

## Product datasheet for **RG217266**

### STXBP5L (NM\_014980) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	STXBP5L (NM_014980) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	STXBP5L
Synonyms:	LLGL4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG217266 representing NM_014980 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGATCGCC**

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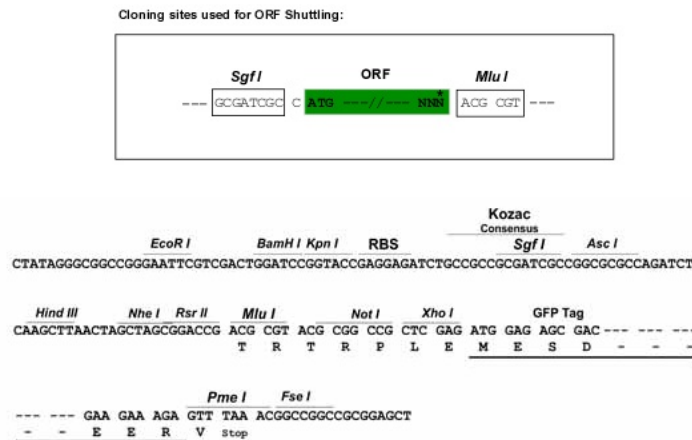
**Protein Sequence:** >RG217266 representing NM\_014980  
 Red=Cloning site Green=Tags(s)

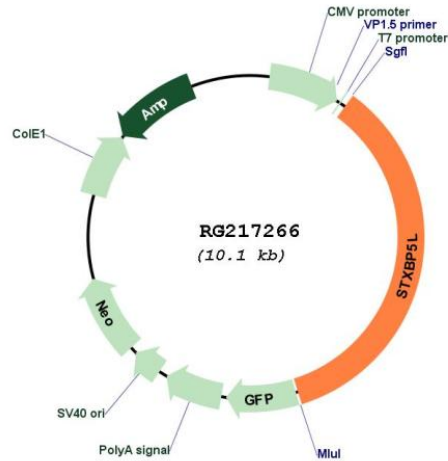
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 FARKNDSTISPLCFVGTSLGMVLIISLNLPLADEQRFT EPVMVLP SGTFLSLKGA VLTFCMDRMGGLMQ  
 PPYEVWRDPNNIDENEKSWRRKVMNSSASQEI GDHQYTIICSEKQAKVFLSPSQTCLYVHNITET SFI  
 LQANVVVMCSSACLACFCANGHIMMSLPSLRPMLDVNYLPLTDMRIARTFCFTNEGQALYLVSPTEIQR  
 LTYSQEMCDNLQDMLGDLFTPIETPEAQN RGF LKGLFGGSGQTFDREELFGEASAGKASRSLAQHIPGPG  
 SIEGMKAAGVMGELTRARIALDERGQRLGELEEK TAGMMTSAEAFSKHAHELM LK YKDKKWKYQF

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**


**ACCN:** NM\_014980

**ORF Size:** 3558 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\\_014980.3](#)

**RefSeq Size:** 4536 bp

**RefSeq ORF:** 3561 bp

**Locus ID:** 9515

**UniProt ID:** [Q9Y2K9](#)

**Cytogenetics:** 3q13.33

**Gene Summary:**

The protein encoded by this gene is similar to syntaxin-binding protein 5 and contains ten N-terminal WD40 repeats, four variable region WD40 repeats, and a C-terminal R-SNARE domain. Studies of the orthologous proteins in mouse and rat have shown that the encoded protein may inhibit exocytosis in neurosecretory cells, and may negatively regulate the secretion of insulin. A missense variant in this gene is likely the cause of an infantile-onset neurodegenerative disorder diagnosed in two siblings of consanguineous parents. [provided by RefSeq, Jan 2017]