

## Product datasheet for **MC228687**

### **Nphp1 (NM\_001291012) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nphp1 (NM_001291012) 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:** >MC228687 representing NM\_001291012  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCTCGCCCGGCCGGCCGGGACCCGCTGCAGGCGCTGAGGCGCCGGGCAGGAGCTGAAGCTGCAGG  
 TTGATAGTTTGGTGACTGAAAGCCAACAAACAGGTGCTCTGGAACCGAGTAAAAGGAGAGAGATTTACCA  
 AAGATGTATCCAGTTAAACAGGCAAGTAGATGAAAATAAAAAACCCCTTCAAAAATTAACAAAGCTGAT  
 GAAGCTGCACCTGTGGGAACTATGAGCAGAGGAAGGAGGAGGAACACAGCCTTCTGGAGAAGCTAGCCT  
 GCCAGCTGCAGGAGCTTGCCGTGAGCATCAGCAGGAAAGACGCTCTCAAAGTTGAGGCACACAGTGACAA  
 GGAGGAAGATGACACGACTGAAGATGATGAAGAAGAACTGGTGGAGAGGAAGAAGAGTCAGAAGGGGAT  
 GGAGAAGGAAAGCAAGAGCAAGCCTCCCCGAAACAAGCAGAAACAGAACTGTACATACATCGCTCTTG  
 GGGACTTCGCTGCTCAGCAGACTGGGGACTTGACCTTTAAGAAAGGGGACGTTCTCCATATAATTGAAA  
 GAAGCCTGATGGTTGGTGGCTAAGGATGCTGAAGGAGTTGAGGGTCTCATTCCCAGGACCTACTTG  
 GAGCCCTATAATAAAGAAGACAAGCTGGAGTCAAGCGAAGGCAGCGAGGAGGGCGGTGAGGAGGACGGTG  
 AGGAGGACGGTGAGGAGGACGTGGAGGTGGTGGATGAAACTGCAGATGGAGCCCAGTGAAAGCAGAGAAC  
 TGATCCCAGTGGAGTGCTGTACGAAAAGCTATCTCAGAGCAGATAAATACCGTTGATGTGTAGCCACA  
 ATGGGAGCCATTCTGCAGGATCCGGCCTTCCACGCTCTCCAGCTGCTGGATGAAGGGAACAGTTTC  
 GAGCAAGTTACTTCTGCAGCCAGAGCTCACGACATCGCAGCTGGCCTTCAGAGATCTAACATGGGATGC  
 TAAGGCAGGCACGATCATGTGAGACCAAGTCGTGTTTCATTGATTCTGACCCTATGGAGCTGTAATG  
 ATCCCTCTCCAGGAACAAGCATACAGTTCTCAGCAGACACATCCGCTCTGCCTGTTTGACGGCAGCA  
 AGGTCCTGAGTAATATCCATACAGTTTCGAGCCGTGTGGCAGCCTAAGAAGCCAAAAACATGGACCTTCTC  
 TCCTCAGGTCAGTGGCATCTTGCCATGCTTGCATGATGGTACTGTTTTATCAGGTCCAATTCTTCAACT  
 CCAGACCTTGGGATATTATTTGAACTTGAATTTCTTACATTTCGAATTCAACTGGTGGAGAGGAGAGT  
 TAAGCTGTGGCTGGTGTCTTAAAGCTTTTCGATGCCAGTGGAGTTCCTATTCCAGCAAAAAACATACGA  
 ACTCTTCTTGAATGGCGGCACTCCTTACGAAAAGGTGTTGAAGTGGACCCTTCAGTGTCCAGAAGAGCA  
 CAGGGCAGTGTTCCTGATGATAAGTGTGCGCAGGCAGCCTCAACTTCTGGTGAACCTTCGGTCTC  
 TGAACAGGAGGTCAGGGCCATGCTCAGTCTGCTGCCAGAAACCCTGGTGGGAGTATGTGCTCTGCTCA  
 CTTACTGATATTTACCGACAAATCTTGGAGATGTGCTCCTGAGAGACAGGACAAACCTGCAAAGTGCC  
 GATTTAATCAGTCATCCCGTGTGGCCACCTTCCCTCTGCTCCTGGAGCAGCCCAGCTGATGGATGCTC  
 TCAGGAGTTCCTGGTCTGAGAAAGAAAGTACACTAAAGCGAGCAGAGAAGAGAGACAAAGAGCTCCTAAA  
 GGCTGAGTTCCTCCTGGTCTACCATGACTGCGTGTCCCTCTTCTGCACTCGACACTGCTGCCCCCTTT  
 AGGTGGGCGGAGGAAGAGACAGAGGCTGCAAGATGGAAAGCCATTGCTGACTTCTCAAGCAGAGCCGGG  
 AGAACGAGGGTCCCTGAAGGCTCTGCTGTACCAGATGGAGTTCACAAACCATTGACCTTTGGGAGCA  
 GACCTTTGACTTCTTGGGTGAAATAAGAAAGAAGCTCAGGCT**AA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_001291012

**Insert Size:** 2073 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<u>NM_001291012.1, NP_001277941.1</u>
<b>RefSeq Size:</b>	2300 bp
<b>RefSeq ORF:</b>	2073 bp
<b>Locus ID:</b>	53885
<b>Cytogenetics:</b>	2 F1
<b>Gene Summary:</b>	<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 (2) uses an alternate in-frame splice site in the central coding region, compared to variant 1, resulting in an isoform (b) that is 1 aa shorter than isoform a.</p>