

## Product datasheet for **RG215998**

### **SYTL5 (NM\_138780) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	SYTL5 (NM_138780) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SYTL5
Synonyms:	slp5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide  
Sequence:

>RG215998 representing NM\_138780  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGTCTAAGAACTCAGAGTTCATCAATCTGTCATTTTTATTAGATCATGAGAAGGAAATGATCCTGGGCG  
TCCTAAAGAGAGATGAATATTTGAAAAAGTGGAGGACAAGAGAATAAGGAAGCTGAAAAATGAACCTT  
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AAAAGTCAGACACTTCACCTGTTGCTGGGAAGAAGGCCAGCCATGATGGGCCAAGAGAAAGGGATTCT  
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GCTTTAGACAAGGACTCCTTGGAAAGACTGAAGAAAGCATTGATGCCTTAGTGTCTCGCAGTTATCTA  
CAAACTCACCCTCTGGCAAGTGGCCTATCAACTACCAGCCTAACAGCATGATGAGCGTTTACAGTA  
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TCGTTTGAATCTGGAAGTGGTGTGAGCCATGGGAAGAACGTGGATTGGATGGACTCTCAGGGGGAAGAG  
CAGCGCCTTTGGCAGAAGATGGCCAACAACCCTGGAACCTCCTTTGAGGGTGTACTCATGCTTCGTTCCA  
GCATGGGAAAATGTAGGCTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG215998 representing NM\_138780  
 Red=Cloning site Green=Tags(s)

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MSKNSEFINLSFLLDHEKEMILGVLKRDEYLKKVEDKRIKLNELLEAKRRSGKTQQEASRVCVHCHRN
LGLIFDRGDPCQACSLRVCRECRVAGPNGSWKCTVCDKIAQLRIITGEWFFEEKAKRFKQVNVLTGDVVR
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FENSMDLAAIEGTSQELTKSHRRNTSGTPSIAVSGTSLSSDQSRSELDLSESFTEDESDTVSIRSKSVPG
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GGLYIFVKNCRNLAIGDEKKQRTDAYVKSULLPDKSRNNKRKTKIRTGTNPEFNETLKYISHTQLETRT
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```

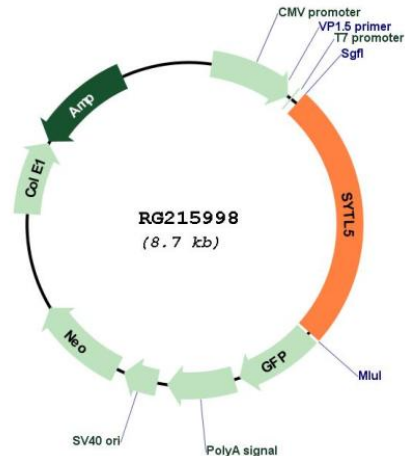
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**


**ACCN:** NM\_138780

**ORF Size:** 2190 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\\_138780.3](#)

**RefSeq Size:** 2193 bp

**RefSeq ORF:** 2193 bp

**Locus ID:** 94122

UniProt ID: [Q8TDW5](#)

Cytogenetics: Xp11.4

**Gene Summary:** The protein encoded by this gene belongs to the synaptotagmin-like (Slp) protein family, which contains a unique homology domain at the N-terminus, referred to as the Slp homology domain (SHD). The SHD functions as a binding site for Rab27A, which plays a role in protein transport. Expression of this gene is restricted to placenta and liver, suggesting that it might be involved in Rab27A-dependent membrane trafficking in specific tissues. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2009]