

Product datasheet for **RG202177**

Syntaxin 8 (STX8) (NM_004853) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Syntaxin 8 (STX8) (NM_004853) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Syntaxin 8
Synonyms:	CARB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202177 representing NM_004853 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCACCGGACCCCTGGTTCTCCACATACGATTCTACTTGTCAAATTGCCAAGAAATTGCTGAGAAAA
TTCAACAACGAAATCAATATGAACGAAAAGGTGAAAAGGCACCAAAGCTTACCGTGACAATCAGAGCTTT
GTTGCAGAACCTGAAGGAAAAGATCGCCCTTTTGAAGGACTTATTGCTAAGAGCTGTGTCAACACATCAG
ATAACACAGCTTGAAGGGGACCGAAGACAGAACCTCTTGGATGATCTTGTAACTCGAGAGAGACTACTTC
TGGCATCCTTTAAGAATGAGGGTGCCGAACCAGATCTAATCAGGTCCAGCCTGATGAGTGAAGAGGCTAA
GCGAGGAGCACCAACCCTTGGCTCTTTGAGGAGCCAGAGGAGACCAGAGGCTTGGGTTTTGATGAAATC
CGGCAACAGCAGCAGAAAATTATCCAAGAACAGGATGCAGGCCTTATGATGCCCTTCTCTATCATAAGTC
GCCAAAAACAAATGGGGCAGGAAATGGGAATGAATTGGATGAACAAAATGAGATAATTGACGACCTTGC
CAACCTAGTGGAGAACACAGATGAAAACTTCGCAATGAAACCAGGCGGGTAAACATGGTGGACAGAAAAG
TCAGCCTCTGTGGGATGATCATGGTGATTTTACTGCTGCTTGTGGCTATCGTGTTGTTGCAGTCTGCC
CGACCAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG202177 representing NM_004853
 Red=Cloning site Green=Tags(s)

MAPDPWFSTYDSTCQIAQEIAEKIQQRNQYERKGEKAPKLTVTIRALLQNLKEKIALKDLLLRVSTHQ
 ITQLEGDRRQNLDDLVTRELLLASFKNEGAEPDLIRSSLMSEEAKRGAPNPWLFEEPEETRGLGFDEI
 RQQQKIIQEIQDAGLDALSSII SRQKQMGQEIGNELDEQNEI IDDLANL VENTDEKL RNETRRVNMVDRK
 SASCGMIMVILLLLVAIVVVAVWPTN

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004853

ORF Size: 708 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_004853.1](#), [NP_004844.1](#)

RefSeq Size: 979 bp

RefSeq ORF: 711 bp

Locus ID: 9482

UniProt ID: [Q9UNK0](#)

Cytogenetics: 17p13.1

Domains: t_SNARE

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: SNARE interactions in vesicular transport

Gene Summary: The gene is a member of the syntaxin family. The encoded protein is involved in protein trafficking from early to late endosomes via vesicle fusion and exocytosis. A related pseudogene has been identified on chromosome 12. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2010]

Product images:



Circular map for RG202177