

Product datasheet for **RR214004**

Sprn (NM_001031845) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Sprn (NM_001031845) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Sprn
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RR214004 representing NM_001031845
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAGTGGACTACTGCCACATGCTGGGCTCTGCTGCTGGCCACCGCCTTCCTCTGTGACAGCTGTTTCG
 CCAAGGGCGGCCGCGGAGGTGCTCGAGGCAGTGCCAGGGGGGTGCGCGGAGGTGCGCGCGGGGCATCAAG
 AGTGCCTGTAAGGCCGGCGCCCGCTACAGCTCCTCTCTGCGAGTGGCGGCTGCAGGAGCAGCAGCTGGG
 GCTGCGGCGGGTGTGGCTGCGGGCCTTGCCACCGGCTCTGGCTGGAGGAGGACCTCAGGACCTGGAGAGC
 TAGGCCTGGAGGACGATGAGAACGGGGCAATGGGAGGCAACGGGACCGACCGAGGAGTCTACAGCTACTG
 GGCTGGACTTCCGGCTCAGGGTCCGTACACAGTCCACGTATTTGCCTGCTTTTGAGCGGCACGCTTGGT
 GCCCTAGAACTGCTTCGGCCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR214004 representing NM_001031845
 Red=Cloning site Green=Tags(s)

MNWTTATCWALLLATAFLCDSCSAKGGRGGARGSARGVRGGARGASRVVRPAPRYSSSLRVAAAGAAAG
 AAAGVAAGLATGSGWRRTS GPGLGLEDDENGAMGNGTDRGVSYWAWTSGSGSVHSPRICLLLSGTLG
 ALELLRP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI


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Cloning Scheme:



ACCN: NM 001031845

ORF Size: 441 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_001031845.1](#), [NP_001027015.1](#)

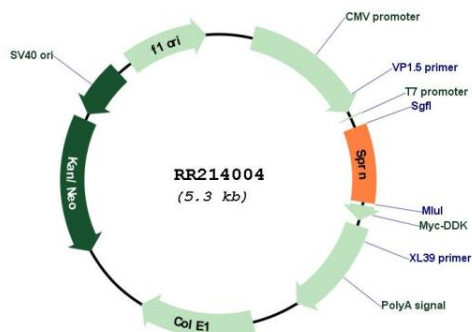
RefSeq Size: 444 bp

RefSeq ORF: 444 bp

Locus ID: 541462

UniProt ID:	<u>Q5BIV7</u>
Cytogenetics:	1q41
MW:	14.7 kDa
Gene Summary:	Prion-like protein that has PrP(C)-like neuroprotective activity. May act as a modulator for the biological actions of normal and abnormal PrP (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR214004