

Product datasheet for **RG204487**

SLC1A4 (NM_003038) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC1A4 (NM_003038) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC1A4
Synonyms:	ASCT1; SATT; SPATCCM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG204487 representing NM_003038
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAGAAGACAAACGAGACCAACGGCTACCTTGACAGCGCTCAGCGGGGCTCGCGCCGGCCCGGAG
 CTCGGGGACCGCGCGGACGCGCACGGCGTTGCGCGGGCTTCCTGCGCGCCAAGCGCTGGTGTCTGCT
 CACCGTGTCCGGGTGCTGGCGGGCGGGGCTGGGCGCGGCGTTGCGCGGGCTCAGCCTGAGCCGACG
 CAGGTCACCTACCTGGCCTTCCCGGCGAGATGCTGCTCCGCATGCTGCGCATGATCATCTGCCCTGG
 TGGTCTGCAGCCTGGTGTGGGGCGCCCTCCCTCGATGCCAGCTGCCTCGGGCGTCTGGGCGGCATCGC
 TGTGCGCTACTTTGGCCTCACCACACTGAGTGCCTCGGCGCTCGCCGTGGCCTTGGCGTTTATCATCAAG
 CCAGGATCCGGTGCAGACCCCTCAGTCCAGCGACCTGGGGCTGGAGGACTCGGGGCTCCTCCTGTCC
 CCAAAGAGACGGTGGACTCTTCTCGACTGGCCAGAACTGTTCCCTCCAATCTTGTGGTTGCAGC
 TTTCCGTACGTATGCAACCGATTATAAAGTCGTGACCCAGAACAGCAGCTCTGGAATGTAAACCCATGAA
 AAGATCCCATAGGCACTGAGATAGAAGGGATGAACATTTTAGGATTGGTCTGTTTGTCTGGTGTAG
 GAGTGGCCTTAAAGAACTAGGCTCCGAAGGAGAAGACCTCATCCGTTTCTTCAATTCCTCAACGAGGC
 GACGATGGTGTGGTGTCTGGATTATGTGGTACGTACCTGTGGGCATCATGTTCCCTGTTGGAAGCAAG
 ATCGTGGAAATGAAAGACATCATCGTGTGGTACCAGCCTGGGAAATACATCTTCGCATCTATATTGG
 GCCATGTTATTTCATGGAGGAATTGTTCTGCCACTATTTATTTTGTTTTTCACACGAAAAACCCATTAG
 ATTCCTCCTGGGCTCCTCGCCCATTTGCGACAGCATTGCTACCTGCTCCAGCTCAGCGACCCCTCCC
 TCTATGATGAAGTGCATTGAAGAGAACAATGGTGTGGACAAGAGGATCAGCAGGTTTATTCTCCCATCG
 GGGCCACCGTGAACATGGACGGAGCAGCCATCTCCAGTGTGTGGCCGCGGTGTTATTGGCAACTCAA
 CAACGTAGAGCTCAACGCAGGACAGATTTTACCATTCTAGTGACTGCCACAGCGTCCAGTGTGGAGCA
 GCAGGCGTGCCAGCTGGAGGGTCTCACCATTGCCATTATCCTGGAGGCCATTGGGCTGCCTACTCATG
 ACCTGCCTCTGATCCTGGCTGTGGACTGGATTGTGGACCGGACCACCACGGTGGTGAATGTGGAAGGGGA
 TGCCCTGGGTGCAGGCATTCTCCACCACCTGAATCAGAAGGCAACAAAGAAAGGCGAGCAGGAACCTGCT
 GAGGTGAAAGTGAAGCCATCCCAACTGCAAGTCTGAGGAGGAGACATCGCCCTGGTGACACACCAGA
 ACCCCGCTGGCCCGTGGCCAGTGCCCCAGAATGGAATCCAAGGAGTCGGTTCTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG204487 representing NM_003038
 Red=Cloning site Green=Tags(s)

MEKSNETNGYLDSAQAGPAAGPGAPGTAAGRARRCAGFLRRQALVLLTVSGVLGAGLGAALRGLSLSRT
 QVTYLAFPGEMLLRMLRMIILPLVVCSLVSGAASLDASCLGRLGGIAVAYFGLTTLASALAVAFI
 IIPGSGAQTQSSDLGLEDSGPPVPKETVDSFLDLARNLFPNSLVVAAFRTYATDYKVVVTQNSSSGNV
 THEKIPIGTEIEGMNILGLVLFALVLGVALKKLGSEGEDLIRFFNSLNEATMVLVSWIMWYVPVIMFLV
 GSKIVEMKDIIVLVTSLGKYIFASILGHVIHGGIVLPLIYFVFRKNPFRLLGLLAPFATAFATCSSSAT
 LPSMMKCIENNGVDKRISRFILPIGATVNMDGAAIFQCVAAVFIAQLNNVELNAGQIFTILVTATASSV
 GAGVPAGGVLTI
 AILEAIGLPTHDLPLILAVDWIVDRTTTTVVNVEGDALGAGILHHLNQA
 TTKKGEQELAEVKVEAIPNCKSEEETSPLVTHQNPA
 GVPASAPELESKESVL

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_003038

ORF Size: 1596 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_003038.2](#), [NP_003029.2](#)

RefSeq Size: 4562 bp

RefSeq ORF: 1599 bp

Locus ID: 6509

UniProt ID: [P43007](#)

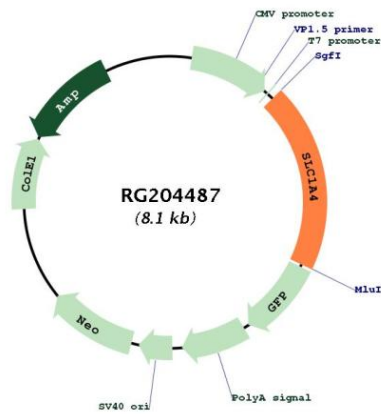
Cytogenetics: 2p14

Domains: SDF

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]

Product images:



Circular map for RG204487