

Product datasheet for **RC216281**

SLC6A16 (NM_014037) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC6A16 (NM_014037) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC6A16
Synonyms:	NT5; NTT5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC216281 representing NM_014037
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGAAGACAGAGGCCAGCCTTCGACATCCTTGCTGGCAAACACCTCATGGACTGGCACAGTGATTCTG
 ACAGTGTCCCAGGAAGTCAAACGTGGGAAGACAAGGGTTCATTGACCCGGTCTGCAACATCTTGACCTC
 AGAGGCCCAAGTTTCAGCAGCCCGGTTGCAGAGGCTCAGGCCAGGACCAGTCAGCCCAAGCAAATTTCT
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 AGAAAGAGAGTGAGGTCTCCTTGCCCGTCCGTTCTGGTCCAGCAAACTGAGTATATTCTGGCTCAGGT
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 TTCGCTGCCATCTACATCTTCATGCTGTTCTGGTCGGGTTCTCTTCTCTCTCGGAGATGGCAGCTG
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 CTTCTCCGTCTGTCTTCTGGTCTTTATCTTCTTCTGATGTTGCTGGCCATGGGGCTGAGCAGCGCAA
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 CTTTGTATACTGCCGCATACATAGGATTCCTTCAGGCCCAAGAGCGGAGACGGGCTATGACAGCCTCC
 ACATCCCTACCCCTAAGTCACCAGCTAACACCCAGTAAAGAGGTTCAAAGGAAGAAATTTCTACAAGTTG
 ATGAAACAAAGTACCCATCAACTTGTAATGTGACTTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC216281 representing NM_014037
 Red=Cloning site Green=Tags(s)

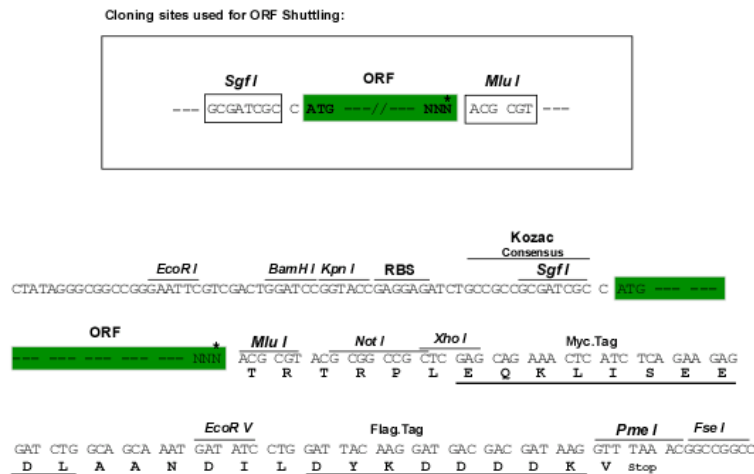
MKTEAQPSTSLANTSWTGTVISDSVPGSQTWEDKGSLTRSATSWTSEAQVSAARVAEAQARTSQPKQIS
 VLEALTASALNQKPTHEKVQMTKEKSEVLLARPFWSSKTEYILAQVGFSSMKPSCWRFAYLWLNSSGGCS
 FAAIYIFMLFLVGVPLLFLEMAAGQSMRQGGMGVWKIIAPWIGGVGYSSFMVCFILGLYFNVNSWIF
 MSQSFQFPVPWEKCPMTNSSGFDPECERTTPSIYFWYQQALKASDRIEDGGSPVSLVLPFFLCWCLVG
 AFMINGLKSTGKVIYVLVLLPCFIIVGFFIRTLLEGAQFGLQQLVVAKISDVYNMSVWSLGGQVLSNT
 GIGLGSVASLASYPQSNCLSDAFLVSVINLLTLLVFTSFNFCVLGFWATVITHRCERNAEILLKLN
 LGKLPPDAKPPVNLLYNPTSIYNAWLSGLPQHIKSMVLREVTECNIETQFLKASEGPKFAFLSFVEAMSF
 LPPSVFWSFIFFLMLLAMGLSSAIGIMQGIITPLQDTSFFRKHTKLLIVGVFLLMFVCGLFFTRPSGSY
 FIRLLSDYWIVFPIIVVVVFETMAVSWAYGARRFLADLTILLGHPISPIFGWLWPHLCVPVLLIIFVTMM
 VHLCKMPITYMSWDSSTSKEVLRPYPPWALLMITLFAIVILPIPAYFVYCRIPRIPRPSKSGDGPMTAS
 TSLPLSHQLTPSKEVQKEEILQVDETKYPSTCNVTS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8008_h01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_014037

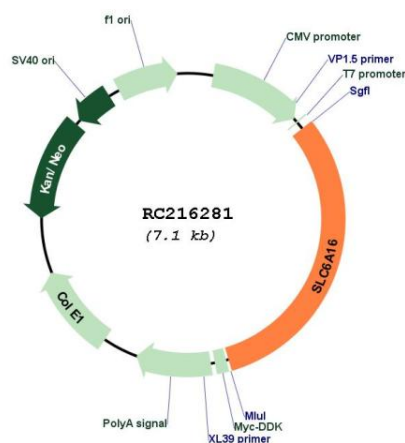
ORF Size: 2208 bp

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](#)

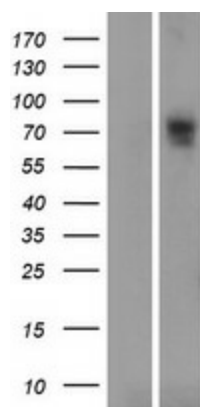
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_014037.3</u>
RefSeq Size:	2945 bp
RefSeq ORF:	2211 bp
Locus ID:	28968
UniProt ID:	<u>Q9GZN6</u>
Cytogenetics:	19q13.33
Protein Families:	Druggable Genome, Transmembrane
MW:	82 kDa
Gene Summary:	SLC6A16 shows structural characteristics of an Na(+)- and Cl(-)-dependent neurotransmitter transporter, including 12 transmembrane (TM) domains, intracellular N and C termini, and large extracellular loops containing multiple N-glycosylation sites.[supplied by OMIM, Mar 2008]

Product images:



Circular map for RC216281



Western blot validation of overexpression lysate (Cat# [LY415512]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC216281 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).