

## Product datasheet for **RN210511**

### **Smn1 (NM\_022509) Rat Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Smn1 (NM\_022509) Rat Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Smn1  
**Synonyms:** Smn  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >RN210511 representing NM\_022509  
**Red**=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGCGATGGGCAGCGGGCGGGCGGGCTCTGAGCAGGAAGACACCGTGCTGTTCCGGCGTGGCACCG  
GCCAGAGTGATGATTCTGACATTTGGGATGATACAGCATTGATAAAAGCTTACGATAAAGCCGTGGCCCTC  
CTTTAAGCATGCTCTAAAGAACGGTGACATGTGTGAACTTCAGATAAGCCAAAAGGCACAGCTAGAAGA  
AAACCTGCTAAGAAGAATAAAAACAAAAGAAGAATGCCACAGCTCCATTGAAACAGTGGAAAGCTGGTG  
ACAAATGCTCTGCCGTTTGGTCGGAAGATGGCTGCGTTTACCCAGCTACCATCACGTCAGTTGACCTTAA  
GAGAGAAACCTGTGTCGTGGTTTATACTGGATATGAAACAAAGAGGAGCAAAACCTATCTGATCTGCTT  
TCCCCGACCTGTGAAGTAGTAAACAATACAGAACAAGCACTCAGGAGAAATGAAAGCCAAGTTTCCACAG  
ACGACAGTGAACACTCCTCCAGATCGCTCAGAAGTAAAGCACACAGCAAGTCCAAAGCTGCTCCATGGAC  
CTCGTTTCTCCCTCCACCTCCCCGGTCCCCGGGGCGGGATTAGGACCAGGAAAGCCAGGTCTAAGGTTT  
AGTGGGCCACCGCCGCCACCTCCCCCTCCCCGTTCTTGGCGTGTGGATGCCTCCGTTCCCTTCAG  
GACCACCAATAATCCTCCACCCCTCCCATATCTCCCGACTGTCTGGATGACACGGATGCTCTGGGCAG  
TATGCTAATCTTGGTACATGAGTGGTTACCACACTGGTTACTATATGGGTTTCAGACAAAATAAAAAG  
GAGGAAAGAAGTGTCTACATACAAAT**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_022509  
**Insert Size:** 870 bp



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<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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>	<u><a href="#">NM_022509.1</a></u> , <u><a href="#">NP_071954.1</a></u>
<b>RefSeq Size:</b>	1243 bp
<b>RefSeq ORF:</b>	870 bp
<b>Locus ID:</b>	64301
<b>UniProt ID:</b>	<u><a href="#">O35876</a></u>
<b>Cytogenetics:</b>	2q12
<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]