

Product datasheet for **MC228683**

Nphp1 (NM_001291013) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nphp1 (NM_001291013) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Nphp1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC228683 representing NM_001291013
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTCGCCCGGGCGCCGGGACCCGCTGCAGGCGCTGAGGCGCCGGGCAGGAGCTGAAGCTGCAGG
 TTGATAGTTTGGTGACTGAAAGCCAACAAACAGGTGCTCTGGAACCGAGTAAAAGGAGAGAGATTTACCA
 AAGATGTATCCAGTTAAAACAGGCAAGTAGATGAAAATAAAAAACCCCTTCAAAAATTAAACAAAGCTGAT
 GAAGCTGCACCTGTGGGAACTATGAGCAGAGGAAGGAGGAGGAACACAGCCTTCTGGAGAAGCTAGCCT
 GCCAGTGCAGGAGCTTGCCGTGAGCATCAGCAGGAAAGACGCTCTCAAAGTTGAGGCACACAGTGACAA
 GGAGGAAGATGACACGACTGAAGATGATGAAGAAGAACTGGTGGAGAGGAAGAAGAGTCAGAAGGGGAT
 GGAGAAGGAAAGCAAGAGCAAGCCTCCCCGAAACAAGCAGAAACAGAACTGTACATACATCGCTCTTG
 GGGACTTCGCTGCTCAGCAGACTGGGGACTTGACCTTTAAGAAAGGGGACGTTCTCCATATAATTGAAA
 GAAGCCTGATGGTTGGTGGCTAAGGATGCTGAAGGAGTTGAGGGTCTCATTCCCAGGACCTACTTG
 GAGCCCTATAATAAAGAAGACAAGCTGGAGTCAAGCGAAGGCAGCGAGGAGGGCGGTGAGGAGGACGGTG
 AGGAGGACGGTGAGGAGGACGTGGAGGTGGTGGATGAACTGCAGATGGAGCCCAGGTGAAGCAGAGAAC
 TGATCCCAGTGGAGTGCTGTACGAAAAGCTATCTCAGAGATAAATACCGTTGATGTGTTAGCCACAATG
 GGAGCCATTCTCGAGGATTCGGCCTCCACGCTCTCCAGCTGCTGGATGAAGGGAACCGATTTTCGAG
 CAAGTTACTTCTGCAGCCAGAGCTCACGACATCGCAGCTGGCCTTCAGAGATCTAACATGGGATGCTAA
 GGCAGGCACGATCATGTCGAGACCAAGTCGTGTTTCATTGATTCTGACCCATGGAGCTGAAAAATGATC
 CCTCTCCAGGAACAAGCATACAGTTCTCAGCAGACACATCCGCCTCTGCCTGTTTGACGGCAGCAAGG
 TCCTGAGTAATATCCATACAGTTTCGAGCGGTGGCAGCCTAAGAAGCCAAAAACATGGACCTTCTCTCC
 TCAGGTCACTGGCATCTTGCCATGCTTGCATGCTGATGGTACTGTTTTATCAGGTCCAATTCTCAACTCCA
 GACCTTGGGATATTATTTGAACTTGAATTTCTTACATTCGCAATTCAACTGGTGAGAGAGGAGAGTTAA
 GCTGTGGCTGGGTGTTTCTTAAGCTTTTCGATGCCAGTGGAGTTCCTATTCCAGCAAAAACATACGAACT
 CTTCTTGAATGGCGGCACTCCTTACGAAAAGGTGTTGAAGTGGACCCTTCAGTGTCCAGAAGAGCACAG
 GGCAGTGTTCCTGTCAGATGATAAGTGTGCGCAGGCAGCCTCAACTTCTGGTGAAACTTCGGTCTCTGA
 ACAGGAGTCCAGGGCCATGCTCAGTCTGCTGCCAGAAACCTGGTGGGAGTATGTGCTCTGCTCACTT
 ACTGATATTTACCGACAAATCTTGGAGATGTGCTCCTGAGAGACAGGACAAACCTGCAAAGTGGCGAT
 TTAATCAGTCATCCCGTCTGGCCACCTCCCTCTGCTCCTGGAGCAGCCGACGTGATGGATGCTCTCA
 GGAGTTCCCTGGTCTGAGAAAGAAAGTACACTAAAGCGAGCAGAGAAGAGAGACAAAGAGCTCCTAAAGGC
 TGAGTTCTCCTGGTCTACCATGACTGCGTCTCCCTCTTCTGCACTCGACACTGCTGCCCCCTTTAGG
 TGGGCCGAGGAAGAGACAGAGGCTGCAAGATGGAAGCCATTGCTGACTTCTCAAGCAGAGCCGGGAGA
 ACGAGGGTTCCCTGAAGGCTCTGCTGTCACCAGATGGAGTTCACAAACATTTGACCTTTTCGGAGCAGAC
 CTTTGACTTCTTGGGTGAAATAAGAAAGAACTCAGGCTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001291013

Insert Size: 2070 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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:	<ol style="list-style-type: none">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_001291013.1, NP_001277942.1</u>
RefSeq Size:	2297 bp
RefSeq ORF:	2070 bp
Locus ID:	53885
Cytogenetics:	2 F1
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (3) uses two alternate in-frame splice sites in the central coding region, compared to variant 1, resulting in an isoform (c) that is 2 aa shorter than isoform a. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>