

## Product datasheet for SC323260

### Tomosyn (STXBP5) (NM\_001127715) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tomosyn (STXBP5) (NM_001127715) Human Untagged Clone
Tag:	Tag Free
Symbol:	Tomosyn
Synonyms:	LGL3; LLGL3; Nbla04300
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC323260 representing NM_001127715. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTGACTG
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 TTCTGA  
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 TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001127715
- Insert Size:** 3456 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).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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\\_001127715.2](#)

**RefSeq Size:** 9352 bp

**RefSeq ORF:** 3456 bp

**Locus ID:** 134957

**UniProt ID:** [Q5T5C0](#)

**Cytogenetics:** 6q24.3

**MW:** 127.6 kDa

**Gene Summary:** Syntaxin 1 is a component of the 7S and 20S SNARE complexes which are involved in docking and fusion of synaptic vesicles with the presynaptic plasma membrane. This gene encodes a syntaxin 1 binding protein. In rat, a similar protein dissociates syntaxin 1 from the Munc18/n-Sec1/rbSec1 complex to form a 10S complex, an intermediate which can be converted to the 7S SNARE complex. Thus this protein is thought to be involved in neurotransmitter release by stimulating SNARE complex formation. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]  
Transcript Variant: This variant (2) contains an additional segment in the coding region, compared to variant 1, resulting in a longer isoform (b). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.