

## Product datasheet for **RN202031**

### **Spx (NM\_001083933) Rat Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Spx (NM\_001083933) Rat Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Spx  
**Synonyms:** Npq  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >RN202031 representing NM\_001083933  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAGGGGCGGAGCATCTGGCCGTGGCAGCCTTGGCCCTTCTCCTGGTGTCTGTCTGTTCTGGAAACT  
CCAGCGGTGCTCCGAGAGACTCTTGAGAAGAGGAAGTGGACTCCCAAGCCATGCTCTATCTGAAGGG  
CGCACAGGGCCACCGCTTCATCTCAGACCAGAGTCGCAGGAAGGAGCTTGCAGACCGGCCCTCCAGAA  
AGACGAAACCCAAATCTCAACTGCTGACTCTCCAGAGGCTGCAGCCCTGTTTCTGGCTTCTTGGAAA  
AACCACAAAAAGATGAAGGAGGGGATTTTGATAAAAGCAAACCTCTGGAAGACAGACGCTTTTACTGGTG  
A

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001083933  
**Insert Size:** 351 bp  
**OTI Disclaimer:** 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).  
**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\\_001083933.3](#), [NP\\_001077402.2](#)

**RefSeq Size:** 1555 bp

**RefSeq ORF:** 351 bp

**Locus ID:** 691138

**UniProt ID:** [M0R8L2](#)

**Cytogenetics:** 4q44

**Gene Summary:** Plays a role as a central modulator of cardiovascular and renal function and nociception. Plays also a role in energy metabolism and storage. Inhibits adrenocortical cell proliferation with minor stimulation on corticosteroid release (PubMed:20045034, PubMed:22038051). [UniProtKB/Swiss-Prot Function]