

Product datasheet for **RG228636**

SLC12A4 (NM_001145961) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC12A4 (NM_001145961) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC12A4
Synonyms:	CTC-479C5.17; hKCC1; KCC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG228636 representing NM_001145961 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGATCGC**C

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TCATACCATCTACTCC
    
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ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG228636 representing NM_001145961

Red=Cloning site Green=Tags(s)

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MPHFTVVPVDGPRRGDYDNLLEGLSWVDYGERAELDDSDGHGNHRESSPFLSPLEASRGIDYYDRNLALFE
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FAAAMYILGAIEILLTYIAPPAIFYPGSAHDTSNATLNNMRVYGTIFLTFMTLVFVGVKYNKFAFLF
LACVVIISILSIYAGGIKIFDPPVFPVCM LGNRTL SRDQFDICAKTAVVDNETVATQLWSFFCHSPNLTT
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TRTRPLE – GFP Tag – V

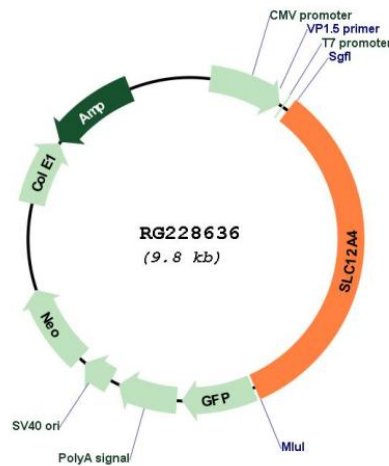
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001145961

ORF Size: 3237 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:	<u>NM_001145961.2</u>
RefSeq Size:	4755 bp
RefSeq ORF:	3240 bp
Locus ID:	6560
UniProt ID:	<u>Q9UP95</u>
Cytogenetics:	16q22.1
Protein Families:	Transmembrane
Gene Summary:	This gene encodes a member of the SLC12A transporter family. The encoded protein mediates the coupled movement of potassium and chloride ions across the plasma membrane. This gene is expressed ubiquitously. Multiple alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Jan 2013]