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Product datasheet for RC210776

ENT2 (SLC29A2) (NM_001532) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ENT2 (SLC29A2) (NM_001532) 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)

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ORF Nucleotide Sequence:

>RC210776 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGCGAGGAGACGCCCCGCGGGACAGCTACCACCTGGTCGGGATCAGCTTCTTCATCCTGGGGCTGG
GCACCCTCCTTCCCTGGAACTTCTTCATCACCGCCATCCCGTACTTCCAGGCGCGACTGGCCGGGGCCGG
CAACAGCACAGCCAGGATCCTGAGCACCAACCACACGGGTCCCGAGGATGCCTTCAACTTCAACAATTGG
GTGACGCTGCTGTCCCAGCTGCCCCTGCTGCTCTTCACCCTCCTCAACTCCTTCCTGTACCAGTGCGTCC
CGGAGACGGTGCGCATTCTGGGCAGCCTGCTGGCCATACTGCTGCTCTTTGCCCTGACAGCAGCGCTGGT
CAAGGTGGACATGAGCCCCGGACCCTTCTTCTCCATCACCATGGCCTCCGTCTGCTTCATCAACTCCTTC
AGTGCAGTCCTACAGGGCAGCCTCTTCGGGCAGCTGGGCACCATGCCCTCCACCTACAGCACCCTCTTCC
TCAGCGGCCAGGGCCTGGCTGGGATCTTTGCTGCCCTTGCCATGCTCCTGTCCATGGCCAGTGGCGTGGA
CGCCGAGACCTCTGCCCTGGGGTACTTTATCACGCCCTGTGTGGGCATCCTCATGTCCATCGTGTGTTAC
CTGAGCCTGCCTCACCTGAAGTTTGCCCGCTACTACCTGGCCAATAAATCATCCCAGGCCCAAGCTCAGG
AGCTGGAGACCAAAGCTGAGCTCCTCCAGTCTGATGAGAACGGGATTCCCAGTAGTCCCCAGAAAGTAGC
TCTGACCCTGGATCTTGACCTGGAGAAGGAGCCGGAATCAGAGCCAGATGAGCCCCAGAAGCCAGGAAAA
CCTTCAGTCTTCACTGTCTTCCAGAAGATCTGGCTGACAGCGCTGTGCCTTGTGTTGGTCTTCACAGTCA
CCCTGTCCGTCTTCCCCGCCATCACAGCCATGGTGACCAGCTCCACCAGTCCTGGGAAGTGGAGTCAGTT
CTTCAACCCCATCTGCTGCTTCCTCCTCTTCAACATCATGGACTGGCTGGGACGGAGCCTGACCTCTTAC
TTCCTGTGGCCAGACGAGGACAGCCGGCTGCTGCCCCTGCTGGTCTGCCTGCGGTTCCTGTTCGTGCCCC
TCTTCATGCTGTGCCACGTGCCCCAGAGGTCCCGGCTGCCCATCCTCTTCCCACAGGATGCCTACTTCAT
CACCTTCATGCTGCTCTTTGCCGTTTCTAATGGCTACCTGGTGTCCCTCACCATGTGCCTGGCGCCCAGG
CAGGTGCTGCCACACGAGAGGGAGGTGGCCGGCGCCCTCATGACCTTCTTCCTGGCCCTGGGACTTTCCT
GTGGAGCCTCCCTCTCCTTCCTCTTCAAGGCGCTGCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC210776 protein sequence
Red=Cloning site Green=Tags(s)

