

## Product datasheet for **RG235197**

### **SORCS1 (NM\_001206571) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** SORCS1 (NM\_001206571) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** SORCS1  
**Synonyms:** hSorCS  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG235197 representing NM\_001206571  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGGATCGCC

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 TGATCCTCTGCGCCCCGGCGTCTGCGCGCGGGCTCCTGCTGCCCTCGCCGACCCCAGCTCCGCTCC  
 ACGCTCGGCTCGACCCCTAGGGCTTTTCCCACAGGGCGGCCAGGCAGGGCTCCTGCCACGCCCTG  
 CCCCTCGTAGTGGTCCCCTGTTCTCAGTGGCCCCGGGACCGAGCGCTATCCCTGGAGCGGGCTCGG  
 GCACTGGGGCATCCATGGCGTTGCTGCACGCTCCGGCCGAGGAGACGGAGCGGAGCGGATCAGGAGAA  
 GGCAAGACGGGGAGAGGGCGCGAGTCGGAGCCCCGGGAGTGCTAAGAGATGGAGGGCAGCAGGAGCCT  
 GGGACTCGGGAGCGGGACCCGGACAAAGCCACCCGCTTCCGGATGGAGGAGCTGAGACTGACCAGACCA  
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 GATTCTCATTTTGACAAAGCTCTATGACTATAACCTGGGAGCATCACAGAGAGCTCGCTTTGGAGGTCA  
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 CAGAAGTGTACAGAGGCCAACAGGAATCAGCCTTTCCAGGCTACATTGACCCAGACTCTTTGATTGTT  
 AGGATCATTATGTGTTTGTTCAGCTGACATCAGGAGGGCGCCACATTACTACGTGCTCCTACCGAAGGAA  
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ACTTTCATCACATATAACAAAGGCAGAGACTGGCGTTTGTCTGCAGGCGCCGGACACGGATCTAAGGGGG  
ACCCCGTGCAGTCTTGTCTGCCCTATTGCTCACTACACCTTACCTGAAGGTCTCTGAGAATCCCTACAC  
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AAGTTTAAAGGTGCGTGTCCCTCTATCCAGTTCACCCACCCCTGACCTTCTCTCCCTGACAGGT  
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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

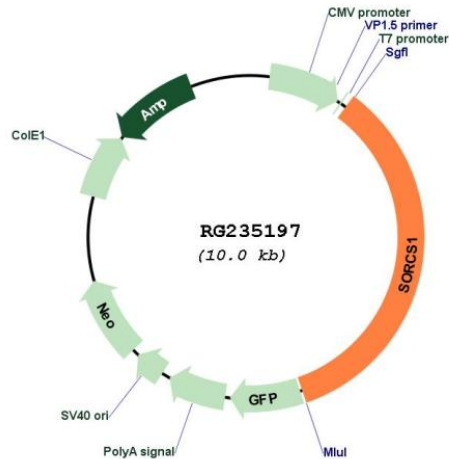
**Protein Sequence:** >RG235197 representing NM\_001206571  
 Red=Cloning site Green=Tags(s)

MGKVGAGGGSQARLSALLAGAGLLILCAPGVCGGGSCCPSHPSSAPRSASTPRGFHQGRPRGRAPATPL  
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 GTRERDPDKATRFMEELRLTSTTFALTGDSAHNQAMVHWSGHNSVILILTKLYDYNLGSITESSLWRS  
 TDYGTTYEKLNDKVGLKTIILSYLYVCPTNKRKIMLLTDPEIESSLLISSDEGATYQKYRLNFYIQSLLFH  
 PKQEDWILAYSQDQKLYSSAEFGRRWQLIQEGVVPNRFYWSVMGSNKEPDLVHLEARTVDGHSYLTCRM  
 QNCTEANRNQPPFGYIDPDSLIVQDHYVFVQLTSGGRPHYVVSYRRNAFAQMKLPKYALPKDMHVI<sup>1</sup>STDE  
 NQVFAAVQEWNQNDTYNLYISDTRGVYFTLALENVQSSRGPEGNIMIDLVEVAGIKGMFLANKKIDNQVK  
 TFI<sup>2</sup>TYNKGRDWRLQAPD<sup>3</sup>DLRGDPVHCLLPYCSLHLHLK<sup>4</sup>VS<sup>5</sup>ENPYTSGIIASKDTAPSIIVASGNIGSE  
 LSDTDISMVSSDAGNTWRQIFEEH<sup>6</sup>SVLYLDQGGV<sup>7</sup>L<sup>8</sup>VAMKHTSLPIRHLWLSFDEGRSWSKYSFTSIPL  
 FVDGVLGEPGEETLIMTVFGHF<sup>9</sup>SHRSEWQLVKVDYK<sup>10</sup>SIFDRCAEEDYRPWQLHSQGEACIMGAKRIYKK  
 RKSERKCMQK<sup>11</sup>YAGAMESEPCVCTEADFD<sup>12</sup>CDYGERHSNGQCLPAFWFNPSSLKDCSLGQSYLNSTGYR  
 KVVSNNCTDGVREQY<sup>13</sup>TAKPQKCPGKAPRGLRIVTADGKL<sup>14</sup>TAEQGHNVTL<sup>15</sup>MVQLEE<sup>16</sup>GDVQRTLIQVDFGDG  
 IAVSYVNLSSMEDGIKHYQNVGIFRVTVQVDNSLGS<sup>17</sup>DSAVLYLHVTCPLEHVHLSLPFVTTKNKEVNAT  
 AVLWPSQVGTLYVWYGNNT<sup>18</sup>EP<sup>19</sup>LITLEG<sup>20</sup>SISFRFTSEG<sup>21</sup>MNTITVQVSAGNAILQD<sup>22</sup>TKTIAVYEEFRSLR  
 LSFSPNLDDYNDIPEWRRDIGRVIK<sup>23</sup>SLVEATGVPQ<sup>24</sup>QHILVAVLPGLPTTAE<sup>25</sup>LVLPYQDPAGENKRST  
 DDLEQISELLIHTLNQNSVHFELKPGV<sup>26</sup>RVLVHAAHLTAAPLV<sup>27</sup>DLTPTHSGSAMLMLLSVVFVGLAVFVIY  
 KFKRCVSLYPRSP<sup>28</sup>TPDLFLLPDRFRSMCYSDVHSSDGFY

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI  
**Cloning Scheme:**



**Plasmid Map:**


**ACCN:** NM\_001206571

**ORF Size:** 3477 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\\_001206571.2](#)

**RefSeq Size:** 4259 bp

**RefSeq ORF:** 3480 bp

**Locus ID:** 114815

**UniProt ID:** [Q8WY21](#)

**Cytogenetics:** 10q25.1

**Protein Families:** Druggable Genome, Transmembrane

**Gene Summary:** This gene encodes one family member of vacuolar protein sorting 10 (VPS10) domain-containing receptor proteins. The VPS10 domain name comes from the yeast carboxypeptidase Y sorting receptor Vps10 protein. Members of this gene family are large with many exons but the CDS lengths are usually less than 3700 nt. Very large introns typically separate the exons encoding the VPS10 domain; the remaining exons are separated by much smaller-sized introns. These genes are strongly expressed in the central nervous system. Two of the five family members (sortilin and sortilin-related receptor) are synthesized as preproteins; it is not yet known if this encoded protein is also a preproprotein. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]