

## Product datasheet for **MC224610**

### Sypc2 (NM\_177191) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Sypc2 (NM\_177191) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Sypc2  
**Synonyms:** 3830402K23Rik; 4930518F03Rik  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC224610 representing NM\_177191  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGCCAGTGAGACCAGACCTCCAACAGTTAGAAAAGTGTATTGATGATGCTTTGAGAAAAATGACTTCA  
AACCTTTGTTGGCACTTTTACAATTGATTTTGTGAAGATGTGAAGATTAATGCAGCAAAACAATTCCT  
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AAGGATTAGTCCAAAAGATGGTTTCTGGTTTGA AAAATCCAAGGAGATTATTCTAAATCAACAACAATC  
AAAAGATGAAGCTGTTATGAATATGATAGAAGACTTATTTGATCTTTGATGGTCATATATGACATCAGT  
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TGAATTTTGCATTACAGCAGGAGGCTTTAAAAAAAATGAATTTGATGCTTGACAGAATACCTCAAGATGC  
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TTTCTAAAACATCAGAAAGTGAATGGATTATGCTGCGTCACCCAAATCTAGACAATCAGATGGAAGAAA  
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 CAAGATACTGGTGTCAACAAAAAATGCACTAAACAAAAATCAGTATCAGATGATGATTCTGAAGAAACAC  
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 CAAAACCTCATTATCGACACCAGATTTTCTGTTCTTAAGGACTGGCAACAAGAGTTACAAGGTGCTGGA  
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 GGATGAAAATGTTGAGAAATCCAAGTCACTCTCTAGATGAGCTGGAAAAAGTTGAAAAAGACTCACAG  
 ACTTTGCGAGACTTGAGAAAAGAGCTTGTGGACATCGAGGAAAAGTTAGTTTCAAGATGAGGGCATAATC  
 ACCGATGTGAGCGAGAGAGGTTTCGTGTTTTGAAAACCTCACTGGATAAAAAGTTTTCTGTCTATAATTC  
 TGTTTTATGAAGAGTCTGTTTTTACATCTGAGATGTGTTTATGAAAGCAAACATGAAAATGCTACAAGAC  
 AAGCTACTTAAGGAGATGCATGAAGAGGAAGTTCTCAACATACGCAGAGGACTACAGTCATTATTCAAGG  
 CTCATGAAGGAAATGATGCATGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI  
 ACCN: NM\_177191  
 Insert Size: 4503 bp

<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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_177191.3</a> , <a href="#">NP_796165.2</a>
<b>RefSeq Size:</b>	5688 bp
<b>RefSeq ORF:</b>	4503 bp
<b>Locus ID:</b>	320558
<b>UniProt ID:</b>	<a href="#">Q9CUU3</a>
<b>Cytogenetics:</b>	2 H4
<b>Gene Summary:</b>	Major component of the axial/lateral elements of synaptonemal complexes (SCS) during meiotic prophase. Plays a role in the assembly of synaptonemal complexes (PubMed:16717126). Required for normal meiotic chromosome synapsis during oocyte and spermatocyte development and for normal male and female fertility (PubMed:16717126). Required for insertion of SYCP3 into synaptonemal complexes (PubMed:16717126). May be involved in the organization of chromatin by temporarily binding to DNA scaffold attachment regions. Requires SYCP3, but not SYCP1, in order to be incorporated into the axial/lateral elements.[UniProtKB/Swiss-Prot Function]