OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RG224118

SLC6A17 (NM_001010898) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC6A17 (NM_001010898) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC6A17
Synonyms:	MRT48; NTT4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

ORF Nucleotide Sequence:

>RG224118 representing NM_001010898
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCGAAGAACAGCAAAGTGACCCAGCGTGAGCACAGCAGTGAGCATGTCACTGAGTCCGTGGCCGACC
TGCTGGCCCTCGAGGAGCCTGTGGACTATAAGCAGAGTGTACTGAATGTGGCTGGTGAGGCAGGCGGCAA
GCAGAAGGCGGTGGAGGAGGAGCTGGATGCAGAGGACCGGCCGGCCTGGAACAGTAAGCTGCAGTACATC
CTGGCCCAGATTGGCTTCTCTGTGGGCCTCGGCAACATCTGGAGGTTCCCCTACCTGTGCCAGAAAAATG
GAGGAGGTGCTTACCTGGTGCCCTACCTGGTGCTGCTGATCATCATCGGGATCCCCCTCTTCTTCCTGGA
GCTGGCTGTGGGTCAGAGGATCCGCCGCGGCAGCATCGGTGTGTGGCACTATATATGTCCCCGCCTGGGG
GGCATCGGCTTCTCCAGCTGCATAGTCTGTCTCTTTGTGGGGCTGTATTATAATGTGATCATCGGGTGGA
GCATCTTCTATTTCTTCAAGTCCTTCCAGTACCCGCTGCCCTGGAGTGAATGTCCTGTCGTCAGGAATGG
GAGCGTGGCAGTGGTGGAGGCAGAGTGTGAAAAGAGCTCAGCCACTACCTACTTCTGGTACCGAGAGGCC
TTGGACATCTCTGACTCCATCTCGGAGAGTGGGGGCCTCAACTGGAAGATGACCCTGTGCCTCCTCGTGG
CCTGGAGCATCGTGGGGATGGCTGTCGTTAAGGGCATCCAGTCCTCGGGGAAGGTGATGTATTTCAGCTC
CCTCTTCCCCTACGTGGTGCTGGCCTGCTTCCTGGTCCGGGGGCTGTTGCTGCGAGGGGCAGTTGATGGC
ATCCTACACATGTTCACTCCCAAGCTGGACAAGATGCTGGACCCCCAGGTGTGGCGGGAGGCAGCTACCC
AGGTCTTCTTTGCCTTGGGCCTGGGCTTTGGTGGTGTCATTGCCTTCTCCAGCTACAATAAGCAGGACAA
CAACTGCCACTTCGATGCCGCCCTGGTGTCCTTCATCAACTTCTTCACGTCAGTGTTGGCCACCCTCGTG
GTGTTTGCTGTGCTGGGCTTCAAGGCCAACATCATGAATGAGAAGTGTGTGGTCGAGAATGCTGAGAAAA
TCCTAGGGTACCTTAACACCAACGTCCTGAGCCGGGACCTCATCCCACCCCACGTCAACTTCTCCCACCT
GACCACAAAGGACTACATGGAGATGTACAATGTCATCATGACCGTGAAGGAGGACCAGTTCTCAGCCCTG
GGCCTTGACCCCTGCCTTCTGGAGGACGAGCTGGACAAGTCCGTGCAGGGCACAGGCCTGGCCTTCATCG
CCTTCACTGAGGCCATGACGCACTTCCCCGCCTCCCCGTTCTGGTCCGTCATGTTCTTCTTGATGCTTAT
CAACCTGGGCCTGGGCAGCATGATCGGGACCATGGCAGGCATCACCACGCCCATCATCGACACCTTCAAG
GTGCCCAAGGAGATGTTCACAGTGGGCTGCTGTGTCTTTGCATTCCTCGTGGGGCTGTTGTTCGTCCAGC
GCTCCGGAAACTACTTTGTCACCATGTTCGATGACTACTCGGCCACCCTGCCACTCACTCTCATCGTCAT
CCTTGAGAACATCGCTGTGGCCTGGATTTATGGAACCAAGAAGTTCATGCAGGAGCTGACGGAGATGCTG
GGCTTCCGCCCCTACCGCTTCTATTTCTACATGTGGAAGTTCGTGTCTCCACTATGCATGGCTGTGCTCA
CCACAGCCAGCATCATCCAGCTGGGGGTCACGCCCCCGGGCTACAGCGCCTGGATCAAGGAGGAGGCTGC
CGAGCGCTACCTGTATTTCCCCAACTGGGCCATGGCACTCCTGATCACCCTCATCGTCGTGGCGACGCTG
CCCATCCCTGTGGTGTTCGTCCTGCGGCACTTCCACCTGCTCTCTGATGGCTCCAACACCCTCTCCGTGT
CCTACAAGAAGGGCCGCATGATGAAGGACATCTCCAACCTGGAGGAGAACGATGAGACCCGCTTCATCCT
CAGCAAGGTGCCCAGTGAGGCACCTTCCCCCATGCCCACTCACCGTTCCTATCTGGGGCCCGGCAGCACA
TCACCCCTGGAGACCAGCGGTAACCCCAATGGACGCTATGGGAGCGGCTACCTGCTGGCCAGCACCCCTG
AGTCGGAGCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

