

Product datasheet for **MR207665**

Slc7a13 (NM_028746) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc7a13 (NM_028746) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc7a13
Synonyms:	0610009O04Rik; AGT-1; AGT1; XAT2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR207665 representing NM_028746
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**C

ATGGCAATGGATTCAAAGAAGGAAATCCGTCTTAAGAGAGAACTTGGATATTTCTGGGGACAACTTTT
 TAATTATTAATATAATTGGTGCAGGAATATTTGTGTCCCCAAGGGAGTGCTCCAGCACTTCCATGAA
 TGTGGAGTCTCCTTGTGTGTTTGGGCTGTCTGTGCAGTGCTGACCTTGACCACTGCTCTGCTCTGCA
 GAGATCGGGATAACCTTCCCATACAGTGGGCTCACTATTATTTTAAAGCGATGCTTCGGCCCTCTCG
 TGGCATTCTGAGGCTTTGGACTAGCTTGTCTCGGCCAGGCTTAATTGCTAGCCAAGCTCTGCTACT
 GGCTGAGTATGGCGTTCAGCCTTTTATCCAGCTGCTCTGCCCCGATTCTACCAAGAAATGTCTGGCC
 CTGGCGATGCTGTGGATTGTGGGAATTCTGAATCTCGTGGTGTAAAAGAGCTGTCATGGCTTCAGACAG
 TGAGCTCAGTGCTGAAGGTGGGCATACTCGGTGTCATTTCCCTCAGCGGCCTGTTCTTGCTGGTGAAGG
 GAAGAAGGAGAATGTACAAAGGCTTCAGAATGCGTTTGATGCCGAGTTCCAGAGGTCTCTCAGTTAATA
 GAAGCTATTTTCCAAGGATACTTTGCGTTTTCTGGCGGGGATGCTTTACATGTATAGCAGGGGAGCTGA
 AGAAACCCAGTAAACAATTCTAGATGCATCTTTACAGGACTGCCTCTGGTAACTGTCGTGTACTTACT
 GGCTAATATTTCTACCTGACAGTTCTGACACCCAGGAAATGCTCTCTTCAGATGCTGTTGCTCTTACA
 TGGACAGACAGGGTCATTTCCCAATTCACATGGACTGTTCTTTTGTATTTCTGCTTCACTGTTTATCA
 ACCTTGTGATTAATGTACTTGAGACATCAAGAGTGTTATATATTGCAAGTGAGAATGGCCAGCTGCCTTT
 GTTGTGTTTGTGCCCTGAATGTCCATTCTCTCCCTTTATAGCTGTGCTACTAATTATCAGTATGGCATCC
 ATTTAATTTGTCTTAACAAACCTAATTGATCTGATAAACTATCTCTATTTTGTGTTTCCATTTGGACTG
 CCTTATCAATAATAGGAATCTTGAAACTGAGGTACCAAGAGCCCAATCTACACAGACCATATAAGGTGTT
 TTTACCGTTACATTTCATAGCGTTGGGCATCACCTGAGCTTGGTTTTGATCCCGCTTGCAAGTCTCCA
 AAGTTGCATTATATCTATGTGTTCTCTCTCTCAGTGGGCTGGTGTGTTTACGTGCCATTGATACACT
 TTAAGTGAAGTTCGTTTGGTTTCAGAAGTTGACTTGCTATCTGCAGTTACTGTTAATATTTGCATCCC
 TGATGTGCTGATGACCACATACATGAAGAAAGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207665 representing NM_028746
 Red=Cloning site Green=Tags(s)

MAMDSKKEIRLKRELGYFWGTNFIINIIGAGIFVSPKGVLQHSSMNVGVSLSVWAVCAVLTLTSALCSA
 EIGITFPYSGAHYYFLKRCFGLVAFRLWTSFLGPGLIASQALLLAIEYGVQPFYSPSCSAPILPRKCLA
 LAMLWIVGILNSRGVKELSWLQTVSSVLKVGILGVISLSGLFLLVRGKKENVQRLQNAFDAEFPEVSQLI
 EAIFQGYFAFSGGCFTCIAGELKKPSKTIPRCIFTGLPLVTVVYLLANISYLTVLTPQEMLSDDAVALT
 WTDRIPIQFTWTPFAISASLFINLVINVLETSLVLYIASENGQLPLLFALNVHSSPFIIVLLIISMAS
 ILIVLTNLIDLINLYFVYSIWALSIIIGILKLRYPENLHRPYKVFLPFTFIALGITLSLVLIPLVKSP
 KLHIYIVFLFLLSGLVFYVPLIHFVKFVWFQKLTCYLQLLFNICIPDVSDDIHEES

TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9016_h07.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_028746

ORF Size: 1434 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_028746.3](#), [NP_083022.1](#)

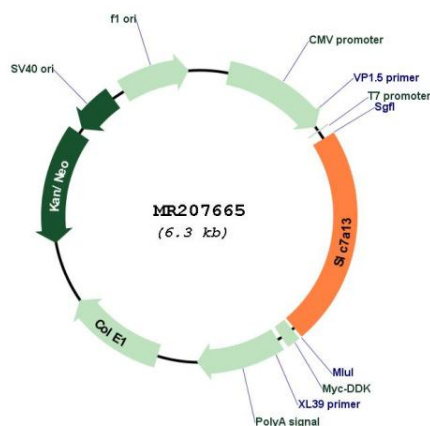
RefSeq Size: 2134 bp

RefSeq ORF: 1437 bp

Locus ID: 74087

UniProt ID: [Q91WN3](#)
Cytogenetics: 4 A3
MW: 53.7 kDa
Gene Summary: Mediates the transport L-aspartate and L-glutamate in a sodium-independent manner. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR207665