

Product datasheet for **MR206007**

Nphs2 (NM_130456) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nphs2 (NM_130456) Mouse 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:	>MR206007 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGGACAGCAGGGCGCGGAGCTCTCCGAGAGGCCACGGGAGAAGTAGCAGGTCTCCTCTAGGGATG
 ACAAGAAGGCAAAGGCCGGGAGGGGAGGAGGCGCGCACGTCCGGATGCTGGAGCAGAGCGGCAGAG
 CACCGGGCGGACAGCGACCCGAGGGGAGCCCCAGCTCCCGCTGCCACCGCCACCGTAGTGGACGTGGAC
 GAGGTTCCGGGCCCTGGTGAGGAGGGCACGGAAGTGGTGGCGCTGCTGGAGAGCGAGCGACCAGAGGAAG
 GCATCAAGCCCTCTGGATTAGGGGCCTGCGAGTGGCTTCTGTCTCGCCTCCCTGATCTTCATCATCAT
 GACGTTCCCTTTTCCATCTGTTCTGCATAAAGGTTGTGCAAGAGTATGAAAGAGTAATTATATCCGA
 CTGGGACATCTGCTTCTGGAAGAGCCAAAGGTCCTGGCCTGTTCTTTTTTTACCTGTCTGGACACCT
 ATCACAAGGTTGATCTCCGTCTCCAGACCTTGAAATACCTTTCCATGAGGTGGTAACCAAGATATGTT
 TATAATGGAGATAGACGCTGTCTGCTACTACCGCATGGAAATGCCTCTCTTCTTCTAAGCAGTCTAGCC
 CATGTGTCCAAAGCCATCCAGTTCCTGGTGAAACCACCATGAAGCGCCTCTTGGCACATCGATCCCTCA
 CTGAAATTCTCCTGAAAGGAAGAGCATTGCCCAAGATGTAAAGTTGCCTTAGATGCAGTGACCTGTAT
 TTGGGGCATCAAAGTGAGAGAACTGAAATTAAGGATGTGAGGCTGCCAGCTGGGCTTCAGCACTCTCTG
 GCGGTGGAAGCTGAGGCACAAAGACAGGCCAAAGTGCGGGTATTGCTGCAGAAGGGGAAAGGCTGCTT
 CAGAGTCCCTGAGGATGGCGGCTGAGATTCTGTGCGGCACCCAGCCGCTGTCCAGCTTCGATACTTGCA
 CACTCTTCAGTCGCTGTCCACAGAGAAGCCAGCCACTGTGGTTTTGCCTTTGCCATTTGACATGCTAAGC
 CTTTTGTCTCTCCCGCAACAGAGCACAAAGGAGCATCAACTACCCAAGTTCCTCCAACCAAGTTGAAC
 CACTAAATCCCAAAAAGAAGGACTCTCCTATGTTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


[View online »](#)

Protein Sequence: >MR206007 protein sequence
 Red=Cloning site Green=Tags(s)

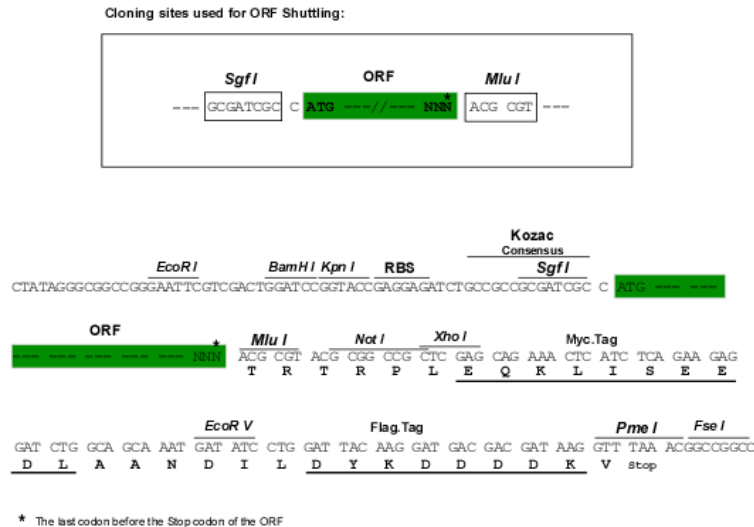
MDSRARSSSREAHGRSSSRSSRDKKAKAGRGSRRGRARPDAGAERQSTGRTATRGEPAPAAATATVVDVD
 EVRGPGEETEVVALLESERPEEGIKPSGLGACEWLLVLASLIFIIMTFPFSIWFCIKVVQEYERVIIIFR
 LGHLLPGRAGPGLFFFLPCLDTHYKVDRLQLTLEIPFHEVVTKDMFIMEIDAVCYRMENASLLSSLA
 HVSKAIQFLVQTTMKRLLAHRSLTEILLERKSIAQDVKVALDAVTCIWGIKVERTEIKDVRLPAGLQHS
 AVEAEAQRQAKVRVIAAEGEKAASESLRMAAEILSGTPAAVQLRHLTLQSLSTEKPATVVLPLPFDMLS
 LLSSPGNRAQGSINYPSSSKPVEPLNPKKKDSPML

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_130456

ORF Size: 1155 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_130456.4](#)

RefSeq Size: 3108 bp

RefSeq ORF: 1158 bp

Locus ID: 170484

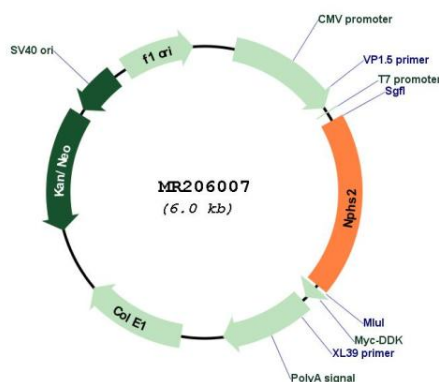
UniProt ID: [Q91X05](#)

Cytogenetics: 1 G3

MW: 42.3 kDa

Gene Summary: Plays a role in the regulation of glomerular permeability, acting probably as a linker between the plasma membrane and the cytoskeleton.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206007