

Product datasheet for **MG211642**

Slc12a6 (BC062099) Mouse Tagged ORF Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Slc12a6 (BC062099) 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: | >MG211642 representing BC062099 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCATCCACCAGAAGCCACCACCAAGATGTCCTCAGTTCGGTTCATGGTGACACCAACTAAGATTGATG
ACATTCAGGTTTGTGACACACCAGCCCGACCTCAGCTCTGGTCTAGTTCTCGAGTAAGATTTAGCTC
CCGAGAAAGTGTCCAGAAACAAGCCGTAGTGAGCCTATGAGCGAACTGTCTGGGGCTACTACTTCTCTG
GCAACTGTTGCCCTAGATCCTTCCAGTGACCGGACTTCTAATCCCAGGATGTTACGGAGGATGACGGCC
ATAAAAAAGCCCGAAATGCTTATCTCAATAATTCCAACATGAAGAAGGAGACGAATATTTTGATAAAAA
TTTGGCACTCTTTGAGGAAGAAATGGACACCAGACCAAAGGTGTCTTCTCCTCAACCGCATGGCCAAC
TATACAAATCTGACACAAGGAGCAAAGGAACATGAAGAGGCAGAGAACATCACTGAAGGGAAAAAGAAGC
CTACCAAGAGCCCCAAATGGGTACTTTTCATGGGTGTCTACCTCCCATGTCTACAGAACATCTTTGGAGT
GATCCTCTTCTGCGTCTTACCTGGGTAGTGGGAACAGCTGGAATCCTTCAGGCCCTTTGCAATTGTCCTC
ATCTGTGCTGCTGTACAATGTTAACTGCCATCTCCATGAGCGCCATCGCCACTAACGGAGTGGTGCCAG
CTGGGGGCTCATACTTCATGATTTCCAGAGCCCTGGGCCAGAGTTTGGCGGGCTGTAGGCCTCTGCTT
TTATCTTGGCACCACATTTGCAGCAGCCATGTATATTCTTGGTGCCATTGAAATCTTTCTGGTATACATT
GTCCCCCGAGCTGCCATCTTTCCGAGTGACGATGCACTCAAGGAGTCAGCAGCTATGCTGAACAACATGC
GGTCTATGGTACAGCCTTCTTGGTCTCATGGTCTTGGTGGTATTCATCGGCGTACGCTATGTGAATAA
GTTTGCCTCACTCTTCTGGCCTGTGTAATTGTGTCGATCTTGGCTATCTATGCTGGTGCCATCAAGTCT
TCCTTTGCTCCACCACACTTCCCGGTCTGTATGCTGGGCAACCGTACCCTGTCATCAAGACACCTTGACA
TTTGCTCTAAGACCAAGGAGTTGACAACATGACAGTACCATCAAAGTTATGGGGATTCTTCTGCAACTC
GAGTCAGTTCTTAAATGCCACCTGTGATGAGTACTTTGTTACAATAACGTCATCTCAATCCAAGGCATT
CCAGGGTTGGCTAGTGGTATCATTACTGAAAATCTTTGGAGTAATTTTACCAAAGGTGAGATAATTG
AAAAGCCATCAGCCAAGTCATCTGATGTCTTAGGCAACTTAAACCATGAATATGTTCTTGGTGTATCAC
CACCTCCTCACTCTGCTGGTGGGATCTTCTTCCCTCGGTACAGGTATCATGGCTGGTCAAACAGA



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TCTGGAGATCTGAAAGATGCCAGAAAGTCTATCCCATGGGACCATCCTTGCCATCCTGACCACATCCT
 TTGTGATTTAAGCAATGTTGTCCTTTTTGGTGCATGTATTGAAGGAGTCGTTCTCAGAGACAAATTTGG
 GGATGCTGTAAGGAAATTTGGTTGTAGGCACCTTATCCTGGCCATCCCCGTTGGTGATCGTTATTGGC
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 CCAAGGATAACATCATACCTTTCCTTAGGGTTTTGGTACAGCAAAGCTAATGGGGAACCTACCTGGGC
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 GAAAGGGACTCACGATTGTGGGCTCTGTCATCGTGGGAACTTCTTGGAGAATATGGTACGCGCTCG
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 GAAGGATTCCAGACCTACTTAATATGCGTCCGGACCAGTCCAACGTGAGACGGATGCATACAGCAGTGA
 AGCTCAATGAAGTTATAGTCAACAAGTCTCATGAAGCAAAGCTGGTTTTGTTGAATATGCCAGGACCACC
 CCGGAACCCTGAAGGTGATGAAAAGTGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG211642 representing BC062099
 Red=Cloning site Green=Tags(s)

