

## Product datasheet for MR205071

### Srr (NM\_013761) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Srr (NM\_013761) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Srr  
**Synonyms:** M100034; Rgsc34; Srs  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR205071 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTGTGCTCAGTACTGCATCTCCTTTGCTGATGTTGAAAAAGCTCATATCAACATTCAAGACTCTATCC  
 ACCTCACCCAGTGCTAACAAGCTCCATTTTGAATCAAATAGCAGGGCGCAATCTTTTCTCAAATGTGA  
 GCTCTCCAGAAAAGTGGTCTTTAAGATTCGAGGTGCCCTTAATGCCATCAGAGGCTTAATTCCTGAC  
 ACGCCAGAAGAGAAGCCAAAGCCGTAGTACTCACAGCAGCGGAAACCATGGCCAAGCTCTCACCTATG  
 CTGCTAAACTGGAAGGAATTCCTGCTTACATTGTGGTTCCCAAACAGCTCCCAACTGCAAGAACTGGC  
 AATCCAAGCCTATGGAGCATCGATAGTATACTGTGACCCAAGTGACGAGTCCAGAGAAAAGTCACTCAA  
 AGAATTATGCAAGAAACAGAAGGCATCTTGGTCCATCCCAACCAGGAGCCTGCACTGATAGCTGGACAAG  
 GAACAATTGCCCTGGAAGTGCTGAACCAGGTTCCCTTGGTAGATGCACTGGTGGTACCAGTAGGAGGAGG  
 AGGAATGGTTGCTGGAATAGCCATTACAATTAAGGCCCTGAAACCTAGTGTGAAGGTATACGCTGCTGAG  
 CCCTCGAATGCAGATGACTGCTACCAGTCTAACTGAAAGGAGAAGTACCCCAATCTTCATCCTCCAG  
 AAACCATAGCAGATGGTGTCAAATCCAGCATTGGCTTGAATACCTGGCCTATTATAAGAGACCTTGTTGA  
 TGATGTCTTCACTGTACCGAAGATGAAATCAAGTATGCAACCCAGCTGGTGTGGGGGAGAATGAAACTG  
 CTCATTGAGCCGACTGCTGGCGTGGCACTGGCTGCAGTGTCTCAGCATTTCCAAACAGTCTCTCCAG  
 AAGTAAAGAAGCTCTGCATTGTACTCAGTGGGGGAATGTAGACCTAACCTCCCTGAACTGGTGGGGCA  
 GGCTGAACGGCCAGCTCCTTACCAGACGTTTTCTGTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR205071 protein sequence  
 Red=Cloning site Green=Tags(s)

MCAQYCISFADVEKAHINIQDSIHLTPVLTSSILNQIAGRNLFFKCELFQKTGSFKIRGALNAIRGLIPD  
 TPEEKPAVVTHSSGNHGQALTYAAKLEGIPAYIVVPQTAPNCKKLAIQAYGASIVYCDPSDESREKVTQ  
 RIMQETEGILVHPNQEPAVIAGQGTIALEVLNQVPLVDALVVPVGGGMVAGIAITIKALKPSVKVYAAE  
 PSNADDCYQSKLKGELTPNLHPPETIADGVKSSIGLNTWPIIRDLDVDDVFTVTEDEIKYATQLVWGRMKL  
 LIEPTAGVALAAVLSQHFQTVSPEVKNVCIVLSGGNVDLTSLNWWGQAERPAPYQTVSV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_013761

**ORF Size:** 1020 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\\_013761.5](#)

**RefSeq Size:** 3699 bp

**RefSeq ORF:** 1020 bp

**Locus ID:** 27364

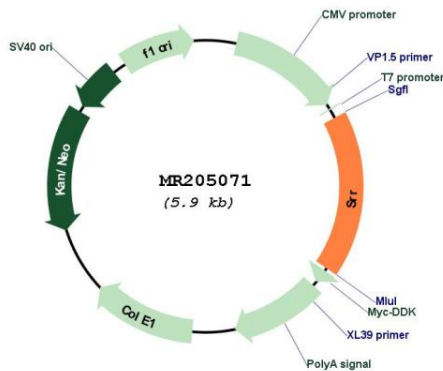
**UniProt ID:** [Q9QZX7](#)

**Cytogenetics:** 11 B5

**MW:** 36.4 kDa

**Gene Summary:** Catalyzes the synthesis of D-serine from L-serine. D-serine is a key coagonist with glutamate at NMDA receptors. Has dehydratase activity towards both L-serine and D-serine. [UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for MR205071