

Product datasheet for **RG215026**

ENT1 (SLC29A1) (NM_001078175) Human Tagged ORF Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | ENT1 (SLC29A1) (NM_001078175) 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:

>RG215026 representing NM_001078175
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGACAACCAAGTACCAGCCTCAGGACAGATACAAAGCTGTCTGGCTTATCTTTCATGCTGGGTCTGG
 GAACGCTGCTCCCGTGAATTTTTTCATGACGGCCACTCAGTATTTACAAAACCGCCTGGACATGTCCCA
 GAATGTGTCTTGGTCACTGCTGAAGTGAAGGACGCCAGGCGTCAGCCGCCCTGCAGCACCCCTTG
 CCTGAGCGGAAGTCTCTCAGTGCATCTTCAACAATGTCATGACCCTATGTGCCATGCTGCCCTGCTGT
 TATTCACCTACCTCAACTCCTTCTGCATCAGAGGATCCCCAGTCCGTACGGATCCTGGGAGCCTGGT
 GGCCATCTGCTGGTGTCTGATCACTGCCATCCTGGTGAAGGTGCAGCTGGATGCTCTGCCCTCTTT
 GTCATCACCATGATCAAGATCGTCTCATTAAATCATTGGTCCATCCTGCAGGGCAGCCTGTTGGTC
 TGGCTGGCCTTCTGCCTGCCAGCTACACGGCCCCATCATGAGTGGCCAGGGCCTAGCAGGCTTCTTTGC
 CTCGGTGGCCATGATCTGCGCTATTGCCAGTGGCTCGGAGCTATCAGAAAGTGCCTTCGGCTACTTTATC
 ACAGCCTGTGCTGTTATCATTGACCATCATCTGTTACCTGGGCTGCCCGCCTGGAATTCTACCGCT
 ACTACCAGCAGCTCAAGCTTGAAGGACCCGGGAGCAGGAGACCAAGTTGGACCTCATTAGCAAAGGAGA
 GGAGCCAAGAGCAGGCAAGAGGAATCTGGAGTTTCAGTCTCCAAGTCTCAGCCACCAATGAAAGCCAC
 TCTATCAAAGCCATCCTGAAAAATATCTCAGTCTGGCTTTCTCTGTCTGCTTCACTTCACTATACCA
 TTGGGATGTTCCAGCCGTGACTGTTGAGGTCAAGTCCAGCATCGCAGGCAGCAGCACCTGGGAACGTTA
 CTTTCTTCTGTGCTGTTCTTACTTTCAATATCTTTGACTGTTGGGCCGGAGCCTCACAGCTGTA
 TTCATGTGGCCTGGGAAGGACAGCCGCTGGCTGCCAAGCCTGGTGTGGCCGGCTGGTGTGTGCCAC
 TGCTGCTGTGCAACATTAAGCCCCGCCCTACCTGACTGTGGTCTTCGAGCAGCATGCCTGGTTCAT
 CTTCTTATGGCTGCCTTTCCTTCTCCAACGGCTACCTCGCCAGCCTCTGCATGTGCTTCGGGCCCAAG
 AAAGTGAAGCCAGCTGAGGCAGAGACCGCAGGAGCCATCATGGCCTTCTTCTGTGTCTGGGTCTGGCAC
 TGGGGCTGTTTTCTCTTCTGTTCCGGCAATTGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG215026 representing NM_001078175
 Red=Cloning site Green=Tags(s)

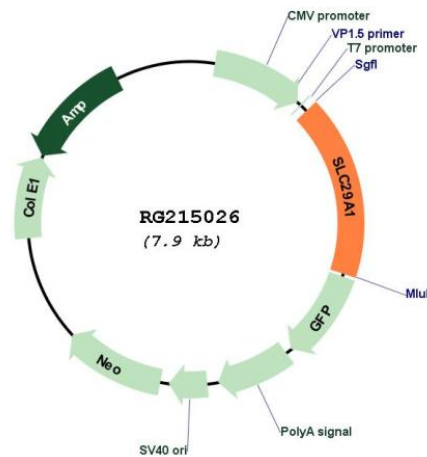
MTTSHQPQDRYKAVWLIFFMLGLGTLPLWNFFMTATQYFTNRLDMSQNVSLVTAELSKDAQASAAPAAPL
 PERNLSAIFNNVMTLCAMLPLLLFTYLNFLHQRIPQSVRILGSLVAILLVFLITAILVKVQLDALPFF
 VITMIKIVLINSFGAILQGSFLGLAGLLPASYPIMSGQLAGFFASVAMICAIASGSELSAFAFGYFI
 TACAVIILTIICYLGLPRLEFYRYQQKLEGPGEQETKLDLISKGEEPRAGKEESGVSVSNSQPTNESH
 SIKAILKNISVLAFSVCFIFTITIGMFPVAVTVEVKSSIAGSSTWERYFIPVSCFLTFNIFDWLGRSLTAV
 FMWPGKDSRWLPSLVLARLVFVPLLLLCNIKPRRYLTVVFEHDAWFIFMAAFASNGYLASLCMCFGPK
 KVKPAEAETAGAIMAFFLCLGLALGAVFSFLFRAIV

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Plasmid Map:


ACCN: NM_001078175

ORF Size: 1368 bp

OTI Disclaimer: 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: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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| 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_001078175.3</u> |
| RefSeq Size: | 2253 bp |
| RefSeq ORF: | 1371 bp |
| Locus ID: | 2030 |
| UniProt ID: | <u>Q99808</u> |
| 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] |