

## Product datasheet for **MC223477**

### Slc12a7 (NM\_011390) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Slc12a7 (NM_011390) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Slc12a7
Synonyms:	AA408796; D13Erttd261e; Kcc4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC223477 representing NM_011390 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCACGAACCTTACGGTGGTGCCGGTGGAGGCGCGCCGACGGCGCCGGGGACGAAGCTGCTGAGC  
GCACGGAAGAACCCGAGTCTCCCGAGAGCGTGGATCAAACCTCCCTACGCCGGGAGATGGAACCCAG  
GGAAAACAGCCCTTTCATCAATAATGTGGAGGTGGAAAGAGAGAGCTACTTCGAGGGGAAGAACATGGCA  
CTTTTTGAGGAAGAGATGGACAGCAACCCCATGGTGTCACTGCTGAACAAGCTGGCCAACATAACCA  
ACCTGAGCCAGGGTGTGGTAGAGCATGAGGAAGATGAGGACAGCCGGAGGCGAGAGGTCAAGGCCCCACG  
CATGGGCACCTTCATCGGAGTCTACCTGCCGTGCCTGCAGAACATCTTGGGTGTTATCCTTTTCCTGCGT  
CTGACCTGGATTGTGGGGCAGCTGGTGTATGGAGTCCCTCCTCATTGTGGCCATGTGCTGCACCTGTA  
CAATGCTGACAGCCATCTCCATGAGCGCCATCGCTACCAACGGCGTGGTCCCAGCGGGAGGCTCGTACTA  
CATGATCTCCCGTTCGCTGGGGCCTGAGTTGGAGGTGCTGTTGGCCTGCTTCTACTTGGGCACGACA  
TTTGCAGGCGCCATGTACATCCTGGGTACCATCGAGATCTTCTGACCTACATCTCTCCAAGTGGCGCA  
TCTTCCAGGCAGAGACGGCGGATGGCGAGGCGGCCGACTGTTGAACAACATGCGTGTGTATGGCAGCTG  
TGCCCTGGCACTCATGGCGGTGGTGGTCTTTGTTGGTGTCAAATATGTCAAACAAGCTGGCACTGGTCTTC  
TTAGCCTGTGTTGTGCTTTCTATCCTGGCCATCTATGCTGGTGTCAAGACAGCCTTTGCCCCACCTG  
ACATCCCGGTCTGCCTTCTAGGAACCGCACGCTGGCAAATCGCAACTTTGATACCTGTGCCAAGATGCA  
GGTTGTACAGAACGGTACAGTGACCACTGCACTCTGGCGCCTCTCTGCAATGGTCCAGCTTGGGTGCC  
ACCTGTGATGAGTACTTTGCACAGAACAACGTTACTGAGATACAGGGCATCCCTGGTGTGGCCAGTGGTG  
TCTTCTGGATAACCTGTGGAGCACATATTAGACAAGGGGGCATTGTGGAAAAGAAAGGTGTGCTCCTC  
AGTGCCTGTGTCGAGGAGAGCCGGCCTGGTGGATTGCCATACGTCCTCACAGACATCATGACCTACTTC  
ACCATGCTAGTTGGCATCTACTCCCGTCTGTAAGTGGGATCATGGCAGGATCCAACCGCTCCGGGGACC  
TCAAAGACGCCAGAAGTCTATTCCAACAGGGACATTCTGGCCATCGTACTACATCTTTCATTTATCT  
TTCTGCATAGTCTGTTGGGGCTGCATTGAAGGTGTAGTCCGCGAGATAAGTTGGGGAGGCCTTG



