

Product datasheet for **RR213089**

Smoc2 (NM_001106215) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Smoc2 (NM_001106215) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Smoc2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR213089 representing NM_001106215
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCTGCCGCCACAGCTGTGCTGGCTGCCGCTGCTCGCTGCGTTGCTGCCGCCAGTGCCCGCGCAGAAGT
 TCTCGGCCCTCACGTTCTTGAGAGTCGATCAAGACAAAGACAGAGACTGCAGCCTGGACTGCCCCAGCTC
 CCCTCAGAAGCCGCTCTGCGCCTCAGATGGGAGGACCTTCTGTCTAGATGTGAGTTCACGCGGGCCAAG
 TGCAAAGATCCCCAGCTGGAGATTGCCACCGTGGAACTGCAAAGATGTGTCCAGGTGTGTGGCTGAGA
 GGAAGTACACCCAGGAGCAAGCCCGAAGGAGTTCAGCAAGTGTTCATCCAGAATGCAACGACGACGG
 CACCTACAGTCAGGTCCAGTGTACAGCTACACAGGATACTGTTGGTGTGTACACCAAATGGAAGGCC
 ATCAGTGGCACCCTGTGGCCACAAGACACCCAGGTGCCCGGTTCAATAAATGAAAAGCTGCCCCAGC
 GGAAGGTGCCGAAAAGCAGATGATGCTGCAGCCCCAGCATTGGAGACTCAGCCCCAAGGAGATGAAGA
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 AATTCAGCATCCTCTGTGATCAGGAGCACAGTCGGCTCTTGAGGAAGCCAAGCAACCCAAGAATGACA
 ATGTAGTGATCCCTGAGTGTGCACACGGCGGCCTCTACAAGCCAGTGCAATGCCACCCATCCACTGGATA
 CTGCTGGTGTGTGCTGGTAGACTGGGCGGCCATTCCCGGGACCTCCACAAGGTATGAGCAGCCCAAA
 TGTGATAACACAGCCGAGCTCACCCAGCGAAGGCCCGGGACCTGTACAAGAACAGGCCACTGCAGGGTT
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 CCTTTAAGAGGTTCTGCGAAAAGAAATCCAAGCCAAAAGTGCCTGAAGAAGTTTGTGTAATACTGCGA
 TATGAACAACGATAAGTCCATCACGGTGCAGGAGCTCATGGGCTGCTTGGGCGTACCAGAGAGGAGGGT
 AAAGCCAACACCAGGAAGCGTCACACCCAGAGGAAATGCCGAAAGTACTTCTTGAATAGACAGCCCA
 GGAACAAGGA

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 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

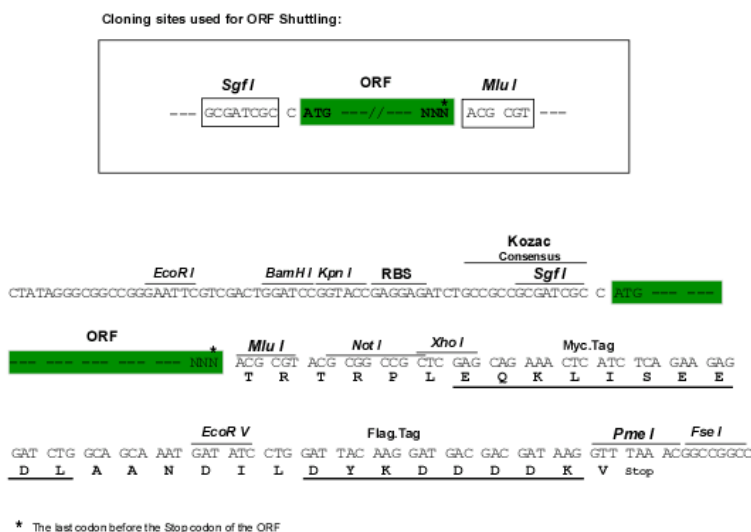
>RR213089 representing NM_001106215
 Red=Cloning site Green=Tags(s)

MLPPQLCWLPLLAALLPPVPAQKFSAL TFLRVDQDKDRDCSLDCPSSPQKPLCASDGRFSLRCEFQRAK
 CKDPQLEIAHRGNCKDVSRCVAERKYTQEQRKEFQQVF IPECNDDGTYSQVQCHSYTGYCWCVTPNGRP
 ISGTAVAHKTPRCPGSINEKLPQREGAGKADDAAPALETQPQGDEEDIA SRYPTLWTEQVKSQRQNKTNK
 NSASSCDQEHQSALEEAQPKNDNVV IPECAHGGLYKPVQCHPSTGYCWCVLVDTGRPIPSTSTRYEQPK
 CDNTARAHPAKARDLYKNRPLQGCPGAKKHEFLTSVLDALSTDMVHAVSDPSSSSGRLSEPDP SHTLEER
 VVHWYFKLLDNSSGDI GKKEIKPFKFLRKKSKPKKCVKFFVEYCDMNNDKSITVQELMGCLGVTREEG
 KANTRKRHTPRGNAESTSSNRQPRKQG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001106215

ORF Size: 1341 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_001106215.2](#), [NP_001099685.1](#)

RefSeq Size: 2718 bp

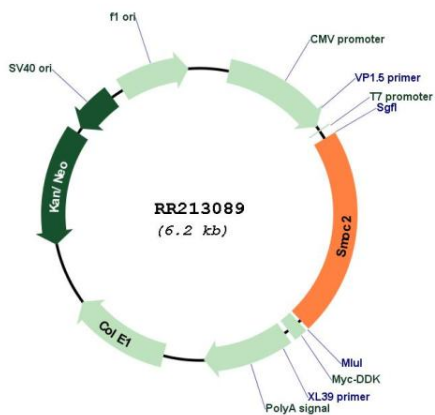
RefSeq ORF: 1344 bp

Locus ID: 292401

Cytogenetics: 1q12

MW: 49.9 kDa

Product images:



Circular map for RR213089