

Product datasheet for **RR214033**

Smu1 (NM_057195) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Smu1 (NM_057195) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Smu1
Synonyms:	Bwd; Smu-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RR214033 representing NM_057195
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**C

ATGTCGATCGAAATCGAGTCTTCCGATGTGATTCTCTAATCATGCAGTACTTGAAGGAGAACAGTTTAC
 ATCGGGCATTGGCCACCTTCACGGAGGAAACCACTGTCTCTCTGAATACTGTGGATAGCATTGAAAGTTT
 TGTGGCTGATATTAATAGTGGCCACTGGGACACTGTTTTACAGGCTATCCAGTCTCTGAAATTGCCAGAC
 AAAACCTTATTGATCTCTATGAACAGGTTGTTTTGGAATTGATAGAGCTTCGTGAAGTGGGTGCTGCCA
 GGTCACTTCTGAGACAGACTGACCCCATGATTATGTTAAAGCAAACACAACCAGAGCGATATATTCATCT
 GGAAAACCTGCTAGCCAGATCTTACTTTGACCCTCGGGAGGCGTATCCAGATGGAAGCAGCAAAGAGAAA
 AGGAGAGCGGCGATTGCCAGGCTTTGGCTGGGAGGTGACGCTGGTCCGCCTTCCCGTCTCATGGCGT
 TGCTGGGACAGGCACTGAAGTGGCAGCAGCACCAGGGATTGCTTCTCTGGTATGACCATAGATTTGTT
 TCGAGGCAAGGCAGCTGTCAAAGATGTGAAGAAGAGAAGTTTCCACACAGCTGAGCAGACATATTAAG
 TTTGGGCAGAAATCCACGTGGAGTGCGCTCGGTTCTCTCCAGACGGTCACTATCTGGTCAACCGGCTCTG
 TTGACGGATTTATTGAGGTGTGGAACCTCACTACTGGGAAAATCAGGAAGGATCTTAAGTACCAGGCCCA
 GGATAACTTCATGATGATGGATGATGCTGTCTCTGCATGTGTTTCAGCAGAGACACTGAAATGTTAGCA
 ACTGGGGCCCAAGACGGAAAGATCAAGGTTTGAAGATTGAGAGTGGACAGTGTGTTGAGAAGATTGAAA
 GGGCACATAGTAAAGGTGTCACTGTCTAAGCTTTTCAAGGACAGCAGTCAATCCTCAGTGCTCTCTT
 TGACCAGACAATAAGAATTCATGGTTTAAATCTGAAAAACCTTAAGGAATTCGAGGCCATTCCTCC
 TTTGTCAATGAGGCAACATTTACACAAGATGGGCATTACATTACAGTGCATCCTCTGATGGCACTGTGA
 AGATCTGGAATATGAAGACCACCAAGTGTCAAATACCTTTAAATCCCTGGGCAGTACTGCAGGGACAGA
 TATTACAGTCAATAGTGTGAATTCGCTTCTCTAAAAACCCAGAGCATTTTGTGTGTGCAACCGATCGAAC
 ACAGTGGTCATCATGAACATGCAGGGGCAGATTGTGAGAAGCTTCAGCTCTGGTAAAAGAGAGGGTGGTG
 ACTTTGTCTGCTGTGCCCTCTCCCTCGTGGCAGTGGATCTACTGTGTTGGGAGGACTTTGTGCTCTA
 CTGCTTCAGCACAGTCACTGGCAAGCTGGAGAGAACTCTGACGGTTCATGAAAAGGATGTGATCGGAATT
 GCACACCACCCGACCAAGAACTTGATTGCCACCTACAGTGAAGATGGACTCTGAAGCTCTGAAAACCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR214033 representing NM_057195
 Red=Cloning site Green=Tags(s)

MSIEIESSDVIRLIMQYLKENS LHRALATFTEETTVSLNTVDSIESFVADINS GHWDTVLQAIQSLKLPD
 KTLIDL YEQVLELIELRELGAARSLLRQTDPMIMLKQTQPERYIHLNLLARSYFDPREAYPDGSSKEK
 RRAAIAQALAGEVSVVPPSRMLALLGQALKWQHQGLLPPGMTIDLFRGKA AVKDVEEEKFPTQLSRHIK
 FGQKSHVECARFSPDGQYLVTGSVDGFIEVWNFTTGKIRKDLKYQAQDNFMMDDAVLCMCFSRDTEMLA
 TGAQDGKIKVWKIQSGQCLRRFERAHSKGVTCLSFSKDSSQILSASFDTIRIHGLKSGKTLKEFRGHSS
 FVNEATFTQDGHYIISASSDGTVKIWNMKTTECSNTFKSLGSTAGTDITVNSVILLPKNPEHFVVCNRSN
 TVVIMMQGQIVRSFSSGKREGGDFVCCALSPRGEWIYCVGEDFVLYCFSTVTGKLERTLTVHEKDVIGI
 AHHPHQNL IATYSEDGLLKLWKP

TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_057195

ORF Size: 1539 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_057195.1](#), [NP_476543.1](#)

RefSeq Size: 1728 bp

RefSeq ORF: 1542 bp

Locus ID: 117541

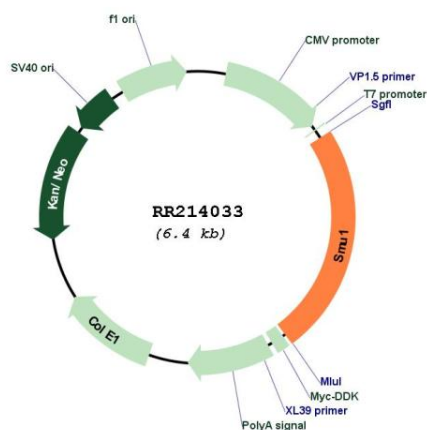
UniProt ID: [Q99M63](#)

Cytogenetics: 5q22

MW: 57.6 kDa

Gene Summary: involved in protein-protein interaction in the brain [RGD, Feb 2006]

Product images:



Circular map for RR214033