

## Product datasheet for **MR223177**

### Slc24a4 (NM\_172152) Mouse Tagged ORF Clone

#### Product data:

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



[View online »](#)

**ORF Nucleotide Sequence:**

>MR223177 representing NM\_172152  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCTGCCGAGCAAGTTGGCTTCGTGTGCGCTGTGCTGGCCCTGGTGTGCTGTGCCTCCGGCCTCTTTG  
 GAAGCTTGGGCCACAAAACAGCTTCTGCTGGCAAACATGTTCTGCTGGACACGTGGCGAAATAGAAAATT  
 GATGGACCAATCAATGGGACTCCGCTGGCTAAGAACTGCACAGATCCTGCGATTCACGAGTCCCCACA  
 GACCTGTTCTCCAACAAAGAACGACAGCAGCGCGCTGTCTGCTACACATCCTTGGTGTCTCTATATGT  
 TCTATGCCCTGGCCATCGTGTGCGATGACTTCTTTGTTCCATCCCTAGAGAAGATCTGTGAGAACTTCA  
 TCTGAGTGAAGATGTGGCAGGTGCCACCTTCATGGCTGCAGGAAGCTCGACACCAGAGCTGTTTGTCTCT  
 GTCATTGGTGTGTTTCATACCCACGGAGATGTCGGTGTAGGAACGATTGTGGGCTCTGCTGTGTTCAACA  
 TCCTATGTATCATTGGAGTGTGTGGACTCTTTGCTGGACAGGTGGTGGGTTGACGTGGTGGGCTGTGTG  
 CCGTGACTCTGTGTACTACACGCTCTCTGTCTATTGTGCTCATTGGTTTCATATACGATGAGGAAATTGTG  
 TGGTGGGAAGGCCTGGTGTCTATCATCCTGTACGTGTTTTATATTCTTATCATGAAGTACAATATGAAGA  
 TGCAGACATTTTTCAACCAAAACAAAAGAGCATTGCAAATGGTAACCCGGTCAGCAACGAGCTGGAAGA  
 TGGTAATGACCTCTATGATGGTAGCTATGACGACCCCTTCTGTGCCATTGCTGGGGCAAGTGAAGGAGAAA  
 CCTCCCTATGGCAAAACCCCGTGGTTATGGTGGATGAGATTCTCAGCTCTAGCCCTCCCAAGTTCACCT  
 TCCCTGAGGCTGGCCTGCGCATCATGATACCAACAAGTTGGGCCAGGACTCGACTACGGATGGCCAG  
 CAGGATCATAATTAATGAACGACAGAGTTGATCAACTCAGCCAAATGGTGTAAACAGCAAGCCACTGCAA  
 AACGGGAGACATGAGAACATGGAGAATGGAAATGTTCTGTGGAGAACCCTGAAGACCCACAGCAAGGCC  
 AGGAGCAGCAGCCGCCACCACAGCCACCCACCCAGAGCCAGAGTCAGTAGAGACAGTCTTCTGTACC  
 CTTCTCAATGCCTGAGGCAAAAAGGCGACAAGGCTAAGTGGGTGTTACGTGGCCCTCATCTTCTCCTCTG  
 TGTGTACCATCCCAACTGCAGCAAGCCCGCTGGGAGAAGTCTTTCATGGTACCTTCATCACGGCCA  
 CTCTGTGGATTGCCGTGTTCTCCTACCTCATGGTGTGGCTGGTACTATTATTGGATACACACTGGGAT  
 CCCCAGTGTATCATGGGCATCACCTTCTGGCGCAGGCACAAGTGTCCAGACTGCATGGCAAGCTTA  
 ATTGTGGCAAGACAAGGTCTTGGAGACATGGCAGTCTCTAACCCATCGGAAGCAACGTGTTTGATATCC  
 TGGTGGGGCTTGGCATCCCGTGGGGCTGCAGACCATGGTTATTAATTATGGATCCACAGTGAAGATCAA  
 CAGCCGGGTCTGGTCTATTCCGTGGTGTGCTGCTGGGCTCTGTCGCTCTCACTGTCCTTGGTATTAC  
 CTAACAATGGCGCCTGGACCGAAACTGGGCATCTACGTGCTGGTCTCTATGCTGTCTTCTGTGCT  
 TCTCCATAATGATAGAGTTAATGTCTTACCTCGTCAACTGCCCATGTGCAGAGAAGACGAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR223177 representing NM\_172152  
 Red=Cloning site Green=Tags(s)

MLPQQVGFVCAVLALVCCASGLFGSLGHKTASAGKHVLLDWRNRKLMAPINGTPLAKNCTDPAIHEFPT  
 DLF SNKERQHGA VLLHILGALYMFYALAI VCDFFVPSLEKICEKLHLS EDVAGATFMAAGSSTPEL FAS  
 VIGVFI THGDVGVGTIVGSAVFNILCIIGVCGLFAGQVVRLTWWAVCRDSVYYTLSVIVLIAFIYDEEIV  
 WVEGLVLIILYVFYILIMKYNMKMQTFFTTKQKSIANGNPVSNELEDGNDLYDGSYDDPSVPLLQVKEK  
 PPYGKTPVVMVDEILSSPPKFTFPEAGLRIMITNKFGPRTRLRMASRIIINERQLINSANGVNSKPLQ  
 NGRHENMENG NVPVENPEDPQQQEQQPPPPPEPE SVETVFLSPFSMPEAKGDKAKWVFTWPLIFLL  
 CVTIPNCSKPRWEKFFMVTFITATLWIAVFSYLMVWLVTIIGYTLGIPDVIMGITFLAAGTSVPDCMASL  
 IVARQGLGDMAVSNTIGSNVFDILVGLGIPWGLQTMVINYGSTVKINSRGLVYSVLLLLGVALTVLGIH  
 LNKWRLDRKLGIIYVVLVYAVFLCF SIMIEFNVFTFVNLP MCREDD

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9014\\_f08.zip](https://cdn.origene.com/chromatograms/mm9014_f08.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_172152

ORF Size: 1815 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\\_172152.2](#), [NP\\_742164.1](#)

RefSeq Size: 2092 bp

RefSeq ORF: 1818 bp

Locus ID: 238384

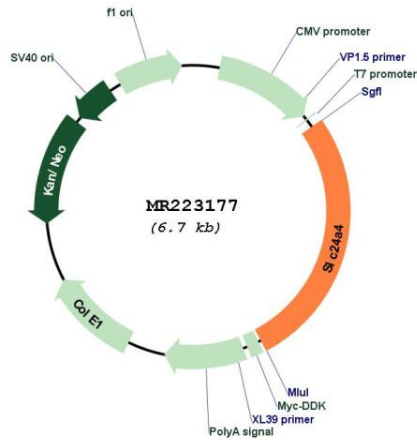
UniProt ID: [Q8CGQ8](#)

Cytogenetics: 12 E

MW: 67.3 kDa

Gene Summary: Transports 1 Ca<sup>2+</sup> and 1 K<sup>+</sup> in exchange for 4 Na<sup>+</sup>. 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]

## Product images:



Circular map for MR223177