MHPPEATKMSVRFMVPTKIDDIPLSDTSPDLSSRSSRVRFSSRESVPETSRSEPMSELGATTSL
 ATVALDPSSDRSNPQDVTEDDGHKKARNAYLNNSNYEEDGYFDKNLALFEEEMDRPKVSSLLNRMAN
 YTNLTQGAKEHEEAENITEGKKKPTKSPQMGTFMGVYLPCLQNIQFVILFLRLTWVVGTAGILQAFIVL
 ICCCTMLTAISMSAIATNGVVPAGGSYFMISRALGPEFGGAVGLCFYLGTTFAAAMYILGAIIEIFLVYI
 VPRAAIFRSDDALKEAAMLNMRVYGTAFLLVLMVLVVFIVGVRYVNFASLFLACVIVSILAIYAGAIKS
 SFAPPHFPVCMLGNRTLSSRHLDICSKTKEVDNMTVPSKLGWFFCNSSQFFNATCDEYFVHNNVISIQGI
 PGLASGIITENLWSNYLPKGEIEKPSAKSSDVLGNLNHEYVLADITTSFTLLVGIFFPSVTGIMAGSNR
 SSDLKDAQKSIPIGTLAILTTSFVYLSNVVLFACIEGVVLRDKFGDAVKGNL VVGTL SWPSPWVIVIG
 SFFSTCGAGLQSLTGAPRLLQAIKDNIPFLRVFVGHKANGIPTWALLTAIAIELGILIASLDLVAPI
 LSMFFLMICYL FVNLCALQTLRLTPNWRPRFRYYHWALSFMGMSICLALMFISSWYIAIVAMVIAGMIYK
 YIEYQGAKEKWDGIRGLSL SAARFALLRLEEGPPHTKNWRPQLLVLLKLDLHVKHPRLLTFASQLKA
 GKGLTIVGSVIVGNFLENYGDALAAEQTIKHLMAEKVKGFQQLVVAAKLKEGISHLIQSCGLGGMKHN
 TVMGWPNWQRQSEDARAWKTFIGTVRVTTAAHLALLVAKNVSFFPSNVEQFSEGNIDVWVIVHDGMLML
 LPFLKQHKVWRKCSIRIFTVAQLEDNSIQMKDLATFLYHLRIEAEEVVEVEMHDSISAYTYERTLMME
 QRSQMLRHMRLSKTERDREAQLVKDRNSMLRLTSGSDEDEETETYQEKVHMTWTKDKYMASRGQKVKSM
 EGFQDLLNMRPDQSNVRRMHTAVKLNEIVNKSHEAKLVLLNMPGPPRNPEGDENC

TRTRPLE - GFP Tag - V

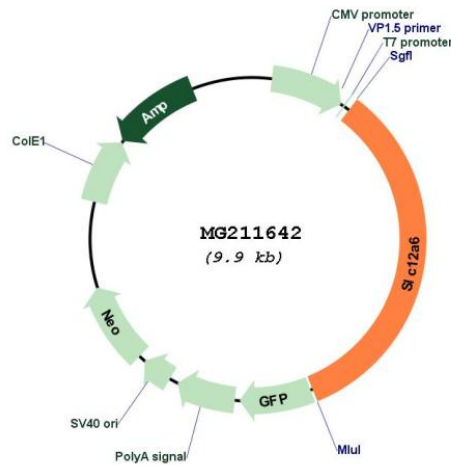
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: BC062099

ORF Size: 3318 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.

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| 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: | <u>BC062099.1</u> |
| RefSeq Size: | 4439 bp |
| RefSeq ORF: | 3320 bp |
| Locus ID: | 107723 |
| Cytogenetics: | 2 E3 |
| 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] |