

Product datasheet for **MR208033**

Slc24a5 (NM_175034) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc24a5 (NM_175034) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc24a5
Synonyms:	F630045L20Rik; JSX; NCKX5; NCX5; Oca6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208033 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCGGACAAAATGGGGCCCAACTTGGACAAGGAGGGTCTGCTGCTGGGGATCTTTTGGGTCTCTGCAT
 ACCTGCCTGTCCGTGGTGTCTCCCTGCCCCGCGCCTCCCAAGGGCCACAGGAAACAGCACGCAATGTGC
 TGTCTCTCCAGCATCGGAGTTTCCCGAAGGGTTCTTACCAAGCAGGAGAGCACGGATGGAGGTATCGTA
 ATCTACTTCTCATTATCCTCTACATGTGCATGGCCATCTCCATCGTCTGCGACAAGTACTTCTTGCCT
 CCCTGGAAATCATCAGTGACTCCCTTGGACTGTGCGAGGATGTTGCAGGTGCAACTTTCATGGCAGCTGG
 TAGCTCCGCCCTGAACTAGTTACCGCCTTCTGGGTGATTTATCACAAAGGGAGATATTGGTATCAGC
 ACCATACTAGGATCTGCAATTTAATCTCCTCGGCATCTGTGCTGCCTGCGGCCCTCTGTCCAACATGG
 TTTCAACTCTCCTGCTGGCCCTCTCCGAGACTGTGCAAGTATGCAGTTAGTGTAGGAGCAGTTTT
 TGGCATAAATTTGACAACCGAATTTACTGGTACGAAGGAGCAGGGCTGCTACTGATATATGGGCTCTAT
 GTTCTGCTGCTGTGTTTTGACACCACGATCAGCCGGCATGTCATGAAAACATGCAGTCCCTGTTGTCCCT
 GCCTTGCCAGAGCTATGGAGGAGAGAATTGAACAGCAGACACTGTTGGGATGGGAGGATGAGAGCCAGCT
 CTTCAATCGTCGCCAGTCAAGGACAGACAGTGGAAATTTTCCAGGAAGATTCGGTTACTCCCAACTTTCT
 CTAAGCTTGCAATGGTCTTAGTCAGGTTTCTGAAGATCCACCAAGTGTTCAGCATGCCAGAAGCAGACT
 TAAGAAGAATTTTTGGGTTCTCTCTCTCCTATTATTACACTTGTCTGACAACACCAGACTGCAG
 GAGAAAGTTTTGGAAAAATTTACTTTGTGATAACCTTTTCATGTCTGCACTATGGATATCTGCATTACACA
 TACATCTAGTTTGGATGGTACAGTAAACAGGGGAAACTAGGGATCCCAGACACAGTATGGGCTTA
 CTTTGTGGCAGCAGGGACAAGCATAACAGTACAGTACAGTACAGTGTGTTAGTTGCAAGAAAAGGTAAGG
 AGACATGGCTATATCTAACATCGTGGGATCCAATGTGTTTGATATGCTATGCCTAGGTCTTCCCTGGTTT
 ATTAAGACTGCATTTACGAATGCATCTGCTCCTATAGAAGTGAATAGCAAGGGACTCACATATATAACAA
 TCTCTCAACATTTCAATTTTATTCTGTTCTTAGCAGTTCAATTTAATGGCTGGAAACTAGACCGAAA
 GTTGGGGTGGTCTGCCTAGTGTATACTTAGGACTTGTACTTTATCAGTTCTATGAAATTGGAATT
 ATTGAAATAATAGAATAAGGGTTGTGGAGTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208033 protein sequence
 Red=Cloning site Green=Tags(s)

MRTKWGPTWTRRVLLLGIFWVSAYLPVRGVSLPPRLPRATGNSTQCAVSPASEFPEGFFTKQESTDGGIV
 IYFLIILYMCMAISIVCDKYFLPSLEIISDSLGLSQDVAGATFMAAGSSAPELVTAFLGVFITKGDIGIS
 TILGSAIYNLLGICAACGLLSNMVSTLSCWPLFRDCAVYAVSVGAVFGIIFDNRIYWYEGAGLLLIYGLY
 VLLLCFDTTISRHMKTCSPPCLARAMEERIEQQTLLGWEDESQFIRRQSRDTSIGFQEDSGYSQLS
 LSLHGLSQVSEDPSPVFSMPEADLRRIFWLSLPIITLLALTPDCRRKFWKNYFVITFFMSALWISAFT
 YILVWMVTVTGETLGIPDVMGLTLAAGTSIPDVTSVLVARKGKGDMAISNIVGSNVFMDLCLGLPWF
 IKTAFTNASAPIEVNSKGLTYITISLNIISILFLFLAVHFNGWKLDRKLGVVCLVLYLGLATLSVLYEIGI
 IGNNRIRGCGV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



- ACCN: NM_175034
- ORF Size: 1506 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_175034.3](#), [NP_778199.2](#)
- RefSeq Size: 1951 bp
- RefSeq ORF: 1506 bp
- Locus ID: 317750

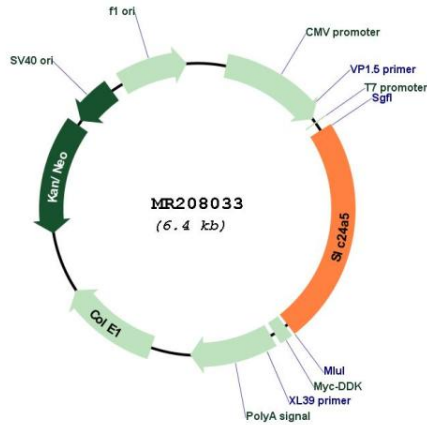
UniProt ID: Q8C261

Cytogenetics: 2 F1

MW: 55 kDa

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 MR208033