

Product datasheet for **MC209479**

Stx1a (NM_016801) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Stx1a (NM_016801) Mouse Untagged Clone
Tag: Tag Free
Symbol: Stx1a
Synonyms: HPC-1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC209479 representing NM_016801
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGAAGGACCGAACCCAGGAGCTCCGCACGGCCAAGGACAGCGATGACGACGACGATGTCCTGTCCTG
TGGACCGAGACCGCTTCATGGATGAATTCCTTGAACAGGTGGAAGAGATCCGGGGCTTTATTGACAAGAT
TGCCGAAAACGTGGAGGAGGTGAAGCGGAAACACAGCGCCATCCTGGCCTCCCCGAACCCCGATGAGAAG
ACAAAGGAGGAACTGGAGGAGCTCATGTGCGACATTAAGAAGACAGCGAACAAAGTTCGCTCCAAGCTAA
AGAGCATTGAGCAGAGCATCGAGCAGGAGGAAGGTCTGAACCGCTCATCAGCCGACCTGAGGATCCGGAA
GACGCAGCACTCCACGCTGTCCCGAAAGTTGTGGAGGTTCATGTCCGAGTACAACGCCACTCAGTCAGAC
TACCGAGAACGCTGCAAAGGGCGCATCCAGAGGACGCTGGAGATCACCGGCCGGACCACGACCAAGTGGAG
AATTGGAAGACATGCTGGAGAGTGGGAACCTGCCATCTTTGCCTCTGGGATCATCATGGACTCCAGCAT
CTCGAAGCAGGCCCTCAGTGAGATCGAGACCAGACACAGTGAGATCATCAAGCTGGAGACCAGCATCCGG
GAGCTGCACGACATGTTTCATGGACATGGCCATGCTGGTGGAGAGCCAGGGGGAGATGATTGACAGGATCG
AGTACAATGTGGAGCACGCCGTGGACTACGTGGAGAGGGCCGTGTCAGACACCAAGAAGGCCGTCAAGTA
CCAGAGCAAGGCCGCGCAGGAAGAAGATCATGATCATCATTTGCTGTGTGATTCTGGGCATCATCATCGCC
TCCACCATCGGGGCATCTTTGGATAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_016801
Insert Size: 867 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:	<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_016801.4 , NP_058081.2
RefSeq Size:	2206 bp
RefSeq ORF:	867 bp
Locus ID:	20907
UniProt ID:	O35526
Cytogenetics:	5 G2
Gene Summary:	<p>Plays an essential role in hormone and neurotransmitter calcium-dependent exocytosis and endocytosis (PubMed:17502420, PubMed:28596237, PubMed:28031464). Part of the SNARE (Soluble NSF Attachment Receptor) complex composed of SNAP25, STX1A and VAMP2 which mediates the fusion of synaptic vesicles with the presynaptic plasma membrane. STX1A and SNAP25 are localized on the plasma membrane while VAMP2 resides in synaptic vesicles. The pairing of the three SNAREs from the N-terminal SNARE motifs to the C-terminal anchors leads to the formation of the SNARE complex, which brings membranes into close proximity and results in final fusion. Participates in the calcium-dependent regulation of acrosomal exocytosis in sperm (PubMed:12101244). Plays also an important role in the exocytosis of hormones such as insulin or glucagon-like peptide 1 (GLP-1) (PubMed:17502420, PubMed:28596237, PubMed:28031464).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (1).</p>