

Product datasheet for **RG224498**

ENT1 (SLC29A1) (NM_001078176) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ENT1 (SLC29A1) (NM_001078176) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC29A1
Synonyms:	ENT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG224498 representing NM_001078176
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGACAACCAAGTACCAGCCTCAGGACAGATACAAAGCTGTCTGGCTTATCTTTCATGCTGGGTCTGG
 GAACGCTGCTCCCGTGAATTTTTTCATGACGGCCACTCAGTATTTACAAACCGCCTGGACATGTCCCA
 GAATGTGTCTTGGTCACTGCTGAAGTGAAGGACGCCAGGCGTCAGCCGCCCTGCAGCACCCCTTG
 CCTGAGCGGAAGTCTCTCAGTGCATCTTCAACAATGTCATGACCCTATGTGCCATGCTGCCCTGCTGT
 TATTCACCTACCTCAACTCCTTCTGCATCAGAGGATCCCCAGTCCGTACGGATCCTGGGCAGCCTGGT
 GGCCATCTGCTGGTGTCTGATCACTGCCATCTGGTGAAGGTGCAGCTGGATGCTCTGCCCTCTTT
 GTCATCACCATGATCAAGATCGTCTCATTAAATCATTGGTCCATCCTGCAGGGCAGCCTGTTGGTC
 TGGCTGGCCTTCTGCCTGCCAGCTACACGGCCCCATCATGAGTGGCCAGGGCCTAGCAGGCTTCTTTGC
 CTCGGTGGCCATGATCTGCGCTATTGCCAGTGGCTCGGAGCTATCAGAAAGTGCCTTCGGCTACTTTATC
 ACAGCCTGTGCTGTTATCATTTTGACCATCATCTGTTACCTGGGCTGCCCGCCTGGAATTCTACCGCT
 ACTACCAGCAGCTCAAGCTTGAAGGACCCGGGAGCAGGAGACCAAGTTGGACCTCATTAGCAAAGGAGA
 GGAGCCAAGAGCAGGCAAGAGGAATCTGGAGTTTCAGTCTCCAAGTCTCAGCCACCAATGAAAGCCAC
 TCTATCAAAGCCATCCTGAAAAATCTCAGTCTGGCTTTCTCTGTCTGCTTACTTCACTATACCA
 TTGGGATGTTCCAGCCGTGACTGTTGAGGTCAAGTCCAGCATCGCAGGCAGCAGCACCTGGGAACGTTA
 CTTTCTTCTGTGCTGTTCTTACTTTCAATATCTTTGACTGTTGGGCCGGAGCCTCACAGCTGTA
 TTCATGTGGCTGGGAAGGACAGCCGCTGGCTGCCAAGCCTGGTCTGGCCGGCTGGTGTGTGCCAC
 TGCTGCTGTGCAACATTAAGCCCCGCCCTACCTGACTGTGGTCTTCGAGCAGCATGCCTGGTTCAT
 CTTCTTATGGCTGCCTTTCCTTCTCCAACGGCTACCTCGCCAGCCTCTGCATGTGCTTCGGGCCCAAG
 AAAGTGAAGCAGCTGAGGCAGAGACCGCAGGAGCCATCATGGCCTTCTTCTGTGTCTGGTCTGGCAC
 TGGGGCTGTTTTCTCTTCTGTTCCGGCAATTGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG224498 representing NM_001078176
 Red=Cloning site Green=Tags(s)

MTTSHQPQDRYKAVWLIFFMLGLGTLPLWNFFMTATQYFTNRLDMSQNVSLVTAELSKDAQASAAPAAPL
 PERNLSAIFNNVMTLCAMLPLLLFTYLNFLHQRIPQSVRILGSLVAILLVFLITAILVKVQLDALPFF
 VITMIKIVLINSFGAILQGSFLGLAGLLPASYPIMSGQLAGFFASVAMICAIASGSELSAFAFYFI
 TACAVIILTIICYLGLPRLEFYRYQQKLEGPGEQETKLDLISKGEEPRAGKEESGVSVSNSQPTNESH
 SIKAILKNISVLAFSVCFIFTITIGMFPVAVTVKSSSIAGSSTWERYFIPVSCFLTFNIFDWLGRSLTAV
 FMWPGKDSRWLPSLVLARLVFVPLLLLCNIKPRRYLTVVFEHDAWFIFMAAFASNGYLASLCMCFGPK
 KVKPAEAETAGAIMAFFLCLGLALGAVFSFLFRAIV

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

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:	<ol style="list-style-type: none">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:	<u>NM_001078176.2, NP_001071644.1</u>
RefSeq Size:	2146 bp
RefSeq ORF:	1371 bp
Locus ID:	2030
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]