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 MG226239

Slc12a6 (NM_133649) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc12a6 (NM_133649) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Slc12a6
Synonyms:	9530023I19Rik; gaxp; KCC3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG226239 representing NM_133649
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCATCCACCAGAAGCCACCACCAAGATGTCCTCAGTTCGGTTCATGGTGACACCAACTAAGATTGATG
ACATTCCAGGTTTGTCAGACACCAGCCCGGACCTCAGCTCTCGGTCTAGTTCTCGAGTAAGATTTAGCTC
CCGAGAAAGTGTGCCAGAAACAAGCCGTAGTGAGCCTATGAGCGAACTGTCTGGGGCTACTACTTCTCTG
GCAACTGTTGCCCTAGATCCTTCCAGTGACCGGACTTCTAATCCCCAGGATGTTACGGAGGACCCGAGTC
AGAACTCCATCACAGGGGAGCACAGCCAGCTGTTAGATGACGGCCATAAAAAAGCCCGAAATGCTTATCT
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CCTCATGGTCTTGGTGGTATTCATCGGCGTACGCTATGTGAATAAGTTTGCCTCACTCTTCCTGGCCTGT
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ATCTTCTTTCCCTCGGTCACAGGTATCATGGCTGGGTCAAACAGATCTGGAGATCTGAAAGATGCCCAGA
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TACATGGAATTTCTAGAAGTGCTCACTGAGGGATTAGAACGAGTCCTTCTTGTCCGGGGTGGTGGCAGTG
AGGTCATCACCATTTACTCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

>MG226239 representing NM_133649
Red=Cloning site Green=Tags(s)

MHPPEATTKMSSVRFMVTPTKIDDIPGLSDTSPDLSSRSSSRVRFSSRESVPETSRSEPMSELSGATTSL
ATVALDPSSDRTSNPQDVTEDPSQNSITGEHSQLLDDGHKKARNAYLNNSNYEEGDEYFDKNLALFEEEM
DTRPKVSSLLNRMANYTNLTQGAKEHEEAENITEGKKKPTKSPQMGTFMGVYLPCLQNIFGVILFLRLTW
VVGTAGILQAFAIVLICCCCTMLTAISMSAIATNGVVPAGGSYFMISRALGPEFGGAVGLCFYLGTTFAA
AMYILGAIEIFLVYIVPRAAIFRSDDALKESAAMLNNMRVYGTAFLVLMVLVVFIGVRYVNKFASLFLAC
VIVSILAIYAGAIKSSFAPPHFPVCMLGNRTLSSRHLDICSKTKEVDNMTVPSKLWGFFCNSSQFFNATC
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VGTLSWPSPWVIVIGSFFSTCGAGLQSLTGAPRLLQAIAKDNIIPFLRVFGHSKANGEPTWALLLTAAIA
ELGILIASLDLVAPILSMFFLMCYLFVNLACALQTLLRTPNWRPRFRYYHWALSFMGMSICLALMFISSW
YYAIVAMVIAGMIYKYIEYQGAEKEWGDGIRGLSLSAARFALLRLEEGPPHTKNWRPQLLVLLKLDEDLH
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IDVWWIVHDGGMLMLLPFLLKQHKVWRKCSIRIFTVAQLEDNSIQMKKDLATFLYHLRIEAEVEVVEMHD
SDISAYTYERTLMMEQRSQMLRHMRLSKTERDREAQLVKDRNSMLRLTSIGSDEDEETETYQEKVHMTWT
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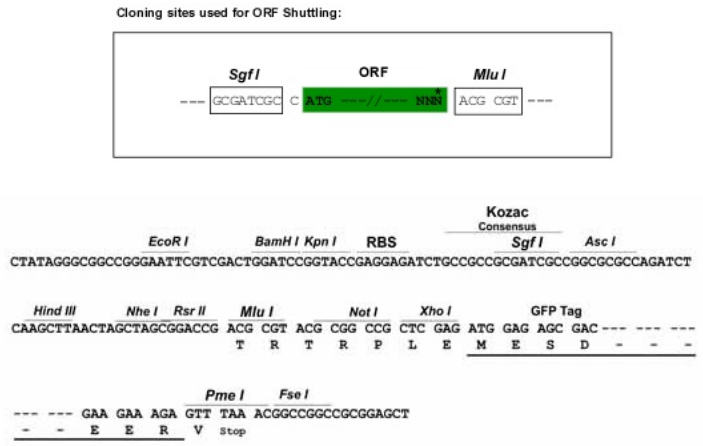
TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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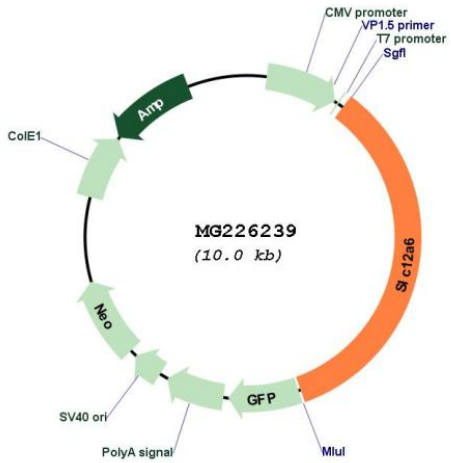
Plasmid Map:



ACCN:	NM_133649
ORF Size:	3450 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_133649.2, NP_598410.2
RefSeq Size:	6631 bp
RefSeq ORF:	3453 bp
Locus ID:	107723
UniProt ID:	Q924N4
Cytogenetics:	2 E3

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Gene Summary: Mediates electroneutral potassium-chloride cotransport. May be activated by cell swelling. May contribute to cell volume homeostasis in single cells.[UniProtKB/Swiss-Prot Function]

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