

Product datasheet for **RR216929**

Slc1a2 (NM_001302089) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc1a2 (NM_001302089) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc1a2
Synonyms:	Eaat2; Glt; Glt-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR216929 representing NM_001302089
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTCAGTGCCAACAATATGCCAAGCAGGTGGAAGTGCATGCACGACACCCACCTCAGCTCCGAGG
 AGCCAAAGCACCGAAACCTGGGCATGCGCATGTGCGACAAGCTGGGGAAGAACCTCTGCTCACTGAC
 TGTGTTTGGTGTATCCTGGGAGCAGTATGTGGCGGGCTGCTTCGCTTGGCGGCTCCCATCCACCCTGAT
 GTGGTCATGTTGATAGCCTTCCCGGGGACATCCTCATGAGGATGCTGAAGATGCTCATCTCCCTCTCA
 TCATTTCCAGTCTCATCACAGGGCTGTCAGGGCTGGATGCTAAAGCCAGCGGCCCTAGGCACGAGAGC
 CATGGTATATTACATGTCCACGACCATCATTGCCGCTGTGCTGGGGTTCATCCTGGTGTGGCCATCCAC
 CCTGGGAATCCCAAACCTAAGAAGCAGCTGGGGCTGGGAAGAAGAAGCAGAGGTGTCCAGCCTGGATG
 CCTTCTGGATCTCATTAGAAATCTTCCCGGAGAACCTGGTACAAGCCTGTTTCCAACAGATTACAGAC
 TGTGACAAAGAAAGTTCTGGTGGCACTCCATCCGAGGAGCCAAACAACAAGGCAGTCATCTCCCTG
 TTGAATGAGACCATGAATGAGGCCCTGAAGAACTAAGATCGTTATCAAGAAGGCCTGGAGTTCAAGG
 ACGGGATGAATGTCTTAGGTCTGATTGGATTCTTTATTGCTTTCGGCATTGCCATGGGGAAGATGGGTGA
 GCAGGCCAAGCTGATGGTGGAGTTCTTCAACATTCTGAACGAGATTGTCATGAAGTTAGTGATCATGATC
 ATGTGGTATTCCCGCTGGGTATCGCCTGCTTGATCTGTGGGAAGATCATCGCCATCAAGGACTTAGAAG
 TGGTTGCTAGGCAGCTGGGGATGTACATGATCACAGTATCGTGGGCCTCATTTATGGGGGCATCTT
 TCTCCCCTTGATTTACTTGTAGTGACCAGAAAAACCCATTCTCTTTTTTGTGGCATTTCCTCAAGCC
 TGGACTACTGCCCTGGGAACCGCTTCCAGTGTGGAACCTTGCCTGTACCTCCGTTCCGTTGCTTGAAGATA
 ATCTAGGGATTGACAAGCGTGTGACCAGATTCGTCCTCCAGTCGGAGCAACCATTAAACATGGATGGTAC
 AGCCCTTTACGAAGCCGTGGCAGCCATCTCATAGCCAGATGAATGGGGTCATCCTGGATGGAGGTCAG
 ATAGTGACTGTAAGCCTTACAGCAACTCTGGCAGCATTGGTGCAGCCAGTATCCAGCGCCGGTTGG
 TCACCATGCTCCTCATTCTCACAGCTGTGGCCTGCCGACAGAGGACATCAGTCTGCTGGTGGCAGTGGA
 CTGGCTGCTGGATAGAATGAGAACTTCGGTCAATGTAGTGGCGATTCTTTGGGGCTGGGATTGTCTAT
 CACCTTTCGAAGTCCGAGCTGGACACCTTACTCCCAACACCGAATGCACGAAGACATCGAAATGACCA
 AGACGCAGTCCATTTATGACGACACGAAGAACCACAGGAAAGCAACTCTAATCAGTGTGCTATGCCGC
 ACACAACCTGTGCGTAATAGATGAGTGAAGTAACTCTGGCGCCAATGGAAAGTCAGTGTACTGCAGT
 GTTGAGGAAGAACCTTGGAAACGTGAAAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR216929 representing NM_001302089
 Red=Cloning site Green=Tags(s)

MVSANNMPKQVEVRMHDShLSSEEPKhrnlGMRMCDKLGKNNLLSLTVFGVILGAVCGLLRLAAPIHPD
 VVMLIAFPDILMRMLKMLILPLIISSLIITGLSGLDAKASGRLGTRAMVYYMSTTIIAAVLGVILVLAIH
 PGNPKLKKQLGPGKKNDEVSSLDLFLDLIRNLPENLVQACFQQIQVTVTKKVLVAPPSEEANTTKAVISL
 LNETMNEAPEETKIVIKKGLFEKDG MNVGLIGFFIAFGIAMGKMGQAKLMVEFFNILNEIVMKLVIMI
 MWYSPLGIACLICGKIIAIKDLEVVARQLGMYMITVIVGLIIHGGIFLPLIYFVTRKNPFSFFAGIFQA
 WITALGTASSAGTLPVTFRCLEDNLGIDKRVTFRVLPVGATINMDGTALYEAVAIFIAQMNGVILDGGQ
 IVTVSLTATLASIGAASIPsAGLVTMLLILTAVGLPTEDISLLVAVDWLLDRMRTSVNVVGDsFGAGIVY
 HLSKSELDTIDSQHRMHEDIEMTKTQSIYDDTKNHRESNSNQCVYAAHNSVVIDECKVTLAANGKSADCS
 VEEEPWKREK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001302089

ORF Size: 1710 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_001302089.1](#), [NP_001289018.1](#)

RefSeq Size: 1817 bp

RefSeq ORF: 1713 bp

Locus ID: 29482

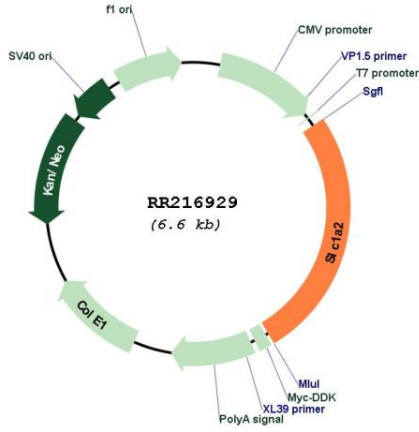
UniProt ID: [P31596](#)

Cytogenetics: 3q32

MW: 61.9 kDa

Gene Summary: mediates dihydrokainate-sensitive glutamate transport; may play a role in presynaptic terminal glutamate transport and synaptic transmission [RGD, Feb 2006]

Product images:



Circular map for RR216929