

## Product datasheet for **RR210511**

### Smn1 (NM\_022509) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Smn1 (NM\_022509) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Smn1  
**Synonyms:** Smn  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR210511 representing NM\_022509  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGCGATGGGCAGCGGGCGGGCGGGCTCTGAGCAGGAAGACACCGTGTCTCCGGCGTGGCACCG  
GCCAGAGTGATGATTCTGACATTTGGGATGATACAGCATTGATAAAAGCTTACGATAAAGCCGTGGCCTC  
CTTTAAGCATGCTCTAAAGAACGGTGACATGTGTGAACTTCAGATAAGCCAAAAGGCACAGCTAGAAGA  
AAACCTGCTAAGAAGAATAAAAACAAAAGAAGATGCCACAGCTCCATTGAAACAGTGGAAAGCTGGTG  
ACAAATGCTCTGCCGTTTGGTCGGAAGATGGCTGCGTTTACCCAGCTACCATCACGTCAGTTGACCTTAA  
GAGAGAAACCTGTGTCGTGGTTTACTGGATATGAAACAAAGAGGAGCAAAACCTATCTGATCTGCTT  
TCCCCGACCTGTGAAGTAGTAAACAATACAGAACAACACTCAGGAGAAATGAAAGCCAAGTTTCCACAG  
ACGACAGTGAACACTCCTCCAGATCGCTCAGAAGTAAAGCACACAGCAAGTCCAAAGCTGCTCCATGGAC  
CTCGTTTCTCCCTCCACCTCCCCGGTCCCCGGGGCGGGATTAGGACCAGGAAAGCCAGGTCTAAGGTTT  
AGTGGGCCACCGCCGCCACCTCCCCCTCCCCGTTCTTGGCGTGTGGATGCCTCCGTTCCCTTCAG  
GACCACCAATAATTCTCCACCCCTCCCATATCTCCGACTGTCTGGATGACACGGATGCTCTGGCAG  
TATGCTAATCTTTGGTACATGAGTGGTTACCACACTGGTTACTATATGGGTTTCAGACAAAATAAAAAG  
GAGGAAAGAAGTGCTCACATACAAAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR210511 representing NM\_022509  
 Red=Cloning site Green=Tags(s)

MAMGGGGAGSEQEDTVLFRRGTGQSDSDIWDOTALIKAYDKAVASFKHALKNGDMCETSDKPKGTARR  
 KPAKKNKNQKKNATAPLKQWKAGDKCSAVWSEDDGCVYPATITSVDLKRETCVVVYTGYNKEEQNLSDLL  
 SPTCEVANNTAQNTQENESQVSTDDSEHSSRSLRSKAHSKSKAAPWTSFLPPPPVPVPGAGLPGKPLGRF  
 SGPPPPPPPPFLPCWMPFPSPGPIIPPPPIISPDCLDDTDALGSMLISWYMSGYHTGYMGFRQNKK  
 EGKKSHTN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

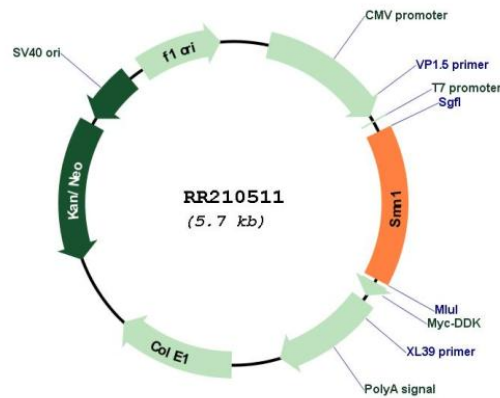
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_022509

**ORF Size:** 867 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_022509.1</a> , <a href="#">NP_071954.1</a>
<b>RefSeq Size:</b>	1243 bp
<b>RefSeq ORF:</b>	870 bp
<b>Locus ID:</b>	64301
<b>UniProt ID:</b>	<a href="#">O35876</a>
<b>Cytogenetics:</b>	2q12
<b>MW:</b>	31.2 kDa
<b>Gene Summary:</b>	human homolog is deleted in spinal muscular atrophy, which is characterized by degeneration of spinal cord and brainstem motoneurons [RGD, Feb 2006]