

## Product datasheet for RN216521

### Slc30a7 (NM\_001191715) Rat Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Slc30a7 (NM\_001191715) Rat Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Slc30a7  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >RN216521 representing NM\_001191715  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGATCGCC

ATGTTGCCCTGTCCATCAAGGATGATGAATACAAGCCACCCAAGTTCAATCTGTTGGCAAGATTTTCAG  
 GCTGGTTTAGGTCCATCCTGTCTGACAAGACATCCCGAACCTGTTTTCTTCTGTGCCTGAACCTCTC  
 TTTTCGCTTTTGTGGAAGTACTCTACGGCATCTGGAGCAACTGCCTAGGCTTGATCTCCGACTCGTTCCAC  
 ATGTTTTTTGATAGTACTGCCATATTGGCTGGATTGGCAGCTTCTGTCAATTTCCAAGTGGAGAGATAATG  
 ACGCTTTCTCTTATGGGTATGTTAGAGCGGAAGTCTGGCTGGCTTTGTCAATGGCTGTTTTTGTATCTT  
 CACTGCTTTCTTTATTTCTCAGAAGCGTTGAGAGAGCATTGGCTCCTCCAGATGTACACCACGAGAGA  
 CTGCTGCTTGTTCGATTCTTGGATTTGTGGTAAACCTAGTAGGAATATTTGTTTTCAATCATGGAGGTC  
 ACGGACATTCTCACGGCTCTGGCCATGGACACAGTCATTCCCTCTTTAATGGTGTCTAGATCACAGCCA  
 TGGCCATGAAGACCATTGCCATAGTCACGGAGCCAAACATGGAGGTGCACACAGCCATGACCATGACCAT  
 GCTCATGGACATGGGCATTGCATTCCCACGATGGCCATCCTTCAAAGAAACAGCAGGACCCAGCAGAC  
 AGATTTTACAAGGTGATTTTTACACATTCTGGCAGATACACTTGGGAGTATTGGTGAATTTGCCTCCGC  
 CATCATGATGCAGAAATTCGGGTTGATGATAGCAGATCCTATCTGTTTCGATTCTTATAGCCATTCTATA  
 GTTGTAAGTGTTATCCACTTTAAGAGAGTCTATTGGAATTAATGCAAAGAAGTCTCCCTCGTTGG  
 AAAATGTGCTTCCCAGTGCTATCAGAGGGTGCAACAGTTACAAGGAGTTACAAGTGTGCAAGAACAGCA  
 CTTCTGGACACTCTGTTCTGATGTTTACGTTGGAACCTTGAAGCTTGTAGTAGCCCTGATGCAGACGCC  
 AGGTGGATCTTGAGCCAAACACATAATTTTTACTCAGGCTGGAGTGAGACAGCTTTATGTACAGATTG  
 ACTTTGCGGCAATGTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001191715



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<b>Insert Size:</b>	1137 bp
<b>OTI Disclaimer:</b>	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>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<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_001191715.1</a></u> , <u><a href="#">NP_001178644.1</a></u>
<b>RefSeq Size:</b>	2032 bp
<b>RefSeq ORF:</b>	1137 bp
<b>Locus ID:</b>	310801
<b>UniProt ID:</b>	<u><a href="#">Q5BJM8</a></u>
<b>Cytogenetics:</b>	2q41
<b>Gene Summary:</b>	Seems to facilitate zinc transport from the cytoplasm into the Golgi apparatus. Partly regulates cellular zinc homeostasis. Required with ZNT5 for the activation of zinc-requiring enzymes, alkaline phosphatases (ALPs). Transports zinc into the lumens of the Golgi apparatus and the vesicular compartments where ALPs locate, thus, converting apoALPs to holoALPs. Required with ZNT5 and ZNT6 for the activation of TNAP (By similarity). [UniProtKB/Swiss-Prot Function]