

Product datasheet for **MC220506**

Nphp1 (NM_016902) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nphp1 (NM_016902) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Nphp1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC220506 representing NM_016902
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**C

ATGCTCGCCCGCGGCCGCGGACCCGCTGCAGGCGCTGAGGCGCCGCGGCAGGAGCTGAAGCTGCAGG
 TTGATAGTTTGGTGACTGAAAGCCAACAAACAGGTGCTCTGGAACCGAGTAAAAGGAGAGAGATTTACCA
 AAGATGTATCCAGTTAAACAGGCAGTAGATGAAAATAAAAAACCCCTTCAAAAATTAAACAAAGCTGAT
 GAAGCTGCACCTGTGGGAACTATGAGCAGAGGAAGGAGGAGGAACACAGCCTTCTGGAGAAGCTAGCCT
 GCCAGCTGCAGGAGCTTGCCGTGAGCATCAGCAGGAAAGACGCTCTCAAAGTTGAGGCACACAGTGACAA
 GGAGGAAGATGACACGACTGAAGATGATGAAGAAGAACTGGTGGAGAGGAAGAAGAGTCAGAAGGGGAT
 GGAGAAGGAAAGCAAGAGCAAGCCTCCCGAAACAAGCAGAAACAGAACTGTACATACATCGCTCTTG
 GGGACTTCGCTGCTCAGCAGACTGGGACTTGACCTTTAAGAAAGGGACGTTCTCCATATAATTGAAAA
 GAAGCCTGATGGTTGGTGGCTGGCTAAGGATGCTGAAGGAGTTGAGGGTCTCATTCCAGGACCTACTTG
 GAGCCCTATAATAAAGAAGACAAGCTGGAGTCAAGCGAAGGCAGCGAGGAGGGCGGTGAGGAGGACGGTG
 AGGAGGACGGTGAGGAGGACGTGGAGGTGGTGGATGAAACTGCAGATGGAGCCCAGGTGAAGCAGAGAAC
 TGATTCCTCACTGGAGTGCTGTACGAAAAGCTATCTCAGAGCAGATAAATACCGTTGATGTGTAGCCACA
 ATGGGAGCCATTCTGCAGGATTCGGCCCTCCACGCTCTCCAGCTGCTGGATGAAGCAGGGAACCACT
 TTCGAGCAAGTTACTTCTGCAGCCAGAGCTCAGGACATCGCAGCTGGCCTTCAGAGATCTAACATGGGA
 TGCTAAGGCAGGCAGCATCATGTCGAGACCAAGTCGTGTTTCATTGATTCTGACCCTATGGAGCTGTAA
 ATGATCCCTCTCCAGGAACAAGCATACAGTTCTCAGCAGACACATCCGCTCTGCCTGTTTGACGGCA
 GCAAGGTCCTGAGTAATATCCATACAGTTCGAGCCGTGTGGCAGCCTAAGAAGCCAAAAACATGGACCTT
 CTCTCCTCAGGTCACTGGCATCTTGCCATGCTTGCTCGATGGTGACTGTTTATCAGGTCCAATTCTTCA
 ACTCCAGACCTTGGGATATTATTTGAAGTTGGAATTTCTTACATTGCAATTCAACTGGTGAGAGAGGAG
 AGTTAAGCTGTGGCTGGGTGTTTCTTAAGCTTTTCGATGCCAGTGAGGATTCCTATTCCAGCAAAAACATA
 CGAACTCTTCTGAATGGCGGCACTCCTTACGAAAAAGGTGTTGAAGTGAGCCCTTCAGTGTCAGAAGA
 GCACAGGGCAGTGTTTTCCGTGAGATGATAAGTGTGCGCAGGCAGCCTCAACTTCTGGTGAAACTTCGGT
 CTCTGAACAGGAGGTCCAGGGCCATGCTCAGTCTGCTGCCAGAAACCCTGGTGGGAGTATGTGCTCTGC
 TCACCTACTGATATTTTACCGACAAATCTTGGAGATGTGCTCCTGAGAGACAGGACAAACCTGCAAAGT
 GCCGATTTAATCAGTCATCCCGTCTGGCCACCTTCCCTCTGCTCCTGGAGCAGCCGACGTGATGGATG
 CTCTCAGGAGTTCCTGGTCTGAGAAAGAAAGTACACTAAAGCGAGCAGAGAAGAGAGACAAAGAGCTCCT
 AAAGGCTGAGTTCCTCCTGGTCTACCATGACTGCGTGCTCCCTCTTCTGCACTCGACACTGCTGCCCCCC
 TTTAGGTGGGCCGAGGAAGAGACAGAGGCTGCAAGATGGAAGCCATTGCTGACTTCCTCAAGCAGAGCC
 GGGAGAACGAGGGTTCCTGAAGGCTCTGCTGTACCAGATGGAGTTCACAAACCATTTGACCTTTCGGA
 GCAGACCTTTGACTTCTTGGGTGAAATAAGAAAGAACTCAGGC**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja1994_e04.zip

Restriction Sites: SgfI-MluI

ACCN: NM_016902

Insert Size: 2076 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
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_016902.3 , NP_058598.1
RefSeq Size:	2303 bp
RefSeq ORF:	2076 bp
Locus ID:	53885
UniProt ID:	Q9QY53
Cytogenetics:	2 F1

Gene Summary:

Together with BCAR1 it may play a role in the control of epithelial cell polarity. Involved in the organization of apical junctions in kidney cells, together with NPHP4 and RPGRIP1L/NPHP8 (PubMed:21565611). Does not seem to be strictly required for ciliogenesis (PubMed:19208653). Seems to help to recruit PTK2B/PYK2 to cell matrix adhesions, thereby initiating phosphorylation of PTK2B/PYK2 and PTK2B/PYK2-dependent signaling (PubMed:11493697). May play a role in the regulation of intraflagellar transport (IFT) during cilia assembly (PubMed:19208653). Required for normal retina development (PubMed:19208653). In connecting photoreceptor cilia influences the movement of some IFT proteins such as IFT88 and WDR19 (PubMed:19208653). Involved in spermatogenesis; required for the differentiation of early elongating spermatids into spermatozoa (PubMed:18684731).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (a).