

## Product datasheet for **MG200820**

### Srxn1 (NM\_029688) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Srxn1 (NM\_029688) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Srxn1  
**Synonyms:** 1700127B04Rik; AI854065; AW488194; Npn3; Srx; Srx1; TX01  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG200820 representing NM\_029688  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGGCTACGCGCGGGTGGAGCGCTCCGGAGGGCGGGTGC GGCGCCGGGGCGCCCGAGGGACAGGGAC  
 CCGGTGGCGCCAGGGCGGCAGCATCCACTCGGGCTGCATCGCCACGGTGCACAACGTACCAATCGCCGT  
 GCTCATCCGGCCGCTGCCGTCCGTGCTGGACCCGGCCAAAGTGCAGAGCCTGGTGGACACGATCCTGGCG  
 GACCCTGACAGTGTGCCCCCATCGACGTCTCTGGATCAAAGGGGCCAGGGTGGCGACTACTACTATT  
 CCTTTGGGGGCTGCCACCGCTATGCAGCCTACCAGCAGCTGCAGAGAGAGACCATTCTGCCAAGCTCGT  
 GAGGTCCACCCTTTCAGACCTGAGGATGTACCTGGGAGCATCCACACCAGACTTGCAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG200820 representing NM\_029688  
 Red=Cloning site Green=Tags(s)  
 MGLRAGGALRRAGAGPGAPEQGPGGAQGGSIHSGCIATVHNVPIAVLIRPLPSVLDPAKVQSLVDTILA  
 DPDSVPPIDVLWIKGAQGGDYYSFGGCHRYAAYQLQRETIPAKLVRSTLSDLRMYLGASTPDLQ

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI

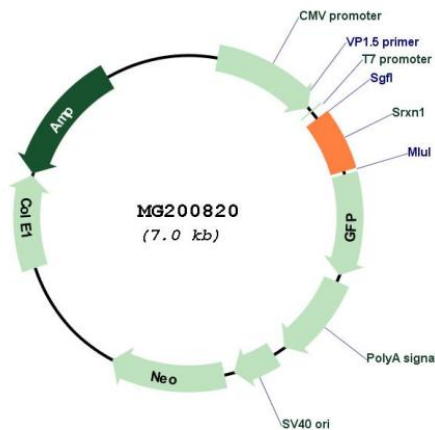


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_029688

ORF Size: 408 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](#)

<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_029688.4</a>
<b>RefSeq Size:</b>	2588 bp
<b>RefSeq ORF:</b>	468 bp
<b>Locus ID:</b>	76650
<b>UniProt ID:</b>	<a href="#">Q9D975</a>
<b>Cytogenetics:</b>	2 G3
<b>Gene Summary:</b>	Contributes to oxidative stress resistance by reducing cysteine-sulfinic acid formed under exposure to oxidants in the peroxiredoxins PRDX1, PRDX2, PRDX3 and PRDX4. Does not act on PRDX5 or PRDX6. May catalyze the reduction in a multi-step process by acting both as a specific phosphotransferase and a thioltransferase.[UniProtKB/Swiss-Prot Function]