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Product datasheet for RC212676

NPHS2 (NM_014625) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NPHS2 (NM_014625) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NPHS2
Synonyms:	PDCN; SRN1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC212676 representing NM_014625
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGAGGAGGGCGCGGAGCTCCTCCAGGGAGTCCCGCGGGCGAGGCGGCAGGACTCCGCACAAGGAGA
ACAAGAGGGCAAAGGCCGAGAGGAGCGGCGGGGGCCGCGGGCGCCAGGAGGCTGGGCCCGAGCCGTCGGG
CTCCGGACGGGCGGGGACCCCGGGGGAGCCCCGAGCGCCCGCCGCCACGGTGGTGGACGTGGATGAGGTC
CGAGGCTCCGGCGAGGAGGGCACCGAGGTGGTGGCGCTGTTGGAGAGCGAGCGGCCCGAGGAAGGTACCA
AATCCTCCGGCTTAGGGGCCTGTGAGTGGCTTCTTGTCCTCATTTCCCTGCTCTTCATCATCATGACCTT
CCCTTTTTCCATCTGGTTCTGCGTAAAGGTTGTACAAGAGTATGAAAGAGTAATTATATTCCGACTGGGA
CATCTGCTTCCTGGAAGAGCCAAAGGCCCTGGTCTTTTCTTTTTTTTGCCCTGCCTGGATACCTACCACA
AGGTTGACCTTCGTCTCCAAACTCTGGAGATACCTTTTCATGAGATCGTGACCAAAGACATGTTTATAAT
GGAGATAGATGCCATTTGCTACTACCGAATGGAAAATGCCTCTCTTCTCCTAAGCAGTCTTGCTCATGTA
TCTAAAGCTGTGCAATTCCTTGTGCAAACCACTATGAAGCGTCTCCTAGCACATCGATCCCTCACTGAAA
TTCTTCTAGAGAGGAAGAGCATCGCCCAAGATGCAAAGGTTGCCTTGGATTCAGTGACCTGTATTTGGGG
AATCAAAGTGGAGAGAATAGAAATTAAAGATGTGAGGTTGCCAGCTGGGCTTCAGCACTCACTGGCTGTG
GAGGCTGAAGCGCAAAGACAAGCCAAAGTGCGGATGATTGCTGCAGAAGCGGAAAAGGCTGCTTCTGAGT
CCCTGAGGATGGCAGCTGAGATTCTGTCAGGCACCCCTGCTGCCGTTCAGCTTCGATACCTCCACACCCT
TCAGTCTCTGTCCACAGAGAAGCCTTCCACTGTGGTTTTACCTTTGCCATTTGACCTGCTGAATTGCCTG
TCTTCTCCCAGCAACAGAACTCAGGGAAGCCTCCCCTTCCCAAGTCCTTCCAAACCTGTTGAGCCACTAA
ATCCTAAAAAGAAAGACTCTCCCATGTTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

View online »

Protein Sequence:

>RC212676 representing NM_014625
Red=Cloning site Green=Tags(s)

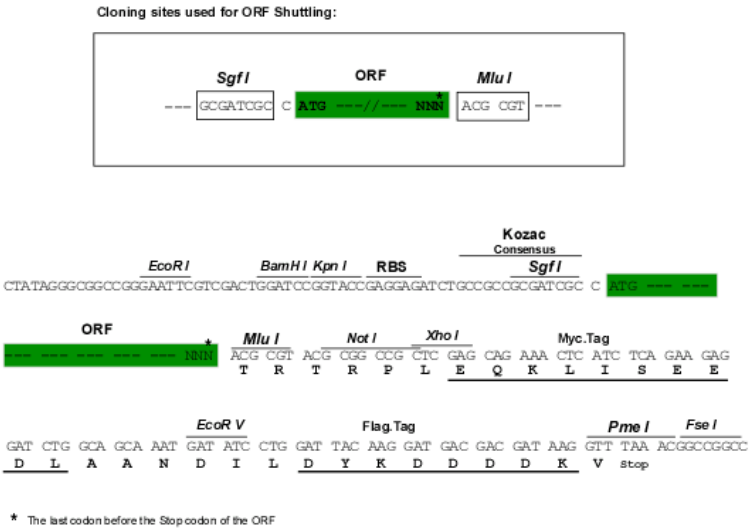
MERRARSSSRESRGRGGRTPHKENKRAKAERSGGGRGRQEAGPEPSGSGRAGTPGEPRAPAATVVDVDEV
RGSGEEGTEVVALLESERPEEGTKSSGLGACEWLLVLISLLFIIMTFPFSIWFCVKVVQEYERVIIFRLG
HLLPGRAKGPGLFFFLPCLDTYHKVDLRLQTLEIPFHEIVTKDMFIMEIDAICYYRMENASLLLSSLAHV
SKAVQFLVQTTMKRLLAHRSLTEILLERKSIAQDAKVALDSVTCIWGIKVERIEIKDVRLPAGLQHSLAV
EAEAQRQAKVRMIAAEAEKAASESLRMAAEILSGTPAAVQLRYLHTLQSLSTEKPSTVVLPLPFDLLNCL
SSPSNRTQGSLPFPSPSKPVEPLNPKKKDSPML

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg4324_b09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_014625

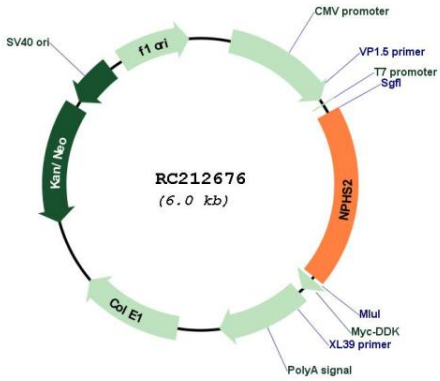
ORF Size: 1149 bp

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.

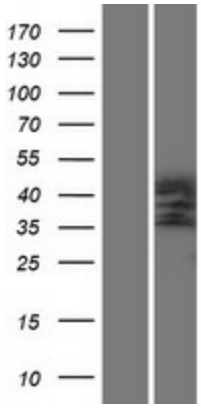
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_014625.4
RefSeq Size:	1853 bp
RefSeq ORF:	1152 bp
Locus ID:	7827
UniProt ID:	Q9NP85
Cytogenetics:	1q25.2
Protein Families:	Transmembrane
MW:	42 kDa
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]

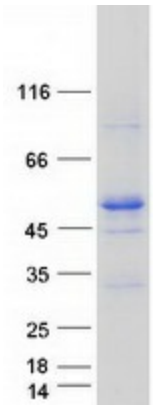
Product images:



Circular map for RC212676



Western blot validation of overexpression lysate (Cat# [LY415156]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC212676 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NPHS2 protein (Cat# [TP312676]). The protein was produced from HEK293T cells transfected with NPHS2 cDNA clone (Cat# RC212676) using MegaTran 2.0 (Cat# [TT210002]).