAHGDRDDL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_138744

ORF Size: 1848 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_138744.1](#)

RefSeq Size: 3454 bp

RefSeq ORF: 1848 bp

Locus ID: 99167

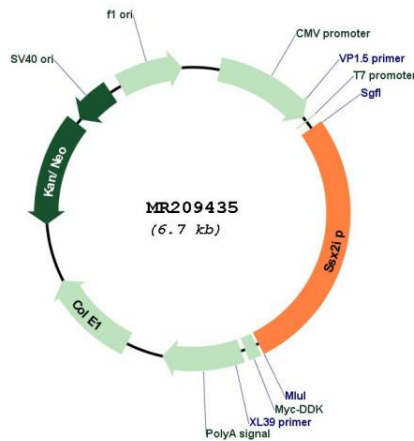
UniProt ID: [Q8VC66](#)

Cytogenetics: 3 H2

MW: 71 kDa

Gene Summary: Belongs to an adhesion system, which plays a role in the organization of homotypic, interneuronal and heterotypic cell-cell adherens junctions (AJs). May connect the nectin-afadin and E-cadherin-catenin system through alpha-actinin and may be involved in organization of the actin cytoskeleton at AJs through afadin and alpha-actinin (PubMed:12446711). Acts as a centrosome maturation factor, probably by maintaining the integrity of the pericentriolar material and proper microtubule nucleation at mitotic spindle poles. The function seems to implicate at least in part WRAP73; the SSX2IP:WRAP73 complex is proposed to act as regulator of spindle anchoring at the mitotic centrosome (By similarity). Involved in cell movement: localizes at the leading edge of moving cells in response to PDGF and is required for the formation of the leading edge and the promotion of cell movement, possibly via activation of Rac signaling (PubMed:22027834). Involved in ciliogenesis (By similarity). It is required for targeted recruitment of the BBSome, CEP290, RAB8, and SSTR3 to the cilia (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209435