

Product datasheet for **SC115649**

SLC6A14 (NM_007231) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | SLC6A14 (NM_007231) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | SLC6A14 |
| Synonyms: | BMIQ11 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL4</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |



[View online »](#)

Fully Sequenced ORF: >OriGene ORF within SC115649 sequence for NM_007231 edited (data generated by NextGen Sequencing)

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ATGGACAAGTTGAAATGCCCGAGTTTCTTCAAGTGCAGGGAGAAGGAGAAAAGTGTCCGGCT
TCATCAGAGAATTTCCATGTTGGTGAAAATGATGAGAATCAGGACCGTGGTAACTGGTCC
AAAAATCGGATTATCTTCTATCTATGATTGGATACGCAGTGGGATTAGGAAATGTGG
AGATTTCCATATCTGACCTACAGCAATGGTGGAGGCGCCTTCTTGATACCTTATGCAATT
ATGTTAGCATTGGCTGGTTTACCTTTGTTCTTTCTGGAGTGTTCACCTGGGACAATTTGCT
AGCTTAGGTCCAGTTTCAGTTTGGAGGATTCTTCCATTGTTTCAAGGTGTGGGAATTACA
ATGGTCTGATCTCCATTTTTGTGACAATCTATTACAATGTCATAATTGCCTATAGTCTT
TACTACATGTTTGCTTCTTTTCAAAGTGAACCTACCATGGAAAAATTGTTCTTCGTGGTCA
GATAAAAAGTGTAGCAGATCACCAATAGTAACTACTGTAATGTGAGTACAGTGAATAAA
GGAATACAAGAGATCATCCAAATGAATAAAAGCTGGGTAGACATCAACAATTTTACCTGC
ATCAACGGCAGTAAAATTTATCAGCCAGGCAGCTTCCCAGTGAACAATATTGGAATAAA
GTGGCGCTCCAACGGTCAAGTGAATGAATGAGACTGGAGTAATTGTTTGGTATTTAGCA
CTTTGTCTTCTTCTGGCTTGGCTCATAGTTGGAGCAGCACTATTTAAAGGAATCAAAATCG
TCTGGCAAGGTGGTATATTTTACAGCTCTTTTCCCTATGTGGTCTACTCATCCGTGTA
GTACGAGGTGCAACTCTGGAGGGTGCTTCAAAGGCATTTCACTATATTTGGAGCCAG
TCAAATTTTACAAAACCTAAGGAAGCTGAGGTATGGAAAGATGCTGCCACTCAGATATTT
TACTCCCTTTCAGTGGCTTGGGGTGGCTTAGTTGCTCTATCATCTTACAATAAGTTCAA
AACAACTGCTTCTCTGATGCCATTGTGGTTTGTGGACAACTGTCTCACTAGCGTGTGTT
GCTGGATTTGCTATTTTTCTATATTGGGACACATGGCCCATATATCTGGAAAGGAAGTT
TCTCAAGTTGAAAATCAGGTTTTGATTTGGCATTTCATTGCCTATCCAGAGGCTCTAGCC
CAACTCCCAGGTGGTCCATTTTGGTCCATATTATTTTTTTTTCATGCTTTTAACTTTGGGT
CTCGATTCTCAGTTTGTTCGATTGAAAACGATCACAACAACAATTCAAGATTTATTTCCC
AAAGTGATGAAGAAAATGAGGGTCCCATAACTTTGGGCTGCTGCTTGGTTTTGTTTCTC
CTTGGTCTCGTCTGTGTGACTCAGGCTGGAATTTACTGGGTTCATCTGATTGACCACTTC
TGTGCTGGATGGGGCATTTTAATTGCAGCTATACTGGAGCTAGTTGGAATCATCTGGATT
TATGGAGGGAACAGATTCATTGAGGATACAGAAATGATGATTGGAGCAAAGAGGTGGATA
TTCTGGCTATGGTGGAGAGCTTGTGGTTTGAATTACGCCTATCCTTTTATTGCAATA
TTTATCTGGTCATTGGTGAATTTTATAGACCTAATTATGGCGCAATTCATACCCTGAC
TGGGGAGTTGCTTTAGGCTGGTGTATGATTGTTTTCTGCATTATTTGGATTCCAATTATG
GCTATCATAAAAATAATTCAGGCTAAAGGAAACATCTTTCAACGCCTTATAAGTTGCTGC
AGACCAGCTTCTAACTGGGGTCCATACCTGGAACAACATCGTGGGGAAAGATATAAAGAC
ATGGTAGATCCTAAAAAAGAGGCTGACCATGAAATACCTACTGTTAGTGGCAGCAGAAAA
CCGGAATGA
    
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Clone variation with respect to NM_007231.3

