

Product datasheet for **RC224118**

SLC6A17 (NM_001010898) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC6A17 (NM_001010898) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC6A17
Synonyms:	MRT48; NTT4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RC224118 representing NM_001010898
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCCGAAGAACAGCAAAGTGACCCAGCGTGAGCACAGCAGTGAGCATGTCACTGAGTCCGTGGCCGACC
TGCTGGCCCTCGAGGAGCCTGTGGACTATAAGCAGAGTGTACTGAATGTGGCTGGTGAGGCAGGCGGCAA
GCAGAAGCGCGGTGGAGGAGGAGCTGGATGCAGAGGACCGCCGGCCTGGAACAGTAAAGCTGCAGTACATC
CTGGCCAGATTGGCTTCTCTGTGGCCTCGGCAACATCTGGAGGTTCCCTACCTGTGCCAGAAAAATG
GAGGAGGTGCTTACCTGGTGCCCTACCTGGTGCTGCTGATCATCATCGGGATCCCCCTCTTCTTCTGGA
GCTGGCTGTGGGTCAGAGGATCCGCCGCGGCAGCATCGGTGTGTGGCACTATATATGTCCCCGCTGGGG
GGCATCGGCTTCCAGCTGCATAGTCTGTCTCTTTGTGGGGCTGATTATAATGTGATCATCGGGTGA
GCATCTTCTATTTCTCAAGTCCTTCCAGTACCCGCTGCCCTGGAGTGAATGCTCTGTCGTCAGGAATGG
GAGCGTGGCAGTGGTGGAGGCAGAGTGTGAAAAGAGCTCAGCCACTACCTACTTCTGGTACCGAGAGGCC
TTGGACATCTCTGACTCCATCTCGGAGAGTGGGGGCTCAACTGGAAGATGACCCGTGSCCTCTCGTGG
CCTGGAGCATCGTGGGATGGCTGTCGTTAAGGGCATCCAGTCCCTCGGGGAGGTGATGTATTTAGCTC
CCTCTTCCCTACGTGGTGTGGCTGCTTCTGGTCCGGGGGCTGTTGCTGCGAGGGGAGTGTGATGGC
ATCCTACACATGTTCACTCCCAAGCTGGACAAGATGCTGGACCCCGAGTGTGGCGGGAGGCAGCTACCC
AGGTCTTCTTGGCCTGGGCCTGGGCTTTGGTGGTGTCAATTGCCTTCTCCAGCTACAATAAGCAGGACAA
CAACTGCCACTTCGATGCCGCCCTGGTGTCTTCACTCACTTCTTACAGTCAAGTGTGGCCACCCCTCGT
GTGTTTGTGTGCTGGGCTTCAAGGCCAACATCATGAATGAGAAGTGTGTGGTGCAGAAATGCTGAGAAAA
TCCTAAGGTACCTTAACACCAACGTCTGAGCCGGGACCTCATCCACCCACGTCAACTTCTCCAGCCT
GACCACAAGGACTACATGGAGATGTACAATGTCAATCATGACCGTGAAGGAGGACCAAGTCTCAGCCCTG
GGCCTTGACCCCTGCCTTCTGGAGGACGAGCTGGACAAGTCCGTGCAGGGCACAGGCCTGGCCTTATCG
CCTTCACTGAGGCCATGACGCACTTCCCCGCTCCCGTCTGCTCCGTCATGTTCTTCTGATGCTTAT
CAACCTGGGCCTGGGAGCATGATCGGGACCATGGCAGGCATCACACGCCCATCATCGACACCTTCAAG
GTGCCAAGGAGATGTTACAGTGGGCTGCTGTGCTTTTGCATTCTCGTGGGGCTGTTGTTCTGTCACG
GCTCCGGAACACTACTTTGTACCATGTTTCGATGACTACTCGGCCACCCTGCCACTACTCTCATCGTCAT
CCTTGAGAACATCGCTGTGGCCTGGATTTATGGAACCAAGAAGTTCATGCAGGAGCTGACGGAGATGCTG
GGCTTCCGCCCTACCGCTTCTATTTCTACATGTGGAAGTTCGTGTCTCCACTATGCATGGCTGTGCTCA
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CGAGCGCTACCTGTATTTCCCAACTGGGCCATGGCACTCCTGATCACCCATCATCGTCTGGCGACGCTG
CCCATCCCTGTGGTGTCTGCTCCTGCGGCACTTCCACCTGCTCTCTGATGGCTCCAACACCCTCTCCGTG
CCTACAAGAAGGGCCGCATGATGAAGGACATCTCCAACCTGGAGGAGAACGATGAGACCCGCTTATCTCT
CAGCAAGGTGCCAGTGGAGCACCTTCCCCATGCCACTCACCGTTCCTATCTGGGGCCCGGCAGCACA
TCACCCCTGGAGACCAGCGGTAACCCCAATGGACGCTATGGGAGCGGCTACCTGCTGGCCAGCACCCCTG
AGTCGGAGCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC224118 representing NM_001010898
 Red=Cloning site Green=Tags(s)

