

## Product datasheet for **MR230024**

### Slc29a1 (NM\_001199114) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Slc29a1 (NM_001199114) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc29a1
Synonyms:	1200014D21Rik; AA407560; ENT1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>MR230024 representing NM\_001199114  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGACAACCAGTCACCAGCCTCAGGACAGGTATAAGGCAGTATGGCTTATCTTCTTTGTGCTGGCCTGG  
 GGACACTGCTCCCTGGAATTTTTTATGACCGCAACCAAGTATTCACAAACCGCTGGACGTGTCCCA  
 GAATGTGTCTCGGACACTGATCAATCATGCGAAAGCACCAAGGCCTTGCTGACCCACAGTGGCCTTG  
 CCAGCCCGGAGTTCTCTCAGTGCATCTTCAACAATGTCATGACCCTGTGTGCCATGCTGCCCTTGTGG  
 TCTTACCTGCCTCAACTCGTTTCTGCATCAGCGGATCTCTCAATCTGTTCCGGATCTTGGGCAGCCTGCT  
 GGCAATCTGCTGGTATTCCTTGTCACTGCCGCCCTGGTGAAGGTGGAGATGGATGCTCTGATCTTCTTT  
 GTCATCACCATGATCAAGATTGTGCTCATCAATTCATTTGGTCCATTTTGAAGCCAGCCTTTTGGTC  
 TGGCAGGTGTCTGCCAGCAACTACACAGCCCCATCATGAGTGGCCAGGGCCTGGCTGGCTTCTTAC  
 CTCTGTGCCATGATCTGTGCCATTGCCAGTGGTTCTGAGCTGTCAGAAAGCGCCTTTGGCTACTTCATC  
 ACAGCCTGTGCAGTTGTCAATTTGGCCATCCTGTGCTACCTGGCTCTGCCCGGACGGAATTCATCGCC  
 ATTACCTGCAGCTCAACCTTGGCGGGCCTGCAGAGCAGGAGACCAAGTTGGATCTCATAAGTAAAGGAGA  
 GGAGCCAAAAGGAAGAAGAGAGGAATCTGGGTGCCAGGCCCAACTCTCCACCCACCAAGAAACAG  
 TCTATCAAAGCCATACTTAAGAGTATCTGTGTCCCGGCTCTGTCTGTCTGCTTCTTACAGGTTACCA  
 TTGGGTTGTTCCCTGCTGTGACTGCTGAGGTGGAATCCAGCATCGCAGGCACAAGTCCCTGGAAAAGCTA  
 CTTTATCCCGTGGCCTGTTTCTGAATTTCAATGTCTTTGACTGGCTAGGCCGGAGCCTCACTGCTGTC  
 TGCATGTGGCCTGGCCAGGATAGCCGCTGGCTGCCGTTTTGGTCGCCTCGAGGATTGTGTTTATCCCC  
 TGCTGATGCTCTGCAACGTGAAGGCTCGCACTGCGGCGCGCAGCGGCACCACTTCGTCTTAAAGCATGA  
 CGCCTGGTTTATCGCCTTCAATGGCTGCCTTTGCCTTCTCAATGGCTACCTCGCCAGCCTCTGCATGTGC  
 TTCGGGCCAAGAAAGTCAAACAGCTGAGGCGGAGACAGCAGGAAACATCATGTCTTCTTTCTGTGTC  
 TGGCCTGGCTCTGGGAGCTGTGTTGCTCTTCTTGTAAAGGGCACTTGTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR230024 representing NM\_001199114  
 Red=Cloning site Green=Tags(s)

MTTSHQPQDRYKAVWLIFVVLGLGTLPLWNFFMTATKYFTNRLDVSQNVSSDQDQSCSTKALADPTVAL  
 PARSSLSAIFNVMTLCAMLPLLVTCLNSFLHQRISSQSVRILGSLLAILLVFLVTAALVKVEMDALIFF  
 VITMIKIVLINSFGAILQASLFLAGVLPANYTAPIMSGQLAGFFTSVAMICAIASGSELSAFAFGYFI  
 TACAVVILAILCYLALPRTEFYRHYLQLNLAGPAEQETKLDLISKGEEPGRREESGVPGPSPTNRNQ  
 SIKAILKSIKVPALSVCFIFTVTIGLFPVAVTAEVESSIAGTSPWKSYPVACFLNFNVDWLGRLTAV  
 CMWPGQDSRWLPVLVASRIVFIPLMLCNVKARHCGAQRHHFVFKHDAWFIAFMAAFASNGYLASLCLMC  
 FGPKKVKPAEAEETAGNIMSFFLCLGLALGAVLSFLLRALV

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

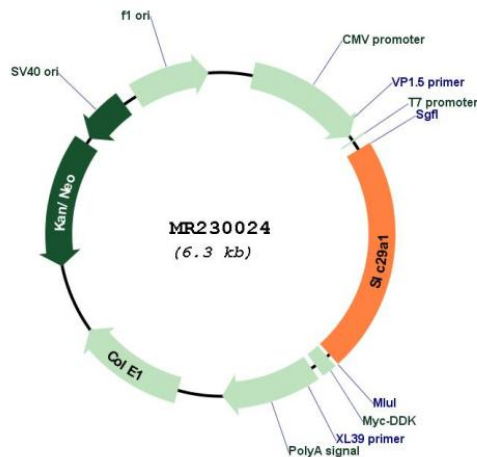
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001199114

ORF Size: 1380 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\\_001199114.2](#)

**RefSeq Size:** 1946 bp

**RefSeq ORF:** 1383 bp

**Locus ID:** 63959

**UniProt ID:** [Q9JIM1](#)

**Cytogenetics:** 17 B3- C

**MW:** 50.6 kDa

**Gene Summary:** Mediates both influx and efflux of nucleosides across the membrane (equilibrative transporter). It is sensitive (ES) to low concentrations of the inhibitor nitrobenzylmercaptapurine riboside (NBMPR) and is sodium-independent. It has a higher affinity for adenosine. Resistant to dipyridamole and dilazep inhibition (anticancer chemotherapeutics drugs).[UniProtKB/Swiss-Prot Function]