

Product datasheet for **RG219117**

SYPL2 (NM_001040709) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	SYPL2
Synonyms:	MG29
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG219117 representing NM_001040709
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGTCCTCGACCGAGAGCGCCGGCCGACGGCGGACAAGTCGCCGCGCCAGCAGGTGGACCGCCTACTCG
TGGGGCTGCGCTGGCGCGGGCTGGAGGAGCCGCTGGGCTTCATCAAAGTTCTCCAGTGGCTCTTTGCTAT
TTTCGCCTTCGGGTCTGTGGCTCTACAGCGGGGAGACAGGAGCAATGGTTCGCTGCAACAACGAAGCC
AAGGACGTGAGCTCCATCATCGTTGCATTTGGCTATCCCTTCAGGTTGCACCGGATCCAATATGAGATGC
CCCTCTGCGATGAAGAGTCCAGCTCCAAGACCATGCACCTCATGGGGGACTTCTCTGCACCCGCCGAGTT
CTTCGTGACCCTTGGCATCTTTTCTTCTCTATACCATGGCTGCCCTAGTTATCTACCTGCGCTTCCAC
AACCTCTACACAGAGAACAACGCTTCCCGCTGGTGGACTTCTGTGTGACTGTCTCCTTCACCTTCTTCT
GGCTGGTAGCTGCAGCTGCCTGGGCAAGGGCCTGACCGATGTCAAGGGGGCCACACGACCATCCAGCTT
GACAGCAGCCATGTCAAGTGTGCATGGAGAGGAAGCAGTGTGCAAGTCCCGGGGCCACGCCCTCTATGGGC
CTGGCCAACATCTCCGTGCTCTTTGGCTTTATCAACTTCTTCTGTGGGCCGGGAAGTGTGGTTTGTGT
TCAAGGAGACCCCGTGGCATGGACAGGGCCAGGGCCAGGACCAGGACCAGGACCAGGACCAGGACCAGG
TCCAGCCAGGAGAGTGCAGCTGAGCAGGGAGCAGTGGAGAAGCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >RG219117 representing NM_001040709
Red=Cloning site Green=Tags(s)

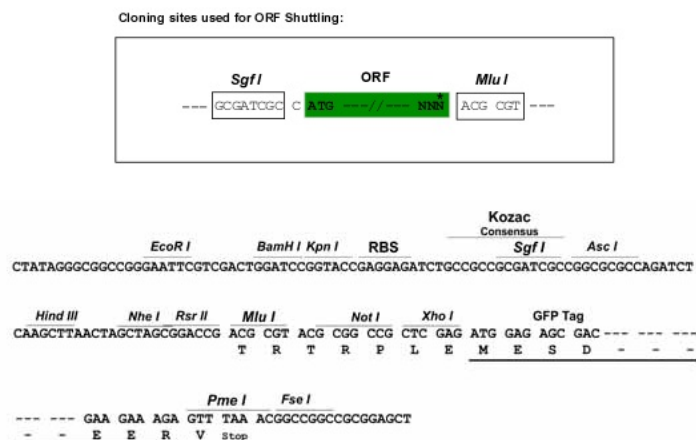
MSSTESAGRTADKSPRQQVDRLVLGLRWRRLEELPGFIKVQLWFAIFAFGSCGSYSGETGAMVRCNNEA
KDVSSIIIVAFGYPFRLHRIQYEMPLCDEESSSKTMHLMGDFSAPAEFFVTLGIFSFFYTMAALVIYLRFH
NLTYTENKRFLPVDFCVTSFTFFWLAAAAWGKGLTDVKATRPSSLTAAMSVCHEEAVCSAGATPSMG
LANISLVLFGINFLLWAGNCWFVKETPDWHGGOGODODODODOGOPSOESAEEQAVEKO

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja3204_a04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001040709

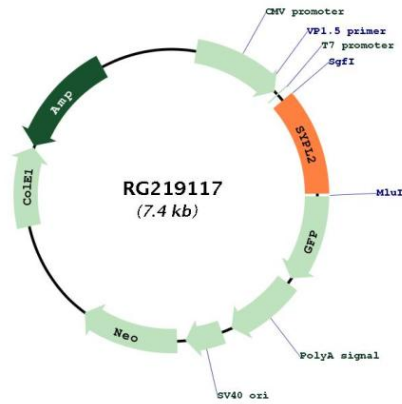
ORF Size: 816 bp

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:	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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001040709.2</u>
RefSeq Size:	3779 bp
RefSeq ORF:	819 bp
Locus ID:	284612
UniProt ID:	<u>Q5VXT5</u>
Cytogenetics:	1p13.3
Protein Families:	Transmembrane
Gene Summary:	Involved in communication between the T-tubular and junctional sarcoplasmic reticulum (SR) membranes.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG219117