

## Product datasheet for **SC315563**

### ENT1 (SLC29A1) (NM\_001078177) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ENT1 (SLC29A1) (NM_001078177) Human Untagged Clone
Tag:	Tag Free
Symbol:	ENT1
Synonyms:	ENT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_001078177 edited  
 CAGTGTCTCTGCGGCAGGAGCCCGTGGACAAGGCCCACTGCTGAGCCTGAACTAGGAGC  
 ACCTCCTAGGGACTGCCAGGCTTGCTCTGCTCTGACCCTTCTGCTGGCCAGTCTGGGCA  
 CCTGGCCCTGAGGGAGGGAGCTGTGAGCCAGGGAAAACCGAGAACACCATCACCATGAC  
 AACCGTACCAGCCTCAGGACAGATACAAAGCTGTCTGGCTTATCTTCTCATGCTGGG  
 TCTGGGAACGCTGCTCCCGTGGAAATTTTTTCATGACGGCCACTCAGTATTTCAAAACCG  
 CCTGGACATGTCCAGAATGTGTCCTTGGTCACTGCTGAACTGAGCAAGGACGCCAGGC  
 GTCAGCCGCCCTGCAGCACCTTGCCTGAGCGGAACTCTCTCAGTGCCATCTTCAACAA  
 TGTGATGACCCTATGTGCCATGTGCCCCTGCTGTTATTACCTACCTCAACTCCTTCT  
 GCATCAGAGGATCCCCAGTCCGTACGGATCCTGGGCAGCCTGGTGGCCATCCTGCTGGT  
 GTTTCTGATCACTGCCATCCTGGTGAAGGTGCAGCTGGATGCTCTGCCCTTCTTTGTCAT  
 CACCATGATCAAGATCGTGTCTAATTAATCATTGGTGGCCATCCTGCAGGGCAGCCTGTT  
 TGGTCTGGCTGGCCTTCTGCCTGCCAGCTACACGGCCCCATCATGAGTGGCCAGGGCT  
 AGCAGGCTTCTTTGCCTCCGTGGCCATGATCTGCGCTATTGCCAGTGGCTCGGAGCTATC  
 AGAAAGTGCCTTGGCTACTTTATCACAGCCTGTGCTGTTATCATTTTGACCATCATCTG  
 TTACCTGGGCCTGCCCGCTGGAATTCTACCGCTACTACCAGCAGCTCAAGCTTGAAGG  
 ACCCGGGGAGCAGGAGACCAAGTTGGACCTCATTAGCAAAGGAGAGGAGCCAAGAGCAGG  
 CAAAGAGGAATCTGGAGTTTCACTCTCCAATCTCAGCCACCAATGAAAGCCACTCTAT  
 CAAAGCCATCCTGAAAAATATCTCAGTCTGGCTTCTCTGTCTGCTTCACTTCACTAT  
 CACCATTTGGGATGTTTCCAGCCGTGACTGTTGAGGTCAAGTCCAGCATCGCAGGCAGCAG  
 CACCTGGGAACGTTACTTCACTTCTGTGCTGTTTCTTACTTTCAATATCTTTGACTG  
 GTTGGGCCGGAGCCTCACAGCTGATTATCATGTGGCCTGGGAAGGACAGCCGCTGGCTGCC  
 AAGCCTGGTGTGCCCCGGTGGTGTGTTGTGCCACTGCTGCTGCTGTGCAACATTAAGCC  
 CCGCCGTACTGACTGTGGTCTTCGAGCACGATGCCTGGTTCATCTTCTTTCATGGCTGC  
 CTTTGCCTTCTCAACGGCTACCTCGCCAGCCTCTGCATGTGCTTCGGGCCCAAGAAAGT  
 GAAGCCAGCTGAGGCAGAGACCGCAGGAGCCATCATGGCCTTCTTCTGTGTCTGGGTCT  
 GGCCTGGGGGCTGTTTTCTCCTTCTGTTCCGGGCAATTGTGTGACAAAGGATGGACAG  
 AAGGACTGCCTGCCTCCCTCCCTGTCTGCCTCCTGCCCTTCTTCTGCCAGGGGTGATC  
 CTGAGTGGTCTGGCGTTTTTTTCTTAACTGACTTCTGCTTTCCACGGCGTGTGCTGGG  
 CCCGATCTCCAGGCCCTGGGGAGGGAGCCTCTGGACGGACAGTGGGACATTGTGGGTT  
 TGGGGCTCAGAGTCGAGGACGGGGTGTAGCCTCGGCATTTGCTTGAATTTCTCCACTCT  
 TGGCTCTGACTGATCCCTGCTTGTGCAGGCCAGTGGAGGCTCTTGGGCTTGGAGAACACG  
 TGTGTCTCTGTGTATGTGTCTGTGTGTCTGCGTCCGTGTCTGTCAGACTGTCTGCCTGTC  
 CTGGGGTGGCTAGGAGCTGGGTCTGACCCTTGTATGGTTTGACCTGATATACTCCATTCT  
 CCCCTGCGCTCCTCTGTGTTCTCTCCATGTCCCCCTCCCAACTCCCCATGCCAGT  
 TCTTACCCATCATGCACCCTGTACAGTTGCCACGTTACTGCCTTTTTTAAAAATATATTT  
 GACAGAAACCAGGTGCCTTCAGAGGCTCTCTGATTTAAATAAACCTTTCTTGTTTTTTTT  
 AAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire  
**ACCN:** NM\_001078177  
**Insert Size:** 2200 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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. [More info](#)

**OTI Annotation:** The ORF of this clone has been fully sequenced and found to be a perfect match to NM\_001078177.1.

**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\\_001078177.1](#), [NP\\_001071645.1](#)

**RefSeq Size:** 2503 bp

**RefSeq ORF:** 1371 bp

**Locus ID:** 2030

**UniProt ID:** [Q99808](#)

**Cytogenetics:** 6p21.1

**Protein Families:** Transmembrane

**Gene Summary:**

This gene is a member of the equilibrative nucleoside transporter family. The gene encodes a transmembrane glycoprotein that localizes to the plasma and mitochondrial membranes and mediates the cellular uptake of nucleosides from the surrounding medium. The protein is categorized as an equilibrative (as opposed to concentrative) transporter that is sensitive to inhibition by nitrobenzylthioinosine (NBMPR). Nucleoside transporters are required for nucleotide synthesis in cells that lack de novo nucleoside synthesis pathways, and are also necessary for the uptake of cytotoxic nucleosides used for cancer and viral chemotherapies. Multiple alternatively spliced variants, encoding the same protein, have been found for this gene. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (1) represents the longest transcript. Variants 1 and 2 encode the same isoform (1).