

#### OriGene Technologies, Inc.

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## Product datasheet for RC209062

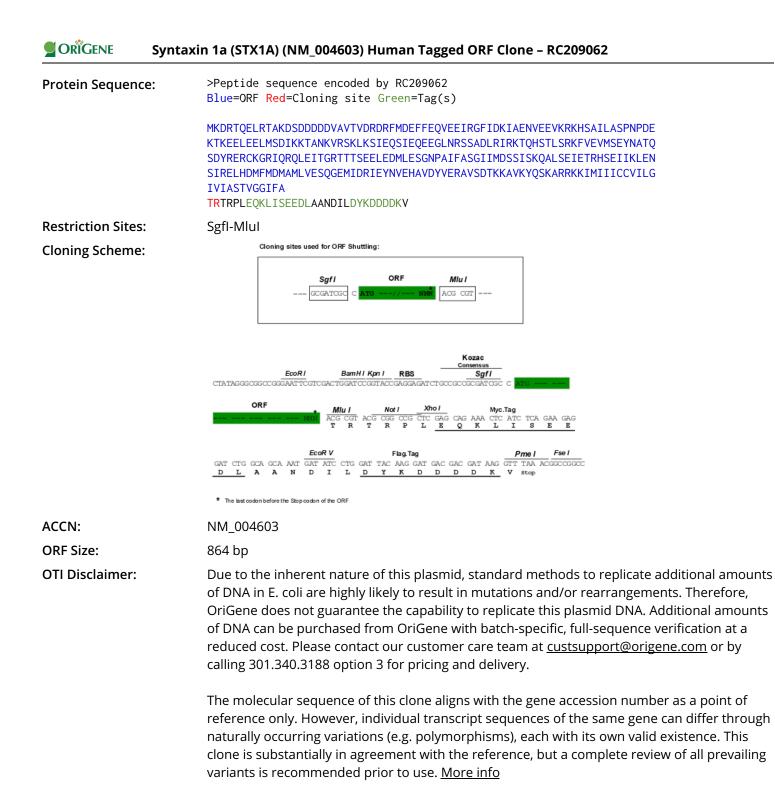
#### Syntaxin 1a (STX1A) (NM\_004603) Human Tagged ORF Clone

### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Syntaxin 1a (STX1A) (NM_004603) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Syntaxin 1a
Synonyms:	HPC-1; P35-1; STX1; SYN1A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>&gt;RC209062 representing NM_004603. Blue=ORF Red=Cloning site Green=Tag(s)</pre>
	GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGAGATCTGCCGCCGCGCGCGCCCATGAAGGACCGAACCCAGGAGCTCCGCACGGCCAAGGACAGCGATGATGATGATGATGATGTCGCTGTCACCGTGGACCGAAACCTCATGGATGAGTCTTTGAGCAGGACGAGGAGAGATTCGAGGCTTCATTGACAAGATCGCAGAGAACGTGGAAGGAGGTGAAGCGGAAGCACAGTGCCATCCTGGCATCCCCCAACCCCGATGAGAAGACGAAGGAGGAGCTGGAAGAACTCATGTCCGACATAAAGAAGACAGCAAACAAA



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# **OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

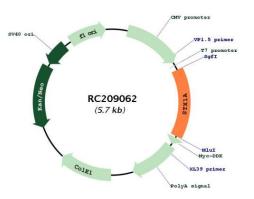
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Syntaxin 1a (STX1A) (NM_004603) Human Tagged ORF Clone – RC209062	
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
RefSeq:	<u>NM 004603.4</u>
RefSeq Size:	2138 bp
RefSeq ORF:	867 bp
Locus ID:	6804
UniProt ID:	<u>Q16623</u>
Cytogenetics:	7q11.23
Domains:	t_SNARE, SynN
Protein Families:	Druggable Genome, Secreted Protein, Transmembrane
Protein Pathways:	SNARE interactions in vesicular transport
MW:	33 kDa
Gene Summary:	This gene encodes a member of the syntaxin superfamily. Syntaxins are nervous system- specific proteins implicated in the docking of synaptic vesicles with the presynaptic plasma membrane. Syntaxins possess a single C-terminal transmembrane domain, a SNARE [Soluble NSF (N-ethylmaleimide-sensitive fusion protein)-Attachment protein REceptor] domain (known as H3), and an N-terminal regulatory domain (Habc). Syntaxins bind synaptotagmin in a calcium-dependent fashion and interact with voltage dependent calcium and potassium channels via the C-terminal H3 domain. This gene product is a key molecule in ion channel regulation and synaptic exocytosis. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Sep 2009]

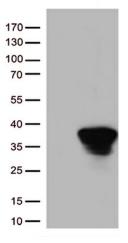
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#### **Product images:**



Circular map for RC209062



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY STX1A (Cat# RC209062, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-STX1A (Cat# [TA812826])(1:500).

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