

## Product datasheet for **MC220659**

### **Slc44a4 (NM\_023557) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Slc44a4 (NM_023557) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Slc44a4
Synonyms:	2210409B01Rik; mTPPT1; NG22
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC220659 representing NM\_023557  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGGGAGAAAGCAGAATGAGAACGAGGCTCACGGGAATTCGGCCAAATATGACCCCTCCTTTGAGGCC  
 CCATCAAAAACAGGGGCTGCACAGACATCATCTGCTGTGTCTTCTGATCTTCAATTTGGGTTACAT  
 CATAAGTGGGGCTTGTGGCCTGGGTGATGGAGACCCTCGCAAGTCTACCCAGAACTCCACGGGG  
 GCCTACTGCGGCGTGGGCGACAACAAGGATAAACCCCTACGTTCTATACTTCGACATCTTAAGCTGTGCGG  
 CAGCTATCAACATCATCTCCATCGCTGAGAATGGCCTACAGTGCCCCACACCCAGGTGTGCGTCTTTC  
 CTGCCACTGGCCCATGGGCTGTGGAGGTGTTCCAGTCTCAAAGACAGTCGGTGAAGTTTATGGTGAA  
 AGGAGAACTTTGTCTCCAGCGGTGTCCCAGATATGATAGTGGAGGAGCCGCAGAAGGGACTCT  
 GTCCCGTTTCTTCTTCTTCTACTCCAGCTCTGGGACGTTGTTCCCACTCCCAACATCAACTTCAC  
 GTTACCTGAAGACTTACGGATCAATAACACCACCGTCTCTAATGGCATCAGTGGCCTCCTGGACAGCATC  
 AATGCCCGGGATGTCTGTGAAGATCTTTGAAGATTTTGCCCACTCCTGGTACTGGATTCTCGTAGCGC  
 TGGGTGTGGCCCTGGCACTAAGTCTGCTGTTATCCTCCTCCTGCGCCTGGTGGCGGCACCCCTGGTGT  
 GCTGCTGATTGTGGGGTGTCTGCTGTGCTCGCCTATGGCATCTACCACTGCTGGCAACAGTACCAAGTG  
 TTTCCGGACAAGGGCGCCTCCATCACCCAACTGGGCTTCACTACCAACTCAGTGCCTACCAGAGTGTGA  
 AGGAGACTTGGCTGGCTGCTTTGATTGTCTGGCTGTCTGGAGGGCATCTTGTGCTTATGCTCATTTT  
 CCTGCGCCAGAGGATCCGGATCGCCATCGCTCTGCTGAAGGAAGCCAGCAGGGCTGTGGGCAGATGATG  
 TCAACTATGTTCTACCTCTGGTCACCTTCGCTCCTGGTCATTTGCATTGGTTACTGGCCGTGACAG  
 CTCTATACCTGGCCACATCCGGCAACCCAGTACATCTACTGGGCGTCCAACACCAGTACACCGGGCTG  
 TGAGAACGTTCCCTGTGAACATGACTTGTGACCCGATGGCCCGTTGAATTCCTCGTGCCCAACCTCAAG  
 TCGCTCTTCAAGGGCTACTCGACCAGGGCCTAGCTCAGCGTTCTCTTCAACCTGCAAACTACGGAG  
 TCCTGGGGCTCTTCTGGACTGTTAACTGGTACTGGCCCTGGGCCAGTGTGCTCTTGGCCGGCCTTCGC  
 CTCTTTCTACTGGCCTTTCACAAGCCTCGAGACATCCCTACCTTCCCTTGGAGCTCAGCCTTATCCGC  
 ACACTCCGTTACCACACTGGCTCACTGGCGTTGGAGCCCTCATCCTGTCCCTTGTGCAGATAGCCCGG  
 TTATCCTGGAGTATATCGACCACAAGCTAAGAGGATCCCAGAACCCTGTGGCCCGTGCATCATCTGCTG  
 CTTCAAGTGTGCTCTGGTGTCTGGAGAAGTTTATTAAGTTCCTCAACCGAATGCCTACATCATGATC  
 GCCATCTATGAAAGAATTTTTGTGTCTCGGCCAAAATGCCTTCATGCTGCTCATGAGGAATGTTCTCA  
 GGGTCGTGCTCGGATAAAGTCACTGATCTGCTGCTGTTCTTTGGGAAGCTGCTGGTGGTTGGAGGTGT  
 CGGCGTTCTGTCTTCTTCTTTTCTCCGGTCGTATCAAGGGGCTGGGGAAGACTTTGAGAACCCCAAC  
 CTCAACTATTATTGGCTGCCATCATGACCTCCATCATGGGAGCCTACGTCATTGCCAGTGGCTTCTTCA  
 GCGTCTTTGGAATGTGTGTAGATACGCTCTTCTCTGCTTCTCGAGGACCTGGAGAGAAATGATGGTTC  
 CCAGGAGCGGCCTTACTACATGCCCAAGGCACTCCTGAAGATTCTGGGCAAGAAGAATGAGGCACCTACA  
 GGGGAAAGACCAGGAAGAAG**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_023557

**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).

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_023557.3</a></u> , <u><a href="#">NP_076046.1</a></u>
<b>RefSeq Size:</b>	2345 bp
<b>RefSeq ORF:</b>	2124 bp
<b>Locus ID:</b>	70129
<b>UniProt ID:</b>	<u><a href="#">Q91VA1</a></u>
<b>Cytogenetics:</b>	17 B1
<b>Gene Summary:</b>	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 (PubMed:24379411).[UniProtKB/Swiss-Prot Function]