

## Product datasheet for **MC200986**

### Esyt1 (NM\_011843) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Esyt1 (NM\_011843) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Esyt1  
**Synonyms:** Fam62a; Mbc2; vp115  
**Mammalian Cell Selection:** Neomycin  
**Vector:** PCMV6-Kan/Neo (PCMV6KN)  
**E. coli Selection:** Kanamycin (25 ug/mL)

**Fully Sequenced ORF:** >BC011482 sequence for NM\_011843  
 GCAGCTGCTCGGGCGGGCACTCCCAGAAGCTGCCCATGGAGCACTCCCCTGAAGAGGGCGCCAGCCCCG  
 AGCCGTCAGGGCAGCCCCCTGCCACGGACTCCACGCGGGACGGGGCTCCGGGTCCACCTGCCGCCCC  
 AGGTGCGGCGAGCGAGGCCCTGGCGGTGCTGACTTCCTTCGGGCGCCGCTTGTTGGTGCTGGTGCCGGTG  
 TACCTGGCAGGGCAGCGGGTCTTAGCGTAGGTTTCGTGCTTTTCGGCCTCGCCCTGTACTTGGGTGGC  
 GCCGGTCCGCGATGGGAAAGAACGGAGCCTGAGGGCAGCGAGGCAGCTGCTGGATGACGAGGAGCGGAT  
 CACCGCAGAGACGCTTTATATGAGCCACCGGAACTACCTGCCTGGGTCAGCTTCCAGATGTGGAAAAG  
 GCCGAATGGCTGAACAAGATCGTGGCTCAGGTGTGGCCCTTCCTAGGCCAGTATATGGAGAAGCTTCTGG  
 CGGAGACAGTGGCCCCAGCTGTCCGGGAGCTAACCTCATCTGCAGACATTACATTACACGTGTGGA  
 GCTGGGTGAAAAGCCATTACGAATCATTGGCGTCAAAGTTCACCCTAGTCAGAGGAAAGATCAGATTCTG  
 TTGGACTTGAATGTCAGCTATGTAGGTGATGTACAGATTGACGTGGAGGTGAAGAAATATTTCTGCAAAG  
 CTGGAGTCAAGGCATGCAGCTCCATGGTGTCTTGCAGTGAATTCTTGGCCACTCACAGGGACCTTCC  
 TATCGTGGGGGCTGTGTCCATGTTCTTTATCAAACGCCCCGACGCTTGACATCAACTGGACAGGGATGACC  
 AACCTGTAGATATCCCAGGACTTAGCTCACTCTGACACCATGATCATGGACTCCATTGCTGCCTTCC  
 TCGTGCTCCCTAACCGACTGTTGGTGCCCTTGTGCCGACCTTCAAGATGTGGCCAGCTGCGGTCCCC  
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 GTGTCATAGATGAGGAGCTCAACCCTCACTGGGAGAGACATATGAGGTGATAGTCCACGAGGTTCCAGG  
 ACAGGAGATCGAGGTGGAGTATTTGACAAAGATCCAGATAAAGATGATTTTCTGGGAAGAATGAAGCTG  
 GACGTGGGGAAGGTATTACAGGCTGGAGTCCCTGGATAATTGGTACCCTCTGCAAGGCGGGCAAGGCCAAG  
 TTCACTTGAGACTAGAATGGCTATCACTCCTGCCAGATGCAGAGAAGCTGGATCAGGTCCTGCAGTGGAA  
 TCGGGGCATCACTTCTCGCCAGAGCCCCATCGGCTGCCATCCTCGTTGTCTACTTGGACCGAGCCAG  
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 CCCTCGAAGCCAGGACTTGATGTACAGGTGAAGGACGACTCCCAGCCCTGACTTTAGGGGCCCTGACT  
 CTCCTTCTGCTGCCTGTTGACTGCCTCTGAACCTCACCTGGACAGTGGTCCAGCTCAGCAGCTCAG  
 GCCCAAACCTCAGGCTCTACATGAAACTGGTCATGCGGATCTTACTTAGATTACTCGGAAATCCGCTT



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CCCCACTGTGCCTGGTGCCAGGACTGGGACCGTGAGAGCCTAGAGACAGGCAGCAGTGTGGATGCCCCA
CCTCGGCCCTATCACACAACCCCTAACAGCCACTTTGGGACTGAGAATGTTCTTCGGATCCATGTATTAG
AAGCGCAGGACCTAATTGCCAAAGACCGTTTCTTGGGAGGCCCTGGTGAAGGGCAAATCAGACCCCTACGT
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GCGGGCTCCCAGGGCAGGACCTGAGCTGGCTATTTCTGATCTGCCTGTACCTTTCCTTCTTCCCAC
TCTCAGGGCCTCACGCACCTGTGCCTGGCCACTGGCAGCATTAGCAGTGGCATTGCTCATGCCAAATA
CAGCTTTTGGAAAGCTCTTTTTTACATAATAAAAAATATACAGAAAAAAAAAAAAAAAAAAAA

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- Restriction Sites:** RsrII-NotI
- ACCN:** NM\_011843
- Insert Size:** 3279 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:** [BC011482](#), [AAH11482](#)
- RefSeq Size:** 3699 bp

RefSeq ORF: 3279 bp

Locus ID: 23943

UniProt ID: [Q3U7R1](#)

Cytogenetics: 10 D3

**Gene Summary:** Binds glycerophospholipids in a barrel-like domain and may play a role in cellular lipid transport (By similarity). Binds calcium (via the C2 domains) and translocates to sites of contact between the endoplasmic reticulum and the cell membrane in response to increased cytosolic calcium levels. Helps tether the endoplasmic reticulum to the cell membrane and promotes the formation of appositions between the endoplasmic reticulum and the cell membrane (By similarity).[UniProtKB/Swiss-Prot Function]