

## Product datasheet for **MR230009**

### Slc29a1 (NM\_001199115) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Slc29a1 (NM_001199115) 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:**

>MR230009 representing NM\_001199115  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGACAACCAGTCACCAGCCTCAGGACAGGTATAAGGCAGTATGGCTTATCTTCTTTGTGCTGGCCTGG  
 GGACACTGCTCCCTGGAATTTTTTATGACCGCAACCAAGTATTCACAAACCGCTGGACGTGTCCCA  
 GAATGTGTCTCGGACACTGATCAATCATGCGAAAGCACCAAGGCCTTGGCTGACCCACAGTGGCCTTG  
 CCAGCCCGGAGTTCTCTCAGTGCATCTTCAACAATGTGATGACCCCTGTGTGCCATGCTGCCCTTGTGG  
 TCTTCACCTGCCTCAACTCGTTTCTGCATCAGCGGATCTCTCAATCTGTTTCGGATCTTGGGCAGCCTGT  
 GGCAATCTGCTGGTATTCCTTGTCACTGCCGCCCTGGTGAAGGTGGAGATGGATGCTCTGATCTTCTTT  
 GTCATCACCATGATCAAGATTGTGCTCATCAATTCATTTGGTCCATTTTGAAGCCAGCCTTTTGGTC  
 TGGCAGGTGTCTGCCAGCAACTACACAGCCCCATCATGAGTGGCCAGGCCTGGCTGGCTTCTTCCAC  
 CTCTGTGCCATGATCTGTGCCATTGCCAGTGGTTCTGAGCTGTCAGAAAGCGCCTTTGGCTACTTCATC  
 ACAGCCTGTGCAGTTGTCAATTTGGCCATCCTGTGCTACCTGGCTCTGCCCTGGACGGAATTCATCGCC  
 ATTACCTGCAGCTCAACCTTGGCGGGCCTGCAGAGCAGGAGACCAAGTTGGATCTCATAAGAGAGGAGCC  
 AAAAGGAAGAAGAGAGGAATCTGGGGTGCCAGGCCCAACTCTCCACCCACCAACAGAAACCAGTCTATC  
 AAAGCCATACTTAAGAGTATCTGTGTCCCGCTGTGTCTGTCTGCTTTCATCTTACCGTTACCATTGGGT  
 TGTTCCCTGTGTGACTGCTGAGGTGGAATCCAGCATCGCAGGCACAAGTCCCTGGAAAAGCTACTTCAT  
 TCCCGTGGCCTGTTTCTGAATTTCAATGTCTTTGACTGGCTAGGCCGGAGCCTCACTGCTGTCTGCATG  
 TGGCCTGGCCAGGATAGCCGCTGGCTGCCGTTTGGTGCCTCGAGGATTGTGTTTATCCCTGCTGA  
 TGCTTGCAACGTGAAGGCTCGCCACTGCGGCGCGCAGCGCACCACTTCGTCTTTAAGCATGACGCCTG  
 GTTCATCGCCTTCATGGCTGCCTTTGCCTTCTCAATGGCTACCTCGCCAGCCTCTGCATGTGCTTCGGG  
 CCCAAGAAAGTCAAACAGCTGAGGCGGAGACAGCAGGAAACATCATGTCTTCTTTCTGTGCTGGCC  
 TGCTCTGGGAGCTGTGTGCTTCTTGTTAAGGGCACTTGTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR230009 representing NM\_001199115  
 Red=Cloning site Green=Tags(s)

MTTSHQPQDRYKAVWLIFVVLGLGTLPLWNFFMTATKYFTNRLDVSQNVSSDDQSCSTKALADPTVAL  
 PARSSLSAIFNNVMTLCAMLPVFTCLNSFLHQRISQSVRILGSLLAILLVFLVTAALVKVEMDALIFF  
 VITMIKIVLINSFGAILQASLFLGVLPAANYTAPIMSGQLAGFFTSVAMICAIASGSELSAFGYFI  
 TACAVVILAILCYLALPRTEFYRHYLQLNLAGPAEQETKLDLIREEPKGRREESGVPGPSPTNRNQSI  
 KAILKSIKVPALSVCFIFVTIIGLFPVTAEEVSSIAGTSPWKSYPVACFLNFNVDWLRSLTAVCM  
 WPGQDSRWLPVLVASRIVFIPLLMLCNVKARHCGAQRHHFVFKHDAWFI AFMAAFASNGYLASLCMCFG  
 PKKVPAEAEETAGNIMSFFLCLGLALGAVLSFLLRALV

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

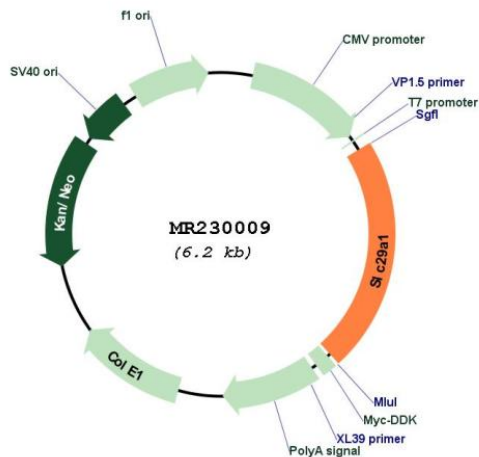
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001199115

ORF Size: 1374 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\\_001199115.2](#)

**RefSeq Size:** 2046 bp

**RefSeq ORF:** 1377 bp

**Locus ID:** 63959

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

**Cytogenetics:** 17 B3- C

**MW:** 50.5 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]