

Product datasheet for **SC116601**

SLC6A8 (NM_005629) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC6A8 (NM_005629) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC6A8
Synonyms:	CCDS1; CRT; CRTR; CT1; CTR5
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC116601 sequence for NM_005629 edited (data generated by NextGen Sequencing)

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ATGGCGAAGAAGAGCGCCGAGAACGGCATCTATAGCGTGTCGGGCGACGAGAAGAAGGGC
CCCCTCATCGCGCCCGGGCCCGACGGGGCCCGGCAAGGGCGACGGCCCGTGGGCCTG
GGGACACCCGGCGGCCGCTGGCCGTGCCGCCGCGGAGACCTGGACGCGCCAGATGGAC
TTCATCATGTGCGTGGGCTTCGCCGTGGGCTTGGGCAACGTGTGGCGCTTCCCCTAC
CTGTGCTACAAGAACGGCGGAGGTGTGTCCTTATCCCTACGTCTGATCGCCCTGGTT
GGAGGAATCCCCATTTTCTTTAGAGATCTCGCTGGGCCAGTTCATGAAGGCCGGCAGC
ATCAATGTCTGGAACATCTGTCCCTGTTCAAAGGCCTGGGCTACGCCTCCATGGTGATC
GTCTTCTACTGCAACACCTACTACATCATGGTGTGGCCTGGGGCTTCTATTACCTGGTC
AAGTCCTTACCACCACGCTGCCCTGGGCCACATGTGGCCACACCTGGAACACTCCCGAC
TGCGTGGAGATCTTCGCCATGAAGACTGTGCAATGCCAGCCTGGCCAACCTCACCTGT
GACCAGCTTGCTGACCGCCGTCCTGTTCATCGAGTTCTGGGAGAACAAAGTCTTGAGG
CTGTCTGGGGACTGGAGGTGCCAGGGCCCTCAACTGGGAGGTGACCCTTTGTCTGCTG
GCCTGCTGGGTGCTGGTCTACTTCTGTGTCTGGAAGGGGTCAAATCCACGGGAAAGATC
GTGTACTTCACTGCTACATTCCTACGTGGTCCTGGTCGTGCTGCTGGTGGCGTGGAGTG
CTGCTGCCTGGCGCCCTGGATGGCATCATTTACTATCTCAAGCCTGACTGGTCAAAGCTG
GGGTCCCCTCAGGTGTGGATAGATGCGGGGACCCAGATTTTCTTTTCTTACGCCATTGGC
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CTCTGGGCTGCCCTTCTTCTTTCATGCTGTTGCTGCTTGGTCTCGACAGCCAGTTTGTA
GGTGTGGAGGGCTTCATACCGGCCTCCTCGACCTCCTCCCGGCCTCCTACTACTTCCGT
TTCAAAGGGAGATCTCTGTGGCCCTCTGTTGTGCCCTCTGCTTTGTCATCGATCTCTCC
ATGGTGACTGATGGCGGGATGTACGTCTTCCAGCTGTTTGACTACTACTCGGCCAGCGGC
ACCACCCTGCTCTGGCAGGCCTTTTGGGAGTGCCTGGTGGTGGCCTGGGTGTACGGAGCT
GACCGCTTCATGGACGACATTGCCTGTATGATCGGGTACCGACCTTGCCCTGGATGAAA
TGGTGCTGGTCTTCTTACCCCGCTGGTCTGCATGGGCATCTTCATCTTCAACGTTGTG
TACTACGAGCCGCTGGTCTACAACAACACCTACGTGTACCCGTTGGTGGGGTGGGCCATG
GGCTGGGCCTTCCCTGTCTCCTCATGCTGTGCGTGCCGCTGCACCTCCTGGGCTGCCTC
CTCAGGGCCAAGGCACCATGGCTGAGCGCTGGCAGCACCTGACCCAGCCCATCTGGGGC
CTCCACCCTTGGAGTACCGAGCTCAGGACGCAGATGTCAGGGGCTGACCACCCTGACC
CCAGTGTCCGAGAGCAGCAAGGTCGTCGTGGTGGAGAGTGCATGTGA

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Clone variation with respect to NM_005629.3

