

## Product datasheet for **SC123329**

### SLC39A5 (NM\_173596) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC39A5 (NM_173596) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC39A5
Synonyms:	LZT-Hs7; MYP24; ZIP5
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_173596 edited  
 GTCTACAGCAAGGCCTAATAGGGGACCTGAGGGCACAGTCCTCAGGATGTTTCGGGGAGA  
 ATAGGAGCCAGAACCTGAGCCCCAAGCCATCCCCTACCAATGATGGGGTCCCCAGTG  
 AGTCATCTGCTGGCCGGCTTCTGTGTGGGTCTTGGGCTGGGTAGGGGGCTCAGTC  
 CCCAACCTGGGCCTGCTGAGCAGGAGCAGAACCATTACCTGGCCAGCTGTTTGGCCTG  
 TACGGCCGAGAATGGGACGCTGACTGCAGGGGGCTTGGCGGGCTTCTCCACAGCCTGGG  
 CTAGGCCGAGTTCAGGGGCTTCCGCTGGGACAGCATGGGCTCTGACTGGACGGGCTGCA  
 TCCCCAGCTGCAGACAATTCCACACACAGGCCACAGAACCCTGAGCTGAGTGTGGATGTC  
 TGGGCAGGGATGCCTCTGGGTCCCTCAGGGTGGGGTACCTGGAAGAGTCAAAGGCCCT  
 CACCTACCCCGTGGGCCAGCCCCCTCGGGCTGGACCTCCTTACAGGCTTCTGTTGCTG  
 GACCACTATTGGCTGACCACCTGAATGAGGATTGTCTGAACGGCTCCCAGCTGCTGGTC  
 AATTTTGGCTTGAACCCCGTCTCCTCTGACCCCTCGTCAGTTTGTCTGCTGTGCCCA  
 GCCCTGCTTATCAGATCGACAGCCGCTCTGCATCGGCGCTCCGGCCCTGCACCCCCA  
 GGGGATCTACTATCTGCCCTGCTTCAGAGTGCCCTGGCAGTCTGTTGCTCAGCCTCCCT  
 TCTCCCTATCCCTGCTGCTGCTGCGGGCTCCTGGGACCTCGTCTACTACGGCCCTTGTG  
 GGCTTCTGGGGGCCCTGGCGGTGGGCACTCTTGTGGGGATGCACTGCTACATCTGCTA  
 CCGCATGCACAAGAAGGGCGGCACGCAGGACCTGGCGGACTACCAGAGAAGGACCTGGGC  
 CCGGGGCTGTAGTGCTCGGAGGCCTTCTCTGCTCTTGTGCTGGAGAACATGCTGGGG  
 CTTTTGCGGCACCCAGGGGCTCAGGCCAAGATGCTGCAGGCGAAAACGAAGGAATCTCGAA  
 ACACGCAACTTGGATCCGGAGAATGGCAGTGGGATGGCCCTTACAGCCCTACAGGCAGCT  
 CCAGAGCCAGGGGCTCAGGGCCAGAGGGAGAAGAACAGCCAGCACCCACCAGCTTGGCC  
 CCTCTGGGCACCAAGGCCACAGTATGGGCACCAGGGTGGCACTGATATCACGTGGATG  
 GTCTCTGGGAGATGGTCTACACAACCTCACTGATGGGCTGGCCATAGGTGCTGCCTTC  
 TCTGATGGCTTCCAGCGGCCTCAGTACCACCTTAGCGGTCTTCTGCCATGAGCTGCC  
 CACGAAGTGGGTGACTTTGCCATGCTGCTCCAGTCCAGGGCTGTCTTTCCGGCGGCTGCTG  
 CTGCTGAGCCTCGTGTCTGGAGCCCTGGGATTGGGGGGTGCAGTCTGGGGGTGGGGCTC  
 AGCCTGGGCCCTGTCCCCCTCACTCCCTGGGTGTTTGGGGTCACTGCTGGGGTCTTCTC  
 TATGTGGCCCTTGTGGACATGCTACCAGCCCTGCTTCTGCTCCGGAGCCCTGCCTACG  
 CCCCATGTCTCCTGCAGGGGCTGGGGCTGCTGCTGGGGGGCGGCCTCATGCTTGCCATA  
 ACCCTGCTGGAGGAGCGGCTACTGCCCGTGACCACTGAGGGCTGATGGGGCCAGTGGAAA  
