

## Product datasheet for **SC112868**

### SLC5A7 (NM\_021815) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC5A7 (NM_021815) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC5A7
Synonyms:	CHT; CHT1; CMS20; HMN7A
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 ORF within SC112868 sequence for NM\_021815 edited (data generated by NextGen Sequencing)

```

ATGGCTTTCCATGTGGAAGGACTGATAGCTATCATCGTGTCTACCTTCTAATTTTGCTG
GTTGGAATATGGGCTGCCTGGAGAACCAAAAACAGTGGCAGCGCAGAAGAGCGCAGCGAA
GCCATCATAGTTGGTGGCCGAGATATTGGTTTATTGGTTGGTGGATTTACCATGACAGCT
ACCTGGGTCGGAGGAGGGTATATCAATGGCACAGCTGAAGCAGTTTATGTACCAGGTTAT
GGCCTAGCTTGGGCTCAGGCACCAATTGGATATTCTCTTAGTCTGATTTTAGGTGGCCTG
TTCTTTGCAAAAACCTATGCGTTCAAAGGGTATGTGACCATGTTAGACCCGTTTCAGCAA
ATCTATGAAAAACGCATGGGCGGACTCCTGTTTATTCCTGCACTGATGGGAGAAATGTTT
TGGGCTGCAGCAATTTCTCTGCTTTGGGAGCCACCATCAGCGTGATCATCGATGTGGAT
ATGCACATTTCTGTCATCATCTCTGCACTCATTGCCACTCTGTACACACTGGTGGGAGGG
CTCTATTCTGTGGCCTACACTGATGTCGTTTCTGCTCTTTTGCATTTTGTAGGGCTGTGG
ATCAGCGTCCCCTTTCATTGTCACATCCTGCAGTCGACAGACATCGGGTCACTGCTGTG
CATGCCAAATACCAAAAGCCGTGGCTGGGAACTGTTGACTCATCTGAAGTCTACTCTTGG
CTTGATAGTTTTCTGTTGTTGATGCTGGGTGGAATCCCATGGCAAGCATACTTTCAGAGG
GTTCTCTCTTCTCCTCAGCCACCTATGCTCAAGTGTCTCCTTCTGGCAGCTTTCGGG
TGCTTGGTGATGGCCATCCCAGCCATACTCATTGGGGCCATTGGAGCATCAACAGACTGG
AACCAGACTGCATATGGGCTTCCAGATCCCAAGACTACAGAAGAGGCAGACATGATTTTA
CCAATTGTTCTGCAGTATCTCTGCCCTGTGTATATTTCTTTCTTTGGTCTTGGTGCAATT
TCTGCTGCTGTTATGTCATCAGCAGATTCTTCCATCTTGTGCAAGTCCCATGTTTGCA
CGGAACATCTACCAGCTTTCCTCAGACAAAATGCTTCGGACAAAAGAAATCGTTTGGGTT
ATGCGAATCACAGTGTGTTGTTGGAGCATCTGCAACAGCCATGGCCTTGTGACGAAA
ACTGTATGGGCTCTGGTACCTCAGTTCTGACCTTGTACATCGTTATCTTCCCCCAAG
CTGCTTTGTGTAAGGTTGTTAAGGGAACCAACACCTATGGGGCCGTGGCAGGTTATGTT
TCTGGCCTCTTCTGAGAATAACTGGAGGGGAGCCATATCTGTATCTTACGCCCTTGATC
TTTACCCCTGGCTATTACCCTGATGATAATGGTATATATAATCAGAAAATTTCCATTTAAA
ACACTTGGCATGGTTACATCATTCTTAACCAACATTTGCATCTCCTATCTAGCCAAGTAT
CTATTTGAAAGTGAACCTTGGCACCTAAATTAGATGATTTGATGCTGTTGTTGCAAGA
CACAGTGAAGAAAACATGGATAAGACAATTCTTGTCAAAAATGAAAATATTAATTAGAT
GAACCTGCACTTGTGAAGCCACGACAGAGCATGACCCTCAGCTCAACTTTCACCAATAAA
GAGGCCTTCTTGATGTTGATTCCAGTCCAGAAGGGTCTGGGACTGAAGATAATTTACAG
TGA
    
```

Clone variation with respect to NM\_021815.2

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_021815 unedited

```

GAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCTTTCGCGTGCAGCCACC
ACTCCAGAAGACTTAATGAAGTAGCCAGCTGCAGAAGAATCTGGATCATTAGATAAAAAAT
GGCTTTCCATGTGGAAGGACTGATAGCTATCATCGTGTCTACCTTCTAATTTTGCTGGT
TGAATATGGGCTGCCTGGAGAACCAAAAACAGTGGCAGCGCAGAAGAGCGCAGCGAAGC
CATCATAGTTGGTGGCCGAGATATTGGTTTATTGGTTGGTGGATTTACCATGACAGCTAC
CTGGGTCGGAGGAGGGTATATCAATGGCACAGCTGAAGCAGTTTATGTACCAGGTTATGG
CCTAGCTTGGGCTCAGGCACCAATTGGATATTCTCTTAGTCTGATTTTAGGTGGCCTGTT
CTTTGCAAAAACCTATGCGTTCAAAGGGTATGTGACCATGTTAGACCCGTTTCAGCAAAT
CTATGAAAAACGCATGGGCGGACTCCTGTTTATTCCTGCACTGATGGGAGAAATGTTCTG
GGCTGCAGCAATTTCTCTGCTTTGGGAGCCACCATCAGCGTGATCATCGATGTGGATAT
GCACATTTCTGTCATCATCTCTGCACTCATTGCCACTCTGTACACACTGGTGNNGAGGGC
TCTATTCTGTGGCCTACACTGATGTCGTTTCTGCTCTTTTGCATTTTGTAGGGCTGTGGA
TCAGCGTNCCTTTGCATGTCACATCCTGCAGTCGAGACATCGGGTTCAGTGTGTCAT
GCCAATACCAAGCCGTGCTGGNGAACTGTGACTCTCTGAAGNCTACTCTGCTTGAAGN
TTTCTGTGGTGAAGCTGGGGGAATCCTGCAAGCTACTTTTTAAAGGTTTTTTTTTTCT
CAGCACTAAG
    
```



RefSeq Size: 5158 bp

RefSeq ORF: 1743 bp

Locus ID: 60482

UniProt ID: [Q9GZV3](#)

Cytogenetics: 2q12.3

Domains: SSF

Protein Families: Transmembrane

**Gene Summary:** This gene encodes a sodium ion- and chloride ion-dependent high-affinity transporter that mediates choline uptake for acetylcholine synthesis in cholinergic neurons. The protein transports choline from the extracellular space into presynaptic terminals for synthesis into acetylcholine. Increased choline uptake results from increased density of this protein in synaptosomal plasma membranes in response to depolarization of cholinergic terminals. Dysfunction of cholinergic signaling has been implicated in various disorders including depression, attention-deficit disorder, and schizophrenia. An allelic variant of this gene is associated with autosomal dominant distal hereditary motor neuropathy type VIIA. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2015]  
Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (a). Variants 1 and 2 both encode the same isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.