

Product datasheet for **RG214414**

SLC13A1 (NM_022444) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	SLC13A1
Synonyms:	NAS1; NaSi-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence: >RG214414 representing NM_022444
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGAAATTCTTCAGTTACATTCTGGTTTATCGCCGATTCTCTTCGTGGTTTTCACTGTGTTGGTTTTAC
 TACCTCTGCCCATCGTCTCCACCAAGGAAGCAGAATGTGCCTACACACTCTTTGTGGTCGCCACATT
 TTGGCTCACAGAAGCATTGCCTCTGTCGGTAACAGCTTTGCTACCTAGTTTAATGTTACCCATGTTTGGG
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 GTTTAGCAACATCCATAGAAAAATGGAATTTGCACAAGAGAATTGCTCTGAAAAATGGTGATGATGGTTGG
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 CCCTGGCAGATGGTTGTGAGGAGTCTGGATTATCTAAGTGGATAGGAAATAAATTATCTCTCTGGGTTT
 ATTACCAGCATGGCTAATAATTCTGATATCTTCTTTGATGGTGACATCTTAACTGAGGTAGCCAGCAAT
 CCAGCTACCATTACACTCTTCTCCCAATATTATCTCATTGGCCGAAGCCATTGATGTAACCTCTTT
 ATATTCTGATACCTTCTACTCTGTGTACTTCAATTGCATTCTCCTACCAGTAGCAAAATCCACCAATGC
 TATTGTCTTTTCATATGGTCATCTGAAAGTCATTGACATGGTTAAAGCTGGACTTGGTGTCAACATTGTT
 GGTGTTGCTGTGGTTATGCTTGGCATGTACTTGGATTGTACCCATGTTGACCTCTACACTTACCCTT
 CGTGGGCTCTGCTATGAGTAATGAGACCATGCCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

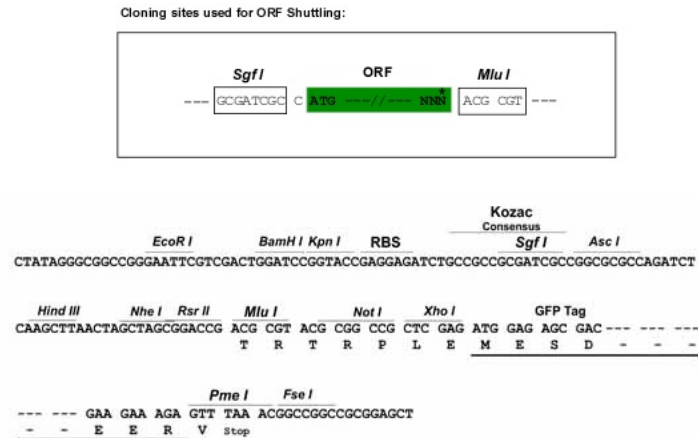
Protein Sequence: >RG214414 representing NM_022444
 Red=Cloning site Green=Tags(s)

MKFFSYILVYRRFLFVFTVLVLLPLIVLHTKEAECAYTLFVVATFWLTEALPLSVTALLPSLMLPMFG
 IMPSKKVASAYFKDFHLLIGVICLATSIKWNLHKRIALKMVMVGVNPAWLTGFMSSSTAFLSMWLSN
 TSTAAMVPIAEAVVQIINAEAEVEATQMTYFNGSTNHGLEIDESVNGHEINERKEKTPVPGYNNDTG
 KISSKVELEKNSGMRTKYRTKKGHVTRKLTCLCIAYSSTIGGLTTITGTSTNLIFAIEYFNTRYPCRCCLN
 FGSWFTSFPAALIILLWSIWLQWLFLGFNFKEMFKCGKTKTVQQKACAEVIKQEYQKLGPIRYQEIVT
 LVLFIIMALLWFSRDPGFVPGWSALFSEYPGFATDSTVALLIGLLFLLIPAKTLTKTPTGEIVAFDYSP
 LITWKEFQSFMPWDIAILVGGGFALADGCEESGLSKWIGNKLSPLGSLPAWLIILISSLMVTSLTEVASN
 PATITLFLPILSPLAEAIHVNPLYILIPSTLCTSFALLPVANPPNAIVFSYGHKVIDMVKAGLVNIV
 GVAVVMLGICTIWIIPMFDLYTYPSPWAPMSNETMP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_022444

ORF Size: 1785 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:

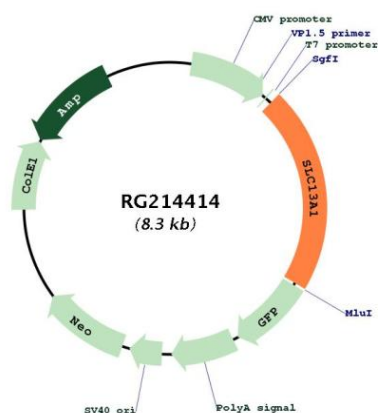
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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_022444.4](#)

RefSeq Size:	3811 bp
RefSeq ORF:	1788 bp
Locus ID:	6561
UniProt ID:	Q9BZW2
Cytogenetics:	7q31.32
Protein Families:	Transmembrane
Gene Summary:	The protein encoded by this gene is an apical membrane Na(+)-sulfate cotransporter involved in sulfate homeostasis in the kidney. Defects in this gene lead to many pathophysiologic problems. [provided by RefSeq, May 2016]

Product images:



Circular map for RG214414