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Product datasheet for RR203107

Slc6a17 (NM_001033079) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc6a17 (NM_001033079) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc6a17
Synonyms:	Ntt4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RR203107 representing NM_001033079
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCGAAGAACAGCAAGGTGACCCAGCGTGAACACAGCAATGAGCATGTCACTGAGTCGGTGGCTGACC
TGCTGGCCCTCGAGGAGCCTGTGGACTATAAGCAGAGTGTACTGAACGTGGCTGGTGAGACAGGTGGCAA
GCAGAAGGTGGCGGAGGAGGAGCTGGACGCAGAGGACCGGCCAGCCTGGAACAGCAAGCTGCAGTACATC
CTGGCCCAGATCGGCTTTTCTGTGGGCCTTGGCAACATCTGGAGGTTCCCCTACCTGTGCCAGAAAAATG
GAGGAGGTGCCTACCTGGTGCCCTACCTGGTGCTGCTGATCATTATTGGCATCCCCCTCTTCTTTCTGGA
GCTGGCTGTGGGCCAGAGGATCCGCCGTGGCAGCATTGGGGTCTGGCACTATGTGTGCCCCCGCCTGGGG
GGCATTGGCTTTTCCAGCTGTATTGTCTGCCTCTTCGTTGGGCTGTACTACAACGTGATCATTGGATGGA
GCGTCTTCTACTTCTTCAAGTCTTTCCAGTACCCACTGCCCTGGAGTGAATGTCCTGTCATCAGGAATGG
GACTGTGGCAGTGGTGGAGCCTGAGTGCGAGAAGAGCTCAGCTACTACCTACTTCTGGTATCGAGAGGCC
TTGGACATCTCCAACTCCATCTCAGAGAGTGGGGGCCTCAACTGGAAGATGACAGTCTGCCTCCTTGTGG
CCTGGAGCATCGTGGGCATGGCTGTAGTCAAGGGCATCCAGTCCTCTGGAAAGGTAATGTATTTCAGCTC
CCTCTTCCCCTATGTGGTGTTGGCCTGCTTCCTGGTCCGGGGACTGCTGCTTCGAGGGGCAGTTGATGGC
ATCCTGCACATGTTCACTCCTAAGCTGGACAAGATGCTGGACCCCCAGGTGTGGCGGGAGGCAGCCACGC
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TAACTGCCACTTCGATGCTGCCTTGGTGTCCTTCATCAACTTCTTCACCTCCGTGTTGGCCACCCTCGTG
GTGTTTGCAGTGCTGGGTTTCAAAGCTAACATCATGAATGAGAAGTGTGTGGTCGAGAATGCTGAGAAAA
TTCTAGGGTACCTCAACTCCAATGTCTTGAGCCGGGACCTCATCCCACCCCACGTCAACTTCTCTCACCT
GACCACCAAGGACTACTCAGAGATGTACAATGTCATCATGACTGTTAAGGAGAAGCAGTTCTCAGCCCTG
GGCCTGGATCCTTGCCTCCTGGAGGATGAGCTGGACAAGTCTGTGCAGGGCACAGGCCTGGCCTTCATCG
CCTTCACTGAGGCCATGACACATTTCCCGGCCTCTCCGTTCTGGTCGGTCATGTTCTTCCTGATGCTCAT
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GTGCCCAAGGAGATGTTCACAGTGGGCTGCTGTGTCTTTGCATTCTTCGTGGGGCTATTGTTCGTCCAGC
GCTCCGGAAACTACTTTGTCACCATGTTTGATGACTATTCGGCCACCCTGCCACTCACCGTCATCGTCAT
CCTTGAGAACATCGCTGTGGCCTGGATTTACGGAACCAAGAAGTTTATGCAGGAGCTGACAGAGATGCTG
GGCTTCCGACCGTACCGATTCTATTTCTACATGTGGAAGTTTGTGTCTCCACTGTGCATGGCTGTCCTCA
CCACAGCCAGCATCATCCAGCTGGGGGTGTCACCCCCAGGCTACAGTGCCTGGATTAAGGAGGAGGCCGC
CGAGCGCTACTTGTACTTCCCCAATTGGGCCATGGCACTGCTGATCACCCTCATTGCTGTGGCAACCCTG
CCTATCCCTGTGGTGTTCATCCTGAGGCACTTCCACCTGCTCTCTGATGGTTCCAACACCCTCTCCGTGT
CCTACAAGAAGGGCCGCATGATGAAGGACATCTCCAACCTGGAGGAGAACGATGAGACACGCTTCATCCT
CAGCAAGGTGCCCAGTGAGGCACCCTCCCCCATGCCCACCCACCGCTCCTATCTGGGGCCTGGCAGCACA
TCACCCTTGGAGAGCAGCAGTCACCCCAATGGACGATACGGGAGCGGCTACCTCTTGGCCAGCACCCCTG
AGTCAGAGCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

