

## Product datasheet for **MG206780**

### Syt4 (NM\_009308) Mouse Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | Syt4 (NM_009308) Mouse Tagged ORF Clone                                     |
| Tag:                      | TurboGFP  |
| Symbol:                   | Syt4  |
| Synonyms:                 | SytIV   |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-AC-GFP (PS100010)   |
| E. coli Selection:        | Ampicillin (100 ug/mL)  |
| ORF Nucleotide Sequence:  | >MG206780 representing NM_009308<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTCCTATCACCACCAGCCGCGTGAATTCGATGAAATCCCACAGTGGTGGGCATCTTCAGTGCTT  
TTGGCCTCGTCTTCACTGTCTCTCTTTGGCTGGATCTGCTGTCAGAGAAGATCAGCCAAATCCAACA  
GACTCCTCCATACAAGTTTGTGCACGTGCTTAAAGGAGTTGATATCTACCCAGAAAACCTAAGTAGCAA  
AAGAAGTTTGGAGGAGATGACAAGAGTGAAGTGAAGGGTAAAGCCGCTCTGCCAACCTTCCCTGCATC  
TTGACCTAGAGAAGCGAGACCTCAATGGCAACTCCCCAAAGCCAACCCAAAGCTGGCAGCTCTTCTGA  
TCTGGAAAATGTACCCCAAGCTCTTACGGAGACAGAAAAGGAGGCCAATCCCTGAGAGCTTGAAG  
TCCAGCACTTCCCTCACGTCAGAGGAGAAAACAAGAGAAGCTGGGGACACTCTTCTGTCTTAGAGTACA  
ACTTCGAGAAGAAAGCATTGTGGTGAACATCAAGGAAGCCAGGGCTTACCAGCCATGGACGAGCAATC  
CATGACCTCTGACCCGTACATCAAAATGACAATCTTACCAGAGAAGAAGCACAGAGTGAAGACCAGAGTG  
CTCAGGAAGACGCTGGACCCTGTTTTGATGAAACCTTACATTTCTATGGAATCCCTTATCCCCACATCC  
AAGAGCTCTCCTTGCACTTTACAGTTCTGAGTTTTGACAGTTTTCTAGAGATGATGTCATTGGAGAAGT  
CCTGATTCCTCTTTCAGGGATTGAATTATCAGATGGAAAAATGTTAATGACTAGAGAGATCATCAAGAGA  
AATGCTAAGAAGTCTTCTGGCCGGGTGAACCTTGGTCTCTCTGTTATCAGTCCACTACAAACACGC  
TCACTGTGGTGGTCTTAAAGCGCGGCACCTACCGAAATCTGATGTGCTGGACTTTCAGATCCCTACGT  
CAAAGTGAACCTGTACCATGCCAAGAAGAGAATCTCTAAAAAGAAGACTCACGTTAAGAAATGCACTCCC  
AACGCAGTGTTCAATGAACTGTTTGTCTTTGATATTCCTTGTGAGAGTCTTGAAGAAATCAGTGTGAAT  
TCTTGGTTTTGGATTCTGAAAGGGGATCCCGAAATGAGGTGATTGGACGGTTGGTCTGGGTGCCACAGC  
AGAAGGAAGCGTGGGGGCACTGGAAGGAGATCTGTGACTTCCCAGGAGACAAATTGCTAAGTGGCAC  
ATGCTCTGTGATGGT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206780 representing NM\_009308  
 Red=Cloning site Green=Tags(s)

MAPITTSRVEFDEIPTVVGIFSAFGLVFTVSLFAWICQRRSAKSNKTPPYKFVHVLKGVDIYPENLSSK  
 KKFGGDDKSEVKGKAALPNLSLHLDLEKRDLNGNFPKANPKAGSSDLENVTPKLFTEKEANSPELTK  
 SSTSLSSEEKQEKLGTLFLSLEYNFEKKAFFVNIKEAQGLPAMDEQSMSTDPYIKMTILPEKKHRVKTRV  
 LRKTLDPVFDETFIFYGIPYPHIQELSLHFTVL SFDRFSRDDVIGEVLIPLSGIELSDGKMLMTREI IKR  
 NAKKSSGRGELLVSLCYQSTNTLTVVVLKARHLPKSDVSGLSDPYVKVNL YHAKKRISKKTHVKKCTP  
 NAVFNELFVFDIPCESLEEISVEFLVLDSEGRSNEVIGRLVLGATAEGSGGGHWKEICDFPRRQIAKWH  
 MLCDG

TRTRPLE - GFP Tag - V

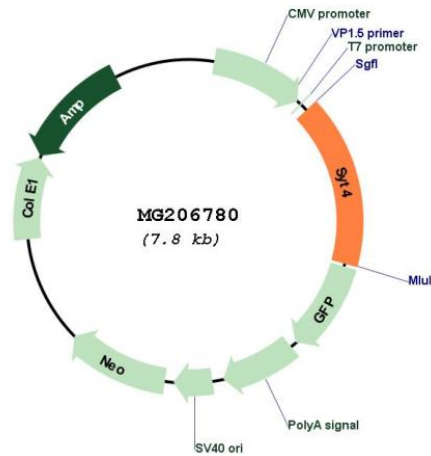
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM\_009308

|                               |   |
|-------------------------------|---|
| <b>ORF Size:</b>              | 1275 bp   |
| <b>OTI Disclaimer:</b>        | The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>  |
| <b>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.  |
| <b>Components:</b>            | 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).  |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol> |
| <b>RefSeq:</b>                | <a href="#">NM_009308.3</a> , <a href="#">NP_033334.2</a>   |
| <b>RefSeq Size:</b>           | 3901 bp   |
| <b>RefSeq ORF:</b>            | 1278 bp   |
| <b>Locus ID:</b>              | 20983   |
| <b>UniProt ID:</b>            | <a href="#">P40749</a>  |
| <b>Cytogenetics:</b>          | 18 17.75 cM   |
| <b>Gene Summary:</b>          | The protein encoded by this gene belongs to the synaptotagmin family. Members of this family are multi-domained, integral membrane proteins of synaptic vesicles, and are thought to serve as Ca <sup>2+</sup> sensors in the process of vesicular trafficking and exocytosis. This gene is primarily expressed in the nervous tissues. [provided by RefSeq, Jul 2008]  |