

Product datasheet for **MG210144**

Slc28a3 (NM_022317) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc28a3 (NM_022317) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Slc28a3
Synonyms:	Cnt3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>MG210144 representing NM_022317
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCCAGGGCAGACCCGGGAAAGAATTCAGGCCAGTGAGAGCAAGATGAGCCTGGAGCTGAGGCCAA
CAGCCCCAGCGACCTGGGCCGAGCAATGAAGCCTTTCAGGATGAAGACCTTGAACGGCAGAACACTCC
AGGAAACAGCACAGTCAGGAACAGAGTTGTACAAAGCGGGGAACAGGACACGCCAAACAGGACGACAGG
CAGATCACGATTGAACAGGAGCCTCTAGGAAACAAAGAAGACCCAGAGGATGATAGCGAAGATGAGCATC
AGAAAGGGTTCTTGGAGAGGAAGTATGATACAATTTGTGAGTTTTGTAGAAAGCACAGAGTTGTTCTCCG
AAGCACCATCTGGGCCGTTTTACTGACAGGTTTCTGGCCCTGGTATTGCAGCCTGTGCGATAAGCTTC
CACAGAGCCCTTCTCTTTTTGTGATCACCTTGGTGACCATCTTCTTGTGATCTGGGATCACTTGTAGG
CCAAATATGAACAGCGAATAGATGATTTCTGTCTCTGGCAGAAAGGCTTCTCGACAGGCATTGGTTCTG
GCTGAAATGGGTGGTCTGGAGTTCATTGATCCTGGCGATTATTCTGGCTGTCTTTGACTGCCAAA
CTGGGCCAACAAAACCTGGTATCCTTTGGCGGACTCATCATGTACCTTATCCTGTTATTTCTGTTTTCCA
AACATCCCACCAGAGTTTACTGGAGGCCTGTCTTTGGGGAATTGGACTACAGTTTCTTCTTGGGCTCTT
AATTCTAAGAACTAGGCCTGGATTTGTTGCTTTTATTGGATGGGAGACAAGTTTCAGACTTTCTGGGG
TACACTGATACTGGAGCCAGGTTTGTCTTTGGGAAAAGTATACAGACCCTTCTTTCATTTAAGATCC
TGCCCATCGTGGTTTTCTTCAGCACTGTGATGTCTATGCTTTACTATCTGGGGCTGATGCAGTGGATCAT
CAGAAAGTCCGGTGGCTAATGCTTGTACAGATGGGGTTCATCTCCATTGAGTCTGTAGTTGCTGCTGGC
AACATATTTATTGGGCAAACAGAGTCTCCACTACTGGTCCAACCATATTTACCACAGTCACCAAGTCGG
AACTCCATACCATGACAGCTGGCTTTGCCACGATTGCTGGAAGTGTATTGGGCGCATATATCTCTTT
TGGGGTGTGTCACGCATTTGCTAACTGCTTCGGTTCATGTCTGCGCCTGCAGCCCTGGCTGTGGCCAAA
CTCTTTTGGCCTGAGACAGAGAAACCCAAAATAACCCTCAAGAGTGCCATGAAGATGGAAAATGGTGATT
CAAGGAATCTCCTGGAGGCAGCCTCTCAGGGCGCATCCTCGTCCATCCCTCTGGTGGCAAACATTGCTGC
GAATCTGATCGCCTTCTGGCCTTGCTCTCTTTGTGAACCTGTCCTTGTGTTTGGGAAAGCATGTTT
AACTACCAGAGCTGAGTTTTGAGCTCATTGTTCTACATCTTCATGCCCTTCTTTTCATGATGGGAG
TCGACTGGCAAGACAGCTTTATGGTCGCCAAACTCATAGGTTACAAGACATTCTCAATGAATTTGTGGC
TTATGACCACCTCTCAAATTAATCAATTTGAGGAAAGCGGCTGGACCTAAATTTGTGAATGGCGTGCAG
CAATATATGTCAATTCGCTCTGAGACCATCGCAACCTATGCCCTCTGTGGTTTTGCAATTTTGGTTCCC
TAGGAATCGTGATCGGTGGACTTACATCCATAGCACCATCCAGAAAACGAGACATCGCCTCTGGAGCCAT
GAGAGCCCTGATTGCTGGCACCATTGCCTGCTTATGACAGCCTGCATCGCAGGCATCCTCTGATACC
CCGGTGGATATCAACTGCCATCAGTTCAGAGAACGGCAGAGTACTCAGCAACACAACCGAAGTGGTGT
CTTGTGGCAAAAATCTGTTCAACAGCACTGTTGCCAGGGGACCAATGACGTCGTCAGGAGGAAACTT
CAGCCTATGCTTTGAAGAGCTGCTGCAACCTGCTGAAACCACCAACGCTGAACCTGCGATTGGATCCCT
AATAAATTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG210144 representing NM_022317
 Red=Cloning site Green=Tags(s)