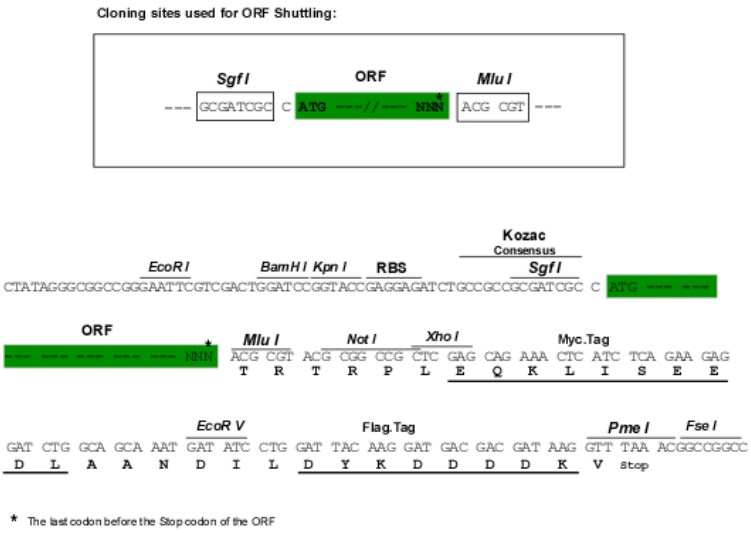
>RR203107 representing NM_001033079
Red=Cloning site Green=Tags(s)

MPKNSKVTQREHSNEHVTESVADLLALEEPVDYKQSVLNVAGETGGKQKVAEEELDAEDRPAWNSKLQYI
LAQIGFSVGLGNIWRFPYLCQKNGGGAYLVPYLVLLIIIGIPLFFLELAVGQRIRRGSIGVWHYVCPRLG
GIGFSSCIVCLFVGLYYNVIIGWSVFYFFKSFQYPLPWSECPVIRNGTVAVVEPECEKSSATTYFWYREA
LDISNSISESGGLNWKMTVCLLVAWSIVGMAVVKGIQSSGKVMYFSSLFPYVVLACFLVRGLLLRGAVDG
ILHMFTPKLDKMLDPQVWREAATQVFFALGLGFGGVIAFSSYNKQDNNCHFDAALVSFINFFTSVLATLV
VFAVLGFKANIMNEKCVVENAEKILGYLNSNVLSRDLIPPHVNFSHLTTKDYSEMYNVIMTVKEKQFSAL
GLDPCLLEDELDKSVQGTGLAFIAFTEAMTHFPASPFWSVMFFLMLINLGLGSMIGTMAGITTPIIDTFK
VPKEMFTVGCCVFAFFVGLLFVQRSGNYFVTMFDDYSATLPLTVIVILENIAVAWIYGTKKFMQELTEML
GFRPYRFYFYMWKFVSPLCMAVLTTASIIQLGVSPPGYSAWIKEEAAERYLYFPNWAMALLITLIAVATL
PIPVVFILRHFHLLSDGSNTLSVSYKKGRMMKDISNLEENDETRFILSKVPSEAPSPMPTHRSYLGPGST
SPLESSSHPNGRYGSGYLLASTPESEL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001033079

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_001033079.1, NP_001028251.1

RefSeq Size: 6411 bp

RefSeq ORF: 2184 bp

Locus ID: 613226

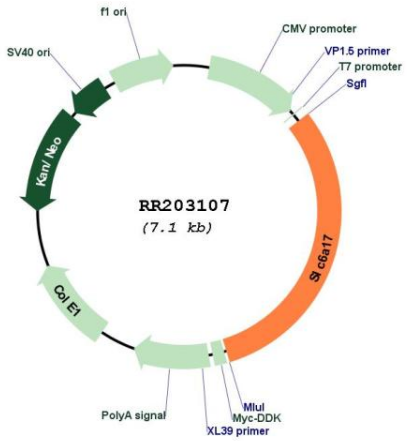
UniProt ID: P31662

Cytogenetics: 2q34

MW: 81.1 kDa

Gene Summary: Functions as a sodium-dependent vesicular transporter selective for proline, glycine, leucine and alanine. In contrast to other members of this neurotransmitter transporter family, does not appear to be chloride-dependent.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR203107