

Product datasheet for **RG211428**

SLC5A4 (NM_014227) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC5A4 (NM_014227) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC5A4
Synonyms:	DJ90G24.4; SAAT1; SGLT3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RG211428 representing NM_014227
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCCAGTACGGTTAGCCCCAGCACCATAGCTGAGACCCAGAGCCACCTCCATTGTCTGACCACATCC
GAAATGCTGCTGACATCTCAGTCATTGTATCTATTTCTGGTGGTGATGGCTGTTGGGCTGTGGCGGAT
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CGGTTTGCAGAAGGGACCAAGCTAACCAAGGAGGAGGAGGAAGCCTTGAGCAAGAAGCTCACAGACAGC
TCTGAGAGGCCCTCGTGGAGGACAATAGTGAACATCAACGCCATCCTCTCTCTGGCTGTGGTGGTCTTTA
TTCACGGCTACTATGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG211428 representing NM_014227
 Red=Cloning site Green=Tags(s)

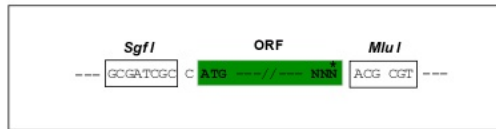
MASTVSPSTIAETPEPPPLSDHIRNAADISVIVIIYFLVVMVAVGLWAMKTNRGTIGGFFLAGRDMAWWPM
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 ELLIAGRIFVLLLTVVSIWVPLVQVSQNGQLIHYTESISSYLGPPIAAVFLAIFCKRVNEQGAFWGLM
 VGLAMGLIRMITEFAYGTGSLAPSNPKIICGVHYLYFSIVLFFGSMLVTLGISLLTKPIPVDHLYRLC
 WVLRNSTERIDIDAEKSEQEETDDGVEEDYPEKSRGCLKKAYDLFCGLQKGPKEEEEEALKKLTDT
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TRTRPLE - GFP Tag - V

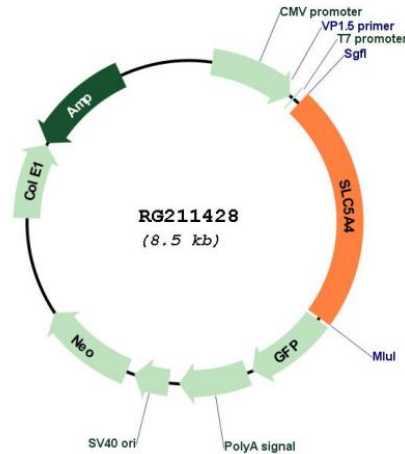
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_014227

ORF Size: 1977 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.

RefSeq: [NM_014227.1](#), [NP_055042.1](#)

RefSeq Size:	2043 bp
RefSeq ORF:	1980 bp
Locus ID:	6527
UniProt ID:	Q9NY91
Cytogenetics:	22q12.3
Protein Families:	Transmembrane
Gene Summary:	Has electrogenic activity in response to glucose, and may function as a glucose sensor (PubMed:13130073, PubMed:17110502, PubMed:20421923, PubMed:22766068). Mediates influx of sodium ions into the cell but does not transport sugars (PubMed:13130073, PubMed:22766068). Also potentially activated by imino sugars such as deoxynojirimycin (DNJ) (PubMed:17110502, PubMed:20421923, PubMed:22766068).[UniProtKB/Swiss-Prot Function]