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_007231 unedited
 GAAAGACATTCGCACGAGGGAGAGTGCACCTTGCTACCAGTCAAGCTCAGCCAGACTGCAT
 GTAGAGGCGAGGCGGAGCCAGCCGAGGGAGTGAACCATGGACAAGTTGAAATGCCCGAGT
 TTCTTCAAGTGCAGGGAGAAGGAGAAAGTGTGGCTTCATCAGAGAATTTCCATGTTGGN
 GAAAANGTTGAGAATCAGGACCGTGGTAAGTGGTCCAAAAATCGGATTATCTTCTATCT
 ATGATGGATACGCAGTGGGATTAGGAAATGTGTGGAGATTTCCATATCTGACCTACAGC
 AATGGTGGAGGCGCCTTCTTGATACCTTATGCAATTATGTTAGCATTGGCTGGTTACCT
 TTGTTCTTCTGGAGTGTCACTGGGACAATTTGCTAGCTTAGGTCCAGTTTCAGTTTGG
 AGGATTCTTCATTGTTTCAAGGTGTGGGAATTAATGGTCTGATCTCCATTTTTGTG
 ACAATCTATTACAATGTCATAATTGCCTATAGTCTTTACTACATGTTTGCTTCTTTTCAA
 AGTGAAC TACCATGGAAAAATTGTTCTTCGTGGT CAGATAAAAACTGTAGCAGATCACCA
 ATAGTAACTCACTGTAATGTGAGTACAGTGAATAAAGGAATACAAGAGATCATCCAAATG
 AATAAAAGCTGGGTAGACATCAACAATTTACCTGCATCAACGGCAGTGAATTTATCAG
 CCAGGGCAGCTTCCCAGTGAACAATATTGGAATAAAGTGGCGCTTCAACGGTCAAGTGA
 ATGAATGAGACTGGAGTAATTGTTTGGTATTTAGCACTTTGTCTTCTCTGGCTTGGCTC
 ATAGTTGGGAGCGCACTATTTAAAGGGAATCAAATCGTC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_007231 unedited
 GCCCTGGGGTGGGGGATCGCACTCTACTGTGNAAAAATTTTCATTAATGGTTTACAATA
 CAATACCATAAAATATCTCCAATTCGCGTGAAGGGAGTGGGATTTGATGTAATGTTTT
 CCATTATGTAGAATGATGTTTCTTGCCACTGTGGAATCTGAGTAATAATAAAAAACCA
 CCATTGAGCACCTACAATATGCCAAGCACTCTGTTGAATTCTGTGCTTTACACACTTGT
 GAAGAGGGTGAAGGAACTTTTAACTACTCTTTGCGGCCACCTCCGAAAACAATTTATT
 TCCTTACACCTCCCCAATTATATATTTCTCTCTTCACTATCCCCAAATCCCCCTGA
 ACGCTACACCCCTTTACAAAATCCCCACCCACCTCCCCCAACTGTCCGGTCCCAAG
 CCCCCCCCCACTCCCCCAACTCAACGGGTCGTTCCCTTACCTGCCCGTACCCATCAT
 CCCCCAGCGGTCTCAGACCGTCCCGCTCATACACATTCTACCCGTGAACCGCTCCGA
 CACGCCCGCTTCTCCCTCCACCTTGCCTCTCCTCGCATCCACCCATCACGGCTGTCAG
 GTATGTAGTTACCGTGGCTAGCAGGTGATCCTCCTCATGTTCCCGGACCCCCGCTCG
 TGGGCGTCCATGGTGCCAAATCCCCCACCCCCGCCCCGGCGGCTACTATCCGCTGTCG
 CGCCGCCCTCCCTCCCCCCCCCCCCCGCTCCCTCTCCCCCTACCTCCTCTACTG
 TTCCTTCTCTCCCTCGTCTTACCGCACCGCACTCATCCGTCGATCCTCCCCCGCT
 TCTCCCCGCTCCCTGGCGCTC

Restriction Sites:

NotI-NotI

ACCN:

NM_007231

Insert Size:

4660 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_007231.1](#), [NP_009162.1](#)

RefSeq Size: 4520 bp

RefSeq ORF: 1929 bp

Locus ID: 11254

UniProt ID: [Q9UN76](#)

Cytogenetics: Xq23

Domains: SNF

Protein Families: Druggable Genome, Transmembrane

Gene Summary: This gene encodes a member of the solute carrier family 6. Members of this family are sodium and chloride dependent neurotransmitter transporters. The encoded protein transports both neutral and cationic amino acids. This protein may also function as a beta-alanine carrier. Mutations in this gene may be associated with X-linked obesity. A pseudogene of this gene is found on chromosome X.[provided by RefSeq, May 2010]