

## Product datasheet for **RC238332**

### ENT2 (SLC29A2) (NM\_001300868) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ENT2 (SLC29A2) (NM_001300868) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ENT2
Synonyms:	DER12; ENT2; HNP36
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RC238332 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCGGAGGAGACGCCCCGGGACAGCTACCACCTGGTCGGGATCAGCTTCTTCATCCTGGGGCTGG  
 GCACCCTCCTTCCTGGAACCTTCTTCATACCCGCATCCCGTACTTCCAGGCGGACTGGCCGGGCGG  
 CAACAGCACAGCCAGGATCCTGAGCACCAACCACACGGGTCCCGAGGATGCCTTCAACTCAACAATTGG  
 GTGACGCTGCTGTCCCAGCTGCCCTGCTGCTTCCACCTCCTCAACTCCTTCTGTACCAAGTGCCTCC  
 CGGAGACGGTGCATTCTGGGCAGCCTGCTGGCCATACTGCTGCTTTTGCCCTGACAGCAGCGCTGGT  
 CAAGGTGGACATGAGCCCCGACCCTTCTTCTCCATCACCATGGCCTCCGTCTGCTTCACTCAACTCCTT  
 AGTGCAGTCTACAGGGCAGCCTCTTGGGCAGCTGGGCACCATGCCCTCCACCTACAGCACCTCTTCC  
 TCAGCGGCCAGGGCCTGGCTGGGATCTTGTGCCCTTGCCATGCTCCTGTCCATGGCCAGTGGCGTGA  
 CGCCGAGACCTCTGCCCTGGGGTACTTTATCACGCCCTGTGTGGGCATCCTCATGTCCATCGTGTGTAC  
 CTGAGCCTGCCTACCTGAAGTTTGCCCGCTACTACCTGGCCAATAAATCATCCCAGGCCAAGCTCAGG  
 AGCTGGAGACAAAGCTGAGCTCCTCCAGTCTGATGAGAACGGGATCCCAAGTAGTCCCCAGAAAGTAGC  
 TCTGACCTGGATCTTGACCTGGAGAAGGAGCCGAATCAGAGCCAGATGAGCCCCAGAAGCCAGGAAAA  
 CCTTCAGTCTTCACTGTCTTCCAGAAGATCTGGCTGACAGCGCTGTGCCTTGTGTGGTCTTACAGTCA  
 CCCTGTCCGTCTTCCCGCCATCACAGCCATGGTGACCAGCTCCACCAGTCCCTGGGAAGTGGAGTCAGTT  
 CTTCAACCCCATCTGCTGCTTCTCCTCTTCAACATCATGGACTGGCTGGGACGGAGCCTGACCTTTAC  
 TTCTGTGGCCAGACGAGGACAGCCGGCTGCTGCCCTGCTGGTCTGCCTGCGGTCTCTGTTCGTGCC  
 TCTTCATGCTGTGCCACGTGCCAGAGGTCCTGGCTGCCATCCTTCCCACAGGATGCCTACTTTCAT  
 CACCTTCATGCTGCTCTTGGCGTTTCTAATGGCTACCTGGTGTCCCTCACCATGTGCCTGGCGCCAGG  
 CAGGTGCTGCCACACGAGAGGGAGTGGCCGGCCCTCATGACCTTCTTCTGCGCCTGGGACTTCTCT  
 GTGGAGCCTCCCTCTCCTTCTTCAAGGCGCTGCTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC238332 protein sequence  
 Red=Cloning site Green=Tags(s)

MARGDAPRDSYHLVGISFFILGLGTLWPWFFITAIPYFQARLAGAGNSTARILSTNHTGPEDAFNFW  
 VTLLSQLPLLLFTLLNSFLYQCPETVRILGSLLAILLFALTAALVKVDMSPGPFSSITMASVCFINSF  
 SAVLQGSFLGQLGTMPTSTYTLFLSGQLAGIFAALAMLLSMASGVDAETSALGYFITPCVILMSIVCY  
 LSLPHLKFARYYLANSSQAQAQELTKAELLQSDENGIPSSPQKVALTLDLLEKEPESEPDQKPGK  
 PSVFTVFQKIWLALCLVLVFTVTLVFPVPAITAMVTSSTSPGKWSQFNPICCFLLFNIMDWLGRSLTSY  
 FLWPDEDSRLLPLLVLCLRFLVPLFMLCHVQSRSLPILFPQDAYFITFMLLFAVSNGYLVSLTMCLAPR  
 QVLPHEREVAGALMTFFLALGLSCGASLSFLFKALL

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6007\\_d04.zip](https://cdn.origene.com/chromatograms/mk6007_d04.zip)

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001300868

**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.

**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\\_001300868.1](#), [NP\\_001287797.1](#)

**RefSeq Size:** 2730 bp

**RefSeq ORF:** 1371 bp

**Locus ID:** 3177

**UniProt ID:** [Q14542](#)

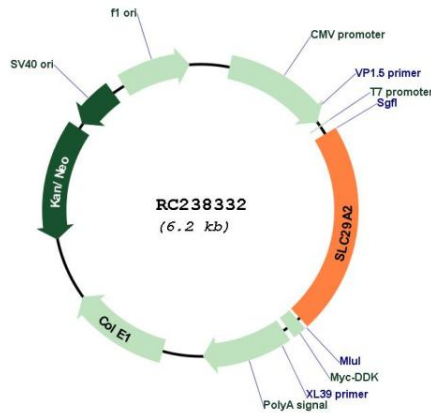
**Cytogenetics:** 11q13.2

**Protein Families:** Transmembrane

**MW:** 50.1 kDa

**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]

**Product images:**



Circular map for RC238332