

## Product datasheet for **RG236706**

### SLC9A3R2 (NM\_001252075) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC9A3R2 (NM_001252075) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC9A3R2
Synonyms:	E3KARP; NHE3RF2; NHERF-2; NHERF2; OCTS2; SIP-1; SIP1; TKA-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG236706 representing NM_001252075. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCACGCTCCGGGAGTGCCACGCCACCTGCCGGGCTCCGGGAGCCCTCCACGGAGCCACCCAG
AGGCTGGATGTCAGTGGGCCCTGAGGGAGCTGCGCCCTCGGCTCTGCCACCTGCGAAAGGGACCTCAG
GGCTATGGGTTCAACCTGCATAGTGACAAGTCCCGGCCCGCCAGTACATCCGCTCTGTGGACCCGGGC
TCACCTGCCGCCGCTCTGGCTCCGCGCCAGGACCGGCTCATTGAGGTGAACGGGCAGAATGTGGAG
GGACTGCGCCATGCTGAGGTGGTGGCCAGCATCAAGGCACGGGAGGACGAGGCCCGGCTGCTGGTCGTG
GACCCCGAGACAGATGAACACTTCAAGCGGCTTCGGGTACACCCACCGAGGAGCACGTGGAAGGTCCT
CTGCCGTACCCGTCACCAATGGAACCAGCCCTGCCAGCTCAATGGTGGCTCTGCGTGTCTGCCGA
AGTGACCTGCCTGGTCCGACAAGGACACTGAGGATGGCAGTGCCTGGAAGCAAGATCCCTTCCAGGAG
AGCGGCCCTCCACCTGAGCCCCACGGCGCCGAGGCCAAGGAGAAGGCTCGAGCCATGCGAGTCAACAAG
CGCGGCCACAGATGGACTGGAACAGGAAGCGTAAATCTTCAGCAACTTC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG236706  
 Blue=ORF Red=Cloning site Green=Tag(s)

MARSGSATPPARAPGAPPRSPQRLDVSGPLRELRPRLCHLRKGPQGYGNLHSDKSRPGQYIRSVDPG  
 SPAARSGLRAQDRLIEVNGQNVGLRHAIEVVASIKAREDEARLLVDPETDEHFKRLRVTPTEEHVEGP  
 LPSPVTNGTSPAQLNGGSACSSRDLPGSDKDTEDGSAWKQDPFQESGLHLSPPTAAEAKEKARAMRVNK  
 RAPQMDWNRKREIFSNF

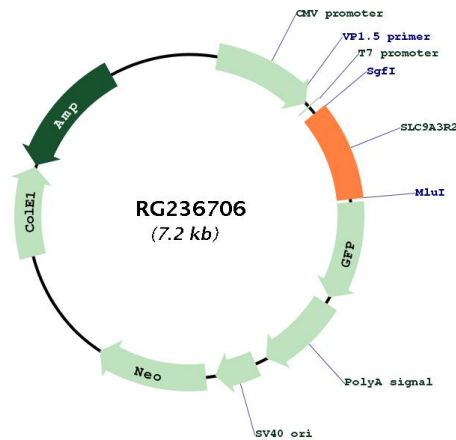
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED  
 SVIFTDKIIRSNAVHFLHMPGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001252075

<b>ORF Size:</b>	672 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>RefSeq:</b>	<a href="#">NM_001252075.2</a>
<b>RefSeq Size:</b>	1805 bp
<b>RefSeq ORF:</b>	675 bp
<b>Locus ID:</b>	9351
<b>Cytogenetics:</b>	16p13.3
<b>Protein Families:</b>	Druggable Genome
<b>MW:</b>	24.9 kDa
<b>Gene Summary:</b>	This gene encodes a member of the NHERF family of PDZ scaffolding proteins. These proteins mediate many cellular processes by binding to and regulating the membrane expression and protein-protein interactions of membrane receptors and transport proteins. The encoded protein plays a role in intestinal sodium absorption by regulating the activity of the sodium/hydrogen exchanger 3, and may also regulate the cystic fibrosis transmembrane regulator (CFTR) ion channel. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Nov 2011]