

Product datasheet for **RG212676**

NPHS2 (NM_014625) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NPHS2 (NM_014625) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NPHS2
Synonyms:	PDCN; SRN1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG212676 representing NM_014625 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGAGAGGAGGGCGCGGAGCTCCTCCAGGGAGTCCCGGGGCGAGGCGGCAGGACTCCGCACAAGGAGA
ACAAGAGGGCAAAGGCCGAGAGGAGCGGGGGCGCGGGCGCCAGGAGGCTGGGCCGAGCCGTCGGG
CTCCGGACGGGCGGGGACCCCGGGGAGCCCGAGCGCCCGCCACGGTGGTGGACGTGGATGAGGTC
CGAGGCTCCGGCGAGGAGGGCACCGAGGTGGTGGCGCTGTTGGAGAGCGAGCGGCCGAGGAAGGTACCA
AATCCTCCGGCTTAGGGGCTGTGAGTGGCTTCTGTCCCTCATTTCCCTGCTTTCATCATCATGACCTT
CCCTTTTTCCATCTGTTCTGCGTAAAGTTGTACAAGAGTATGAAAGAGTAATTATATTCGACTGGGA
CATCTGCTTCTGGAAGAGCCAAAGGCCCTGGTCTTTCTTTTTTGCCTGCCTGGATACCTACCACA
AGGTTGACCTTCGTCTCCAACTCTGGAGATACCTTTTCATGAGATCGTGACCAAAGACATGTTTATAAT
GGAGATAGATGCCATTTGCTACTACCGAATGGAATGCCTCTCTTCTCCTAAGCAGTCTTGCTCATGTA
TCTAAAGCTGTGCAATTCCTTGTGCAAACTACTATGAAGCGTCTCCTAGCACATCGATCCCTCACTGAAA
TTCTTCTAGAGAGGAAGAGCATCGCCCAAGATGCAAAGGTTGCCTTGATTCACTGACCTGTATTTGGGG
AATCAAAGTGGAGAGAATAGAAATTAAGATGTGAGGTTGCCAGCTGGGCTTCAGCACTCACTGGCTGTG
GAGGCTGAAGCGCAAAGACAAGCAAAGTGGGATGATTGCTGCAGAAGCGGAAAAGGCTGCTTCTGAGT
CCCTGAGGATGGCAGCTGAGATTCTGTAGGCACCCCTGCTGCTGTTGAGCTTCGATACCTCCACACCT
TCAGTCTCTGTCCACAGAGAAGCCTTCCACTGTGGTTTTACCTTTGCCATTTGACCTACTGAATTGCCTG
TCTTCTCCAGCAACAGAACTCAGGAAGCCTCCCTTCCCAAGTCTTCCAAACCTGTTGAGCCACTAA
ATCCTAAAAGAAAGACTCTCCCATGTTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG212676 representing NM_014625
 Red=Cloning site Green=Tags(s)

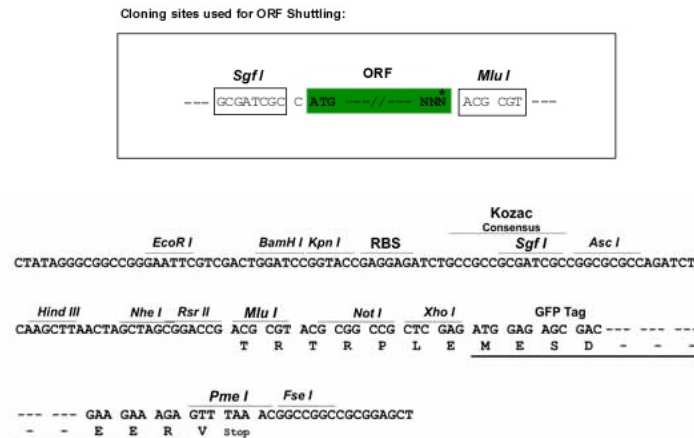
MERRARSSSRGRGGRTPHKENKRAKAERSGGGRGRQEAGPEPSGSGRAGTPGEPAPAAATVVDVDEV
 RGSGEEGTEVVALLESERPEEGTKSSGLGACEWLLVLISLLFIIMTFPFSIWFCVKVVQEYERVIIIFRLG
 HLLPGRAKGPGGLFFFLPCLDTHKVDLRLQTLIPFHEIVTKDMFIMEIDAICYRMENASLLSSLAHV
 SKAVQFLVQTTMKRLLAHRSLTEILLERKSIAQDAKVALDSVTCIWGIKVERIEIKDVRLPAGLQHS LAV
 EAEAQRQAKVRMIAAEAEEKAASESLRMAAEILSGTPAAVQLRYLHTLQSLSTEKPSVVLPFDLLNCL
 SSPSNRTQGSLPFPSPSPKVEPLNPKKKDSPML

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_014625

ORF Size: 1149 bp

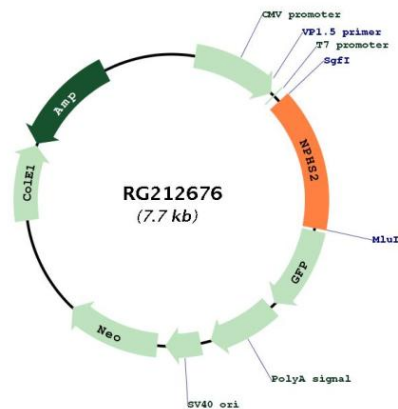
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<u>NM_014625.1, NP_055440.1</u>
RefSeq Size:	1853 bp
RefSeq ORF:	1152 bp
Locus ID:	7827
UniProt ID:	<u>Q9NP85</u>
Cytogenetics:	1q25.2
Protein Families:	Transmembrane
Gene Summary:	This gene encodes a protein that plays a role in the regulation of glomerular permeability. Mutations in this gene cause steroid-resistant nephrotic syndrome. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2014]

Product images:



Circular map for RG212676