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CAAGGGAACCTGGTCATTGGCATGCTGGCCTGGCCATCTCCCTGGGTCATTGTGATTGGCTCCTTCTTCT  
 CCACCTGTGGTGCCTGCAGAGCCTGACTGGGGCACCCCGCTACTGCAGGCCATTGCGCGTGACGG  
 AATCATCCCCTTCTACAGGTGTTTGGTCATGAAAGGCCAACGGGGAGCCACATGGGCCCTGTGCTC  
 ACGGCTCATCTGTGAGACCGGTATCCTCATCGCCTCCCTGGACAGTGTGGCCCCATCCTGTCCATGT  
 TCTTCTCATGTGCTACATGTTTCGTCATCTGGCCTGTGCCGTACAGACCCTGCTACGCACACCCAACTG  
 GCGTCCACGCTTCAAGTTCTACCACTGGACCCTCCTTCTTGGGATGAGTCTCTGCCTCGCGCTGATG  
 TTCATCTGCTCCTGGTACTACGCCCTTTTCGCCATGCTCATTGCCGGCTGCATCTACAAGTACATCGAGT  
 ACCGCGGGGCTGAGAAGGAGTGGGGGGATGGCATCAGGGGCTGTCACTGAATGCTGCCCGCTACGCCCT  
 GCTGCGTGTGGAACATGGGCCCCACATACCAAGAACTGGAGGCCCCAGGTGTTGGTGATGCTGAACCTG  
 GACTCGGAGCAGTGTGTAAGCACCCCCGCTGTGCTTACCTCTCAGCTGAAGGCTGGCAAGGGCC  
 TGACCATCGTGGGATCTGTGCTAGAGGGCACCTACTTAGACAAGCATGTGGAGGCCAGAGGGCTGAAGA  
 GAATATCCGGTCTCTGATGAGTGCAGAGAAGACGAAGGGCTTCTGCCAGCTGGTGGTGTCTCCAACCTG  
 CGAGATGGTGGTCCCACCTGATCCAGTCGGCTGGCCTCGGTGGCATGAAACACAACACTGTCCTCATGG  
 CCTGGCCAGAGGCTTGAAGGAGGCAGATAATCCTTTCTCTGGAAGAACTTTGTAGACACAGTCCGTGA  
 CACTACAGCAGCAGATCAGGCCCTTGTGGTGGCCAAGAACATTGACTTATCCCACAAAACCAAGAGCGC  
 TTCAGCGACGGGAACATTGATGTGTGGTGGATCGTGCATGACGGGGGATGCTCATGCTTCTGCCCTTTC  
 TGCTGCGCCAGCAAGGTGTGGCGAAAGTGCCGGATGCGCATCTTCACTGTGGCCAGGTGGATGATAA  
 CAGCATCCAGATGAAGAAGGACCTGCAGATGTTCTGTACCACCTCAGGATCAGTGCCGAGGTGGAGGTG  
 GTGGAGATGGTTGAAAATGATATTTCCGCATTACCTATGAGAAGACGCTAATGATGGAGCAGAGGTAC  
 AGATGCTGAAACAGATGCAGTTGTCAAAGAATGAGCGGGAGAGAGAGGCCAGCTGATTCATGACAGGAA  
 CACTGCATCCCATACCACAGCACTGCTAGAACCAAGCCCCACCAACACCCGACAAAGTGCAGATGACA  
 TGGACGAAAGAGAACTCATTGCAGAGAAACACAGGAACAAGGACACTGGCCATCAGGCTTCAAAGACC  
 TCTTCAGCCTAAAGCCGGACCACTCAACGTGAGGAGGATGCATCTGCTGTGAAGCTCAACGGCGTAGT  
 TCTCAACAAGTCCAGGATGCCCAACTGGTCTGCTGAATATGCCAGGCCCCCAAAAAGTCGGCAGGGG  
 GACGAGAACTACATGGAGTTCCTCGAGGTCTGACGGAAGGGCTGAACAGGGTCTCTGCTCAGGGGTG  
 GTGGCCGAGAAGTCATCACCATCTACTCTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_011390
- Insert Size:** 3252 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\\_011390.2](#), [NP\\_035520.1](#)

RefSeq Size:	5131 bp
RefSeq ORF:	3252 bp
Locus ID:	20499
UniProt ID:	<a href="#">Q9WVL3</a>
Cytogenetics:	13 40.15 cM
Gene Summary:	Mediates electroneutral potassium-chloride cotransport when activated by cell swelling (By similarity). May mediate K(+) uptake into Deiters' cells in the cochlea and contribute to K(+) recycling in the inner ear. Important for the survival of cochlear outer and inner hair cells and the maintenance of the organ of Corti. May be required for basolateral Cl(-) extrusion in the kidney and contribute to renal acidification.[UniProtKB/Swiss-Prot Function]