MPKNSKVTQREHSSEHVTESVADLLALEEPVDYKQSVLNVAGEAGGKQKAVEEELDAEDRPANWSKLQYI
 LAQIGFSVGLGNIWRFPYLCQKNGGGAYLVPYL VLLIIIGIPLFFLELAVGQRIRRSIGVWHYICPRLG
 GIGFSSCIVCLFVGLYYNVIIGWSIFYFFKSFQYPLPWSECPVVRNGSVAVVEAECEKSSATTYFWYREA
 LDISDSISESGGLNWKMTLCLLVAWSIVGMVVKGIQSSGKVMYFSSLFPYVVLACFLVRGLLLRGAVDG
 ILMHFTPKLDKMLDPQVWREAATQVFFALGLGFGGVIAFSSYNKQDNNCHFDAALVSFINFFTSVLATLV
 VFAVLGFKANIMNEKCVVENAEKILGYLNTNLSRDLIIPHVNFSHLTTKDYMEMYNVIMTVKEDQFSAL
 GLDPCLLEDELKSVQGTGLAFIAFTEAMTHFPASPFWSVMFFLMLINLGLGSMIGTMAGITTPIIDTFK
 VPKEMFTVGCCVFAFLVGLLFVQRSGNYFTMFDDYSATLPLTLIVILENIAVAWIYGTKKFMQELTEML
 GFRPYRFYFWMKFVSPLCMAVLTASIIQLGVTPPGYSAWIKEEAAERYLYFPNWAMALLITLIVVATL
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 SPLETSGNPNGRYGSGYLLASTPESEL

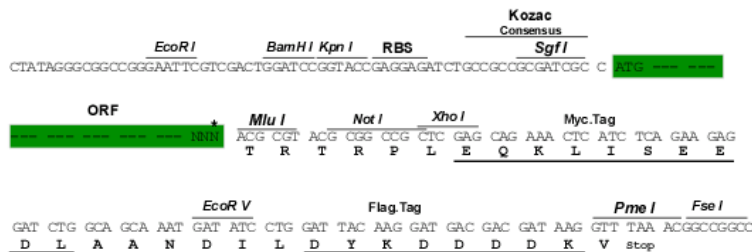
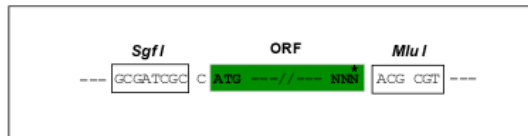
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8004_d06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001010898

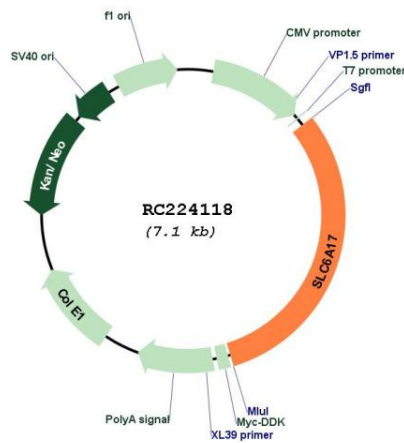
ORF Size: 2181 bp

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](#)

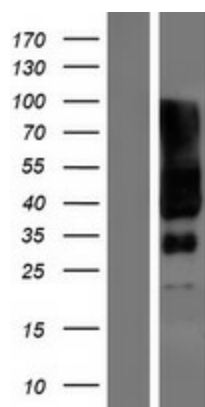
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<ol style="list-style-type: none"> 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:	<u>NM_001010898.4</u>
RefSeq Size:	6420 bp
RefSeq ORF:	2184 bp
Locus ID:	388662
UniProt ID:	<u>Q9H1V8</u>
Cytogenetics:	1p13.3
Protein Families:	Druggable Genome, Transmembrane
MW:	80.8 kDa
Gene Summary:	The protein encoded by this gene is a member of the SLC6 family of transporters, which are responsible for the presynaptic uptake of most neurotransmitters. The encoded vesicular transporter is selective for proline, glycine, leucine and alanine. In mouse, the strongest expression of this gene was in cortical and hippocampal tissues where expression increased during embryonic brain development and peaked postnatally. Defects in this gene cause a form of autosomal recessive intellectual disability. [provided by RefSeq, Jul 2017]

Product images:



Circular map for RC224118



Western blot validation of overexpression lysate (Cat# [LY423218]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224118 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).