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Product datasheet for SC106981

Syntaxin 12 (STX12) (NM_177424) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Syntaxin 12 (STX12) (NM_177424) Human Untagged Clone
Tag:	Tag Free
Symbol:	Syntaxin 12
Synonyms:	STX13; STX14
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

>OriGene sequence for NM_177424 edited
GAATTCGGCACGAGGCCCAGTTTCTCCGTCAGCCTGCGGGTCCCGGCTGGCGGCTGCTTC
CGGTAGGAGAGCGGTGTAGAGCGAGCAGGTCTCAGCTCCTCGTCATGTCATACGGTCCCT
TAGACATGTACCGGAACCCGGGGCCCTCGGGGCCCCAGCTCCGGGACTTCAGCAGCATCA
TCCAGACGTGCAGCGGCAACATCCAGCGGATCAGCCAAGCCACTGCTCAGATAAAGAATT
TGATGAGCCAGCTAGGAACTAAGCAGGACTCAAGCAAGCTACAGGAAAATCTGCAACAGT
TACAACACTCCACAAATCAGCTCGCCAAGGAAACAAATGAATTGCTGAAAGAATTAGGGT
CCTTGCCCCTTCCCTTATCTACTTCAGAACAGCGCCAGCAGAGACTTCAGAAGGAACGCC
TCATGAATGACTTCTCTGCAGCCTTAAACAATTTCCAGGCTGTGCAGAGAAGGGTATCTG
AAAAGGAAAAGGAGAGTATTGCCAGAGCAAGAGCTGGATCTCGTCTTTCTGCAGAAGAGA
GGCAAAGAGAGGAGCAGCTGGTCTCATTTGACAGCCATGAGGAGTGGAACCAGATGCAGA
GCCAGGAGGATGAGGTGGCCATCACTGAGCAGGATTTGGAACTTATTAAAGAAAGAGAAA
CGGCAATTCGGCAGCTGGAGGCTGACATTTTGGATGTCAATCAGATATTTAAAGATTTGG
CCATGATGATCCATGACCAGGGTGATCTGATTGATAGCATAGAAGCCAATGTGGAAAGCT
CAGAGGTGCACGTCGAAAGAGCCACTGAACAGTTACAGCGAGCTGCTTACTATCAGAAAA
AATCTCGCAAGAAGATGTGTATCCTGGTGCTTGTCCTGTCAGTGATTATTCTAATCTTGG
GACTTATTATCTGGCTAGTTTATAAAACGAAGTGATTGCCTCCGATCGTTCTCCCGCTGA
GCTGTTTTCAAGGGCAAGTGCTTGTTGAAGTCTTGCCAGAACAAACTGATCACAAGAAGA
CAGCATATATCAGAACGTCCTGTAATCATTTAGTTAGAAACTAACTACTAACTAGTCTTT
GGAATTCGTGACCTATGGAGACAGTAATTATCAATTTATTGATTCTATTGATTTCTCAAA
TTAGGAATTAACTTATGTGGATTTTGCTTCCTCTTGTATTCTGATTGCCCTTCATCCCAA
GTGTTTACTGAAAATTCCATTCTAGATATTCTTGTTTTGACAAATGACACTACAGTCTCG
TAATATTGTCTTTTATGTATATACAAAATTTACCTTTTTACTAGCATCTGAGATAGAGTT
ACTTTCTGGTACCCAGTATATTGGAGTCTGTCAGAAACTCTATAATAGGCCACCAGTTTT
TATTATTTAACATTTTTATTTGAATTTCTAAGAAGCCTATTCTCTATCTATTTTGAAAGA
TTTTGGCACTATATTTAATTGGAAGGTAAAATATTGTACATGTGATCCAGAGTAAATGAG
AAGTCTCTATCTGAGCTGGTCAGTTACTGGAGTACATGTTACTAATCTGGGTTTAAAGTT
TACTTCATTATCTGCTAGTGTCATCCACAGCAGTTCATCCTCATCCACACTAAGCCATCC
TGTTAGCTTTTAAAGGAAGTTAATTTAATTAACATTAATATACTCTATGGGCTCCCTCTC
CCACCTGTCTGCATAGAAAGGCAGAATTAGACATAGCATGCTTTGGAAAAGCAAATAGGA
ATTGTTGGGAATGATTTAATCTTGTTGTTGTTGTTGTTGTTCACTTGTGGTTCTACA
TTCCTGGTGAATGATGAATGTTGCTGTCAAAGGGCTGCCCCCTACCTTATAAGGGTTGCT
GGGCATTTGAAGGCAGGAAGATTTTTAAAGATAGATTGAGGTTGGTTTAAAATTATTCCT
GTAAACCAACAATAAAGCAAAGAAGAGGTTCATTTTTGTAAATAACACTGGTTTCAAATA
GTGATGTTAGACTTAACCTAATTTATAAACAAGAGATTAATATCTCCATGCATAGTTTTA
GACAAAAAAAAGATGTTTCAATAAAATTACTGTCTTGTAATATAAAAAAAAAAAAAAAAAA
CTCGAC

