

## Product datasheet for **RN200459**

### **Syn1 (NM\_001110782) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Syn1 (NM_001110782) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Syn1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

**Fully Sequenced ORF:** >RN200459 representing NM\_001110782  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAACTACCTGCGGCGCCGCTGTCTCGACAGCAACTTCATGGCCAATCTGCCTAATGGGTATATGACAG  
 ACCTGCAGCGCCCGCAACCACCTCCGCCCGCCCTCAGCCGCCAGCCCTGGGGCCACTCCCGGATCCGC  
 TGCTGCCTCTGCCGAGAGGGCCTCCACAGCTGCTCCAGTGGCCTCTCCAGCAGCCCTAGTCCCGGGTCC  
 TCGGGGGCGGTGGCTTCTTCTCCTCGTGTCTAACGCGGTCAAACAGACCACAGCAGCTGCAGCCGCCA  
 CCTTCAGTGAGCAGGTGGCGGTGGCTCTGGGGCGCAGGCCGCGGGGGCCCGCCGAGGGTGTCTGT  
 GGTTCATCGACGAGCCGCACACCGACTGGGCAAACTTCAAAGGGAAGAAGATCCATGGAGAAATTGAC  
 ATTAAGTAGAGCAAGCTGAATTCTCCGATCTCAATCTTGTGGCTCATGCCAATGGTGGATTCTCCGTGG  
 ACATGGAAGTTCTCGGAATGGGGTCAAAGTTGTGAGGTCTCTGAAGCCAGACTTTGTGCTGATCCGCCA  
 GCATGCCCTCAGCATGGCAGTAATGGAGACTACCGCAGTTTGGTCATTGGGCTGCAGTATGCTGGGATC  
 CCCAGTGTAACTCTTTGCATTCTGTCTACAACCTTTGTGACAAACCCTGGGTGTTTGCCAGATGGTTC  
 GACTACACAAGAAGCTTGAACAGAGGAATTCCTCTGATTGATCAGACTTTCTATCCCAATCATAAAGA  
 GATGCTCAGCAGCACAACATACCCTGTAGTTGTGAAGTGGGCCACGCACTCTGGGATGGGCAAGGTC  
 AAGGTAGACAACCAACATGACTTCCAGGATATTGCAAGTGTGTGGCACTGACTAAGACATATGCCACTG  
 CTGAGCCCTTCATTGATGCTAAATACGATGTGCGTGTCCAGAAGATTGGGCAGAACTACAAGGCCTACAT  
 GAGGACATCAGTGTCCAGGAACTGGAAGACCAATACAGGCTCTGCTATGCTTGAGCAGATTGCTATGCT  
 GACAGGTACAAGTTGTGGGTAGACACGTGCTCAGAGATTTTGGGGGACTTGACATCTGCCAGTGGAAAG  
 CACTGCATGGCAAGGACGAAGGGATCACATTATTGAGTGGTGGCTCCTCCATGCCACTATTGGGGA  
 TACCAGGATGAAGACAAGCAGCTCATCGTGAACCTTGTGGTCAACAAGATGACTCAGGCTCTGCCTCGG  
 CAGCGGGATGCTTCCCCTGGCAGGGTCCCACAGCCAGACTCCATCCCCAGGAGCCCTGCCCTTGGGCC  
 GCCAGACCTCCCAGCAGCTGCAGGACCTCCTGTCAACAACGACCCCCACCCAGGGAGGCCCTCCACA  
 ACCAGGCCAGGACCTCAGCGCCAGGGACCCCGCTGCAACAGCGCCACCCCAAGGCCAGCAACAT  
 CTTTCTGGCCTTGGACCCCGAGCTGGCAGCCCTCTGCCCCAGCGCTACCAAGTCCCACAGCAGCACCTC  
 AGCAGTCCGCTCTCAGGCCACCAATGACCCAGGGTCAAGGCCCCAGTCACGGCCAGTGGCAGGAGG  
 CCCCAGGACCTCCAGCAGCCCGCCCGCCCTCCCCTCTCCACAGCGTCAGGCAGGGCCCCACAG  
 GCTACCCGTGAGCATCTATCTCTGGTCCAGCTCCACCGAAGTCTCAGGAGCTCACCCGAGGGCAGC  
 AGCGCAAGGCCCTCCCAGAAACCCAGGCCCTGCTGGTCCCATTCTGTCAGGCCAGCCAGGCAGGTCC  
 CGGACCTCGCACTGGGCCACCCACCACACAGCAGCCCCGCCCCAGCGGCCAGGTCTGTGGACGTCCC  
 ACCAAACACAGCTGGCTCAGAAACCCAGCCAGGATGTGCCACCACCCATCATTGCTGCTGCCGGGGGAC  
 CCCCACCCCGAGCTCAAAGCCAGCCCCGCCAGGCCAGCCT**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001110782
- Insert Size:** 2007 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\\_001110782.2](#), [NP\\_001104252.1](#)

**RefSeq Size:** 3146 bp

**RefSeq ORF:** 2007 bp

**Locus ID:** 24949

**UniProt ID:** [P09951](#)

**Cytogenetics:** Xq11

**Gene Summary:** may act as an anchoring protein by linking the vesicle phospholipid layer and the cytoskeleton in neuronal presynaptic terminals; may play a role in neurotransmitter release [RGD, Feb 2006]

Transcript Variant: This variant (2) uses an alternate acceptor splice site at the 3' terminal exon compared to variant 1, which results in a frame-shift, and a shorter isoform (b) with a distinct C-terminus compared to isoform a.