

Product datasheet for **MR208859**

Slc1a7 (NM_146255) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc1a7 (NM_146255) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc1a7
Synonyms:	A930031E15Rik; Eaat5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208859 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTGTCTGACGCTGTCTGGCTCGAGGGCGCACAGTGTGAAGCACACGGGCTGCTCATCTGTCTG
 TGCTCTGTGCATCGTGGGCTGCCTCCTTGGCTTCTTCTCAGGACCCAGCGCCTCTACCACAGGAGAT
 TAGTTACTTCCAGTTCCTGGAGAACTCTTGATGCGGATGCTGAAGATGCTGATCCTACCACTGGTGGTC
 TCCAGCTTGATGTCGGCCTTGCCTCCCTGGATGCCAAGACCTCCAGCCGCTTGGGGATCCTCACCGTGG
 CATACTACCTGTGGACTACCTTCTGGCTGTTGTTGTTGGGCATCATCATGGTCTCCATCATCCACCTGG
 TGGTGCAGCACAGAAGGAGACAACCTGAACAGAGTGAAAGCCGGTATGAGCTCAGCTGATGCCCTCTG
 GATCTTGTCCGGAACATGTTCCAGCCAACCTGGTAGAAGCCACGTTCAAACAGTACCGCACCAAGACCA
 CCCCAGTTATCAAGTCTCCAGGGGAGCAGCGGAGGAGGCTCCCCGGCGGATCGTCATCTATGGGTCCA
 GGAAGACAATGGCTCACGTGTGAGAATTTGCCCTGGATCTGACGCCCCACCTGAGATTGTCTACAAG
 TCAGAGCCTGGTACCAGTGTGGATGAACGTGCTAGGCATTGTCATCTTCTCAGCCACGATGGGTATCA
 TGCTGGGCGCATGGGTGACAGCGGGACGCCCTGGTCAGCTTCTGTCAGTGCCTTAATGAGTCTGTCAT
 GAAGATCGTGGCAGTGGCAGGGTGGTACTTTCCCTTTGGCATTGTCTTCTGATCGCTGGCAAGATCTTG
 GAGATGGATGACCCCAAGGCAGTGGGAAAAAGCTGGGCTTCTACGCCGTGACTGTGGTTTGTGGCTGG
 TGGTCCACGGTCTCCTCATCCTGCCCTACTGTACTTCTCATACCAAGAAGAACCCCATCGTCTTCAT
 CCGAGGCGTCTCCAGGCTCTGCTATTGCGTTGGCCACCTCTCCAGCTCAGCCACACTGCCATCACC
 TTCAAGTGCCTGCTGGAGAACAACCATATCGACCGCCGCATCGCTCGCTTCGTGCTGCCTGTGGCGCCA
 CCATCAACATGGATGGCACCCGCTCTACGAGGCGGTGGCTGCCATCTTATCGCCAGGTCAACAACATA
 TGAGTAGACTTTGGACAGATCATCACTATCAGCATCACGGCCACGGCAGCCAGCATTGGGGCGGCTGGC
 ATCCCCAGCGGGGCTCGTCACCATGGTCATCGTGTCTACCTCTGTGGACTGCCGACCGATGACATCA
 ACCTCATCATAGCTGTAGACTGGGCACTGGATCGCTTCCGAACCATGATTAATGTGCTGGGTGATGCACT
 GGCGGCAGGGATCATGGCCACATCTGCCGGAAGGATTTTGTCTCAGGACATGGGCACTGAGAAAATTGCTA
 CCCTGTGAGACCAAGCCAGTGCAGTGCAGGAGATCGTGGCTGCCAGCAGAATGGCTGTGTGAAGAGTG
 TGGCTGAGGCTCAGAGCTAACCTGGGCCCCACGTGCCCCACCATCCAGTCCAGGTAGAGCAGGA
 TGAGGATCCAGCCGCTGCCAGCTAGACCCTGTACTATTGAGATCAGTGAAGTGTAGAGCAACCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208859 protein sequence
 Red=Cloning site Green=Tags(s)

MVLDAVLARGRVCKHNGLLILSVLSVIVGCLLGGFFLRTQRLSPQEISYFQFPGELLMRMLKMLILPLVY
 SSLMSGLASLDAKTSSRLGILTVAYYLWTTFLAVVVGIIIMVSI IHPGAAQKETTEQSGKPMSSADALL
 DLVRNMFANLVEATFKQYRKTTPVIKSPRGAEEAPRRIVIIYGVQEDNGSRVQNFALDLTPPEIVYK
 SEPGTSDGMNVLGIVIFSATMGIMLGRMGDSGTPLVSFCQLNESVMKIVAVAGWYFPFGIVFLIAGKIL
 EMDDPKAVGKGLGFYAVTVVCGLVVHGLLILPLLYFLITKKNPIVFIKRVLQALLIALATSSSSATLPIT
 FKCLLENNHIDRRIARFVLPVGATINMDGTALYEAVAAIFIAQVNNYELDFGQIITISITATAASIGAAG
 IPQAGLVTMVIVLTSVGLPTDDINLIIAVDWALDRFRMTINVLGDALAAGIMAHICRKFADQMGTEKLL
 PCETKPVTLQEIVAAQQNGCVKSVAEASELTLGPTCPHHIPVQVEQDEDPAAASLDHCTIEISELETNV

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_146255

ORF Size: 1680 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_146255.3](#)

RefSeq Size: 3005 bp

RefSeq ORF: 1710 bp

Locus ID: 242607

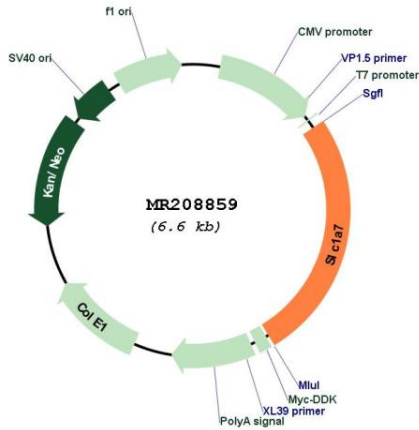
UniProt ID: [Q8JZR4](#)

Cytogenetics: 4 C7

MW: 60.1 kDa

Gene Summary: Transports L-glutamate; the L-glutamate uptake is sodium- and voltage-dependent and chloride-independent. Its associated chloride conductance may participate in visual processing (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208859