

## Product datasheet for **SC105798**

### SLC1A4 (AL833067) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC1A4 (AL833067) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC1A4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for AL833067, the custom clone sequence may differ by one or more nucleotides

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GACTAGTCTAGATCGCGAGCGCCGCCCTTTTTTTTTTTTTTTTCAACCCTGAAAGATCCAGAACTTC
TCTCTCTCAGGTAGTGTGGATGACAGCTGGACTGATTTTAGAAGTTTAAAATTGAATGGGAGGCTAAGT
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TCAAGTCTTTTCTTGGCTTTTGTAAAGTCTAAAATATTAATTTTTCCAAAGTTTAGACTAAAAAAAAG
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GAGGCAGGAAAAGCCTTCTTAAACAAGATATAAAAAGCAAAAGCCATAAAAAGCTGCTAACTTAACCAC
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ATCAAAATATAAAAAGTCTGCATGCAAAAAGATACTTTGAACAAAGTTAAAAGTCAAGACATTCATTTCTA  
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TGCTCAACCTCATTAGAAATAAGGGAAATGAAAATTTGGTTTTATCAGGCATTGATAATGGTGAGGGTGA  
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TGTTCTTGTGGGAAGCAAGATCGTGGAATGAAAGACATCATCGTGTGGTACCCAGCCTGGGGAATA  
CATCTTCGCATCTATATTTGGCCATGTTATTATGAGGGAATGTTCTGCCACTTATTTATTTGTTTTT  
ACACGAAAAAACCCATTAGATTCTCCTGGGCCTCCTCGCCCAATTTGCGACAGCATTGCTACCTGCT  
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GTCTCATTGGCACAAGAGATGCATCCTGTCTTCACTGGAAAACCTTAAAAAAAAAAAAAACTGGGT  
TTTCCAAATATGTTAAAACCTTCAAAGGACGGCAGCACGTCGTTTCAATCACACATTTAGTTTTGCCTCT  
ACTGCTCACTTCTCCCAATCTGGATGGCTATTTATATAACACAGAGGTGGGAGTAAAAAAAAAAAAAA  
AA

**5' Read Nucleotide Sequence:**

>OriGene 5' read for AL833067 unedited  
 NTTGTTCGAATTTGTATACGACTCATATAGGCGGCCGCGNAATTCGCACGAGGCCTAGGG  
 AGAGATGAAGACGGCCTGGCTGAAAGTCCCTGCATTCTGCCTCAGGAAGGACCTGCATCT  
 CTCACCCAGCTTTATCCCCACTGATGAGTACCCTGTGCTTGTGCCCTAGGTACGTACC  
 TGTGGGCATCATGTTCTTGTGGAAAGCAAGATCGTGGAAATGAAAGACATCATCGTGT  
 GGTGACCAGCCTGGGAAATACATCTTCGCATCTATATTGGGCCATGTTATTCATGGAGG  
 AATTGTTCTGCCACTTATTTATTTTGTGTTTTCACACGAAAAAACCATTCCAGATTCCTCCT  
 GGGCCTCCTCGCCCATTTGCGACAGCATTGCTACCTGCTCCAGGTGAGTGGGTTTTGG  
 GTCTCTCACTGCTCTGAGCCATGTTAACATGGAACCAGGTGAGCCCACTGGTAGATGCA  
 CAACCAGTGTCTTGACATACTTTAATTCCTGAAAACTCTAAATCGGTCTTCTGTATTT  
 TTTTGTGTTTTCTCTTTAAGAGACAGGATCTTCCCGTATTGCCAGGCTGGTCTCGAA  
 CTCCTGGGCTCAAGTATCCTCCACCTCGGCCTCCGAATAGCTGGGATTACAGGCATG  
 CACAGCCACACCAAGCCTCACATGATTTCTAAAATGACCAGCCCAAAGCTTTTCTGTA  
 TCCCCCTNGGGTGGGTTTCTGTTTCATTTACTATTCTACTGAAGTTACCTCATTCTCTT  
 CTNCTCTTTGCTCTTAGAGGTCAGCAGATCATTAGTTAGCCAGCTGCGGNTCCCTCAC  
 CCTATTANGAAGACCTTNNCCTGAGTNAAGAANGCAGNCCACCTACTCANAATGCATGCA  
 GGGGAAGTTCTAAAATGGGTCTGCCCATCTCCCTTCTTGAAAATGTGTTANNAACGA  
 C

**3' Read Nucleotide Sequence:**

>OriGene 3' read for AL833067 unedited  
 NAATTACTGGNACCGCGCCGATTCTAGGATCGGTTTTTTTTTTTTTTTTAGGCCAAA  
 ACCCATAAATGGCTCTGTGAGCTTGNGAAGAATAACTAAGTAGATAACCATAAAGAACAGTA  
 CCTGCTCCCTCTAGCTGGCTCTGCGGGCTCTGCAGAGGTTAGTTGGTGCAGCTGAGAAAC  
 AGGTTTTTGTCTAGGCCAGAGGAACTTCCTTCCCTAATTTTTTTTTTTTTTTTACTCCCA  
 CCTCTGTGTTATATAAATAGCCATCCAGATTGGGAGGAAGTGCAGTAGAGGCAAACT  
 AAATGTGTGAATGAAACGACGTGCTGCCGCTTTTAAAGTTTTAACATATTTGAAAAC  
 CCAGTGTTTTTTTTTTTTTTAGGTTTTCCAGTGAATGACAGGATGCATCTTTGTGCCA  
 AATGAGACAATCCACACTATTGTGGACTCCTAGAGGGCTAAGCATCCATCCCTCACCAC  
 GGTGCCTCAGACTCGTTTTCTAATTCACATATCCAGAAAAGGAGAATTGGGCAGGAACCA  
 TTCTAGAAAATTCCTGCAATGCAATTTTTGAGTTAGGTGGGCTGCCTTCTTTTACTCAGG  
 GAAAGGTCTTCTAATTAGGGTGAGGGACCCGAGCTGGGCTAACTAATGATCTGCTGAC  
 CTCTAAGGAGCAAGAGGGAGAAGAGAATGAGGTAAGTTCAGTAGAATAGTAAATGAAACA  
 GAAACCCACCCAGGGGAATACAGAAAAGCTTTGGGGCTGGTCATTTTTAGAAAATCATGT  
 GAGGCTTGGTGTGGCTGTGCATGCCTGTAATCCAGCTATTCCGGAAGGCCGAGGTGGGAG  
 GATCACTTGAGCCAGNAGTTCGAGACCAGCCTGGGGCATCACGGGGAGATCCTGTCTCT  
 TAAGNAGAAAAAACANAAAATTACGNAG

**Restriction Sites:**

NotI-NotI

**ACCN:**

AL833067

**Insert Size:**

1400 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:** [AL833067.1](#)

**RefSeq Size:** 5112 bp

**RefSeq ORF:** 5112 bp

**Locus ID:** 6509

**Cytogenetics:** 2p14

**Protein Families:** Druggable Genome, Transmembrane

**Gene Summary:** The protein encoded by this gene is a sodium-dependent neutral amino acid transporter for alanine, serine, cysteine, and threonine. Defects in this gene have been associated with developmental delay, microcephaly, and intellectual disability. [provided by RefSeq, Jan 2017]