 GGGGTCCGGTTGCCCTTCTTCCCCCAACCACAGGAATGGAGGGGGGACACAGGGCCAG  
 TAGGAGCAATAGGATTTAATAAACAGAACCCATCCCCAAAAAAAAAAAAAAAAAAAAAAAAA  
 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_173596 unedited  
 NCGGAAGCGCAATCCCAGGATGTCTACAGCATGGCCTAATAGGGGACCTGAGGGCACAG  
 TCCTCAGGATGTTTCGGGGAGAATAGGAGCCAGAACCTGAGCCCTAAGCCATCCCCTC  
 ACCAATGATGGGGTCCCCAGTGAGTCATCTGCTGGCCGGCTTCTGTGTGGGTCTTCT  
 GGGCTGGGTAGGGGGCTCAGTCCCCAACCTGGGCCTGCTGAGCAGGAGCAGAACCATTA  
 CCTGGCCAGCTGTTTGGCCTGTACGGCGAGAATGGGACGCTGACTGCAGGGGGCTTGGC  
 GCGGCTTCTCCACAGCCTGGGGCTAGGCCGAGTTCAGGGGCTTCCGCTGGGACAGCATGG  
 GCCTCTGACTGGACGGGCTGCATCCCCAGCTGCAGACAATTCCACACACAGGCCACAGAA  
 CCCTGAGCTGAGTGTGGATGTCTGGCAGGGATGCCTCTGGGTCCCTCAGGGTGGGGTGA  
 CCTGGAAGAGTCAAAGGCCCTCACCTACCCCGTGGGCCAGCCCTCGGGCCTGGACCT  
 CCTTACAGGCTTCTGTTGCTGGACCACTATTGGCTGACCACCTGAATGAGGATTGTCT  
 GAACGGCTCCCAGCTGCTGGTCAATTTTGGCTTGAAGCCCGCTGCTCCTGACCCCTCG  
 TCAGTTTGTCTGCTGTGCCAGCCCTGCTTATCAGATCGACAGCCCGTCTGCATCGG  
 CGCTCCGGCCCTGCACCCCAAGGGATCTACTATCTGCCCTGCTTLAGAGTGCCCTGGC  
 AGTCTGTTGCTAAGCCTCCCTTCTCCCTATACCTGCTGCTGCTGCGGCGTCTGGGAC  
 TCGTTT

**Restriction Sites:** Please inquire

<b>ACCN:</b>	NM_173596
<b>Insert Size:</b>	1895 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>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>	<a href="#">NM_173596.1</a> , <a href="#">NP_775867.1</a>
<b>RefSeq Size:</b>	2015 bp
<b>RefSeq ORF:</b>	1620 bp
<b>Locus ID:</b>	283375
<b>UniProt ID:</b>	<a href="#">Q6ZMH5</a>
<b>Cytogenetics:</b>	12q13.3
<b>Protein Families:</b>	Transmembrane
<b>Gene Summary:</b>	<p>The protein encoded by this gene belongs to the ZIP family of zinc transporters that transport zinc into cells from outside, and play a crucial role in controlling intracellular zinc levels. Zinc is an essential cofactor for many enzymes and proteins involved in gene transcription, growth, development and differentiation. Mutations in this gene have been associated with autosomal dominant high myopia (MYP24). Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Sep 2014]</p> <p>Transcript Variant: This variant (1) represents the longer transcript. Both variants 1 and 2 encode the same protein.</p>