

Product datasheet for **RG224142**

SLC24A4 (NM_153647) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	SLC24A4
Synonyms:	AI2A5; NCKX4; SHEP6; SLC24A2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG224142 representing NM_153647
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCTGCCGACGAAGTCGGCTTCGTGTGCGGGTGTGGCCCTGGTGTGCTGTGCGTCCGGCCTCTTCG
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 GATGGCCCCAGTGAATGGGACACAGACAGCCAAGAACTGCACAGATCCTGCGATTACGAGTTCCCCACA
 GATCTGTTCTCCAATAAGGAGCGACAGCAGGAGCCGTCTGCTGCACATCCTTGGTGTCTGTATATGT
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 TCTGAGCGAAGATGTGGCTGGAGCCACCTTCATGGCTGCAGGAAGCTCAACGCCAGAGCTGTTTGGGTCT
 GTTATTGGGGTGTTCATACCCATGGGGACGTGCGGGTGGGCACCATCGTGGGCTCTGCTGTGTTCAACA
 TCCTGTGCATAATTGGAGTGTGCGGACTGTTTGTGCGCAGGTGGTCCGTCTGACGTGGTGGCCGTGTG
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 GTGTTTGACATCCTGGTAGGACTTGGTGTACCGTGGGGCCTGCAGACCATGGTTGTTAATTATGGATCAA
 CAGTGAAGATCAACAGCCGGGGGCTGGTCTATTCCGTGGTCTGTTGCTGGGCTCTGTCGCTCTACCGT
 CCTCGGCATCCACCTAACAAGTGGCGACTGGACCGGAAGCTGGGTGTCTACGTGCTGGTTCTCTACGCC
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 AAGACGAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

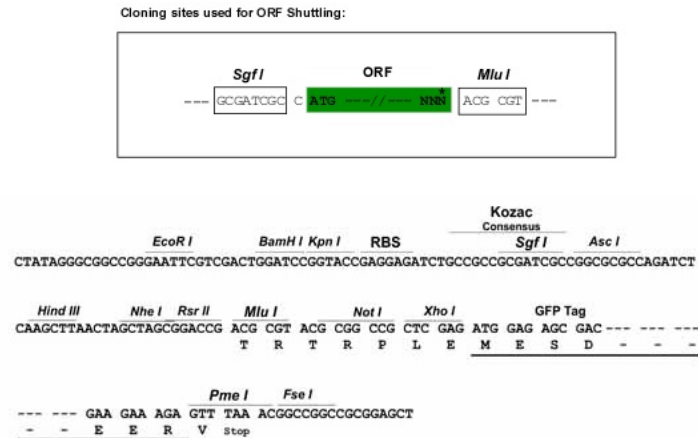
Protein Sequence: >RG224142 representing NM_153647
 Red=Cloning site Green=Tags(s)

MLPQQVGFVCAVLALVCCASGLFGLGHKTASASKRVLPDWRNRKLMPVNGTQTAKNCTDPAIHEFPT
 DLFSNKRQHGAVLLHILGALYMFYALAIVCDDFFVPSLEKICERLHLSDEVAGATFMAAGSSTPELFAS
 VIGVFI THGDVGVGTIVGSAVNILCIIGVCLFAGQVVRLTWWAVCRDSVYYTISVIVLIVFIYDEQIV
 WVEGLVLIILYVFYILIMKYNVQMFAFFTVKQKSIANGNPVNSELEAVKEKPQYGNPVMVDEIMSSSP
 PKFTFPEAGLRIMITNKFGRTRLRMASRIIINERQRLINSANGVSSKPLQNGRHENIENGVPVENPED
 PQQNQEQQPPPPQPPPEPEPEADFLSPFSVPEARGDKVKWVFTWPLIFLLCVTIPNCSKPRWEKFFMVT
 FITATLWIAVFSYIMVWLVTIIGYTLGIPDVIMGITFLAAGTSVPDCMASLIVARQGLGDMAVSNTIGSN
 VFDILVGLGVPWGLQTMVNYGSTVKINSRGLVYSVLLLSVALTVLGIHLNWKRLDRKLGVYVVLVLYA
 IFLCFSIMIEFNVTFFVNLPMCREDD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_153647

ORF Size: 1758 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).

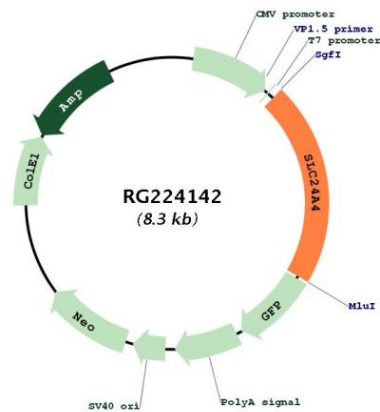
Reconstitution Method:

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_153647.2](#), [NP_705933.1](#)

RefSeq Size:	4428 bp
RefSeq ORF:	1812 bp
Locus ID:	123041
UniProt ID:	Q8NFF2
Cytogenetics:	14q32.12
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	This gene encodes a member of the potassium-dependent sodium/calcium exchanger protein family. Alternative splicing results in multiple transcript variants.[provided by RefSeq, Jul 2010]

Product images:

Circular map for RG224142