

Product datasheet for MR231471

Slc12a3 (NM_001205311) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Slc12a3 (NM_001205311) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Slc12a3
Synonyms: AI035291; NCC; NCCT; TSC
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR231471 representing NM_001205311
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCAGAGCTCCCCGTGACAGAGCTGCCTGGCGATGCTCTGTGCAGTGGGCGCTTCACCATCAGCACAC
 TGATGGGAGGCGATGAGCCCCACCAGCTGCCTGTGACAGCAGCCAGCCAGCCACTTAACACACGGCAG
 CACCTTATACATGCGCACCTTCGGTTACAACACCATAGACGTGGTGCCGGCTACGAACACTATGCTAAC
 AGCGCTCTGCCCGGTGAGCCCCGGAAGGTGCGGCCACCCTGGCTGACCTGCATTCAAGCAGG
 AAGGTAGCCACCTGCATGCCCTGGCCTTTGATGGACGGCAAGGTCGTGAGCTGACTGATGGACTTGTGGA
 AGATGAGACAGGCACCAACAGTGAGAAGAGCCCTGGAGAACCTGTTTCGCTTCGGCTGGGTCAAGGGGGTG
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 CCTGCCATTGGAAGGAAGGGAAAGTGGCCAGTTCGCTGTACATGGCCTGGCTGGAGACCCTGTCCAG
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR231471 representing NM_001205311
 Red=Cloning site Green=Tags(s)

MAELPVTELPGDALCSGRFTISTLMGGDEPPPAACDSSQPSHLTHGSTLYMRTFYNTIDVVPAYEHYAN
 SALPGEPRKVRPTLADLHSLKQEGSHLHALAFDGRQGRELTDGLVEDEGTNSEKSPGEPVRFGWVKGV
 MIRCMLNIWGVILYLRPLWITAQAGIVLTWLIILL SVMVTSITGLSISAI STNGVKVSGGTYFLISRSLG
 PELGGSIGLIFAFANAVGVAMHTVGF AETVRDLLQEYGTPIVDPINDIRIIGVTVTVLLAISLAGMEWE
 SKAQVLFLLVIMVSFANYLVGTLIPASEDKASKGFYSYHGDIFVQNLVPDWRGIDGSFFGMFSIFFPSAT
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 GFFGKGYGKNREPVRGYLLAYAIAVAFIIIAELNTIAPIISNFFLCSYALINFSCFHASITNSPGWRPSF
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 EVEDHIKNYRPQCLVLTGPPNFRPALVDFVSTFTQNL SLMICGHVLI GPQKQRPVPELRLIASGHTKWLNK
 RKIKAFYSDVIAEDLRSGVQILMQASGLGRMKPNILVVGFKRNWQSAHPATVEDYIGVLHDAFDNFYGV
 VMRMREGLNVSEALQTHHTPEALIQEEQASTIFQSEQGGKTIIDYWL FDDGGLTLLIPYLLHRKRWGKC
 KIRVFGGQINRMDEERKAIISLLSKFRLGFHEVHVL PDINQKPAEHTKRFEDMIAPFRLNDGFKDEAT
 VTEMRRDCPWKISDEEINKNRIKSLRQVRLSEILLDYSRDAALIIL TLP IGRKKGKCPSSL YMAWLETLSQ
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TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

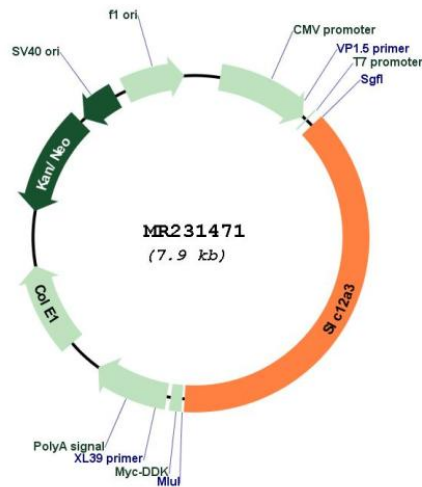
Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



Plasmid Map:



ACCN: NM_001205311
 ORF Size: 3006 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_001205311.1 , NP_001192240.1
RefSeq Size:	3300 bp
RefSeq ORF:	3009 bp
Locus ID:	20497
UniProt ID:	P59158
Cytogenetics:	8 46.46 cM
MW:	111.1 kDa
Gene Summary:	Electroneutral sodium and chloride ion cotransporter. In kidney distal convoluted tubules, key mediator of sodium and chloride reabsorption (By similarity). Receptor for the proinflammatory cytokine IL18. Contributes to IL18-induced cytokine production, including IFNG, IL6, IL18 and CCL2. May act either independently of IL18R1, or in a complex with IL18R1 (PubMed:26099046).[UniProtKB/Swiss-Prot Function]