

Product datasheet for **MC219662**

Slc24a4 (NM_172152) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc24a4 (NM_172152) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Slc24a4
Synonyms:	A930002M03Rik; AW492432; NCKX4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC219662 representing NM_172152
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTGCCGAGCAAGTTGGCTTCGTGTGCGCTGTGCTGGCCCTGGTGTGCTGTGCCTCCGGCCTCTTTG
 GAAGCTTGGGCCACAAAACAGCTTCTGCTGGCAAACATGTTCTGCTGGACACGTGGCGAAATAGAAAATT
 GATGGACCAATCAATGGGACTCCGCTGGCTAAGAACTGCACAGATCCTGCGATTCACGAGTCCCCACA
 GACCTGTTCTCCAACAAAGAACGACAGCAGCGCGCTGTCTGCTACACATCCTTGGTGTCTCTATATGT
 TCTATGCCCTGGCCATCGTGTGCGATGACTTCTTTGTTCCATCCCTAGAGAAGATCTGTGAGAACTTCA
 TCTGAGTGAAGATGTGGCAGGTGCCACCTTCATGGCTGCAGGAAGCTCGACACCAGAGCTGTTTGTCTCT
 GTCATTGGTGTGTTTCATACCCACGGAGATGTCGGTGTAGGAACGATTGTGGGCTCTGCTGTGTTCAACA
 TCCTATGTATCATTGGAGTGTGGACTCTTTGCTGGACAGGTGGTGGGTTGACGTGGTGGGCTGTGTG
 CCGTGACTCTGTGACTACACGCTCTCTGTGCTCATTGTGCTCATTGGTTTCATATACGATGAGGAAATTGTG
 TGGTGGGAAGGCCTGGTGTCTATCATCCTGTACGTGTTTTATATTCTTATCATGAAGTACAATATGAAGA
 TGCAGACATTTTTCAACCAAAACAAAAGAGCATTGCAAATGGTAACCCGGTCAGCAACGAGCTGGAAGA
 TGGTAATGACCTCTATGATGGTAGCTATGACGACCCTTCTGTGCCATTGCTGGGGCAAGTGAAGGAGAAA
 CCTCCCTATGGCAAAACCCCGTGGTTATGGTGGATGAGATTCTCAGCTCTAGCCCTCCCAAGTTACCT
 TCCCTGAGGCTGGCCTGCGCATCATGATCACCAACAAGTTGGGCCAGGACTCGACTACGGATGGCCAG
 CAGGATCATAATTAATGAACGACAGAGTTGATCAACTCAGCCAAATGGTGTAAACAGCAAGCCACTGCAA
 AACGGGAGACATGAGAACATGGAGAAATGGAAATGTTCTGTGGAGAACCCTGAAGACCCACAGCAAGGCC
 AGGAGCAGCAGCCGACCACACAGCCACCACCCAGAGCCAGAGTCAGTAGAGACAGTCTTCTGTCAACC
 CTTCTCAATGCCTGAGGCAAAAGGCGACAAGGCTAAGTGGGTGTTACGTGGCCCTCATCTTCTCCTCTG
 TGTGTACCATCCCCAACTGCAGCAAGCCCGCTGGGAGAAGTTCTTCATGGTCACTTCATCACGGCCA
 CTCTGTGGATTGCCGTGTTCTCCTACCTCATGGTGTGGCTGGTACTATTATTGGATACACACTGGGAT
 CCCCAGTGTATCATGGGCATCACCTTCTGGCGCAGGCACAAGTGTCCAGACTGCATGGCAAGCTTA
 ATTGTGGCAAGACAAGGTCTTGGAGACATGGCAGTCTCTAACCCATCGGAAGCAACGTGTTTGATATCC
 TGGTGGGGCTTGGCATCCCGTGGGGCTGCAGACCATGGTTATTAATTATGGATCCACAGTGAAGATCAA
 CAGCCGGGTCTGGTCTATTCCGTGGTGTGCTGCTGGGCTCTGCTGCTCTCACTGCTCTTGGTATTAC
 CTAACAATGGCGCCTGGACCGAAACTGGGCATCTACGTGCTGGTCTCTATGCTGTCTTCTGTGCT
 TCTCCATAATGATAGAGTTAATGTCTTACCTCGTCAACTGCCATGTGCAGAGAAGACGAC**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_172152
- Insert Size:** 1818 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_172152.2](#), [NP_742164.1](#)

RefSeq Size: 2092 bp

RefSeq ORF: 1818 bp

Locus ID: 238384

UniProt ID: [Q8CGQ8](#)

Cytogenetics: 12 E

Gene Summary: Transports 1 Ca²⁺ and 1 K⁺ in exchange for 4 Na⁺. Controls the rapid response termination and proper regulation of adaptation in olfactory sensory neurons (OSNs) which subsequently influences how odor information is encoded and perceived. May play a role in calcium transport during amelogenesis.[UniProtKB/Swiss-Prot Function]