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_005629 unedited</p> <pre>TCGCATTTGTATACGACNACTATAGGCGGCACGCGAATTCGCACGAGGCGACCCCGGCC GGCCGTGCGGCCCGCCGGGGCCATAGGCGAAGAAGATCGCCGAGAACGGCATCTATAGCG TGTCCGGCGACGAGAAGAAGGGCCCCCTCATCGCGCCCGGGCCGACGGGGCCCCGGCCA AGGGCGACGGCCCCGTGGGCCTGGGGACACCCGGCGCCGCTGGCCGTGCCGCCGCGG AGACCTGGACGCGCCAGATGGACTTCATCATGTCTGCGTGGGCTTCGCCGTGGGCTTGG GCAACGTGTGGCGCTTCCCCTACCTGTGCTACAAGAACGGCGGAGGTGTGTTCTTATTC CCTACGTCTGATCGCCCTGGTTGGAGGAATCCCAATTTCTTCTTATAGATCTCGCTGG GCCAGTTCATGAAGCGCCGACGATCAATGTCTGGAACATCTGTCCCCTGTTCAAAGGCC TGGGCTACGCCTCCATGGTGATCGTCTTCTACTGCAACACCTACTACATCATGGTGCTGG CCTGAGGCTTCTATTACCTGGTCAAGTCCTTTACCACCACGCTGCCCTGAGCCACATGTG GCCACACTGGAACACTCCGACTGCGTGGAGATCTTCCGCCATGAAGACTGTGCCAATG CCAGCCTGGCCAACTCACCTGTGACCAGCTTGTGACCGCCGGTCCCCTGTCATCGAGT TCTGGGAGAACATAGTCTTGATGTCTGAGGGACTGGNAGTGGCAGGGGCCCTCACTG GGATGTGACCCTTGTCTGCTGGNCTGCTGGGTGCTGGTCTACTTCTGTGTCTGGATGG GGGTCAATCCACGNAAGATCGNGTACTTCACTGCTACATTCCNCTACGTGGNCCTGGT CNTGCTGCTAGTGCCNTGGAATGCTGCTGCCTGNCGCCCTGNATGGCATCATTTACTATC TCAGCCTGACTGTNAAAAANCTGGGGTCCCTCCAGGGTGA</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_005629 unedited</p> <pre>AAGCGATACGAGGTATCTGTGCCGCTCGANGTTCAATTTTTTTTTTTTTTTTTTTGTGA TATTTTTGGCGTTTTATAAAAAGGAAAAATTGTTTTAGTGAGCACTCATGGTGCTTCTC CCCTCCTCCCCAGGCAGACCCCAAAAGTGTAGGAAAGGCAGGCCCTTGAGGGGTG CGGTGGGGCTGAAGCAGGGGCTGCTATGGCTACCATATGTGAGCTGGTGATGTGAGCTGA GTTGTCACATGACACTCTCCACCACGACGACCTTGTGCTCTCGGACACTGGGGTCAGGG TGGTCAGGCCCTGACATCTGCGTCTGAGCTCGGTACTCCAAGTGGTGGAGGCCCCAGA TGGGCTGGGTGAGTGTGCCAGCGTCCATCCATGGTGCCTTGGCCCTGAGGAGGCAGC CCAGGAGGTGCAGCGGCACGACAGCATGGAGGACAGGGCGAAGGCCAGCCCATGGCCT CACCCACACGGGTACACGTAGGTGTTGTTGTAGACCAGCGGCTCGTAGTACACAACGT TGAAGATGAAGATGCCCCATGCAGACCAGCGGGTGAAGAATGACCAGCACCATTTCATCC AGGGGCAAGGTCCGTACCCGATCATAACAGGCAATGTCGTCCATGAAGCGTCCAGTCCGT ACACCCAGGCCACACACGCACTCCCAAAAGGCTGCCAGAGCAGGGTGGTGGCCTGG CCGAGTAGTAGTCAAACAGCTGGAAGACGTACATCCCGCCCTCAGTACCATGGAGAGAT CGATGACAAAACAGAGGGCACACAAGAAGGCCACAGAATATCTCCTTTGGAAACGAAATT TTAGGATGCCGGGAGG</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_005629
Insert Size:	2000 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_005629.1](#), [NP_005620.1](#)

RefSeq Size: 3917 bp

RefSeq ORF: 1908 bp

Locus ID: 6535

UniProt ID: [P48029](#)

Cytogenetics: Xq28

Domains: SNF

Protein Families: Druggable Genome, Transmembrane

Gene Summary: The protein encoded by this gene is a plasma membrane protein whose function is to transport creatine into and out of cells. Defects in this gene can result in X-linked creatine deficiency syndrome. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2008]
Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).