

## Product datasheet for **MG205071**

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

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Srr (NM\_013761) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Srr  
**Synonyms:** M100034; Rgsc34; Srs  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG205071 representing NM\_013761  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTGTGCTCAGTACTGCATCTCCTTTGCTGATGTTGAAAAAGCTCATATCAACATTCAGACTCTATCC  
ACCTACCCAGTGCTAACAAAGCTCCATTTTGAATCAAATAGCAGGGCGCAATCTTTTCTCAAATGTGA  
GCTCTCCAGAAAAGTGGGTCCTTTAAGATTCGAGGTGCCCTTAATGCCATCAGAGGCTTAATTCCTGAC  
ACGCCAGAAGAGAAGCCAAAGCCGTAGTACTCACAGCAGCGGAAACCATGGCCAAGCTCTCACCTATG  
CTGCTAAACTGGAAGGAATTCCTGCTTACATTGTGGTTCCCAAACAGCTCCCAACTGCAAGAACTGGC  
AATCCAAGCCTATGGAGCATCGATAGTACTGTGACCCAAGTGACGAGTCCAGAGAAAAGTCACTCAA  
AGAATTATGCAAGAAACAGAAGGCATCTTGGTCCATCCCAACCAGGAGCCTGCACTGATAGCTGGACAAG  
GAACAATTGCCCTGGAAGTGCTGAACAGGTTCCCTTGGTAGATGCACTGGTGGTACCAGTAGGAGGAGG  
AGGAATGGTTGCTGGAATAGCCATTACAATTAAGGCCCTGAAACCTAGTGTGAAGGTATACGCTGCTGAG  
CCCTCGAATGCAGATGACTGCTACCAGTCTAACTGAAAGGAGAAGTACCCCAATCTTCATCCTCCAG  
AAACCATAGCAGATGGTGTCAAATCCAGCATTGGCTTGAATACCTGGCCTATTATAAGAGACCTTGTGGA  
TGATGTCTTCACTGTACCGAAGATGAAATCAAGTATGCAACCCAGCTGGTGTGGGGGAGAATGAAACTG  
CTCATTAGCCGACTGCTGGCGTGGCACTGGCTGCAGTGTCTCAGCATTTCCAAACAGTCTCTCCAG  
AAGTAAAGAACGTCTGCATTGTACTCAGTGGGGGGAATGTAGACCTAACCTCCCTGAACTGGTGGGGCA  
GGCTGAACGGCCAGCTCCTTACCAGACGTTTTCTGTT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205071 representing NM\_013761  
 Red=Cloning site Green=Tags(s)

MCAQYCISFADVEKAHINIQDSIHLTPVLTSSILNQIAGRNLFFKCELFQKTGSFKIRGALNAIRGLIPD  
 TPEEKPKAVVTHSSGNHGQALTYAAKLEGIPAYIVVPQTAPNCKKLAIQAYGASIVYCDPSDESREKVTQ  
 RIMQETEGILVHPNQEPAVIAGQGTIALEVLNQVPLVDALVVPVGGGMVAGIAITIKALKPSVKVYAAE  
 PSNADDCYQSKLKGELTPNLHPPETIADGVKSSIGLNTWPIIRDLDVDDVFTVTEDEIKYATQLVWGRMKL  
 LIEPTAGVALAAVLSQHFQTVSPEVKNVCIVLSGGNVDLTSLNWVGAERPAPYQTVSV

TRTRPLE - GFP Tag - V

Restriction Sites:

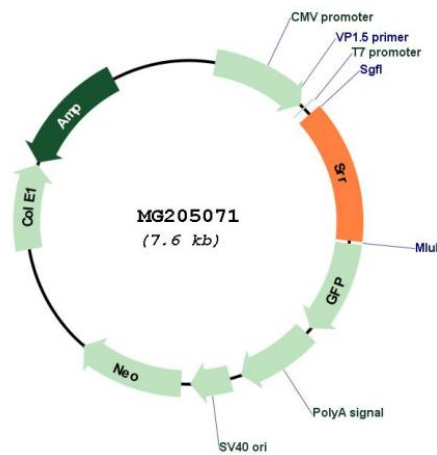
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM\_013761

ORF Size: 1017 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_013761.5</a>
<b>RefSeq Size:</b>	3169 bp
<b>RefSeq ORF:</b>	1020 bp
<b>Locus ID:</b>	27364
<b>UniProt ID:</b>	<a href="#">Q9QZX7</a>
<b>Cytogenetics:</b>	11 B5
<b>Gene Summary:</b>	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]