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_177424 unedited
GTTCAGATTTTGTAAACGACTTACTATAGGCGGCCGCGAATTCGCACGAGGCCCAGTTTC
TCCGTCAGCCTGCGGGTCCCGGCTGGCGGCTGCTTCCGGTAGGAGAGCGGTGTAGAGCGA
GCAGGTCTCAGCTCCTCGTCATGTCATACGGTCCCTTAGACATGTACCGGAACCCGGGGC
CCTCGGGGCCCCAGCTCCGGGACTTCAGCAGCATCATCCAGACGTGCAGCGGCAACATCC
AGCGGATCAGCCAAGCCACTGCTCAGATAAAGAATTTGATGAGCCAGCTAGGAACTAAGC
AGGACTCAAGCAAGCTACAGGAAAATCTGCAACAGTTACAACACTCCACAAATCAGCTCG
CCAAGGAAACAAATGAATTGCTGAAAGAATTAGGGTCCTTGCCCCTTCCCTTATCTACTT
CAGAACAGCGCCAGCAGAGACTTCAGAAGGAACGCCTCATGAATGACTTCTCTGCAGCCT
TAAACAATTTCCAGGCTGTGCAGAGAAGGGTATCTGAAAAGGAAAAGGAGAGTATTGCCA
GAGCAAGAGCTGGATCTCGTCTTTCTGCAGAAGAGAGGCAAAGAGAGGAGCAGCTGGTCT
CATTTGACAGCCATGAGGAGTGGAACCAGATGCAGAGCCAGGAGGATGAGGTGGCCATCA
CTGAGCAGGATTTGGAACTTATTAAAGAAAGAGAAACGGCAATTCGGCAGCTGGGAGCTG
ACATTTTGGATGTCAATCAGATATTTAAAGATTTGGCCATGATGATCCATTGACCAGGTG
ATCTGATTGATAGCATAGAAACCCAAGTGGAAAGCTCANAAGTGCCACGTCGAAAGAGGC
ACTGAACAGTTACAGCGAGCCTGCTACTATCAGAAAAAATCTCGCCAAGAGATGTGTATC
CTGGTGCTTGTCCCTGCAGTGATTATTC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_177424 unedited
CCCCCCCGCCCCCCCCAAAATACCCCCCAANTTTACTTGNACCCGGCCGCAATCTAGATC
GAGTTTTTTTTTTTTTTTTTTATATTACAAGACAGTAATTTTATTGAAACATCTTTTTTT
GTCTAAAACTATGCATGGAGATATTAATCTCTTGTTTATAAATTAGGTTAAGTCTAACAT
CACTATTTGAAACCAGTGTTATTTACAAAAATGAACCTCTTCTTTGCTTTATTGTTGGTT
TACAGGAATAATTTTAAACCAACCTCAATCTATCTTTAAAAATCTTCCTGCCTTCAAATG
CCCAGCAACCCTTATAAGGTAGGGGGCAGCCCTTTGACAGCAACATTCATCATTCACCAG
GAATGTAGAACCACAAGTGAACAACAACAACAACAACAACAAGATTAAATCATTCCCAAC
AATTCCTATTTGCTTTTCCAAAGCATGCTATGTCTAATTCTGCCTTTCTATGCAGACAGG
TGGGAGAGGGAGCCCATAGAGTATATTAATGTTAATTAAATTAACTTCCTTTAAAAGCTA
ACAGGATGGCTTACTGTGGATGAGGATGAACTGCTGTGGATGACACTACCAGATAATGAA
GTAAACTTTAAACCCAGATTAGTAACATGTACTCCAGTAACTGACCAGCTCAAATAGAGA
CTTCTCATTTACTCTGGATCACATGTACAATATTTTACCTTTCCATTCAAATATAGTGCC
AAAATCTTTTCAAATAGAAAGAGAATACGGCTTTTACAAACTCCAAATAAAATGCTAACA
AATAAAACCTGTGGCCCTATTTTAGAGTTTCTGACTGACTCCAATATACTGGGGTCCCCC
AAGTAACTCCTATCTAAATGCCCCCCCACAGGTCAAATTTTGTATTTCCCTAAAAACACA
CTTTCCCAAACTCGCCGTCCCATCTGTCAN

Restriction Sites: NotI-NotI

ACCN: NM_177424

Insert Size: 2100 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_177424.1, NP_803173.1
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 VTI1A 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]