

## Product datasheet for **RG208282**

### Syntaxin 12 (STX12) (NM\_177424) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Syntaxin 12 (STX12) (NM_177424) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Syntaxin 12
Synonyms:	STX13; STX14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG208282 representing NM_177424 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCATACGGTCCCTTAGACATGTACCGAACCCGGGGCCCTCGGGGCCCCAGCTCCGGGACTTCAGCA  
GCATCATCCAGACGTGCAGCGGCAACATCCAGCGGATCAGCCAAGCCACTGCTCAGATAAAGAATTTGAT  
GAGCCAGCTAGGAACTAAGCAGGACTCAAGCAAGCTACAGGAAAATCTGCAACAGTTACAACACTCCACA  
AATCAGCTCGCCAAGGAAACAAATGAATTGCTGAAAGAATTAGGGTCTTGCCCCCTCCCTTATCTACTT  
CAGAACAGCGCCAGCAGAGACTTCAGAAGGAACGCCTCATGAATGACTTCTCTGCAGCCTAAACAATTT  
CCAGGCTGTGCAGAGAAGGGTATCTGAAAAGGAAAAGGAGAGTATTGCCAGAGCAAGAGCTGGATCTCGT  
CTTTCTGCAGAAGAGAGGCAAAGAGAGGAGCAGCTGGTCTCATTTGACAGCCATGAGGAGTGAACCCAGA  
TGCAGAGCCAGGAGGATGAGGTGGCCATCACTGAGCAGGATTTGGAACCTATTAAGAAAGAGAAACGGC  
AATTCGGCAGCTGGAGGCTGACATTTTGGATGTCAATCAGATATTTAAAGATTTGGCCATGATGATCCAT  
GACCAGGGTATCTGATTGATAGCATAGAAGCCAATGTGGAAAGCTCAGAGGTGCACGTGCAAAGAGCCA  
CTGAACAGTTACAGCGAGCTGTTACTATCAGAAAAATCTCGCAAGAAGATGTGTATCCTGGTCTTGT  
CCTGTCAGTGATTATTCTAATCTTGGGACTTATTATCTGGCTAGTTTATAAAACGAAG

AGCGG**ACCG**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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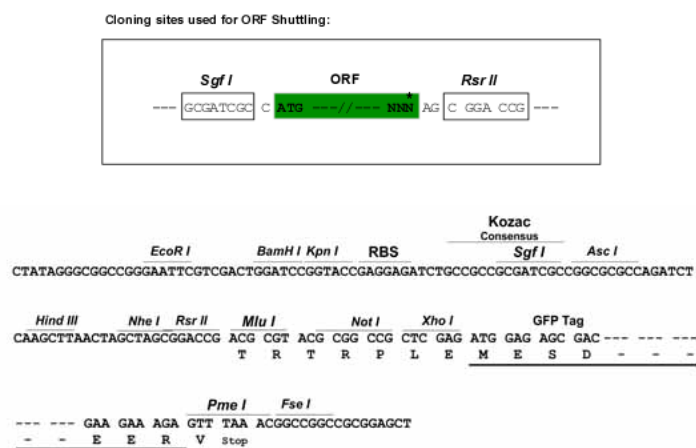
**Protein Sequence:** >RG208282 representing NM\_177424  
 Red=Cloning site Green=Tags(s)

MSYGPLDMYRNPGSPGQLRDFSSIIQTCSGNIQRISQATAQIKNLMSQLGKQDSSKLQENLQQLQHST  
 NQLAKETNELLKELGSLPLPLSTSEQRQRLQKERLMNDFSAALNNFQAVQRRVSEKEKESIARARAGSR  
 LSAEERQREEQLVSFDSHEEWNQMOSQEDEVAITEQDLELIKERETAIRQLEADILDVNQIFKDLAMMIH  
 DQGD LID SIEANVESSEVHVERATEQLQRAAYYQKKSRRKMCILVLVLSV IILGLI IWLVYKTK

SGP<sup>TRRRLE</sup> - GFP Tag - V

**Restriction Sites:** SgfI-RsrII

**Cloning Scheme:**



**ACCN:** NM\_177424

**ORF Size:** 828 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\\_177424.3](#)

**RefSeq Size:** 2881 bp

**RefSeq ORF:** 831 bp

**Locus ID:** 23673

**UniProt ID:** [Q86Y82](#)

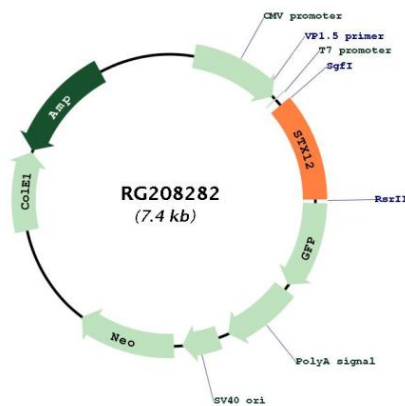
**Cytogenetics:** 1p35.3

**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** SNARE interactions in vesicular transport

**Gene Summary:** SNARE that acts to regulate protein transport between late endosomes and the trans-Golgi network. The SNARE complex containing STX6, STX12, VAMP4 and VT11A mediates vesicle fusion (in vitro) (By similarity). Through complex formation with GRIP1, GRIA2 and NSG1 controls the intracellular fate of AMPAR and the endosomal sorting of the GRIA2 subunit toward recycling and membrane targeting (By similarity).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for RG208282