

Product datasheet for RR211289

Smap2 (NM_001100669) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Smap2 (NM_001100669) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Smap2
Synonyms: RGD1308418; Smap1l
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR211289 representing NM_001100669
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACAGGCAAGTCGGTGAAGGACGTGGATCGGTACCAGGCGGTCTGGCCAACCTGCTGCTGGAGGAAG
 ATAACAAGTTCTGTGCTGACTGCCAGTCCAAGGGCCGAGATGGGCTCTGGAACATCGCGTGTTTAT
 CTGCATTCGGTGTGCTGGAATCCACAGGAATCTGGGGTGCATATATCCAGGGTAAAATCAGTGAACCTC
 GACCAGTGGACTCAAGAACAGATTCAAGTGCATGCAAGAGATGGGAATGAAAAGCAAACCGACTCTATG
 AAGCCTACCTTCTGAGACCTTCGCGCACCTCAGATAGACCCAGCTGTTGAAGGATTTATTCGAGATAA
 ATATGAGAAGAAGAAATATATGGACCGAAGTCTGGACATCAATGTCTTAGGAAAAGAGAAGGATGATAAG
 TGGAAACGAGGAAGTGAACCTGCTCCAGAGAAAAAGATGGAACCCGTTGTCTTTGAGAAAGTAAAAATGC
 CACAGAAAAAGAACGACGACAGCTACCTCGGAAAAGTCCCCGAAATCCGCAGCCCTGTGATGGACTT
 GTTGGCCTTGATGCTCCTGTGGCCTGCTCTATTGCAAACAGTAAGACCAGCAATGCCCTAGAAAAGGAT
 CTAGATCTTTGGCCTCTGTTCCATCCCCTTCTCAGTTTCCAGAAAGGCTGTAGGTTCCATGCCAACTG
 CCGGGAGTGTGTTCTGTCCCTGAAAACCTGAACCTATTTCCAGAGCCGGGGAGCAAGTCAAGAAAC
 AGGCAAGAAACAGCTCTCAAGGACTCCATCCTGTCACTGTATGGATCCCAGACGCCTCAAATGCCTGCC
 CAAGCAATGTTTCATGGCTCCTGCTCAGATGGCATATCCCACAGCGTACCCAGCTTCCCTGGGGTTACAC
 CACCTAACAGCATCATGGGGAGCATGATGCCCCACCAGTCGGCATGGTAGCTCACCCAGGAGCCTCTGG
 AATGGTACCCCCATGGCCATGCCCGCAGGCTATATGGGGGCATGCAGGCTTCCATGGCGGGCGTGCCG
 AGCGGGATGATGACCACTCAGCAGGCGGCTACATGGCGAGCATGGCAGCCATGCCCCAGACTGTGTACG
 GCGTTCAGCCAGCTCAGCAACTGCAGTGAACCTCACTCAGATGACCCAGCAGATGGCTGGGATGAACCT
 CTACGGAGCCAACGGCATGATGAGCTATGGACAGTCAATGGGCGGTGAAATGGCCAGGCAGCCAATCAG
 ACTCTCAGTCTCAGATGTGAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RR211289 representing NM_001100669
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MTGKSVKDVDRYQAVLANLLLEEDNKFADCQSKGPRWASWNIGVFCIRCAGIHRNLGVHISRKSVNL
 DQWTQEIQCMQEMGNGKANRLYEAYLPETFRRPQIDPAVEGFIRDKYEKKKYMDRSLDINVLRKEKDDK
 WKRGSEPAPEKKMEPVVFEKVKMPQKKEDAQLPRKSSPKSAAPVMDLLGLDAPVACSIANSKTSNALEKD
 LDLLASVPSVSRKAVGSMPTAGSAGSVPENLNLFPPEPGSKSEETGKKQLSKDSILSLYGSQTPQMPA
 QAMFMAPAQMAYPTAYPSFPGVTPPNSIMGSMPPPPVGMVAHPGASGMVTPMAMPAGYMGGMQASMAQVP
 SGMMTTQQAGYMASMAAMPQTVYGVQPAQQLQWNLQMTQQMAGMNFYGANMMSYQSMGGGNGQAAANQ
 TLSPQMWK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

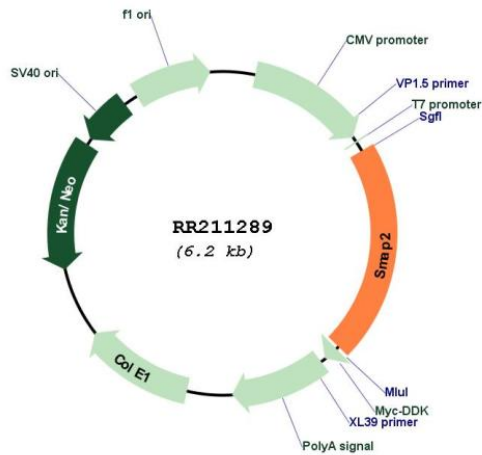
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001100669

ORF Size:	1284 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:	<ol style="list-style-type: none">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_001100669.1 , NP_001094139.1
RefSeq Size:	2875 bp
RefSeq ORF:	1287 bp
Locus ID:	298500
Cytogenetics:	5q36
MW:	46.5 kDa