

## Product datasheet for **SC117050**

### ENT1 (SLC29A1) (NM\_004955) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ENT1 (SLC29A1) (NM_004955) Human Untagged Clone
Tag:	Tag Free
Symbol:	ENT1
Synonyms:	ENT1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_004955, the custom clone sequence may differ by one or more nucleotides

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ATGACAACCAAGTCACCAGCCTCAGGACAGATACAAAGCTGTCTGGCTTATCTTCTTCATGCTGGGTCTGG
GAACGCTGCTCCCGTGGAAATTTTTTCATGACGGCCACTCAGTATTTACAAAACCGCCTGGACATGTCCCA
GAATGTGTCTTGGTCACTGCTGAAGTGAAGGACGCCAGGCGTCAGCCGCCCTGCAGCACCCCTTG
CCTGAGCGGAACCTCTCAGTGCATCTCAACAATGTCATGACCCTATGTCCATGCTGCCCTGCTGT
TATTCACCTACCTCAACTCCTTCTGCATCAGAGGATCCCCAGTCCGTACGGATCCTGGGCAGCCTGGT
GGCCATCCTGCTGGTGTCTGATCACTGCCATCCTGGTGAAGGTGCAGCTGGATGCTCTGCCCTCTTT
GTCATCACCATGATCAAGATCGTGCTCATTAAATTCATTTGGTGCCATCCTGCAGGGCAGCCTGTTTGGTC
TGGCTGGCCTTCTGCCTGCCAGCTACACGGCCCCATCATGAGTGCCAGGGCCTAGCAGGCTTCTTTGC
CTCCGTGGCCATGATCTGCGCTATTGCCAGTGGCTCGGAGCTATCAGAAAAGTGCCTTCGGCTACTTTATC
ACAGCCTGTGCTGTTATCATTTTTGACCATCATCTGTTACCTGGGCTGCCCGCCTGGAATTCTACCGCT
ACTACCAGCAGCTCAAGCTTGAAGGACCCGGGAGCAGGAGACCAAGTTGGACCTCATTAGCAAAGGAGA
GGAGCCAAGAGCAGGCAAAGAGGAATCTGGAGTTTCAGTCTCAAACCTCTCAGCCCACCAATGAAAGCCAC
TCTATCAAAGCCATCCTGAAAAATCTCAGTCTGGCTTTCTCTGTCTGCTTCACTTCACTATCACCA
TTGGGATGTTCCAGCCGTGACTGTTGAGGTCAAGTCCAGCATCGCAGGCAGCAGCACCTGGGAACGTTA
CTTCATTCTGTGCTCTGTTTCTGACTTCAATATCTTTGACTGTTGGGCCGGAGCCTCACAGCTGTA
TTCATGTGGCCTGGGAAGGACAGCCGCTGGCTGCCAAGCCTGGTGCTGGCCCGGCTGGTGTGTTGTGCCAC
TGCTGCTGCTGTGCAACATTAAGCCCGCGCTACCTGACTGTGGTCTTCGAGCACGATGCCTGGTTCAT
CTTCTTATGGCTGCCTTTGCCTTCTCCAACGGCTACCTCGCCAGCCTCTGCATGTGCTTCGGGCCAAAG
AAAGTGAAGCCAGCTGAGGCAGAGACCGCAGGAGCCATCATGGCCTTCTTCTGTGTCTGGGTCTGGCAC
TGGGGCTGTTTTCTCCTTCTGTTCCGGGCAATTGTGTGA
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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_004955 unedited  GCACGAGGCGGGAGAGGGGAAAGCTGCAGCGAGAGCGCGGATCTCAGCGGGGAGCAGTG  CTTCTGCGGCAGGCCCTGAGGGAGGGAGCTGTGAGCCAGGAAAAACCGAGAACCACATC  ACCATGACAACAGTACCAGCCTCAGGACAGATACAAAGCTGTCTGGCTTATCTTCTTC  ATGCTGGGTCTGGGAACGCTGCTCCCGTGAATTTTTTTCATGACGGCCACTCAGTATTTT  ACAAACCGCCTGGACATGTCCAGAATGTCTTGGTCACTGCTGAAGTGAAGCAAGGAC  GCCAGGGCTCAGCCGCCCTGCAGCACCCTTGCTGAGCGGAACTCTCTCAGTGCCATC  TTCAACAATGTCATGACCTATGTGCCATGCTGCCCTGCTGTTATTACCTACCTCAAC  TCCTTCCTGCATCAGAGGATCCCCAGTCCGTACGGATCCTGGGAGCCTGGTGGCCATC  CTGCTGGTGTCTGATCACTGCCATCCTGGTGAAGGTGACAGCTGGATGCTCTGCCCTTC  TTTGTATCACCATGATCAAGATCGTGCTATTAATTCATTTGGTGCCATCCTG</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_004955 unedited  GTACCGCGGCACGCAATCTAGTATCGAGTTTTTTTTTTTTTTTTTTTGAACAAAAACAAGNA  AGGTTTATTTAAATCAGAGAGCCTCTGAAGGCACCTGGTTTCTGTCAAATATATTTTTTAA  AAAAGGCAGTAACGTGGCAACTGTACAGGTGCATGATGGTAAGAACTGGGCATGGGGA  GTTGGGAGGGGACATGGAGAGAACACAGAGGAGGAGGCGCAGGGGAGAATGGAGTATAT  CAGGTCAAACCATACAACGGTCAGACCCAGCTCCTAGCCACCCAGGACAGGCAGACAGT  CTGACAGACACGGACGCAGACACACAGACACATACACAGAGACACACGTGTTCTCCAAGC  CCAAGAGCCTCCACTGGCTGCACAAGCAGGGATCAGTCAGAGCCAAGAGTGGAGAACT  CAAGCAAATGCCGAGGCTACACCCCGTCCCTCGACTCTGAGCCCCAACCCACAATGTCC  CCACTGTCCGTCCAGAGGCTCCCTCCCCAGGGCCTGGAGATCCGGGCCACACACGCGCC  TGGAAAGCAGAAGTCAGTTAGAAGAAAAACCGCCAGACCACTCAGGATCACCCCTGGCA  GAAGGAAGGGGCAGGAGGCAGACAGGGAGGGAGGCAGGCAGTCCTTCTGTCCATCCTTTG  TCACACAATTGCCCGAACAGGAATGAGAAAACAGCCCCAGTGCCAGACCCAGACACAG  GAAGAAAGCCATGATGGCTCCTGCGGTCTCTGCCTCAGCTGCTTCACTTTCTTGGGCCCC  AAACACATGCTTAGCTTGCATGATCCGTTTTAGAAATGCAAAGCCACATGAAGAATAT  GACCAGGCTCGTGCTCGAGACCACATCAGTAACGGGGGGCTTAATGTTGACACTCAGATT  GGACAACCCAGTCGGCCATACAG</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_004955
<b>Insert Size:</b>	2200 bp
<b>OTI Disclaimer:</b>	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).
<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>	<u><a href="#">NM_004955.1</a></u> , <u><a href="#">NP_004946.1</a></u>

RefSeq Size: 2341 bp

RefSeq ORF: 1371 bp

Locus ID: 2030

Cytogenetics: 6p21.1

Domains: Nucleoside\_tran

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 (5) differs in the 5' UTR compared to variant 1. This variant has an upstream in-frame AUG at nt 255-257. This AUG is not annotated because it has a weak Kozak signal and N-terminal sequencing (PMID 8986748) identified the downstream annotated AUG as the translation start. Variants 1, 2, 3, 4, and 5 encode the same protein.