MSRADPGKNSEPSSEKMSLELRPTAPSDLGRSNEAFQDEDLERQNTPGNSTVRNRVVQSGEQGHAKQDDR
 QITIEQEPLGNKEDPEDDSEDEHQKGFLEKRYDTICEFCRKHVVLRSTIWAULLTGFLALVIAACAISF
 HRALPLFVITLVITFFVIWDHLMAYEQRIDDFLSPGRRLLDRHFWLKWVWSSLLILAILWLSLDTAK
 LGQQNLVSFGGLIMYLILLFLFSKHPTRVYWRPVFWGIGLQFLGLLILRTRPGFVAFDWMGRQVQTFLLG
 YTDTGARFVFGKEYTDHFFAFKILPIVVFVSTVMSMLYYLGLMQWIIIRKVGWMLVMTGSSPIESVVAAG
 NIFIGQTESPLLQPYLPHVTKSELHTIMTAGFATIAGSVLGAYISFGVSSTHLLTASVMSAPAALAVAK
 LFWPETEKPKITLKSAMKMENGDSRNLLAASQGASSIPLVANIAANLIAFLALLSFVNSALSFWGSMF
 NYPELSFELICSYIFMPFSFMMGVWDQDSFMVAKLIGYKTFNEFVAYDHL SKLINRKAAGPKFVNGVQ
 QYMSIRSETIATYALCGFANFGSLGIVIGGLT SIAPSRKRDIASGAMRALIAGTIACFMTACIAGILSDT
 PVDINCHHVLENGRVL SNTTEVVSCQNL FNSTVARGPNDVVPGGNFSLYALKSCCNLLKPPTLNCDWIP
 NKL

TRTRPLE - GFP Tag - V

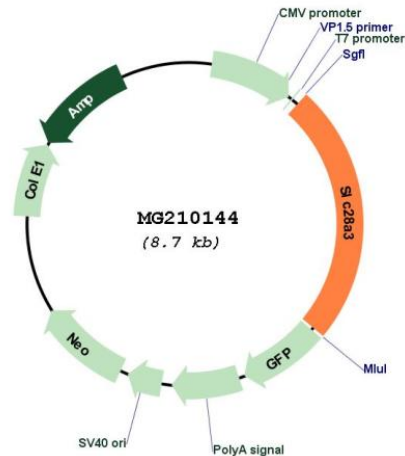
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_022317

ORF Size: 2109 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_022317.2](#)

RefSeq Size: 4565 bp

RefSeq ORF: 2112 bp

Locus ID: 114304

UniProt ID: [Q9ERH8](#)

Cytogenetics: 13 B1

Gene Summary: Sodium-dependent, pyrimidine- and purine-selective. Involved in the homeostasis of endogenous nucleosides. Exhibits the transport characteristics of the nucleoside transport system cib or N3 subtype (N3/cib) (with marked transport of both thymidine and inosine). Employs a 2:1 sodium/nucleoside ratio. Also able to transport gemcitabine, 3'-azido-3'-deoxythymidine (AZT), ribavirin and 3-deazauridine (By similarity).[UniProtKB/Swiss-Prot Function]