

## Product datasheet for **RC229780**

### **SLC29A3 (NM\_001174098) Human Tagged ORF Clone**

#### **Product data:**

|                           |                                               |
|---------------------------|-----------------------------------------------|
| Product Type:             | Expression Plasmids                           |
| Product Name:             | SLC29A3 (NM_001174098) 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)                          |



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**ORF Nucleotide Sequence:**

>RC229780 representing NM\_001174098  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGC**C

ATGGCCGTTGTCTCAGAGGACGACTTTTCAGCACAGTTCAAACCTCCACCTACAGAACCACAAGCAGCAGTC  
 TCCGAGCTGACCAAGGAGGCACTGCTTGAGAAGCTGCTGGACCGCCGCCCCCTGGCTGCAGAGGCCGA  
 GGACCGCTTCTGTGGCACATACATCATCTTCTTCAGCCTGGGCATTGGCAGTCTACTGCCATGGAATTC  
 TTTATCACTGCCAAGGAGTACTGGATGTTCAAACCTCCGCAACTCTCCAGCCAGCCACCGGGGAGGACC  
 CTGAGGGCTCAGACATCCTGAACACTTTGAGAGCTACCTTGCCGTTGCCTCCACCGTGCCTCCATGCT  
 GTGCCTGGTGGCAACTTCTGCTTGTCAACAGGGTTCAGTCCACATCCGTGCTCCTGGCCTCACTGACG  
 GTCATCCTGGCCATCTTCATGGTGATAACTGCACTGGTGAAGGTGGACACTTTCTCCTGGACCGTGGCT  
 TTTTGGCGTCACCATTTGCTGCATGGTGATCCTCAGCGGTGCCTCCACTGTCTTCAGCAGCAGCATCTA  
 CGGCATGACCGGCTCCTTCTATGAGGAACCTCCAGGCACTGATATCAGGAGGAGCCATGGGCGGACG  
 GTCAGCGCCGTGGCCTCATTGGTGGACTTGGCTGCATCCAGTGATGTGAGGAACAGCGCCCTGGCCTTCT  
 TCCTGACGGCCACCATCTTCTCGTGCTCTGCATGGGACTCTACCTGCTGCTGTCCAGGTGGAGTATGC  
 CAGGTAATACATGAGGCTGTTCTTGCGGCCATGTGTTTTCTGGTGAAGAGGAGCTTCCCCAGGACTCC  
 CTCAGTGCCCTTCGGTGGCCTCCAGATTCAATTGATCCACACACCCCTCTCCGCCCATCCTGAAGA  
 AGACGGCCAGCCTGGGCTTCTGTGTACCTACGTCTTCTTCATCACCAGCCTCATCTACCCCGCGTCTG  
 CACCAACATCGAGTCCCTCAACAAGGGCTCGGGCTCACTGTGGACCACCAAGTTTTTCATCCCCCTCACT  
 ACCTTCTCCTGTACAACTTTGCTGACCTATGTGGCCGGCAGCTACCGCCTGGATCCAGGTGCCAGGGC  
 CCAATAGCAAGGCGCTCCAGGGTTCGTGCTCCTCCGACCTGCCTCATCCCCCTTCTCGTCTGTAA  
 CTACCAGCCCCGCTCCACCTGAAGACTGTGGTCTTCCAGTCCGATGTGTACCCCGCACTCCTCAGCTCC  
 CTGCTGGGGCTCAGCAACGGCTACCTCAGCACCTGGCCCTCCTCTACGGGCTAAGATTGTGCCAGGG  
 AGCTGGCTGAGGCCACGGGAGTGGTGATGCTTTTATGTGTGCTTGGGCTTAACACTGGGCTCAGCCTG  
 CTCTACCCTCCTGGTGACCTCATC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC229780 representing NM\_001174098  
 Red=Cloning site Green=Tags(s)

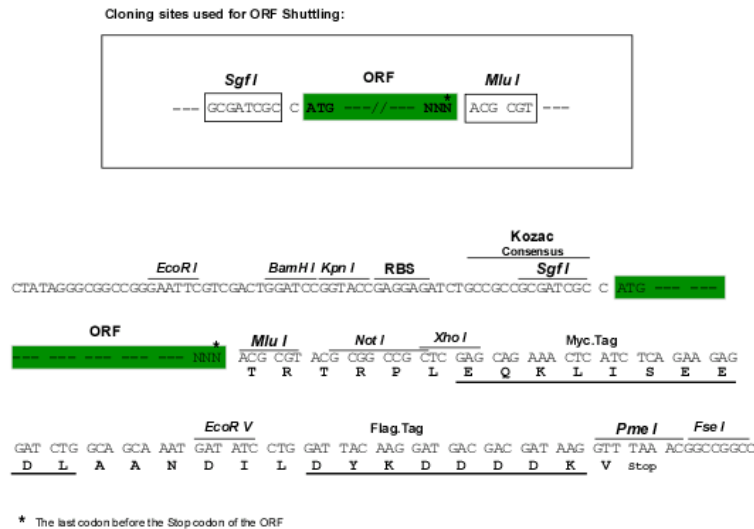
MAVVSDDFQHSSNSTYRTTSSSLRADQEALLEKLLDRPPPLQRPEDRFCGTYIIFFSLGIGSLLPWNF  
 FITAKEYWMFKLRNSSSPATGEDPEGSIDILNYFESYLAVASTVPSMLCLVANFLLVNRVAVHIRVLASLT  
 VILAIFMVITALVKVDTFSWTRGFFAVTIVCMVILSGASTVFSSTIYGMTGSFPMRNSQALISGGAMGGT  
 VSAVASLVDLAASSDVRNSALAFFLTATIFLVLCMGLYLLSRLEYARYYMRPVLAHVFSGEEELPQDS  
 LSAPSVASRFIDSHTPLRPILKKTASLGFCVTYVFFITSLIYPVCTNIESLNKSGSLWTTKFFIPLT  
 TFLLYNFADLCGRQLTAWIQVPGPNSKALPGFVLLRTCLIPLFVLCNYQPRVHLKTVVFQSDVYPALLSS  
 LLGLSNGYLSTLALLYGPKIVPRELAETGVVMSFYVCLGLTLGSACSTLLVHLI

**TR**TRPLE**QKL**ISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

## Cloning Scheme:



ACCN: NM\_001174098

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.

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

RefSeq: [NM\\_001174098.1](#), [NP\\_001167569.1](#)

RefSeq Size: 2283 bp

RefSeq ORF: 777 bp

Locus ID: 55315

UniProt ID: [Q9BZD2](#)

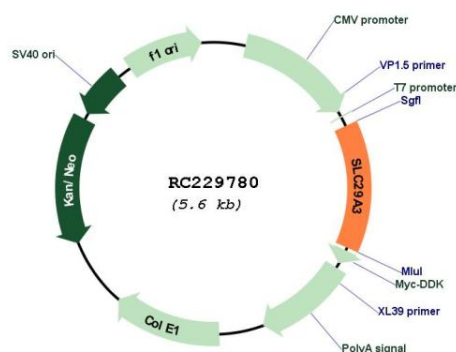
Cytogenetics: 10q22.1

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 RC229780