

## Product datasheet for **RC231081**

### **SLC1A4 (NM\_001193493) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** SLC1A4 (NM\_001193493) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** SLC1A4  
**Synonyms:** ASCT1; SATT; SPATCCM  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC231081 representing NM\_001193493  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAACATTTTAGGATTGGTCTGTTTGTCTGGTGTAGGAGTGGCCTTAAAGAACTAGGCTCCGAAG  
GAGAAGACCTCATCCGTTTCTTCAATCCCTCAACGAGGCGACGATGGTGTGGTGTCTGGATTATGTG  
CTCAGCGACCCCTCCCTCTATGATGAAGTGCATTGAAGAGAACAATGGTGTGGACAAGAGGATCAGCAGG  
TTTATTCTCCCATCGGGCCACCGTGAACATGGACGGAGCAGCCATCTCCAGTGTGTGGCCGCGGTGT  
TCATTGCGCAACTCAACAACGTAGAGCTCAACGCAGGACAGATTTTACCATTCTAGTGACTGCCACAGC  
GTCCAGTGTGGAGCAGCAGGCGTGCCAGCTGGAGGGTCTCACCATTGCCATTATCCTGGAGGCCATT  
GGGCTGCCTACTCATGACCTGCCTCTGATCCTGGCTGTGGACTGGATTGTGGACCGGACCACCACGGTGG  
TGAATGTGAAGGGGATGCCCTGGGTGCAGGCATTCTCCACCACCTGAATCAGAAGGCAACAAAGAAAGG  
CGAGCAGGAACCTTGCTGAGGTGAAAGTGAAGCCATCCCCAACTGCAAGTCTGAGGAGGAGACATCGCCC  
CTGGTGACACACCAGAACCCCGCTGGCCCGTGGCCAGTCCCCAGAAGTGAATCCAAGGATCGGTTCTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC231081 representing NM\_001193493  
 Red=Cloning site Green=Tags(s)

MNILGLVLFALVLGVALKKLGSEGEDLIRFFNSLNEATMVLVSWIMCSATLPSMMKCIENNGVDKRISR  
 FILPIGATVNM DGAAIFQCVAAVFIAQLNNVELNAGQIFITILVTATASSVGAAGVPAGGVLTI AIIIEAI  
 GLPTHDLPLILAVDWIVDRTTTTVNVVEGDALGAGILHHLN QKATKKGEQELAEVKVEAIPNCKSEETSP  
 LVTHQN PAGPVASAPELESKESVL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001193493

**ORF Size:** 702 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_001193493.2](#)

**RefSeq ORF:** 705 bp

**Locus ID:** 6509

**UniProt ID:** [P43007](#)

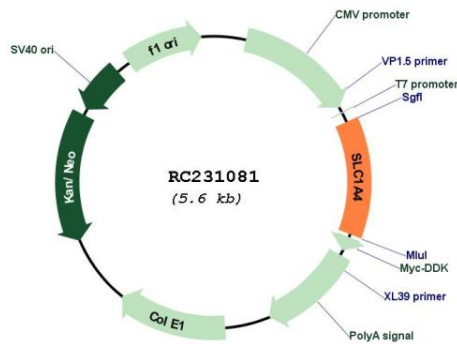
**Cytogenetics:** 2p14

**Protein Families:** Druggable Genome, Transmembrane

**MW:** 25.1 kDa

**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]

**Product images:**



Circular map for RC231081