

Product datasheet for **RC233683**

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:	Myc-DDK
Symbol:	Syntaxin 4
Synonyms:	p35-2; STX4A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC233683 representing NM_001272096 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGATGACAGCTCGGACGAAGAGGACAAGGAGCGGGTCGCGCTGGTGGTGCACCCGGGCACGGCAGC
GCTGGGGAGCCCGGACGAGGAGTTCTTCCACAAGCCCTCTCGGTCAACCTCCCCAGGTCCGGACAATTCCG
GCAGACTATTGTCAAACCTGGGAATAAAGTCCAGGAGTTGGAGAAACAGCAGGTCAACATCCTGGCCACG
CCCCTTCCCGAGGAGAGCATGAAGCAGGAGCTGCAGAACCTGCGCGATGAGATCAAACAGCTGGGGAGGG
AGATCCGCCTGCAGCTGAAGGCCATAGAGCCCCAGAAGGAGGAAGCTGATGAGAACTATAACTCCGTCAA
CACAAGATGAGAAAAACCCAGCATGGGGTCTGTCCCAGCAATTCGTGGAGCTCATCAACAAGTGAAT
TCAATGCAGTCCGAATACCGGGAGAAGAACGTGGAGCGGATTCGGAGGCAGCTGAAGATACCAATGCTG
GGATGGTGTCTGATGAGGAGTTGGAGCAGATGCTGGACAGTGGGCAAAGCGAGGTGTTTGTGTCCAATAT
CCTGAAGGACACGCAGGTGACTCGACAGGCCTTAAATGAGATCTCGGCCCGGCACAGTGAGATCCAGCAG
CTTGAACGCAGTATTCGTGAGCTGCACGACATATTCACCTTTCTGGTACCGAAGTGAGATGCAGGGGG
AGATGATCAATCGGATTGAGAAGAATCCTGAGCTCAGCGGACTACGTGGAACGTGGGCAGGAGCACGT
CAAGACGGCCCTGGAGAACCAGAAGAAGGCGAGGAAGAAGAAAGTCTTGATTGCCATCTGTGTGCCATC
ACCGTCGTCCTCTAGCAGTCATCATTGGCGTCACAGTGGTTGGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC233683 representing NM_001272096

Red=Cloning site Green=Tags(s)

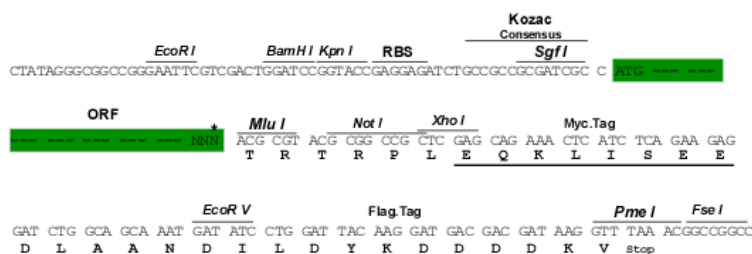
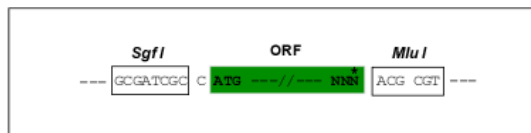
MGMTARTKRTRSGSRWWCTRARHGWGARTRSSSTPLGHPPQVVRTIRQTIIVKLGNKVQELEKQQVVTILAT
PLPEESMKQELQNLRDEIKQLGREIRLQLKAIEPQKEEADENYSNVNTRMKTQHGVLSQQFVELINKCN
SMQSEYREKNVERIRRLKIKITNAGMVSDEELEQMLDSGQSEVFVSNILKDTQVTRQALNEISARHSEIQQ
LERSIRELHIDFTFLATEVEMQGEMINRIEKNILSSADYVERGQEHVKTALENQKKARKKKVLIAICVSI
TVVLLAIIIGVTVVG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM 001272096

ORF Size: 885 bp

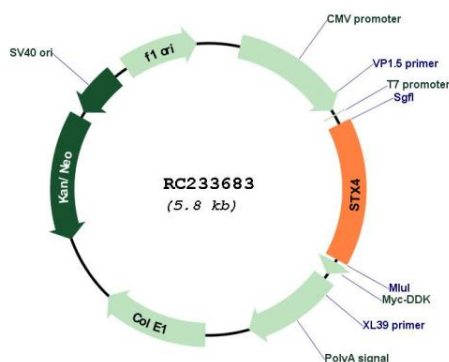
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<u>NM_001272096.1, NP_001259025.1</u>
RefSeq Size:	1516 bp
RefSeq ORF:	888 bp
Locus ID:	6810
UniProt ID:	<u>Q12846</u>
Cytogenetics:	16p11.2
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	SNARE interactions in vesicular transport
MW:	34.3 kDa
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 RC233683