

Product datasheet for **RG232476**

Syntaxin 5A (STX5) (NM_001244666) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Syntaxin 5A (STX5) (NM_001244666) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	STX5
Synonyms:	SED5; STX5A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG232476 representing NM_001244666 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATCCCGCGGAAACGCTACGGGTCTAAGAACACGGATCAGGGTGTCTACCTGGGTCTCTCAAAGACAC
AGGTCCTGTCCCCTGCAACTGCTGGCAGTAGCAGCAGCGACATCGCCCCCTGCCCCCCCCAGTGACCCCT
CGTCCCTCCCCCTCCCGACACCATGTCTGCCGGGATCGGACCCAGGAGTTTCTGTCTGCCTGCAAGTCG
CTGCAGACCCGTCAGAATGGAATCCAGACAAATAAGCCAGCTTTGCGTGTGTCCGACAACGCAGTGAAT
TCACCCTCATGGCCAAGCGCATTGGGAAAGACCTTAGCAACACATTTGCCAAGCTGGAGAAGCTGACAAT
CTTGCCAAAGCGCAAGTCCCTCTTTGATGATAAAGCAGTGGAAATTAAGAGCTAACATATATCATCAAA
CAGGACATCAATAGCCTCAACAACAAATTGCTCAGCTCCAGGATTTCTGAGAGCCAAGGGCAGCCAGA
GTGGCCGGCACCTGCAGACCCACTCCAACACCATTTGTGGTCTCCTTGCAGTCGAAACTGGCTTCTATGTC
CAATGACTTCAAATCGGTTTTAGAAGTGAGGACAGAGAACCTGAAGCAGCAGAGGAGCCGGAGAGAGCAG
TTCTCCCGGGCACCTGTGTGAGCCCTGCCCTTGCCCTAACCACCTGGGCGGTGGTGTGTGGTTCTGG
GGCAGAGTCCCATGCCTCCAAGGATGTCGCCATCGACATGATGGACTCTCGACCCAGCCAGCAGCTGCA
GCTCATTGACGAGCAGGATTCTACATCCAGAGTCGGGCAGACACCATGCAGAACATTGAGTCGACAATT
GTTGAGTTGGGCTCCATCTTTCAGCAGTTGGCACACATGGTTAAGGAACAGGAGGAAACCATTCAGAGTG
TCCTTTTGTTCCTCTTCCCGCCCTTGTCGCCAGGATCGACGAGAACGTGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG232476 representing NM_001244666
 Red=Cloning site Green=Tags(s)

MIPRKRYGSKNTDQGVYLGLSKTQVLSPATAGSSSSDIAPLPPPVTLPVPPPDMTMSCRDRTQEFLSACKS
 LQTRQNGIQTNKPALRAVRQRSEFTLMAKRIGKDLNNTFAKLEKLTILAKRKSLEFDDKAVEIEELTYIIK
 QDINSLNKQIAQLQDFVRAKGSQSGRHLQTHSNTIVVSLQSKLASMSNDFKSVLEVRTENLKQQRSRREQ
 FSRAPVSALPLAPNHLGGAVVLGAESHASKDVAIDMMSRSTSQLQLIDEQDSYIQSRADTMQNIESTI
 VELGSIFQQLAHMVKEQEETIQSVLLFLLPALSPGSTRTC

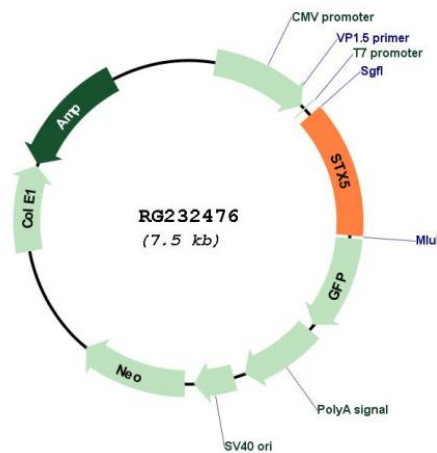
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001244666

ORF Size: 963 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:	<ol style="list-style-type: none">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_001244666.2
RefSeq Size:	1872 bp
RefSeq ORF:	966 bp
Locus ID:	6811
UniProt ID:	Q13190
Cytogenetics:	11q12.3
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	SNARE interactions in vesicular transport
Gene Summary:	This gene encodes a member of the syntaxin or t-SNARE (target-SNAP receptor) family. These proteins are found on cell membranes and serve as the targets for v-SNAREs (vesicle-SNAP receptors), permitting specific synaptic vesicle docking and fusion. The encoded protein regulates endoplasmic reticulum to Golgi transport and plays a critical role in autophagy. Autoantibodies targeting the encoded protein may be a diagnostic marker for endometriosis. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Sep 2011]