

Product datasheet for **RN204866**

Slc44a4 (NM_212541) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc44a4 (NM_212541) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Slc44a4
Synonyms:	Ng22
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN204866 representing NM_212541
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGAAAAAGCAGAAGGAGAACGAGGCTTACGGGAATTCAGCCAAATACGACCCCTCCTTTCGAGGAC
 CCATCAAAAACAGGGGCTGCACAGACATCATCTGCTGTGTTCTCTTCTGGTCTTCATCTTGGGTTACAT
 CGTAGTGGGGCTTGTGGCCTGGGTGTACGGAGACCCTCGCAAGTGCTTTACCCAGAACTCCACAGGA
 GCCTACTGCGGCGTGGGCGACAACAAGGATAAACCCCTACGTCTGTACTTCAACATCTTAAGCTGTGCGG
 CGGCCATCAACGTCATCTCCATTGCTGAGAATGGCCTACAGTGCCCCACACCCAGGTGTGCGTCTTTC
 CTGCCACAGACCCCGTGGGTTGTGGAGGGTTCCAGCTCTAAACACAGTCGGTGACGTTTATAAAGAA
 TACAGGAACTTCTGTGTACCAGCGGTGTCCCAGATATGGTAGTGATGGACAGCCTGCAAAAGGGACTCT
 GTCCCAGTTTCTCTTCTTCTACTCCAGCTCTGGGACGTTGTTTTCCGCTCCCAACATCAACTTCAC
 ATTACCTGAACAGTTACAGATCAATAACACCACCTGTCTCTAAAGGAATCAGTGGCCTCCTGGACAGCATC
 AATGCCCCGGGATGTCTGTGAAGATCTTTGAAGATTTTGCCACAGTCTGGTACTGGATTCTCGTGGCGC
 TGGGTGTGGCCCTGGTGCTAAGTCTGTGTTATCCTGCTCCTGCGCCTGGTGGCGGCCCCCTGGTGCT
 GCTGCTGATTGTGGGGTGTGGCCGTGCTGGCCTATGGTATCTACCACTGCTGGCAACAGTACCGAGAG
 CTGCGGGACCAGGGTGTCTCCATCACCCAGCTAGGCTTCACTGCCAACCTCAGTGCCTACCAGAATGTGA
 AGGAGACATGGCTGGCTGCTCTGATTATCTGGCTGTCTGGAGGGCGTCTTGTGCTCATGCTCATTTT
 CCTGCGCCAGCGGATCCGGATTGCCATTGCTCTGCTGAAAGAAGCTAGCAGAGCTGTGGGACAGATGATG
 TCAACTATGTTCTATCCTCTGGTACCTTCGCTCCTGGTCAATTCATTGGTTACTGGCCGTGACAG
 CTCTGTACCTGGCTACATCCGGCAACCCAGTACGCTATTGGGTGCATAACACCAGTACACCGGGCTG
 TGAGAAAAGTTCTGTGAACGTGTCTGTGACCCCATGGCCCATTTGAACCTCCTGTCGCCAGAGCTCAAG
 TGCACCTTACAGGCTACTCGTCTCAGGCTTAGCCCAACGTTCTCTCTTCAACCTGCAAACTATGGAA
 TCCTGGGGCTCTTCTGGACTGTTAACTGGTACTGGCCCTGGGCCAGTGTGCTCCTCGCTGGGGCCTTTGC
 CTCCTTACTGGGCCTTTCACAAGCCTCGAGACATCCCTACTTCCCCTTGAGCTCAGCCTTTCATCCGC
 ACACTCCGTTATCACACTGGCTCACTGGCGTTGGAGCCCTCATCCTGACCCTTGTGCAAAAGCCCGGG
 TTATCCTGGAATACATTGACCACAAGCTAAGAGGATCCCAGAATCCTGTGGCCCGCTGCATCATCTGCTG
 CTTCAAGTGTGCTCTGGTGTCTGGAGAAGTTTATTAAGTTCCTCAACCGTAATGCCTACATCATGATC
 GCCATCTATGGGAAGAATTTCTGTGTCTCCGCCAAAACGCCTTCATGCTGCTCATGAGGAACGTTGTCA
 GGGTAGTCGTCCTGGATAAAGTCACTGATTTACTGCTCTTCTTTGGGAAGCTGCTGGTGGTGGGAGGTG
 CGGTGTTCTGTCTTCTTCTTTTCTCCGGTCGTATCAAGGGACTGGGGAAGACTTTAAGAACCCCGAC
 CTCAACTATTACTGGCTGCCATCATGACCTCCATCATGGGAGCCTATGTATTGCCAGTGGCTTCTTCA
 GCGTTTTTGGAAATGTGTGTAGACACGCTTCTCCTGCTTCTTGGAGACCTGGAGAGGAATGACGGTTC
 CCAAGAGCGGCCATACTACATGCCCAAGGCACTCCTGAAGATTCTGGGCAAGAAGAATGAGGTACCTACG
 GGGGGAAAAACAGGAAGAAG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_212541

Insert Size: 2124 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:	<ol style="list-style-type: none">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:	<u>NM_212541.1</u> , <u>NP_997706.1</u>
RefSeq Size:	2254 bp
RefSeq ORF:	2124 bp
Locus ID:	294255
UniProt ID:	<u>Q6MG71</u>
Cytogenetics:	20p12
Gene Summary:	Choline transporter that plays a role in the choline-acetylcholine system and is required to the efferent innervation of hair cells in the olivocochlear bundle for the maintenance of physiological function of outer hair cells and the protection of hair cells from acoustic injury (By similarity). Also described as a thiamine pyrophosphate transporter in colon, may mediate the absorption of microbiota-generated thiamine pyrophosphate and contribute to host thiamine (vitamin B1) homeostasis (By similarity).[UniProtKB/Swiss-Prot Function]