

Product datasheet for **RC210809**

SLC6A14 (NM_007231) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC6A14 (NM_007231) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC6A14
Synonyms:	BMIQ11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC210809 representing NM_007231
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGACAAGTTGAAATGCCCGAGTTTCTCAAGTGCAGGGAGAAGGAGAAAGTGCGGCTTCATCAGAGA
ATTTCCATGTTGGTGAAAATGATGAGAATCAGGACCGTGGTAACTGGTCCAAAAATCGGATTATCTTCT
ATCTATGATTGGATACGCAGTGGGATTAGGAAATGTGTGGAGATTCCATATCTGACCTACAGCAATGGT
GGAGGCGCCTTCTTGATACCTTATGCAATTATGTTAGCATTGGCTGGTTACCTTTGTTCTTTCTGGAGT
GTTCACTGGGACAATTTGCTAGCTTAGGTCCAGTTTCAGTTTGGAGGATTCTCCATTGTTTCAAGGTGT
GGGAATTACAATGGTCTGATCTCCATTTTTGTGACAATCTATTACAATGCATAATTGCCTATAGTCTT
TACTACATGTTTGTCTTTTCAAAGTGAACCTACCATGGAAAAATGTTCTTCGTGGTCAGATAAACT
GTAGCAGATCACCAATAGTAACCTACTGTAATGTGAGTACAGTGAATAAAGGAATACAAGAGATCATCCA
AATGAATAAAAGCTGGGTAGACATCAACAATTTTACCTGCATCAACGGCAGTGAAATTTATCAGCCAGGG
CAGCTTCCAGTGAACAATATTGGAATAAAGTGGCGCTCAACGGTCAAGTGAATGAATGAGACTGGAG
TAATTGTTGGTATTTAGCACTTTGCTCTTCTGGCTTGGCTCATAAGTTGGAGCAGCACTATTTAAGG
AATCAAATCGTCTGGCAAGGTGGTATATTTTACAGCTCTTTCCCTATGTGGTCTACTCATCCTGTTA
GTACGAGGTGCAACTCTGGAGGGTGCTTCAAAGGCATTTCACTATATTTGGAGCCCAGTCAAATTTTA
CAAACCTAAGGAAGCTGAGGTATGAAAGATGCTGCCACTCAGATTTTTACTCCCTTTCAGTGGCTTG
GGGTGGCTTAGTGTCTATCATCTTACAATAAGTTCAAAAACAACCTGCTCTCTGATGCCATTGTGGTT
TGTTTGACAAACTGTCTCACTAGCGTGTGTTGCTGGATTTGCTATTTTTTCTATATTGGGACACATGGCCC
ATATATCTGAAAGGAAGTTTCTCAAGTTGTAATAACAGGTTTTGATTTGGCATTATTGCCTATCCAGA
GGCTCTAGCCCAACTCCCAGGTGGTCCATTTTGGTCCATATTATTTTTTTCATGCTTTTAACTTTGGGT
CTCGATTCTCAGTTGCTTCGATTGAAACGATCAACAACAATTCAAGATTTATTTCCAAAGTGATGA
AGAAAATGAGGGTCCCATAACTTTGGGCTGCTGCTTGGTTTTGTTTCTCCTTGGTCTCGTCTGTGTGAC
TCAGGCTGGAATTTACTGGTTCATCTGATTGACCACTTCTGTGCTGGATGGGGCATTTTAATTGCAGCT
ATACTGGAGCTAGTTGGAATCATCTGGATTTATGGAGGGAACAGATTCAATTGAGGATACAGAAATGATGA
TTGGAGCAAAGAGGTGGATATTCTGGCTATGGTGGAGAGCTTGTGGTTGTAATTACGCCTATCCTTTT
GATTGCAATTTTATCTGGTCAATTGGTGAATTTATAGACCTAATTATGGCGCAATTCATACCCTGAC
TGGGGAGTTGCTTTAGGCTGGTGTATGATTGTTTTCTGCATTATTTGGATTCCAATTATGGCTATCATAA
AAATAATTCAGGCTAAAGGAAACATCTTCAACGCCTTATAAGTTGCTGCAGACCAGCTTAACTGGGG
TCCATACCTGGAACAACATCGTGGGGAAAGATATAAAGACATGGTAGATCTAAAAAAGAGGCTGACCAT
GAAATACCTACTGTTAGTGGCAGCAGAAAACCGGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC210809 representing NM_007231
 Red=Cloning site Green=Tags(s)

MDLKLKCPSPFFKCREKEKVSASSENFHVGENDENQDRGNWSKSDYLLSMIGYAVGLGNVWRFPYLYTYSNG
 GGAFLIPYAIMLALAGLPLFFLECSLGQFASLGPVSVWRILPLFQGVGITMVLISIFVTIYYNVIAYS
 YYMFASFQSELPWKNCSWSDKNCSRSPIVTHCNVSTVNKGIQEI IQMNSWVDINNFTCINGSEIYQPG
 QLPSEQYWNKVALQRSSGMNETGVIVWYLALCLLLAWLIVGAALFKGIKSSGKVVYFTALFPYVLLILL
 VRGATLEGASKGISYYIGAQSNFTKLKEAEVWKDAATQIFYSLSVAWGGLVALSSYNKFKNNCFSDAIVV
 CLTNCLTSVFAGFAIFSILGHMAHISGKEYSQVVKSGFDLAFIAYPEALAQLPGGPFWSILFFFMLLTLG
 LDSQFASIIETITTTIQDLFPKVMKMRVPITLGCCLVFLGLVLCVTQAGIYWVHLIDHFAGWGILIAA
 ILELVGIWIYGGNRFIEDTEMMIGAKRWIFLWWRACWFVITPILLIAIFIWSLVQFHRPNYGAIPYDP
 WGVALGWCMIVFCIIWIPIMAIKIIQAKGNIFQRLISCCRPASNWGPYLEQHRGERYKDMVDPKKEADH
 EIPTVSGSRKPE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_007231

ORF Size: 1926 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](#)

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_007231.5](#)

RefSeq Size: 4520 bp

RefSeq ORF: 1929 bp

Locus ID: 11254

UniProt ID: [Q9UN76](#)

Cytogenetics: Xq23

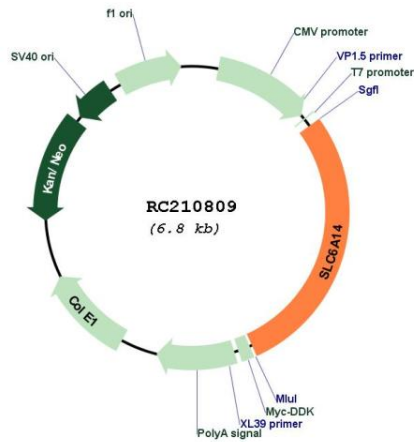
Domains: SNF

Protein Families: Druggable Genome, Transmembrane

MW: 72 kDa

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]

Product images:



Circular map for RC210809