

Product datasheet for **RR210170**

Sgms1 (NM_181386) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sgms1 (NM_181386) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sgms1
Synonyms:	Mob; Tmem23
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR210170 representing NM_181386 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTGTCTGCCAGTACCATGAAGGAAGTGGTTTACTGGTCACCCAAGAAGGTGGCAGACTGGCTGCTGG
AGAATGCTATGCCAGAATACTGTGAACCTCTGGGCATTTACAGGCCAGGACCTAATCAACCTAACCCA
AGAGGATTTACAAAGCCTCCTCTGTGCCGAGTCTCCTCTGACAATGGGCAGCGGCTCTTAGACATGATA
GAGACCCTGAAGATGGAGCACCATATCGAAGCGCACAAGAATGGCCACGCCAACGGACACCTCAGCATTG
GCGTCGACATTCCAACCCTGACGGCAGCTTCAGCATCAAGATTAACCCAACGGAAATGCCAAATGGCTT
CAGGAAAGAGATGATCAAGATCCCATGCCGGAACCCGAGCGCTCCAGTACCCATGGAGTGGGGCAAG
ACTTTGCTGGCCTTTCTTACGCACTGTCTGTTTTGTTCTCACTACAGTGATGATCTCGGTCTGCCATG
AACGAGTGCCTCCTAAGGAGGTACAGCCTCCGCTACCGGACACGTTTTTTGACCATTTTAAACGGGTGCA
GTGGGCGTTTTCTATTTGCGAAATTAACGGCATGATCCTTGAGGACTCTGGTTATTTAGTGGCTGCTC
TAAAAACAAGTCTATTATTAGCAGAAGATTTTCTGCATAGTTGGCACGCTGTACCTGTACCGGTGTA
TTACAATGTATGTAACACTACACTCCAGTACCGGCATGCACCTCAACTGTTCTCCGAAGCTCTTTGGAGA
CTGGGAAGCTCAAGTGCCGAGGATAATGAAGCTCATTGCTGGAGTGGCTTGCCATCAGGGCTCGCAC
AACATGTGTGGGACTATCTGTACAGTGGACACACAGTCATGCTAACGCTCACCTACCTGTTTATCAAGG
AGTATTCCTCGCGGCTCTGGTGGTACCACTGGATTTGCTGGCTCCTCAGCGTGGTGAATCTTCTG
TATTCTTTAGCGCATGACCACTACACTGTGGAGTGGTGGTAGCATATTACATCACCACAAGACTCTTC
TGGTGGTATCACAGTGGCCAATCAGCAAGTGTGAAGGAAGCTTCCAGATGAACCTCCTGGCCAGAG
TGTGGTGTACAGGCCATTTAGTACTTTGAAAAGAAGCTCCAAGGGATTGTACCTCGATCTTACCATTG
GCCCTTCCCTGGCCGGTAGTCCACCTTAGTAGGCAAGTTAAATATAGCCGGCTGGTAAACGACACC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RR210170 representing NM_181386
 Red=Cloning site Green=Tags(s)

MLSASTMKEVVYVSPKKVADWLLLENAMPEYCEPLGHFTGQDLINLTQEDFTKPPLCRVSSDNGQRLLDMI
 ETLKMEHHIEAHKNGHANGHLSIGVDIPNDGFSFIKIKPNGMPNGFRKEMIKIPMEPEPERSQYPMWGWK
 TLLAFLYALSCFVLTVMISVHERVPPKEVQPPLPDTFFDFHNRVQWAFSICEINGMILVGLWLFQWLL
 LKYKSIISRFFCIVGTLTYLYRCITMYVTLLPVPGMHFNCSPKLFGDWEAQVRRIMKLIAGGGLSITGSH
 NMGDYLYSGHTVMLTLTYLFIKEYSPRRLWYHWCWLLSVVGI FCILLAHDHYTVDVVVAYYITTRLF
 WWYHTMANQQVLKEASQMNLLARVWYRPFQYFEKNVQGIVPRSYHWPLPWPVVHLSRQVKYSRLVNDT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_181386

ORF Size: 1257 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_181386.2](#), [NP_852051.2](#)

RefSeq Size: 2283 bp

RefSeq ORF: 1260 bp

Locus ID: 353229

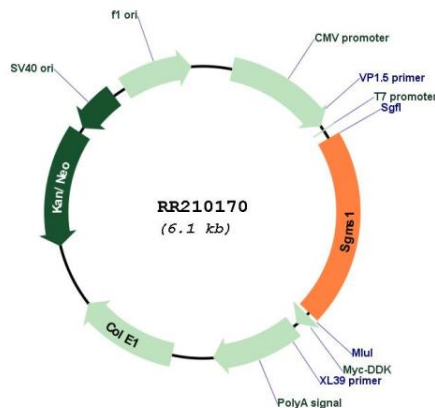
UniProt ID: [Q7TSX5](#)

Cytogenetics: 1q52

MW: 49 kDa

Gene Summary: alpha-chemokine; involved in inducing lung inflammation [RGD, Feb 2006]

Product images:



Circular map for RR210170