

Product datasheet for **MR225116**

Srr (NM_001163311) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Srr (NM_001163311) 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: >MR225116 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGTGCTCAGTACTGCATCTCCTTTGCTGATGTTGAAAAAGCTCATATCAACATTCAAGACTCTATCC
ACCTCACCCAGTGCTAACAAGCTCCATTTTGAATCAAATAGCAGGGCGCAATCTTTTCTCAAATGTGA
GCTCTCCAGAAAAGTGGTCTTTAAGATTCGAGGTGCCCTAATGCCATCAGAGGCTTAATTCCTGAC
ACGCCAGAAGAGAAGCCAAAGCCGTAGTACTCACAGCAGCGGAAACCATGGCCAAGCTCTCACCTATG
CTGCTAAACTGGAAGGAATTCCTGCTTACATTGTGGTTCCCAAACAGCTCCCAACTGCAAGAACTGGC
AATCCAAGCCTATGGAGCATCGATAGTATACTGTGACCCAAGTGACGAGTCCAGAGAAAAGTCACTCAA
AGAATTATGCAAGAAACAGAAGGCATCTTGGTCCATCCCAACCAGGAGCCTGCACTGATAGCTGGACAAG
GAACAATTGCCCTGGAAGTGCTGAACCAGGTTCCCTTGGTAGATGCACTGGTGGTACCAGTAGGAGGAGG
AGGAATGGTTGCTGGAATAGCCATTACAATTAAGGCCCTGAAACCTAGTGTGAAGGTATACGCTGCTGAG
CCCTCGAATGCAGATGACTGCTACCAGTCTAACTGAAAGGAGAAGTACCCCAATCTTCATCCTCCAG
AAACCATAGCAGATGGTGTCAAATCCAGCATTGGCTTGAATACCTGGCCTATTATAAGAGACCTTGTTGA
TGATGTCTTCACTGTACCGAAGATGAAATCAAGTATGCAACCCAGCTGGTGTGGGGGAGAATGAAACTG
CTCATTGAGCCGACTGCTGGCGTGGCACTGGCTGCAGTGTCTCAGCATTTCCAAACAGTCTCTCCAG
AAGTAAAGAACGTCTGCATTGTACTCAGTGGGGGAATGTAGACCTAACCTCCCTGAACTGGTGGGGCA
GGCTGAACGGCCAGCTCCTTACCAGACGTTTTCTGTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR225116 protein sequence
Red=Cloning site Green=Tags(s)

MCAQYCISFADVEKAHINIQDSIHLTPVLTSSILNQIAGRNLFFKCELFQKTGSFKIRGALNAIRGLIPD
 TPEEKPKAVVTHSSGNHGQALTYAAKLEGIPAYIVVPQTAPNCKKLAIQAYGASIVYCDPSDESREKVTQ
 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_001163311

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_001163311.2](#)

RefSeq Size: 3473 bp

RefSeq ORF: 1020 bp

Locus ID: 27364

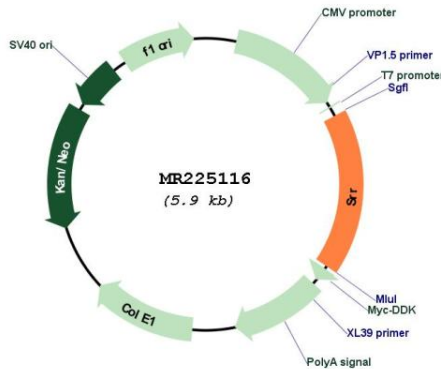
UniProt ID: [Q9QZX7](#)

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 MR225116