

## Product datasheet for **MG218719**

### **Sco1 (NM\_001040026) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Sco1 (NM\_001040026) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Sco1  
**Synonyms:** 2610001C07Rik; D11Bwg1310e  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG218719 representing NM\_001040026  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGGCAGCACTTGTACGCGCCGAGTGGTGGAGTGCAGTGTCCGAGCTCTGGCGTCTGTTCCCTCGCG  
GCCATGGGCTCAGGGATGTGGCGGAGAGGCCGAGACCGGAGGAAGCGTCTCCTGCCTGCGGAGCAGAGC  
CTTCAGCGCTGGGCCGCCACCGCCGGGGCCGGTCCGGAGCCCAAGGGCGGTCAAGCCGGGTCTCACCGC  
CCGAAGCCTGGGCTGTTTCTTGAAGTCTTTAGCTCTCACCTTTGCCATTGGAGGCTCTTTATTGGCTG  
GAATGAAGTACTCAAGAAAGAAAAGATAGAAAAGCTGGAGAAACAACGGCATCGCAGCATTGGGAAGCC  
TTTACTAGGGGGCCATTTTCCCTTACAACCTACAATGGAGAGCCAAAACCGACAAGGACTACCTGGGT  
CAATGGGTATTGATTTATTTGGCTTCACTCATTGCCCTGATATCTGTCCAGAAGAACTAGAAAAATGA  
TTGAAGTCGTGGAGGAGATAGACAGTATTCATCCCTGCCAAATTTAACTCCACTTTTTCATCACCATTGA  
CCCAGAAAGGGACACCAAGAAGCCATTGCGACTTATGTGAAAGAATTTCTCCCAAATTTGGTTGGTTTG  
ACTGGCACAAAAGAAGAGATTGATGGAGTGGCCAGAGCATAACAGGGTGTATTACAGCCCTGGCCGAAGG  
ATGAGGATGAAGACTACATAGTGGATCATAAATAAATGTACTTGATTGGACCAGATGGAGAATTTCT  
TGATTATTTGGACAAAACAAGAAGAAGGCAGAAATAGCCGGCTCAATTGCTGCACACATGAGGTCACAC  
ATGAAGAAGAGG

**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA**



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Protein Sequence: >MG218719 representing NM\_001040026  
 Red=Cloning site Green=Tags(s)

MAALVRAAVVRSQCRQLWRLFPRGHGLRDVAERPRPEEACSLRSRAFSAGPPPPGAGPEPKGGQAGSHR  
 PKPGPVSWKSLALTF AIGGSLLAGMKYFKKEKIEKLEKQRHRSIGKPLLGGPFLSTTHNGEPKTDKDYLG  
 QWVLIYFGFTHCPDICPEELEKMIIEVVEEIDSIPSLPNLTPLFITIDPERDTKEAIATYVKEFSPKLVGL  
 TGTKEEIDGVARAYRVYVSPGPKDEDEDYIVDHTIIMYLIIGPDGEFLDYFGQNKKAIEIAGSIAAHMRSH  
 MKKR

TRTRPLE - GFP Tag - V

Restriction Sites:

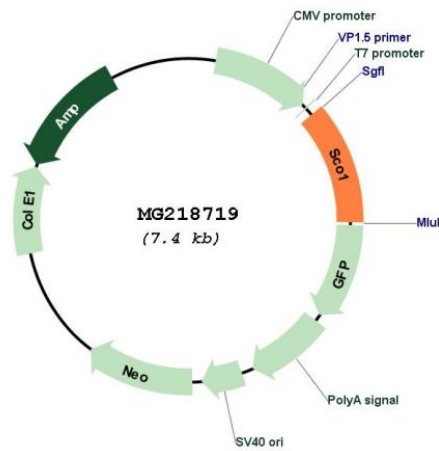
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM\_001040026

ORF Size: 852 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_001040026.1</a> , <a href="#">NP_001035115.1</a>
<b>RefSeq Size:</b>	4280 bp
<b>RefSeq ORF:</b>	855 bp
<b>Locus ID:</b>	52892
<b>UniProt ID:</b>	<a href="#">Q5SUC9</a>
<b>Cytogenetics:</b>	11 40.59 cM
<b>Gene Summary:</b>	Copper metallochaperone essential for the maturation of cytochrome c oxidase subunit II (MT-CO2/COX2). Not required for the synthesis of MT-CO2/COX2 but plays a crucial role in stabilizing MT-CO2/COX2 during its subsequent maturation. Involved in transporting copper to the Cu(A) site on MT-CO2/COX2 (By similarity). Plays an important role in the regulation of copper homeostasis by controlling the abundance and cell membrane localization of copper transporter CTR1 (PubMed:25683716, PubMed:28973536).[UniProtKB/Swiss-Prot Function]