

Product datasheet for **MG208033**

Slc24a5 (BC094232) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|-------------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | Slc24a5 (BC094232) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Slc24a5 |
| Synonyms: | NCX5, JSX |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



[View online »](#)

ORF Nucleotide Sequence:

>MG208033 representing BC094232
 Red=Cloning site Blue=ORF Green=Tags(s)
 TTTTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCGGACAAAATGGGGCCAACTTGGACAAGGAGGGTCTGCTGCTGGGATCTTTTGGTCTCTGCAT
 ACCTGCCTGTCCGTGGTGTCTCCCTGCCCCGCGCCTCCAAGGGCCACAGGAAACAGCACGCAATGTGC
 TGTCTCTCCAGCATCGGAGTTTCCCGAAGGGTTCTTACCAAGCAGGAGAGCACGGATGGAGGTATCGTA
 ATCTACTTCTCATTATCCTCTACATGTGCATGGCCATCTCCATCGTCTGCGACAAGTACTTCTTGCCT
 CCCTGGAAATCATCAGTGACTCCCTTGGACTGTGCGAGGATGTTGCAGGTGCAACTTTCATGGCAGCTGG
 TAGCTCCGCCCTGAACTAGTTACCGCCTTCTGGGTGATTTATCACAAAGGGAGATATTGGTATCAGC
 ACCATACTAGGATCTGCAATTTATAATCTCCTCGGCATCTGTGCTGCCTGCGGCCTCTGTCCAACATGG
 TTTCAACTCTCCTGCTGGCCCTCTCCGAGACTGTGCAAGTATGCAGTTAGTGTAGGAGCAGTTTT
 TGGCATAAATTTGACAACCGAATTTACTGGTACGAAGGAGCAGGGCTGCTACTGATATATGGGCTCTAT
 GTTCTGCTGCTGTGTTTTGACACCACGATCAGCCGGCATGTCATGAAAACATGCAGTCCCTGTTGTCCCT
 GCCTTGCCAGAGCTATGGAGGAGAGAATTGAACAGCAGACACTGTTGGGATGGGAGGATGAGAGCCAGCT
 CTTCAATCGTCGCCAGTCAAGGACAGACAGTGGAAATTTTCCAGGAAGATTCGGTTACTCCCAACTTTCT
 CTAAGCTTGCAATGGTCTTAGTCAAGTCTTGAAGTCCACCAAGTGTTCAGCATGCCAGAAGCAGACT
 TAAGAAGAATTTTTGGGTTCTCTCTCTCCTATTATTACACTTGTCTGACAACACCAGACTGCAG
 GAGAAAGTTTTGGAAAAATTTACTTTGTGATAACCTTTTCATGTCTGCACTATGGATATCTGCATTACA
 TACATCTAGTTTGGATGGTACAGTAAACAGGGGAAACACTAGGGATCCCAGACACAGTATGGCCCTTA
 CTTTGTGGCAGCAGGGACAAGCATAACAGTACAGTACAGTACAGTGTGTTAGTTGCAAGAAAAGGTAAGG
 AGACATGGCTATATCTAACATCGTGGGATCCAATGTGTTGATATGCTATGCCTAGGCTCTCCCTGGTTT
 ATTAAGACTGCATTTACGAATGCATCTGCTCCTATAGAAGTGAATAGCAAGGGACTCACATATAACAA
 TCTCTCTCAACATTTCAATTTTATTCTGTTCTTAGCAGTTTCAATTTAATGGCTGGAAAAGTAGACCGAAA
 GTTGGGGTGGTCTGCCTAGTGTATACTTAGGACTTGTACTTTATCAGTTCTATGAAATTGGAATT
 ATTGAAATAATAGAATAAGGGTTGTGGAGTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG208033 representing BC094232
 Red=Cloning site Green=Tags(s)
 MRTKWGPTWTRRVLGIFWVSAYLPVRGVSPPRLPRATGNSTQCAVSPASEFPEGFFTKQESTDGGIV
 IYFLIILYMCMAISIVCDKYFLPSLEIISDSLGLSQDVAGATFMAAGSSAPELVTAFLGVFITKGDIGIS
 TILGSAIYNLLGICAAACGLLSNMVSTLSCWPLFRDCAVYAVSVGAVFGIIFDNRIWYEGAGLLIYGLY
 VLLLCFDFTISRHMKTCSPCCPLARAMEERIEQQTLGWEDESQLFIRRQSRDTSQIFQEDSGYSQLS
 LSLHGLSQVSEDPPSVFSMPEADLRRIFWVLSLPIITLLALTPDCRRKFWKNYFVITFFMSALWISAFT
 YILVMMVTVTGETLGIPDVTMGLTLAAGTSIPDVTSVLVARKGKGDMAISNIVGSNVFDMLCLGLPWF
 IKTAFTNASAPIEVNSKGLTYITISLNLISILFLAVHFNWKLDRKLGVVCLVLYLGLATLSVLVEIGI
 IGNNRIRGCGV

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: BC094232

ORF Size: 1505 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: [BC094232](#), [AAH94232](#)

RefSeq Size: 1882 bp

RefSeq ORF: 1505 bp

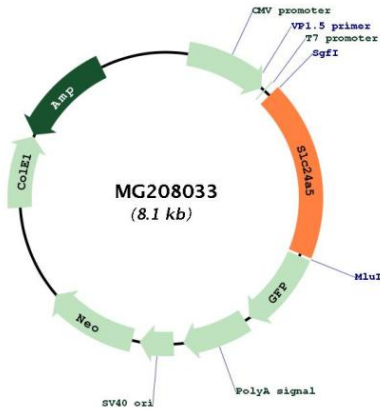
Locus ID: 317750

Cytogenetics: 2 F1

Gene Summary:

Cation exchanger involved in pigmentation, possibly by participating in ion transport in melanosomes. Predominant sodium-Calcium exchanger in melanocytes. Probably transports 1 Ca(2+) and 1 K(+) to the melanosome in exchange for 4 cytoplasmic Na(+) (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG208033