

## Product datasheet for **MC209487**

### Sypc3 (NM\_011517) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sypc3 (NM_011517) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sypc3
Synonyms:	Cor1; Scp3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC209487 representing NM_011517 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTTCGAGGGTGTGGGACAGCGACAGCTCACCGGAGCCGCTGAGCAAACATCTAAAGATGGTGCCTG  
GTGGAAGAAAGCATTCTGGGAAATCTGGGAAGCCACCTTTGGTTGATCAGCCTAAAAAGCCTTTGACTT  
TGAGAAAGATGATAAAGATCTGTCTGGTTCAGAAGAAGATGTTGCTGATGAAAAGGCTCCAGTAATTGAT  
AAACATGGAAAGAAAAGATCTGCTGGGATAATTGAAGATGTTGGAGGTGAAGTACAGAATATGCTGGAAA  
AATTTGGAGCTGACATCAACAAAGCTCTTCTTGCCAAGAGGAAAAGAATAGAAATGTATACCAAAGCTTC  
TTTCAAAGCCAGTAACCAGAAAATTGAGCAAATTTGGAAAACACAACAAGAGGAAATACAGAAGCTTAAC  
AATGAATATTCTCAGCAATTTATGAATGTGTTGCAGCAGTGGAAGTGGATATACAGAAATTTGAGGAAC  
AAGGAGAAAACTATCTAATCTTTTCGACAACAACAAAAGATTTTTCAGCAGTCTAGAATTGTTGAGAG  
CCAGAGAATGAAAGCAATCAAACAGATACACGAGCAGTTCATAAAGAGTTTGAAGATGTGGAAAAGAAAT  
AATGATAATCTATTTACTGGCACACAAAGTGAAGTAAAAAGAAATGGCTATGTTGCAAAAAAAGTTA  
TGATGGAACTCAGCAGCAAGAGATGGCAAATGTTGAAAGTCTCTTCAATCCATGTTATTCTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_011517
Insert Size:	765 bp



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<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_011517.2</a> , <a href="#">NP_035647.2</a>
<b>RefSeq Size:</b>	1132 bp
<b>RefSeq ORF:</b>	765 bp
<b>Locus ID:</b>	20962
<b>UniProt ID:</b>	<a href="#">P70281</a>
<b>Cytogenetics:</b>	10 C1
<b>Gene Summary:</b>	Component of the synaptonemal complexes (SCS), formed between homologous chromosomes during meiotic prophase (PubMed:11311943, PubMed:22761579). Required for centromere pairing during meiosis in male germ cells (PubMed:22761579). Required for normal meiosis during spermatogenesis and male fertility (PubMed:10678170). Plays a lesser role in female fertility (PubMed:10678170, PubMed:12004129). Required for efficient phosphorylation of HORMAD1 and HORMAD2 (PubMed:22346761).[UniProtKB/Swiss-Prot Function]