

## Product datasheet for **RG233683**

### Syntaxin 4 (STX4) (NM\_001272096) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Syntaxin 4 (STX4) (NM_001272096) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Syntaxin 4
Synonyms:	p35-2; STX4A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG233683 representing NM_001272096 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGGATGACAGCTCGGACGAAGAGGACAAGGAGCGGGTCGCGCTGGTGGTGCACCCGGGCACGGCAGC  
GCTGGGGAGCCCGGACGAGGAGTTCTTCCACAAGCCCTCTCGGTCACCCTCCCCAGGTCCGGACAATTCCG  
GCAGACTATTGTCAAACGGGAATAAAGTCCAGGAGTTGGAGAAACAGCAGGTCAACATCTGGCCACG  
CCCCTTCCCGAGGAGAGCATGAAGCAGGAGCTGCAGAACCTGCGCGATGAGATCAAACAGCTGGGGAGG  
AGATCCGCTGCAGCTGAAGCCATAGAGCCCCAGAAGGAGGAAGCTGATGAGAACTATAACTCCGTCAA  
CACAAGAATGAGAAAAACCCAGCATGGGGTCTGTCCCAGCAATTCGTGGAGCTCATCAACAAGTGAAT  
TCAATGCAGTCCGAATACCGGGAGAAGAACGTGGAGCGGATTCGGAGGCAGCTGAAGATACCAATGCTG  
GGATGGTGTCTGATGAGGAGTTGGAGCAGATGCTGGACAGTGGGCAAAGCGAGGTGTTTGTCCAATAT  
CCTGAAGGACACGCAGGTGACTCGACAGGCCTTAAATGAGATCTCGGCCCGGCACAGTGAGATCCAGCAG  
CTTGAACGCAGTATTCGTGAGCTGCACGACATATTCACCTTTCTGGCTACCGAAGTGGAGATGCAGGGGG  
AGATGATCAATCGGATTGAGAAGAATCCTGAGCTCAGCGGACTACGTGGAACGTGGGCAGGAGCACGT  
CAAGACGGCCCTGGAGAACCAGAAGAAGCGGAGGAAGAAGAAAGTCTTGATTGCCATCTGTGTGCCATC  
ACCGTCGTCCTCTAGCAGTCATCATTGGCGTCACAGTGGTTGGA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG233683 representing NM\_001272096  
 Red=Cloning site Green=Tags(s)

MGMTARTKRTRSGSRWWCTRARHGWGARTRSSSTPLGHPPQVVRTIRQTIIVKLGNKVQELEKQQVITLAT  
 PLPEESMKQELQNLRDEIKQLGREIRLQLKAIEPQKEEADENYNSVNTMRKTQHGVLSQQFVELINKCN  
 SMQSEYREKNVERIRRQLKITNAGMVSDEELEQMLDSGQSEVFVSNILKDTQVTRQALNEISARHSEIQQ  
 LERSIRELHDIFTFLATEVEMQGEMINRIEKNILSSADYVERGQEHVKTALENQKKARKKKVLIACVSI  
 TVVLLAVIIGVTVVG

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001272096

**ORF Size:** 885 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\\_001272096.1](#), [NP\\_001259025.1](#)

**RefSeq Size:** 1516 bp

**RefSeq ORF:** 888 bp

**Locus ID:** 6810

**UniProt ID:** [Q12846](#)

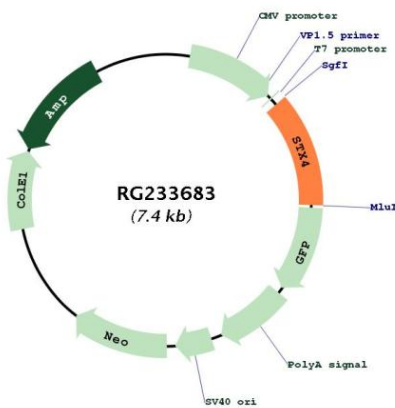
**Cytogenetics:** 16p11.2

**Protein Families:** Druggable Genome, Transmembrane

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

**Gene Summary:** Plasma membrane t-SNARE that mediates docking of transport vesicles. Necessary for the translocation of SLC2A4 from intracellular vesicles to the plasma membrane. Together with STXB3 and VAMP2, may also play a role in docking/fusion of intracellular GLUT4-containing vesicles with the cell surface in adipocytes (By similarity). May also play a role in docking of synaptic vesicles at presynaptic active zones.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for RG233683