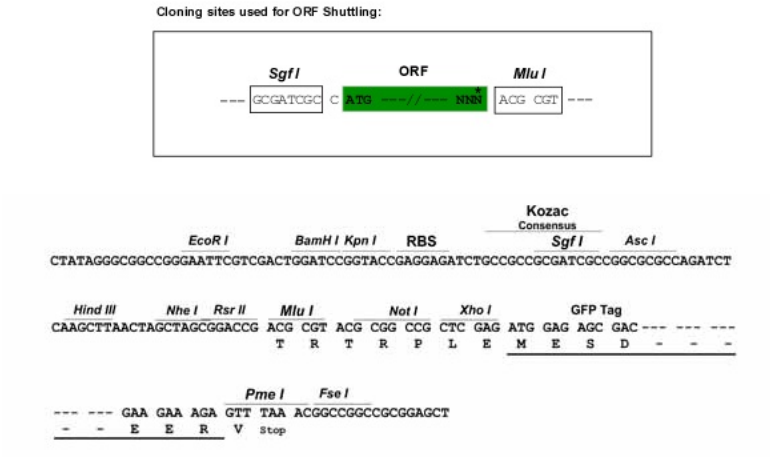
>RG224118 representing NM_001010898
Red=Cloning site Green=Tags(s)

MPKNSKVTQREHSSEHVTESVADLLALEEPVDYKQSVLNVAGEAGGKQKAVEEELDAEDRPAWNSKLQYI
LAQIGFSVGLGNIWRFPYLCQKNGGGAYLVPYLVLLIIIGIPLFFLELAVGQRIRRGSIGVWHYICPRLG
GIGFSSCIVCLFVGLYYNVIIGWSIFYFFKSFQYPLPWSECPVVRNGSVAVVEAECEKSSATTYFWYREA
LDISDSISESGGLNWKMTLCLLVAWSIVGMAVVKGIQSSGKVMYFSSLFPYVVLACFLVRGLLLRGAVDG
ILHMFTPKLDKMLDPQVWREAATQVFFALGLGFGGVIAFSSYNKQDNNCHFDAALVSFINFFTSVLATLV
VFAVLGFKANIMNEKCVVENAEKILGYLNTNVLSRDLIPPHVNFSHLTTKDYMEMYNVIMTVKEDQFSAL
GLDPCLLEDELDKSVQGTGLAFIAFTEAMTHFPASPFWSVMFFLMLINLGLGSMIGTMAGITTPIIDTFK
VPKEMFTVGCCVFAFLVGLLFVQRSGNYFVTMFDDYSATLPLTLIVILENIAVAWIYGTKKFMQELTEML
GFRPYRFYFYMWKFVSPLCMAVLTTASIIQLGVTPPGYSAWIKEEAAERYLYFPNWAMALLITLIVVATL
PIPVVFVLRHFHLLSDGSNTLSVSYKKGRMMKDISNLEENDETRFILSKVPSEAPSPMPTHRSYLGPGST
SPLETSGNPNGRYGSGYLLASTPESEL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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: 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_001010898.4

RefSeq Size: 6420 bp

RefSeq ORF: 2184 bp

Locus ID: 388662

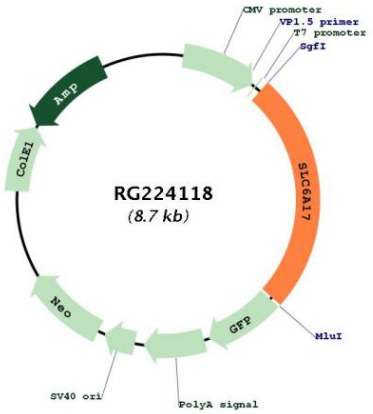
UniProt ID: Q9H1V8

Cytogenetics: 1p13.3

Protein Families: Druggable Genome, Transmembrane

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 RG224118