

Product datasheet for **MR219205**

Slc6a17 (NM_172271) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc6a17 (NM_172271) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc6a17
Synonyms:	D130012J15Rik; Ntt4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR219205 representing NM_172271
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCCGAAGAACAGCAAGGTGACCCAGCGCAACACAGCAATGAGCATGTCACCGAGTCAGTGGCTGACT
TGCTGGCTCTGGAGGAGCCTGTGGACTACAAGCAGAGTGTACTGAACGTGGCCGGCGAGACAGGTGGCAA
GCAGAAGGTGGCGGAGGAGGAGCTGGACACAGAGGACCGCCAGCCTGGAATAGCAAGCTGCAGTACATC
CTGGCCCAGATTGGCTTCTCTGTGGCCTGGGCAACATCTGGAGGTTCCCTACCTGTGCCAGAAAAATG
GAGGAGGTGCCTATCTGGTGCCTATCTGGTGTGCTTATCATCATTGGCATCCCCTCTTCTTTCTGGA
GCTGGCTGTGGGCAGAGGATCCGCCGTGGCAGCATTGGTGTGTGGCACTATGTGTGCCCCCGCCTGGGG
GGCATCGGCTTTCCAGCTGTATTGTCTGCCTCTTCGTTGGGCTGTACTACAATGTGATCATTGGGTGGA
GCGTCTTCTATTTCTCAAGTCTTCCAGTACCCACTGCCCTGGAGTGAATGTCCTGTATCAGGAATGG
GACTGTAGCAGTGGTGGAGCCTGAGTGTGAGAAGAGCTCAGCTACTACCTACTTTTGGTACCGAGAGGCC
TTGGACATCTCCAACCGATTTCCAGAGAGTGGGGCCCTCAACTGGAAGATGACACTCTGCCTCCTTGTGG
CCTGGAGCATCGTGGCATGGCTGTCGTCGAAGGGCATCCAGTCCCTCTGGAAGGTAATGTATTTAGCTC
CCTCTTCCCTTATGTGGTGTGGCCTGCTTCTGGTCCGGGGGCTGCTGCTTCGAGGGGAGTGGATGGC
ATCCTGCACATGTTCACTCCTAAGCTGGACAAGATGCTGGACCCCGAGGTGTGGCGGGAGGCAGCCACAC
AGGTCTTCTTCGCCCTGGGGCTGGGCTTTGGAGGCGTCATCGCCTTTCCAGCTACAACAAACAGGACAA
TAACTGCCACTTCGATGCTGCCCTGGTGTCTTCACTCACTTCTTCACTCGGTGTTGGCCACCCCTCGT
GTGTTTGTGTGCTGGGCTTCAAAGCCAACATCATGAATGAGAAGTGTGTGGTGGAGAAATGCTGAGAAAA
TTCTAGGGTACCTCAACTCCAATGTCTTGAGCCGGGACCTCATCCACCTCACGCAACTTCTCACACT
GACTACCAAGGACTACTCAGAGATGTACAGCGTCACTGACTGTTAAGGAGAAGCAGTTCACAGCCCTG
GGCCTGGATCCCTGCCTCTTGGAGGATGAGCTGGACAAGGGCACAGGCCTGGCCTTCACTGCCTTCACTG
AGGCCATGACACATTTCCCGCCCTCCCCGTTCTGGTCCGTGATGTTCTTCTTGTGCTCATCAACCTGGG
CCTGGGCAGCATGATCGGGACCATGGCAGGAATCACCACCCATCATCGACACCTTCAAGGTGCCAAG
GAGATGTTACAGTTGGCTGCTGTGCTTTGCATTCTTCGTGGGGCTGTTGTTCCGTCAGCGCTCCGGAA
ACTACTTTGTACCATGTTTGTGACTATTCGGCCACCCTGCCACTCACCGTCATCGTCATCCTTGAGAA
CATCGCTGTGGCCTGGATTTATGGAACCAAGAAGTTTATGCAGGAGCTGACAGAGATGCTGGGCTTCCAG
CCGTATCGATTCTATTTCTACATGTGGAAGTTTGTGTCTCCACTGTGCATGGCTGTGCTCACCACAGCCA
GCATCATCCAGCTGGGGGTGTCGCCCCAGGCTACAGTGCCTGGATCAAAGAGGAGGCTGCTGAGCGCTA
CTTGTACTTCCCCAACTGGGCCATGGCACTGCTGATCACCTCATTGCCGTGGCCACCCTGCCATCCCT
GTGGTGTTCATCTGCGGCACTTCCACTTGCTCTCCGACGGGTCCAACACCCTCTCTGTGTCTTACAAGA
AGGGCCGCATGATGAAGGACATCTCAAATCTGGAGGAGAACGATGAGACGCGCTTCACTCAGCAAGGT
GCCAGTGAGGCGCCCTCCCCATGCCACCCACCGCTCCTATCTGGGGCTGGCAGCACATCACCTTG
GATAACAGCAACAATCCCAACGGACGCTATGGAAGCGGCTACCTTTGGCCAGCACCCCTGAGTCAGAGC
TG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR219205 representing NM_172271
Red=Cloning site Green=Tags(s)

