

## Product datasheet for **MG226241**

### Slc12a6 (NM\_133648) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Slc12a6 (NM_133648) 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:	>MG226241 representing NM_133648 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCGCACTTCACTGTGACCAAGGTAGAAGACCCAGAGGAGGGGGCAGCTGGCCCCCTCTCTCCTGAGC  
CCAGCTCAGCAGAAGTAAAAGCCCGGATTCAGGATCCCCAAGAACCAGACCCGAGTCAGAACTCCATCAC  
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AGGTGTCTTCTCCTCAACCGCATGGCCAATATACAAATCTGACACAAGGAGCAAAGGAACATGAAGA  
GGCAGAGAACATCACTGAAGGGAAAAAGAAGCCTACCAAGAGCCCCAAATGGGTACTTTTATGGGTGTC  
TACCTCCCATGTCTACAGAACATCTTTGGAGTGATCCTCTTCTGCGTCTTACCTGGGTAGTGGGAACAG  
CTGGAATCCTTACGGCCTTTGCAATTGTCCTCATCTGCTGCTGTACAATGTTAACTGCCATCTCCAT  
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CCAGAGTTTGGCGGGGCTGTAGGCCTCTGCTTTTATCTTGGCACCACATTTGCAGCAGCCATGTATATTC  
TTGGTGCCATTGAAATCTTTCTGGTATACATTGCCCCGAGCTGCCATCTTTCGGAGTGACGATGCACT  
CAAGGAGTCAGCAGCTATGCTGAACAACATGCGCGTCTATGGTACAGCCTTCTTGGTCTCATGGTCTTG  
GTGGTATTCATCGCGGTACGCTATGTGAATAAGTTTGCCTCACTTTCCTGGCCTGTGTAATTTGTGTCGA  
TCTTGGCTATCTATGCTGGTGCCATCAAGTCTTCCCTTTGCTCCACCACACTTCCCGGTCTGTATGCTGGG  
CAACCGTACCCTGTCATCAAGACACCTTGACATTTGCTCTAAGACCAAGGAGGTTGACAACATGACAGTA  
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TTCACAATAACGTCATCTCAATCCAAGGCATTCCAGGGTTGGCTAGTGGTATCATTACTGAAAATCTTTG  
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CGGTACAGGTATCATGGCTGGTCAAACAGATCTGGAGATCTGAAAGATGCCAGAAGTCTATTCCAT  
TGGACCATCCTTGCCATCTGACCACATCTTTGTGTATTAAGCAATGTTGTCCTTTTGGTGCATGT



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ATTGAAGGAGTCGTTCTCAGAGACAAATTTGGGGATGCTGTAAAAGGGAATTTGGTTGTAGGCACCTTAT  
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 TCTGATGAGGACGAAGAGACAGAAACGTACCAGGAGAAGTGCACATGACTTGGACCAAGGATAAATACA  
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 GTCCAACGTGAGACGGATGCATACAGCAGTGAAGCTCAATGAAGTTATAGTCAACAAGTCTCATGAAGCA  
 AAGCTGGTTTTGTGAATATGCCAGGACCACCCGGAACCCTGAAGGTGATGAAAACATACATGGAATTTT  
 TAGAAGTGCTCACTGAGGGATTAGAACGAGTCTTCTTGTCCGGGGTGGTGGCAGTGAAGTGCATCCCAT  
 TTAACA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG226241 representing NM\_133648  
 Red=Cloning site Green=Tags(s)

MPHFTVTKVEDPEEGAAGPLSPEPSSAEVKARIQDPQEPDPSQNSITGEHSQLLDDGHKKARNAYLNNSN  
 YEEDVEYFDKNLALFEEEMDTRPKVSSLLNRMANYTNLTQGAKEHEEAENITEGKKKPTKSPQMGTFMGV  
 YLPCLQNIQIFGVILFLRLTWVGTAGILQFAIVLICCCCTMLTAISMSAIATNGVVPAGGSYFMISRALG  
 PEFGGAVGLCFYLGTTFAAAMYILGAIEIFLVYIVPRAAIFRSDDALKESAAMLNMRVYGTAFLLVLMVL  
 VVFIGVRYVKNKFAFLACVIVSILAIYAGAIKSSFAPPHFPVCMLGNRTLSSRHLDICSKTKEVDNMTV  
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 IEGVVLKDFGDAVKGNLTVVGTLSWSPWVIVIGSFFSTCGAGLQSLTGAPRLLQAIKDNIIIPFLRVFG  
 HSKANGEPTWALLLTAIAELGILIASLDLVAPILSMFFLMCYLTVNLACALQTLRTPNWRPRFRYYHW  
 ALSFMGMSICLALMFISWYAIIVAMVIAGMIYKIEYQGAKEWGDGIRGLSLSAARFALLRLEEGPPH  
 TKNWRPQLVLLKLEDDLHVKHPRLLTFASQLKAGKGLTIVGSIIVGNFLENYGDALAAEQTIKHLMEAE  
 KVKGFQCLVVAAKLKEGISHLIQSCGLGGMKHNTVVMGWPNGWRQSEARAWKTFIGTVRVTAAHLALL  
 VAKNVFFPSNVEQFSEGNIDVWWWIVHDGMLMLLPFLKQHKVWRKCSIRIFTVAQLEDNSIQMKKDLA  
 TFLYHLRIEAEVEVEMHSDISAYTYERTLMMEQSRSQLMRMLSKTERDREAQLVKDRNSMLRLTSIG  
 SDEDEETETYQEKVHMTWTKDKYMASRQKVKSMEGFQDLLNMRPDQSNVRRMHTAVKLVNEIVNKSHEA  
 KLVLLNMPGPPRNPEGDENYMEFLEVLTEGLERVLLVRGGSEVITIYS

TRTRPLE - GFP Tag - V

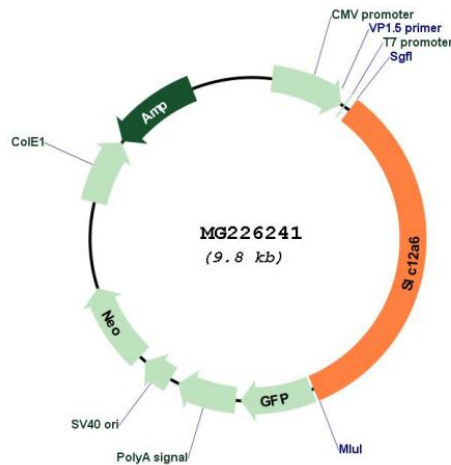
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_133648

ORF Size: 3297 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_133648.2, NP_598409.2</u>
<b>RefSeq Size:</b>	5970 bp
<b>RefSeq ORF:</b>	3300 bp
<b>Locus ID:</b>	107723
<b>Cytogenetics:</b>	2 E3
<b>Gene Summary:</b>	Mediates electroneutral potassium-chloride cotransport. May be activated by cell swelling. May contribute to cell volume homeostasis in single cells.[UniProtKB/Swiss-Prot Function]