

## Product datasheet for **SC122599**

### ENT2 (SLC29A2) (NM\_001532) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ENT2 (SLC29A2) (NM_001532) Human Untagged Clone
Tag:	Tag Free
Symbol:	ENT2
Synonyms:	DER12; ENT2; HNP36
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:**

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>OriGene sequence for NM_001532 edited
GGAGCGGCTCTGGCATCACCTCGGAGCTGACGAAGCGGGAAGAGCCCGCACCAGTGCTG
CCCCTACAGAGCTCTCGGCGGGGGTGGAGGCGCATCCGCCGCGGCGGCCATGGCGCGAG
GAGACGCCCGCGGGACAGCTACCACCTGGTCGGGATCAGCTTCTTCATCCTGGGGCTGG
GCACCCCTCTTCCCTGGAACCTTTCATCACCGCCATCCCGTACTTCCAGGCGGACTGG
CCGGGGCCGGCAACAGCACAGCCAGGATCTGAGCACCAACCACACGGGTCCCGAGGATG
CCTTCAACTTCAACCATTGGGTGACGCTGCTGTCCCAGCTGCCCTGCTGCTTTCACCC
TCCTCAACTCCTTCCCTGTACCAGTGCCTCCCGGAGACGGTGCGCATTCTGGGCAGCCTGC
TGCCATACTGCTGCTCTTTGCCCTGACAGCAGCGCTGGTCAAGGTGGACATGAGCCCCG
GACCCCTCTTCTCCATCACCATGGCCTCCGTCTGCTTCATCAACTCCTTCAGTGCAGTCC
TACAGGGCAGCCTCTTCGGGCAGCTGGGCACCATGCCCTCCACCTACAGCACCCCTCTTC
TCAGCGGCAGGGCCTGGCTGGGATCTTTGCTGCCCTGGCATGCTCCTGGCCATGGCCA
GTGGCGTGGACGCCGAGACCTCTGCCCTGGGTACTTTATCACGCCCTGTGTGGGCATCC
TCATGTCCATCGTGTGTACCTGAGCCTGCCTCACCTGAAGTTTGCCCGTACTACCTGG
CCAATAAATCATCCAGGCCAAGCTCAGGAGCTGGAGACCAAGCTGAGCTCCTCCAGT
CTGATCTGGCTGACAGCGCTGTGCCTTGTGTGGTCTTACAGTACCCTGTCCGTCTTC
CCCGCCATCACAGCCATGGTGACCAGCTCCACCAGTCCCTGGGAAGTGGAGTCAAGTCTTC
AACCCCATCTGCTGCTTCTCCTCTTCAACATCATGGACTGGCTGGGACGGAGCCTGACC
TCTTACTTCTGTGGCCAGACGAGGACAGCCGGCTGCTGCCCTGCTGGTCTGCCTGCGG
TTCCTGTTCGTGCCCTCTTCATGCTGTGCCACGTGCCCCAGAGGTCCCGGCTGCCCATC
CTTTCCACAGGATGCCTACTTCATCACCTTCATGCTGCTCTTTGCCGTTTCTAATGGC
TACCTGGTGTCCCTCACCATGTGCCTGGCGCCAGGCAGGTGCTGCCACACGAGAGGGAG
TAGGGCCGGCCCTCATGACCTTCTTCCCTGGCCCTGGGACTTTCCTGTGGAGCCTCCCTC
TCCTTCTCTTCAAGGCGCTGCTCTGAAGTGGCCCTCCAGGCTCTTTGGCAGCCTCTTC
TCGACGTCTCCTTCCGGAGCTGAGATCCAGCCCAGGGCGAATGGCGAGCTTGGCTCAGGC
CTCTGCGGGTGGAGGCCCTGGGCCTGAGGCTGCCAGCAGCGGGCAGGAGCTGCTCTTC
ATCCACTTGGAGTGTGCGGGGAAGAAATCACCACCGGTATTCTAACCCACCCAGGA
ATGGGGGTGACTCGCACAAGACCTCATGGAAAGGGTGTGACTAGGAAAAGAGGGTGCA
GGGCACGGCTGCTCCCCACCACAGGTCTGCATTTGTTTCATCATCATCAGGAGCAGAGGT
GACCAGAGGGTTCAGAGTGGGAGGCAGGGCCAGCCAGGCCAGGAGCGCCTCATCTTCCC
AGGCTCAGCCACCCAGGGTAAAAGGTGCCAGGGAAGTTGTGGGCACCTGAGAGGAGGAA
CAGATGTGGAGGACCTGAGGGTGTCAAAGGGCCAGGCTCAGCCTCAAGCAGTGTTTTCA
TTGCCAACACTTACTGTACCCACTCCGCAGAGCCCGCTGGGCCTGGGCCCCAGGGCCAC
AGCTAGCCTGCATGTGTACTGCACTTTACAGTTTGCAAAGCTCTTCCATACCCACTCT
CTCACCGAAGCCTAATTGAGGCTCTTGAAGGAGTCAGGCAAGGATTGTGCTTCCCCAT
TATACAGGTGACAAAACCTGAGTCTGGGAAAGTACTGGTCCGTGGTAGAGCCGGGACC
CAATCCCTCTCTCTCCCTGTTGGTGTGTTCTTCTGCCCCAACCTGTTTCTCTT
TTCTCAAGGGGTTTGGGGCAGGAGCCTGGGCACCTACTCCCCGTTTTTGTGTTTCTCC
TTCTGACCCTGCTTGGGTCTAATAACCCATTTATTTGTAAAAAAAAAAAAAAAAA
    
