

Product datasheet for **RG205239**

SLC13A4 (NM_012450) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	SLC13A4
Synonyms:	NAS2; SUT-1; SUT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG205239 representing NM_012450
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGGCTGCTGCAGGGCTGCTCCGAGTCCGGAAGCTGCTGCTGGTCTGCTGCCGCTCCGCTGCTGCTG
 TGCTCTGCCCGTCTCCACCCAGCAGCGAGGCTCGTGTGCTTACGTGCTGATCGTGACTGCTGTGTA
 CTGGGTGTCGAGGAGTGCCTCTGGGAGCTGCAGCCCTGGTCCCGCCTTCTTTACCCGTTCTTCGGA
 GTCTCCCGTCCAAATGAGGTGGCGGCGGAGTACTTCAAGAACCACCGCTGCTGCTGGTGGGGTGCATCT
 GCGTGGCGGCTGCCGTGGAGAAGTGAACCTGCATAAGCGCATTGCTCTGCGCATGGTCTTGATGGCCGG
 AGCCAAAGCCGGGATGCTGCTGCTCTGCTTTCATGTGCTGTACCACGTTGCTGTCCATGGCTGTCCAAC
 ACCTCCACCACCGCATGGTGTGCTGCTGAGGCGGCTGCTGCAGGAGCTGGTCACTGCTGAGGACG
 AGCAGCTGCTGGCGGCAACTCAACACCGAAGAGGCCGAACCCATCAGTCTGGATGTAAAGAACAGCCA
 ACCTTCTCTGGAATCATCTTTGTCAATGAAGAGTCCAACGACAGCTCACCCTCTGATGCACAACGAG
 AACCTGAATGGTGTGCCCTCGATCACAACCCCATCAAACTGCAAAACCAACACCGGGCAAGAAGCAAC
 ACCCATCCCAGGAAAAGCCACAAGTCTGACCCGACGCCAGGAAGCAGAAGCTGAACAGAAAAGTACAG
 GTCCCACTGACAGATGATCTGCAAGTGCCTCTCCCTGAGCATATCCTACTCCGCTACCATTTGGCGCG
 CTGACCACCATCATCGGCACCTCCACGAGCTCATCTTCTGGAACACTTCAACAACAGTATCCAGCCG
 CAGAGGTGGTGAACCTTTGGCAGCTGGTTCCTCTTCAGCTTCCCATATCCCTCATGCTGGTGGTCAG
 CTGTTCTGGATGCACTGGCTGTTCTGGGCTGCAATTTTAAAGAGACCTGCTCTGAGCAAGAAGAAG
 AAGACCAAAAGGGAACAGTTGTGAGAGAAGAGGATCCAAGAAGAATGAAAACTGGGAGACATTAGCT
 ACCCAGAAATGGTACTGGATTTTCTTCATCTGATGACCGTACTGTGGTTTACCCGGGAGCTGGCTT
 TGTCCCTGGCTGGGATTCTTTCTTTGAAAAGAAAGGCTACCGTACTGATGCCACAGTCTCTGCTTCCTT
 GGCTTCTCTCTCTCTCATTCCAGCGAAGAAGCCCTGCTTTGGGAAAAAGAATGATGGAGAGAACCAGG
 AGCACTCACTGGGAGCCGAGCCATCATCAGTGAAGGACTTCCAGAAGACCATGCCCTGGGAGATTGT
 CATTCTGGTTGGGGAGGCTATGCTCTGGCTTCTGGTAGCAAGAGCTCTGGCTCTCTACATGGATTGGG
 AACCAGATGTTGTCCCTGAGCAGCTCCACCGTGGGCTGTACCCCTGCTGGCATGCATCCTCGTGTCCA
 TTGTCACTGAGTTGTGAGCAACCCAGCAACCATCACCATCTTCTGCCCATCTGTGCAGCTGTCTGA
 AACGCTGCACATTAACCCCTCTACACCCTGATCCAGTCAACATGTGCATCTCCTTGCAGTGTGCTG
 CCTGTGGGCAATCCCCCTAATGCCATCGTCTTCACTATGGGCACTGCCAGATCAAAGATATGGTGAAG
 CTGGCTGGGAGTCAACGTTATTGGAAGTGTGATAGTAATGGTGGCCATCAACACCTGGGGAGTTAGCCT
 CTTCCACCTGGACACTTACCCAGCATGGGCGAGGGTCAGCAACATCACTGATCAAGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG205239 representing NM_012450
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MGLLQGLLRVRKLLLVVCVPLLLPLPVLHPSSEASCAYVLIIVTAVYVWSEAVPLGAAALVPAFLYPFFG
 VLRSNEVAAEYFKNNTLLLVGVICVAAAEKWNLHKRIALRMVLMAGAKPGMLLLCFMCCTLLSMWLSN
 TSTTAMVPIVEAVLQELVSAEDELVAGNSNTEEAEPISLDVKNQSPSLELIFVNEESNADLTTLMHNE
 NLNGVPSITNPIKTANQHQQKKQHPSEQEPQVLTRSPRKQKLNRKYRSHDQMICKCLSLISYSATIGG
 LTTIIGTSTSLIFLEHFNQYPAAEVVNFGTWFLFSFPISLIMLVVSWFWMHWLFLGCNFKETCSLSKKK
 KTKREQLSEKRIQEEYEKLGDISPEMVTGFFILMTVLWFTREPFGVPGWDSFFEKKGYRTDATVSVFL
 GFLLFLIPAKKPCFGKKNQDGENQEHSLGTEPIITWKDFQKMPWEIVILVGGGYALASGSKSSGLSTWIG
 NQMLSSSLPPWAVTLLACILVSVITEFVSNPATITIFLPILCSLSETLHINPLYTLIPVTMCISFAVML
 PVGNPPNAIVFSYGHQCQIKDMVKAGLGVNVIGLVIVMVAINTWGVSLFHLDTYPAWARVSNITDQA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_012450

ORF Size: 1878 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).

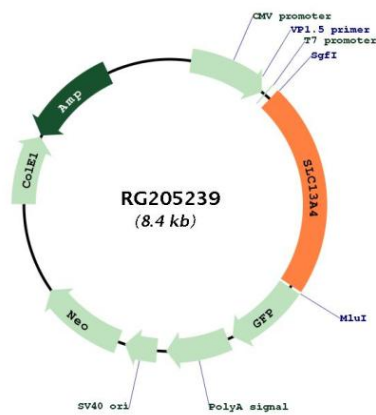
Reconstitution Method:

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_012450.2](#), [NP_036582.2](#)

RefSeq Size:	2908 bp
RefSeq ORF:	1881 bp
Locus ID:	26266
UniProt ID:	Q9UKG4
Cytogenetics:	7q33
Domains:	Na_sulph_symp
Protein Families:	Transmembrane
Gene Summary:	Sodium/sulfate cotransporter that mediates sulfate reabsorption in the high endothelial venules (HEV).[UniProtKB/Swiss-Prot Function]

Product images:

Circular map for RG205239