

## Product datasheet for **RC217319**

### SLC29A3 (NM\_018344) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC29A3 (NM_018344) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC29A3
Synonyms:	ENT3; HCLAP; HJCD; PHID
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RC217319 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCGTGTCTCAGAGGACGACTTTCAGCACAGTTCAAACCTCCACCTACAGAACCACAAGCAGCAGTC  
 TCCGAGCTGACCAGGAGGCACTGCTTGAGAAGCTGCTGGACCGCCGCCCTGGCTGCAGAGGCCCGA  
 GGACCGCTTCTGTGGCACATACATCATCTTCTTACGCCTGGGCATTGGCAGTCTACTGCCATGGAATTC  
 TTTACTACTGCCAAGGAGTACTGGATGTTCAAACCTCCGCAACTCTCCAGCCCAGCCACCGGGGAGGACC  
 CTGAGGGCTCAGACATCCTGAACACTTTGAGAGCTACCTTGCCGTTGCCTCCACCGTGCCTCCATGCT  
 GTGCCTGGTGGCCAACTTCTGCTTGTCAACAGGGTTCAGTCCACATCCGTGTCTTGGCCTCACTGACG  
 GTCATCCTGGCCATCTTCATGGTGATAACTGCACTGGTGAAGGTGGACACTTTCTCTGGACCCGTGGCT  
 TTTTTCGGGTACCATTGTCTGCATGGTATCCTCAGCGGTGCCTCCACTGTCTTACGACGAGCATCTA  
 CGGCATGACCGGCTCCTTTCCTATGAGGAACCTCCAGGCACTGATATCAGGAGGAGCCATGGGCGGACG  
 GTCAGCGCCGTGGCCTCATTGGTGGACTTGGCTGCATCCAGTGTGTGAGGAACAGCGCCCTGGCCTTCT  
 TCTGACGGCCACCATCTTCTCGTGTCTGCATGGGACTCTACCTGCTGCTGTCCAGGCTGGAGTATGC  
 CAGGTACTACATGAGGCCTGTTCTTGGCGCCATGTGTTTTCTGGTGAAGAGGAGCTTCCCAGGACTCC  
 CTCAGTGGCCCTTCGGTGGCCTCCAGATTCATTGATCCACACACCCCTCTCCGCCCATCTGAAGA  
 AGACGGCCAGCCTGGGCTTCTGTGTACCTACGCTTCTTTCATCACCAGCCTCATCTACCCCGCCGTCTG  
 CACCAACATCGAGTCCCTCAACAAGGGCTCGGGCTCACTGTGGACCACCAAGTTTTTCATCCCCCTCACT  
 ACCTTCTCCTGTACAACCTTGTGACCTATGTGGCCGGCAGCTCACCGCTGGATCCAGGTGCCAGGGC  
 CCAATAGCAAGGGCTCCAGGGTTCGTGCTCCTCCGGACTGCCTCATCCCCCTTTCGTGCTCTAA  
 CTACCAGCCCGGTCCACCTGAAGACTGTGGTCTTCCAGTCCGATGTGTACCCCGCACTCCTCAGCTCC  
 CTGCTGGGCTCAGCAACGGCTACCTCAGCACCTGGCCCTCTTACGGGCCTAAGATTGTGCCAGGG  
 AGCTGGCTGAGGCCACGGGAGTGGTATGCTCTTTATGTGTGCTTGGGCTTAACACTGGCTCAGCCTG  
 CTCTACCCTCCTGGTGCACCTCATC

**ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA**

**Protein Sequence:**

>RC217319 protein sequence  
 Red=Cloning site Green=Tags(s)

MAVVEDDFQHSSNSTYRTTSSSLRADQEALLEKLLDRPPPGLQRPEDRF CGTYI IFFSLGIGSLLPWNF  
 FITAKEYWMFKLRNSSSPATGEDPEGS DILNYFESYLAVASTVPSMLCLVANFLLVNRVAVHIRVLASLT  
 VILAI FMVITALVKVDTF SWTRGFFAVTIVCMVILSGASTV FSSSIYGMTGSFPMRNSQALISGGAMGGT  
 VSAVASLVDLAASSDVRNSALAFFLTATIFLVLCMGLYLLSRLEYARYYMRPVLA AHVFSGEEELPQDS  
 LSAPSVASRFIDSHTPPLRPILKKTASLGF CVTYVFFITSLIYPVCTNIESLNKSGSLWTTKFFIPLT  
 TFLLYNFADLCGRQLTAWIQVPGPNSKALPGFVLLRTCL IPLFVLCNYQPRVHLKTVVFQSDVYPALLSS  
 LLGLSNGYLSTLALLYGPKIVPRELAEATGVVMSFYVCLGLTLGSACSTLLVHLI

**TRTRPLEQKLI SEEDLAANDILDYKDDDDKV**

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6562\\_b09.zip](https://cdn.origene.com/chromatograms/mk6562_b09.zip)

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_018344

ORF Size: 1425 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\\_018344.2](#)

RefSeq Size: 2277 bp

RefSeq ORF: 1428 bp

Locus ID: 55315

UniProt ID: [Q9BZD2](#)

Cytogenetics: 10q22.1

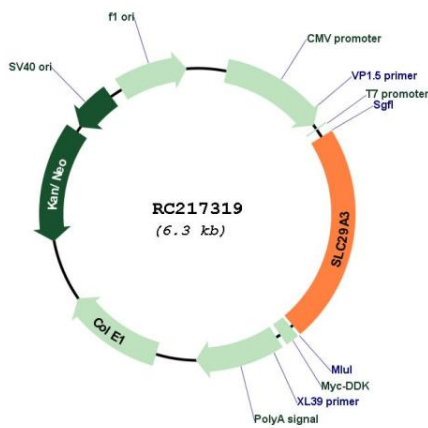
**Domains:** Nucleoside\_tran

**Protein Families:** Transmembrane

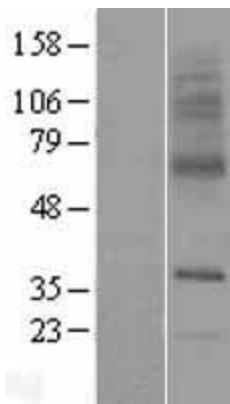
**MW:** 51.9 kDa

**Gene Summary:** This gene encodes a nucleoside transporter. The encoded protein plays a role in cellular uptake of nucleosides, nucleobases, and their related analogs. Mutations in this gene have been associated with H syndrome, which is characterized by cutaneous hyperpigmentation and hypertrichosis, hepatosplenomegaly, heart anomalies, and hypogonadism. A related disorder, PHID (pigmented hypertrichosis with insulin-dependent diabetes mellitus), has also been associated with mutations at this locus. Alternatively spliced transcript variants have been described.[provided by RefSeq, Mar 2010]

**Product images:**



Circular map for RC217319



Western blot validation of overexpression lysate (Cat# [LY413098]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217319 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).