

## Product datasheet for **RG224578**

### SLC12A6 (NM\_005135) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** SLC12A6 (NM\_005135) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** SLC12A6  
**Synonyms:** ACCPN; KCC3; KCC3A; KCC3B  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG224578 representing NM\_005135  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCACATTTTACTGTGACTAAGGTAGAGGACCCAGAGGAGGGGGCAGCGGCTTCGATCTCTCAAGAGC  
CTAGTTTAGCAGACATAAAAGCCCGGATTCAGGATTCAGATGAACCAGACCTGAGTCAGAACTCCATCAC  
AGGGGAACACAGCCAACGTAGACGACGGACATAAGAAAGCTCGAAATGCTTATCTCAATAATTCCAAT  
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AGGTGTCTTCCCTCCTCAACCGCATGGCCAATTACACTAATCTGACTCAAGGAGCAAAGGAACATGAAGA  
GGCAGAAAACATCACTGAAGGGAAAAGAAGCCCAAGACCCCAAAATGGGTACCTTCATGGGTGTC  
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CCAGAGTTTGGTGGGGCTGTTGGCCTCTGCTTTTATCTTGGTACCACATTTGCAGCAGCCATGTACATCC  
TTGGTGCCATTGAAATCTTTCTGGTCTATATCGTCCCCGAGCTGCCATCTTTCACAGTGATGACGCACT  
CAAGGAATCAGCAGCCATGCTAAATAACATGCGTGTCTACGGCACAGCTTCTTGGTCTTATGGTATTA  
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GAGTAATTACCTACCAAGGGAGAGATCATCGAAAAGCCTTCAGCCAAATCTTCTGATGTCTTAGGCAGC  
TTAAACCATGAATATGTTCTTGTGACATACCACCTCCTTCACGCTTCTGGTGGGAATCTTCTTCCCT  
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TGGTACTATCCTTGCCATCTGACCACCTCTTTGTTTATTAAGCAATGTTGTCCTTTTTGGTGCATGT



ATTGAAGGGGTTGTTCTCAGAGACAAGTTCGGTGATGCTGTGAAAGGTAATTTGGTGGTAGGCACCTTAT  
 CTTGGCCATCCCCATGGGTGATTGTTATTGGCTCCTTCTTTTCAACATGTGGGGCTGGACTTCAGAGCCT  
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 TCATTGCCTCCCTGGATCTTGTGGCCCCAATCTTTCCATGTTTTTCTCATGTGTTACCTCTTTGTA  
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 GTCCAATGTGAGGCGGATGCATACAGCAGTGAACCTCAACGAGGTTATAGTTAACAAAGTCCCATGAAGCA  
 AAGCTGGTTTTATTGAATATGCCAGGGCCACCCGAAACCTGAGGGTGTGAAAACATACATGGAGTTC  
 TAGAGGTGCTTACCGAGGACTAGAGCGAGTCTACTTGTCCGGGTGGTGGCAGTGAAGTATCACCAT  
 TTATTCA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG224578 representing NM\_005135  
 Red=Cloning site Green=Tags(s)

MPHFTVTKVEDPEEGAAASISQEPPLADIKARIQDSDEPDL SQNSITGEHSQLLDDGHKKARNAYLNNSN  
 YEEGDEYFDKNLALFEEEMDTRPKVSSLLNRMANYTNL TQGAKEHEEAENITEGKKKPTKTPQMGTFMGV  
 YLPCLQNI FGVILFLRL TWVVG TAGVLQFAIVL ICCCCTMLTAISMSAIATNGVVPAGGSYFMISRALG  
 PEFGGAVGLCFYLGTTFAAAMYILGAIEIFLVYIVPRAAIFHSDDALKESAAMLNMRVYGTAFLLVLMVL  
 VVFIGVRYVKNFASLFLACVIVSILAIYAGAIKSSFAPPHFPVCMLGNRTLSSRHIDVCSKTKEINNMTV  
 PSKLWGFNCSSQFFNATCDEYFVHNNVTSIQGIPLASGIITENLWSNYLPKGEIEKPSAKSSDVLGS  
 LNHEYVLVDITTSFTLLVGIFFPSVTGIMAGSNRSGDLKDAQSIPIGTILAILTTSFVYLSNVVLFGAC  
 IEGVVL RDKFGDAVKGNL VVGTL SWPSPWVIVIGSFFSTCGAGLQSLTGAPRLLQAIKDNII PFLRVFG  
 HSKANGEPTWALLL TAAIAELGILIASLDLVAPILSMFFLMCYLFVNALACALQTLRLTPNWRPRFRYYHW  
 ALSFMGMSICLALMFISSWYAIIVAMVIAGMIYKYIEYQGAKEWGDGIRGLSLSAARFALLRLEEGPPH  
 TKNWRPQLLVLLKLEDDLHVKHPRLLTFASQLKAGKGLTIVGSI VGNFLENYGEALAAEQTIKHLMEAE  
 KVKGFQCLVVAAKLREGISHLIQSCGLGGMKHNTVVMGWPNGWRQSE DARAWKTFIGTVRVTAAHLALL  
 VAKNISFFPSNVEQFSEGNIDVWWWIVHDGMLMLLPFLKQHKVWRKCSIRIFTVAQLEDNSIQMKKDLA  
 TFLYHLRIEAEVEVEMHDSDISAYTYERTLMMEQRSQMLRHMRLSKTERDREAQLVKDRNSMLRLTSIG  
 SDEDEETETYQEVHMTWTKDKYMASRQKAKSMEGFQDLLNMRPDQSNVRRMHTAVKLVNEVIVNKSHEA  
 KLVLLNMPGPPRNPEGDENYMEFLEVLTEGLERVLLVRGGSEVITIYS

TRTRPLE – GFP Tag – V

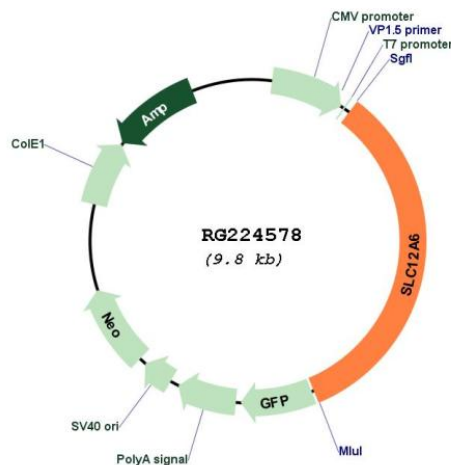
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_005135

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_005135.2, NP_005126.1</u>
<b>RefSeq Size:</b>	7327 bp
<b>RefSeq ORF:</b>	3300 bp
<b>Locus ID:</b>	9990
<b>UniProt ID:</b>	<u>Q9UHW9</u>
<b>Cytogenetics:</b>	15q14
<b>Domains:</b>	KCl_Cotrans_1
<b>Protein Families:</b>	Transmembrane
<b>Gene Summary:</b>	This gene is a member of the K-Cl cotransporter (KCC) family. K-Cl cotransporters are integral membrane proteins that lower intracellular chloride concentrations below the electrochemical equilibrium potential. The proteins encoded by this gene are activated by cell swelling induced by hypotonic conditions. Alternate splicing results in multiple transcript variants encoding different isoforms. Mutations in this gene are associated with agenesis of the corpus callosum with peripheral neuropathy. [provided by RefSeq, Jul 2008]