

Product datasheet for **MR208492**

Slc7a10 (NM_017394) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc7a10 (NM_017394) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc7a10
Synonyms:	AL024237; Asc-1; D7Bwg0847e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>MR208492 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGCGGGACAGCGACATGGCAAGCCACATACAACAGCCAGGCGGGCACGGGAACCCCGGCCCTGCGC
 CCTCGCCTTCCCGGGCCCTGGTCCCGGCCCGGGCGCCTCGGAGCGGGTGGCACTCAAGAAAGAGATCGG
 GCTGGTAGCGCTTGACCATCATCATCGGAACATCATTGGCTCAGGCATCTTCATCTCACCCAAGGT
 GTCCTGGAACACTCGGGCTCCGTGGGTTTGGCCCTCTTCGTCTGGGTCTGGGTGGGGCGTGACAGCTC
 TGGGCTCTCTGCTATGCAGAGCTGGGTGTCGCCATCCCAAGTCTGGTGGGACTACGCCTATGTCAC
 TGAGATCTTCGGGGCCCTGGCTGGATTCCACTGCTCTGGAGTGTCTCTCATCATGTACCCACCAGC
 CTGGCTGTCATCTCCATGACCTTCTCAACTATGTGCTTCAGCCTGTCTTCCCAACTGTATCCCCCAG
 CCACAGCCTCTCGAGTACTCTCATGGCCTGCCTGATGCTCTGACGTGGGTGAACAGCTCCAGCGTACG
 CTGGGCCACGCGCATCCAGGTTATCTTACTGGTGGGAAGCTGCTGGCGTGTCTCTCATCATCACTGTT
 GGCTTTGTCCAGATCTTCCAAGGACACTTTGAAGAGCTGAGACCCACCAATGCCTTCGCCTTCTGGATGA
 CACCGTCTGTGGGTACCTGGCCCTGGCTTTCCTCCAAGGTTCTTTGCCTTCAGTGGCTGGAACCTCCT
 CAACTATGTCACGGAGGAGCTGGTTGACCCACGCAAGAACCTACCTCGTGCCATCTTCATTTCCATCCCA
 CTGGTCACCTTTGTGTACACATTCACCAATGTCGCCTACTTCACTGCCATGTCCCCCAGGAGTTGCTGT
 CCTCCAACGCCGTGGCGGTGACCTTCGGCGAGAAGCTGCTGGGCTACTTTTCGTGGGTGATGCCCGTCTC
 TGTGGCCCTCTACTTTTGGAGGGATCAATGGCTACCTGTTACCTCATCCAGGCTATGCTTCTCTGGA
 GCCCGAGAGGGACACTTACCCAGCTTCTGGCCATGATTCATGTGACAGCTGCACCCCAATCCCTGCCC
 TCCTTGTCTGTTGCGGGCCACAGCGGTATCATGCTCGTGGGTGACACATACAACTCATCAACTATGT
 GTCCTTCACTCAACTACCTCTGCTACGGAGTCACTATCCTGGGCCTGCTTGTGCTGCGCTGGAGACGGCCG
 GCACTCCACAGGCCCATTAAGGTGAACCTCCTCGTTCCTGTTGTGTACTTGGTGTCTGGCATTCTAC
 TGGTCTTCAGCTTCATCTCGGAGCCCATGGTCTGTGGGTGGCATCATCATTATCCTCACTGGGTTCC
 CATCTTCTCTGGGAGTGTCTGGAGAAGCAACCAAGTGTGTACACAGATTCACAGAGTCCATGACA
 CGCTGGGGCCAGGAGCTGTGTTTCGTGGTTTACCCCCAGGGCTCCCTAGAGGAGGAGGAAAATGGCCCCA
 TGGGCCAGCCCTCCCCATTGCCCATCACGACAAGCCCTGAAGACACAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208492 protein sequence
 Red=Cloning site Green=Tags(s)

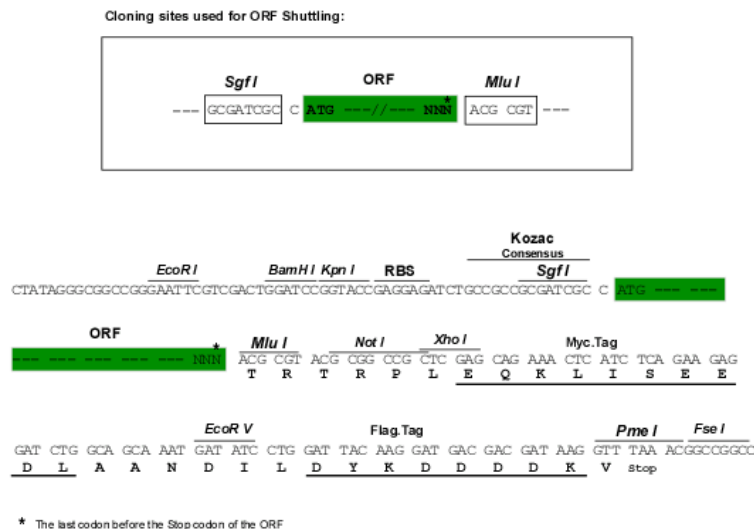
MRRDSDMASHIQPGGHGPNPAPSPSPGPGPGASERVALKKEIGLVSACTIIIGNIIGSGFISPKG
 VLEHSGSVGLALFVWVLGGVLTALGSLCYAELGVAIPKSGGDYAYVTEIFGGLAGFLLLWSAVLIMYPTS
 LAVISMFTFSNYVLQPVFPNCIPPATASRVLSMACLMLLTWVNSSSVRWATRIQVIFTGGKLLALSLIITV
 GFVQIFQGHFEELRPTNAFAFWMTPSVGHLLAFLQGSFAFSGWNFLNYVTEELVDPRKNLPRAIFISIP
 LVTFVYFTFNVAFTAMSPQELLSSNAVAFTGEKLLGYFSWMPVSVALSTFGGINGYLFSSRLCFSG
 AREGHLPSFLAMIHVRRCTPIPALVCCGATAVIMLVGDTYTLINYSFINYL CYGVITLGLLVLRWRRP
 ALHRPIKVNLLVPVVYLVFWAFLLVFSFISEPMVCGVGIIILTGVP IFFLVGVFWRSPKPCVHRFTESMT
 RWGQELCFVVYPQGSLEEEENGPMGQPSPLPITDKPLKTQ

TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_017394

ORF Size: 1590 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

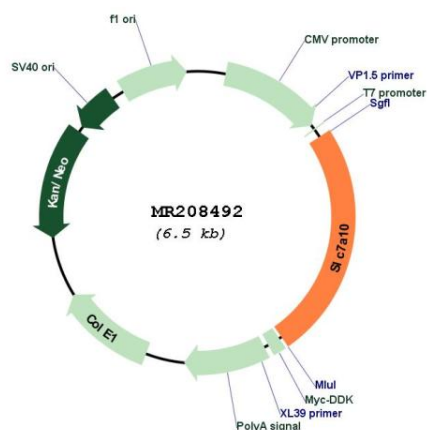
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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_017394.4
RefSeq Size:	1967 bp
RefSeq ORF:	1593 bp
Locus ID:	53896
UniProt ID:	P63115
Cytogenetics:	7 21.13 cM
MW:	57.5 kDa
Gene Summary:	Sodium-independent, high affinity transport of small neutral D- and L-amino acids and amino acid-related compounds. May play a role in the modulation of glutamatergic transmission through mobilization of D-serine at the glutamatergic synapse.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208492