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_001532 unedited GGTTCAAATTTGTATACGACTCATATAGGCGGCCGNAATCCCGGNAATCGTCGACCC ACGCGTCCGCCACGCGTCCGGGAGCGGCTCTGGCATCACCTCGGAGCTGACGAAGCGGG AAGAGCCCCGCACCAGTCTGCCCTACAGAGCTCTCGGCGGGGGTGGAGGCGCATCCG CCGCGCGGCCATGGCGCAGGAGACGCCCCGCGGACAGCTACACCTGGTCGGGATCA GCTTCTTCATCTGGGGCTGGGCACCCTCCTTCCCTGGAACCTTTCATCACCGCCATCC CGTACTCCAGGCGCAGTGGCCGGGGCCGGCAACAGCACAGCCAGGATCCTGAGCACCA ACCACACGGGTCCCGAGGATGCCTTCAACTTCAACAATTGGGTGACGCTGCTGCCAGC TGCCCTGCTGCTCTTACCCTCCTCAACTCCTTCTGTACAGTGCGTCCCGGAGACGG TGCGCATTCTGGGCAGCCTGCTGGCCATACTGCTGCTCTTTGCCCTGACAGCAGCGCTGG TCAAGGTGGACATGAGCCCCGACCCCTTCTTCCATCACCATGGCCTCCGTCTGCTTCA TCAACTCCTTCAGTGCAGTCTACAGGGCAGCCTTTCGGGCAGCTGGGCACCATGCCCT CCACCTACAGCACCTCTTCTCANCGCCAGGGCCCTGGCTGGGATCTTTGCTGCCCTT GCCATGCTCCTGTCCATGGCAGTGGCGTGACGCCGAGACCTCTGCCCTGGGTACTTTA TCACGCCCTGTGTGGCATCCTCATGGTCTCGGGTGTACCTGAGCCTGGCCACCTCGA ATTTGCCCGCTACTACCTGGGCAATAAAAATCCCAGCCCCAGCTCAGGAGCTGGAGACCA AGCTGGACTCCTTCATT
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_001532
<b>Insert Size:</b>	2276 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>	<a href="#">NM_001532.2</a> , <a href="#">NP_001523.2</a>
<b>RefSeq Size:</b>	2529 bp
<b>RefSeq ORF:</b>	1371 bp
<b>Locus ID:</b>	3177
<b>UniProt ID:</b>	<a href="#">Q14542</a>
<b>Cytogenetics:</b>	11q13.2
<b>Protein Families:</b>	Transmembrane

**Gene Summary:**

The uptake of nucleosides by transporters, such as SLC29A2, is essential for nucleotide synthesis by salvage pathways in cells that lack de novo biosynthetic pathways. Nucleoside transport also plays a key role in the regulation of many physiologic processes through its effect on adenosine concentration at the cell surface (Griffiths et al., 1997 [PubMed 9396714]). [supplied by OMIM, Nov 2008]

Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 both encode the same isoform (a).