

Product datasheet for RC237722

ENT2 (SLC29A2) (NM_001300869) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ENT2 (SLC29A2) (NM_001300869) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC29A2
Synonyms:	DER12; ENT2; HNP36
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC237722 representing NM_001300869 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCGGAGGAGACGCCCGCGGGACAGCTACCACCTGGTCGGGATCAGCTTCTTCATCCTGGGGCTGG
GCACCTCCTTCCCTGGAACCTTTCATCACCGCCATCCCGTACTCCAGGCGGACTGGCCGGGCGCG
CAACAGCACAGCCAGGATCCTGAGCACAACACACGGGTCGAGGATGCCTTCAACTCAACAATTGG
GTGACGCTGCTGCCAGCTGCCCTGCTGCTTTCACCTCCTCAACTCCTTCCGTACCAAGTGGTCC
CGGAGACGGTGCCATTCTGGGACGCTGCTGGCCATACTGCTGCTCTTGGCCCTGACAGCAGCGTGGT
CAAGGTGGACATGAGCCCCGACCTTCTTCTCCATCACCATGGCCTCCGTCTGCTTCACTCAACTCCTTC
AGTGCAGTCTACAGGGCAGCCTCTTCGGGACGCTGGGACCATGCCCTCCACCTACAGCACCTCTTCC
TCAGCGGCCAGGGCCTGGCTGGGATCTTGTGCTGCCCTGGCCATGCTCCTGTCCATGGCCAGTGGCGTGA
CGCCGAGACCTTGCCCTGGGGTACTTTATCACGCCCTGTGTGGGATCCTCATGTCCATCGTGTGTAC
CTGAGCCTGCCTCACCTGAAGTTTGGCCGCTACTACCTGGCCAATAAATCATCCCAGGCCCAAGCTCAGG
AGCTGGAGACAAAGCTGAGCTCCTCCAGTCTGATCTGGCTGACAGCGCTGTGCCTGTGTGGTCTTCA
CAGTACCCTGTCCGTCTTCCCGCCATCACAGCCATGGTGACCAGCTCCACCAGTCTGGGAAGTGGAG
TCAGTTCTTCAACCCCATCTGCTGCTTCTCCTCTTCAACATCATGGACTGGCTGGGACGGAGCCTGACC
TCTTACTTCTGTGGCCAGACGAGGACAGCCGGCTGCTGCCCTGCTGGTCTGCCTGCGGTTCTGTTCG
TGCCCTCTTTCATGCTGTGCCAGTGGCCAGAGGTCCCGGCTGCCATCCTCTTCCACAGGATGCCTA
CTTCATCACCTTCATGCTGCTCTTGGCGTTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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ORF Size:	1083 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:	<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:	NM_001300869.1 , NP_001287798.1
RefSeq Size:	2561 bp
RefSeq ORF:	1086 bp
Locus ID:	3177
Cytogenetics:	11q13.2
Protein Families:	Transmembrane
MW:	39.2 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]