

Product datasheet for **MC216942**

Slc24a5 (NM_175034) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc24a5 (NM_175034) Mouse Untagged Clone
Tag:	Tag Free
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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Fully Sequenced ORF: >MC216942 representing NM_175034
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCGGACAAAATGGGGCCCACTTGGACAAGGAGGGTCTGCTGCTGGGATCTTTTGGTCTCTGCAT
 ACCTGCCTGTCCGTGGTGTCTCCCTGCCCCGCGCCTCCCAAGGGCCACAGGAAACAGCAGCAATGTGC
 TGTCTCTCCAGCATCGGAGTTTCCCGAAGGGTTCTTACCAAGCAGGAGAGCAGGATGGAGGTATCGTA
 ATCTACTTCTCATTATCCTCTACATGTGCATGGCCATCTCCATCGTCTGCGACAAGTACTTCTTGCCT
 CCCTGGAAATCATCAGTGACTCCCTTGGACTGTGCGAGGATGTTGCAAGTGAACCTTTCATGGCAGCTGG
 TAGCTCCGCCCTGAACTAGTTACCGCCTTCTGGGTGATTTATCACAAGGGAGATATTGGTATCAGC
 ACCATACTAGGATCTGCAATTTATAATCTCCTCGGCATCTGTGCTGCCTGCGGCCTCTGTCCAACATGG
 TTTCAACTCTCCTGTGGCCCTCTCCGAGACTGTGCAAGTATGCAGTTAGTGTAGGAGCAGTTTT
 TGGCATAAATTTGACAACCGAATTTACTGGTACGAAGGAGCAGGGCTGCTACTGATATATGGGCTCTAT
 GTTCTGTGCTGTGTTTTGACACCACGATCAGCCGGCATGTCATGAAAACATGCAGTCCCTGTTGTCCCT
 GCCTTGCCAGAGCTATGGAGGAGAGAATTGAACAGCAGACTGTTGGGATGGGAGGATGAGAGCCAGCT
 CTTCAATCGTCGCCAGTCAAGGACAGACAGTGGAAATTTTCCAGGAAGATTCGGTTACTCCCACTTTCT
 CTAAGCTTGCAATGGTCTTAGTCAGGTTTCTGAAGATCCACCAAGTGTTCAGCATGCCAGAAGCAGACT
 TAAGAAGAATTTTTGGGTTCTCTCTCCTATTATTACACTTGTCTGACAACACCAGACTGCAG
 GAGAAAGTTTTGGAAAATTTACTTTGTGATAACCTTTTCATGTCTGCACTATGGATATCTGCATTACACA
 TACATCTAGTTTGGATGGTACAGTAAACAGGGGAAACACTAGGGATCCAGACACAGTATGGGCTTA
 CTTTGTGGCAGCAGGGACAAGCATAACAGTACAGTACAGTACAGTGTGTTAGTTGCAAGAAAAGGTAAGG
 AGACATGGCTATATCTAACATCGTGGGATCCAATGTGTTGATATGCTATGCCTAGGTCTCCCTGGTTT
 ATTAAGACTGCATTTACGAATGCATCTGCTCCTATAGAAGTGAATAGCAAGGGACTCACATATATAACAA
 TCTCTCAACATTTCAATTTTATTCTGTTCTTAGCAGTTCAATTTAATGGCTGGAAAAGTACAGCGAAA
 GTTGGGGTGGTCTGCCTAGTGTATACTTAGGACTTGTACTTTATCAGTTCTATGAAATTGGAATT
 ATTGAAATAATAGAATAAGGGTTGTGGAGTT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_175034
- Insert Size:** 1506 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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_175034.3](#), [NP_778199.2](#)

RefSeq Size: 1951 bp

RefSeq ORF: 1506 bp

Locus ID: 317750

UniProt ID: [Q8C261](#)

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]