

Product datasheet for **RR200702**

Spr (NM_019181) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Spr (NM_019181) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Spr
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR200702 representing NM_019181
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGGAAGGAGGCAGGCTAGGTTGCGCTGTCTGCGTGCTGACCGGGGCTTCCCGGGGCTTCGGCCGCGCC
TGGCCCCGAGCTGGCCGGTTGCTGTCGCCGGTTCGGTGTGCTTCTAAGCGCACGCAGTGACTCGAT
GCTGCGGCAACTGAAGGAGGAGCTCTGTACGCAGCAGCCGGCCGCAAGTGGTGTGGCAGCCCGCAT
TTGGGCACCGAGTCCGGGTGCAACAGTTGCTGAGCGCGGTGCGCGAGCTCCCTAGGCCCGAGAGGCTGC
AGCGCCTCCTGCTCATCAACAATGCAGGCACTCTTGGGATGTTTCCAAAGGCTTCTGAACATCAATGA
CCTAGCTGAGGTGAACAATACTGGGCCCTGAACCTAACCTCCATGCTCTGCTTGACCACCGGCACCTTG
AATGCCTTCTCCAATAGCCCTGGCCTGAGCAAGACTGTAGTTAACATCTCATCTCTGTGTGCCCTGCAGC
CCTTCAAGGGCTGGGACTCTACTGTGCAGGGAAGGCTGCCCGAGACATGTTATACCAGTCTGGCTGT
TGAGGAACCCAGTGTGAGGTGCTGAGCTATGCCCGAGTCCCCTGGACACCAACATGCAGCAGTTGGCC
CGGAAACCTCCATGGACCCAGAGTTGAGGAGCAGACTGCAGAAGTTGAATTCTGAGGGGGAGCTGGTGG
ACTGTGGGACTTCAGCCAGAACTGCTGAGCTTCTGCAAAGGGACACCTTCCAATCTGGAGCCACGT
GGACTTCTATGACATT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR200702 representing NM_019181
 Red=Cloning site Green=Tags(s)

MEGGRLGCAVCVLTGASRFGFRALAPQLAGLLSPGSVLLLSARSDSMLRQLKEELCTQQPGLQVVLAAAD
 LGTESGVQQLLSAVRELPRPERLQRLLLINNAGTLGDVSKGFLNINDLAEVNNYWALNLTSMCLCTTGTL
 NAFSNSPGLSKTVVNISSLCALQPFKGWGLYCAGKAARDMLYQVLAVEEPSVRVLSYAPGPLDTNMQQLA
 RETSMPELRSRLQKLNSEGELVDCGTSAQKLLSLLQRDTFQSGAHVDFYDI

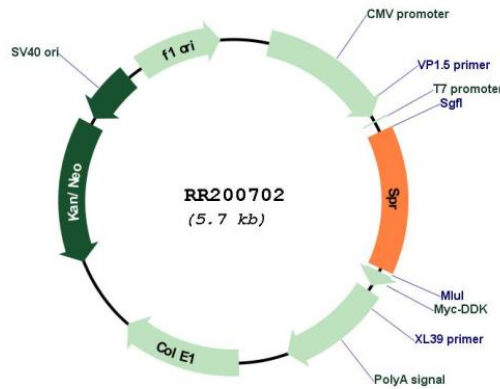
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_019181

ORF Size: 786 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_019181.1 , NP_062054.1
RefSeq Size:	1219 bp
RefSeq ORF:	789 bp
Locus ID:	29270
UniProt ID:	P18297
Cytogenetics:	4q34
MW:	28.1 kDa
Gene Summary:	enzyme which catalyzes the terminal step in the biosynthesis of tetrahydrobiopterin; important for aromatic amino acid hydroxylation [RGD, Feb 2006]