

Product datasheet for **MG225489**

Sypc3 (NM_011517) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sypc3 (NM_011517) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sypc3
Synonyms:	Cor1; Scp3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG225489 representing NM_011517 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTTCGAGGGTGTGGGACAGCGACAGCTCACCGAGCCGCTGAGCAAACATCTAAAGATGGTGCCTG
GTGGAAGAAAGCATTCTGGGAAATCTGGGAAGCCACCTTTGGTTGATCAGCCTAAAAAGCCTTTGACTT
TGAGAAAGATGATAAAGATCTGTCTGGTTCAGAAGAAGATGTTGCTGATGAAAAGCTCCAGTAATTGAT
AAACATGGAAAGAAAAGATCTGCTGGGATAATTGAAGATGTTGGAGGTGAAGTACAGAATATGCTGGAAA
AATTTGGAGCTGACATCAACAAAGCTCTTCTTGCCAAGAGGAAAAGAATAGAAATGTATACCAAAGCTTC
TTTCAAAGCCAGTAACCAGAAAATTGAGCAAATTTGAAAAACACAACAAGAGGAAATACAGAAGCTTAAC
AATGAATATTCTCAGCAATTTATGAATGTGTTGCAGCAGTGGAAGTGGATATACAGAAATTTGAGGAAC
AAGGAGAAAACTATCTAATCTTTTCGACAACAACAAAAGATTTTTCAGCAGTCTAGAATTGTTTCAGAG
CCAGAGAATGAAAGCAATCAAACAGATACACGAGCAGTTCATAAAGAGTTTGGAAAGATGTGGAAAAGAAAT
AATGATAATCTATTTACTGGCACACAAAGTGAAGTAAAAAGAAATGGCTATGTTGCAAAAAAAGTTA
TGATGGAACTCAGCAGCAAGAGATGGCAAATGTTGAAAGTCTCTTCAATCCATGTTATTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG225489 representing NM_011517
 Red=Cloning site Green=Tags(s)

MLRGCGSDSSPEPLSKHLKMPVGGGRKHSKGKSGKPPLVDQPKAFDFEKDDKDL SGSEEDVADEKAPVID
 KHGKKRSAGI IEDVGGEVQNMLEKFGADINKALLAKRKRIEMYTKASFKASNQKIEQIWKTKQEEIQKLN
 NEYSQQFMNVLQQWELDIQKFEEQGEKLSNLFRRQQKIFQQSRI VQSQRMKAIKQIHEQF IKSLEDVEKN
 NDNLFTGTQSELKKEMAMLQKKVMMETQQQEMANVRKSLQSMFL

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja3134_a05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_011517

ORF Size: 762 bp

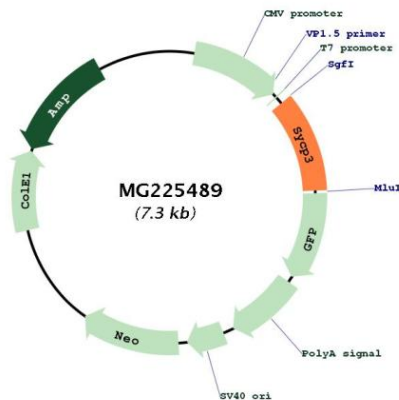
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<ol style="list-style-type: none"> 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:	<u>NM_011517.2</u> , <u>NP_035647.2</u>
RefSeq Size:	1132 bp
RefSeq ORF:	765 bp
Locus ID:	20962
UniProt ID:	<u>P70281</u>
Cytogenetics:	10 C1
Gene Summary:	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]

Product images:



Circular map for MG225489