MARGDAPRDSYHLVGISFFILGLGTLLPWNFFITAIPYFQARLAGAGNSTARILSTNHTGPEDAFNFNNW
VTLLSQLPLLLFTLLNSFLYQCVPETVRILGSLLAILLLFALTAALVKVDMSPGPFFSITMASVCFINSF
SAVLQGSLFGQLGTMPSTYSTLFLSGQGLAGIFAALAMLLSMASGVDAETSALGYFITPCVGILMSIVCY
LSLPHLKFARYYLANKSSQAQAQELETKAELLQSDENGIPSSPQKVALTLDLDLEKEPESEPDEPQKPGK
PSVFTVFQKIWLTALCLVLVFTVTLSVFPAITAMVTSSTSPGKWSQFFNPICCFLLFNIMDWLGRSLTSY
FLWPDEDSRLLPLLVCLRFLFVPLFMLCHVPQRSRLPILFPQDAYFITFMLLFAVSNGYLVSLTMCLAPR
QVLPHEREVAGALMTFFLALGLSCGASLSFLFKALL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6007_d04.zip

Restriction Sites: SgfI-MluI

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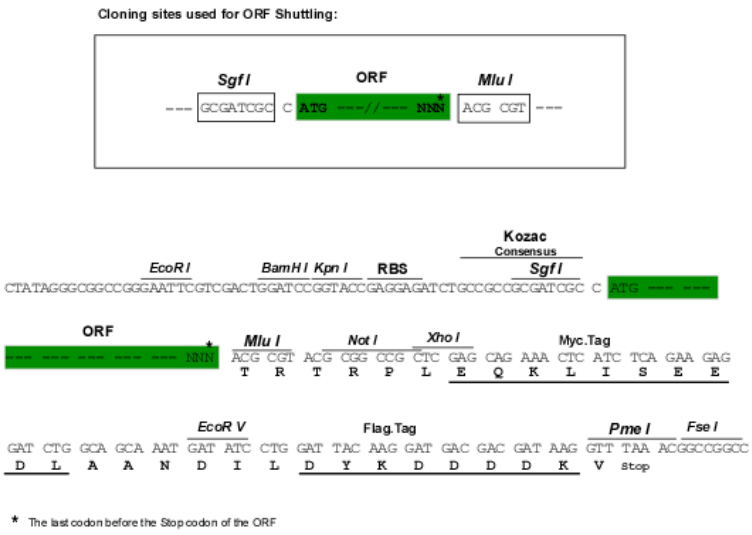
Cloning Scheme:



ACCN: NM_001532

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_001532.3

RefSeq Size: 2529 bp

RefSeq ORF: 1371 bp

Locus ID: 3177

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UniProt ID: Q14542

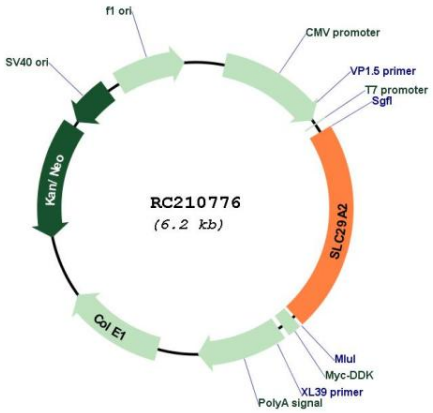
Cytogenetics: 11q13.2

Protein Families: Transmembrane

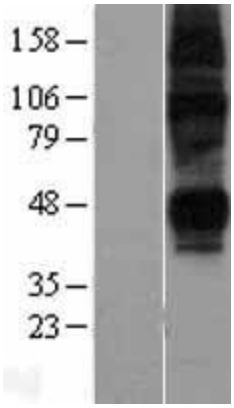
MW: 50.1 kDa

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 RC210776



Western blot validation of overexpression lysate (Cat# [LY400588]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210776 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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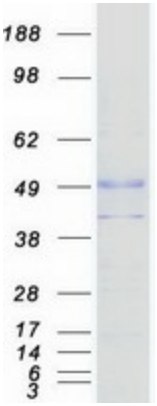

Coomassie blue staining of purified SLC29A2 protein (Cat# [TP310776]). The protein was produced from HEK293T cells transfected with SLC29A2 cDNA clone (Cat# RC210776) using MegaTran 2.0 (Cat# [TT210002]).

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