MPKNSKVTQREHSNEHVTESVADLLALEEPVDYKQSVLNAVAGETGGKQKVAEEELDTEPRAWNSKLQYI
 LAQIGFSVGLGNIWRFPYLQKNGGGAYLVPYL VLLIIIGIPLFFLELAVGQRIRRGSGIGVWHYVCPRLG
 GIGFSSCIVCLFVGLYYNVIIGWSVFYFFKSFQYPLPWSECPVIRNGTVAVVEPECEKSSATTYFWYREA
 LDISNSISESGGLNWKMTLCLLVAWSIVGMVVKGIQSSGKVMYFSSLFPYVVLACFLVRGLLLRGAVDG
 ILHMFTPKLDKMLDPQVWREAATQVFFALGLGFGGVIAFSSYNKQDNNCHFDAALVSFINFFTSVLATLV
 VFAVLGFKANIMNEKCVVENAEKILGYLNSNLSRDLIIPHVNFSHLTTKDYSEMYSVIMTVKEKQFPAL
 GLDPCLEDELDKGTGLAFIAFTEAMTHFPASPFWSVMFFLMLINLGLGSMIGTMAGITTPIIDTFKVPK
 EMFTVGGCVFAFFVGLLFVQRSGNYFVTMFDDYSATLPLTVIVILENIAVAWIYGTKKFMQELTEMLGFQ
 PYRFYFYMWKFSVPLCMAVLTASIIQLGVSPPGYSAWIKEEAERYLYFPNWAMALLITLIAVATLPIP
 VVFILRHFHLLSDGSNTLSVSYKKGRMMKDISNLEENDETRFILSKVPSEAPSPMPHRSYLGPGSTSP
 DNSNNPNGRYGSGYLLASTPESEL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9013_e09.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_172271

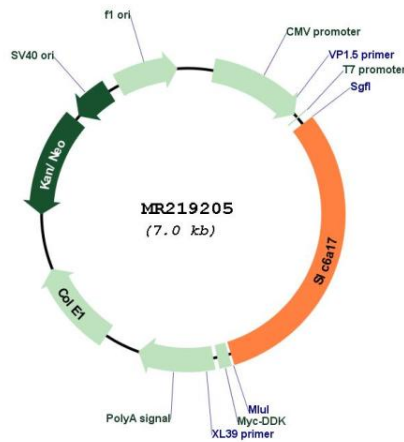
ORF Size: 2172 bp

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:	NM_172271.2 , NP_758475.1
RefSeq Size:	6326 bp
RefSeq ORF:	2175 bp
Locus ID:	229706
UniProt ID:	Q8BJI1
Cytogenetics:	3 F2.3
MW:	81.2 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 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR219205