

Product datasheet for **MC224244**

Nphp3 (NM_028721) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Nphp3 (NM_028721) Mouse Untagged Clone
Tag: Tag Free
Symbol: Nphp3
Synonyms: 3632410F03Rik; AI550417; C230078J01; D330020E01Rik; pcy
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC224244 representing NM_028721
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCACAGCCTCGTCGCTGGTGAAGTCCCACTGGCGGGAGGTGATCGAGGACACGTACGGGGCAGGGC
GCGGCGAGGCCTGCGAGATCCCGGTGGAAGTAAAACCAAGCCCGCCTGCTGCGCAGCTCGTCCGCGAG
GGGCGCGGAGCCGGGCCGGGTGCTGCTCGCGCGGCAGGGGGCGGGGCTGCTGGGCGCCAGCTTC
AAGTCCACCGGCTCGTCTGTGCCGAGCTAGAGTATGCGGCGCCGAGTTCGAGCGGCTCAAGAAAGAGT
ATGAGATCTTCCGGGTCAGCAAGAACCAGGAGTTGCTGTCCATGGGCCGCCGAGAGGCCAAGCTGGACAC
GGAGAACAAGCGGCTGCGGGCGGAGCTGCAGGCACTTCAGAAAACCTACCAGAAGATACTTCGGGAAAAA
GAGGGTGCCTTAGAAGCAAAATACCAAGCCATGGAGAGAGCGGTACATTTGAACATGACAGAGACAGGG
TAAAAGGCAATCAAGATTTTTAGGAAACCAAGAAAATGAAATTCAGGACTTACTGAGGGCCAAAGCG
AGAGTTGGAGAGCAAACCTCAGAGGCTGCAGGCTCAGGGATCCAAGTGTTCGACCCTGGGGAGTCTGAC
TCGGATGACAACATGCACAGATGTCAGTCTGCGGGAACGCAATGTGAGTACTGGCCAGCAGAGCCCTGG
GCAGCGAATTCCATAGGCAGCATGATCCAGCTCCCGCAGCCTTTCAGAGGCCCGGAGTTCGCCACAG
TTCTATAGATGTGGAAGGACCCTTTGCAACATCAACCGAGATGACTGGGACGCTGCTGTAGCTGGTTTA
TTACAGGCCACACCCCTTGTCTCACATTCCTGTGGAGTACCCTGTGAGGTGCTACCTCATCTACACAG
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AATGGGATATTTCTCCTCGCTGTTATTTCCATTAGATGTTGAAAATCAGTATCTCACTGTAAGAAAA
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AAGATCATTGAACACTCCGGAGATCCTGCAGAGGGAGTGTGTAAGATTTACGTGGGTGTGAAAAAGATTA
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TCCAGAAGAAGATGATTTGCGGGATGTTCTGTGGGACATACACGATGAGCAAGAGCAGATGGAAGCCTTT
CAGCAGACTTCTAGCTCCGCCATGAAGTGGGATTCGAGAAGTATTACCAGCGCCTGGATGATCTGGTGG



TGGCGCCAGCCCCGATCCCACCCCTCCTGGTTTCTGGCGGACCAGGTTCTGGGAAGTCCCTTCTTTTATC
 AAAATGGATTGAGCTGCAGCAGAAGCATTTCCCAAACACCTGATCCTGTCTCATTTTGTGGGGAGACCA
 ATGTCAACCAGCTCAGAGTCCTCTTTGATTATCAAGCGGCTGACCTGAAGCTGATGCAGCACTTCTGGG
 CAGTTTCTGCACTGCACTGGATCCTGTAAAGTCTGGAGGAATTTCCACATTGGCTGGAGAAGCTCTC
 TGCCCGGCATCAGGGCAGCATCATCATCATCGATTCCATAGATCAAGTTCAGCAAGTGGAGAAGCAC
 ATGAAGTGGCTGATAGACCCCTGCCGGTGAATGTCAGAGTCATTGTTTCTGTGAACGTGGAGACCTGCC
 CCACAGCTGGAGTTGTGGCCTACACTGCATCTTGATCCTTTAAGCCCCAAGGACGCCATATCTATAAT
 AACAGCAGAATGCTACTCCATGGATGTGCGGTTGAGCAGAGAGCAGGAGAAGATGCTAGAACAGCACTGC
 CGTCCAGCCACAACACGCCACGCCCTCTATGTACCCTTTTCAGCAAGATGATGGCTGTGCCGGGAGAG
 GGGCAACGTAGCTGAAACCTCCATCAGTGCCTGCAGTGTGAGGACACAGTGTCACTGTACAAACTCGT
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 ATCAACGTTAGTCACAATGGCGTGAGTGTGAGTGTGAGCTGATGGAGCTGTATCCAGAGATGCTCTGGCTC
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 TCAGCATCTACAGGCTGGGAAACAGTGGGCTGCAGTACCTGGAGGACCCCGCCCTCGTGTCTTCATAT
 AGGGAAAAGCTATTAGCTATTTTGCCTCACAGCTCAGTCAGGACAGAGTACCTGGAGAAGCGCAGATG
 AGCTCCCATGGCTCTCCAGCAGAGGGAGCAAACAGAAGCTGCACAGTTGCCTCCTCAACCTCCTCGT
 GGCTCAGAACCTTTACAAAAGAGGACACTTCGCCGAGTTGCTGAGTACTGGCAGTTTGTAGGCAAAGAC
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 CGTGGTGCCTTTGCAGAGGTCCCTAGAAATTCGGGAGACAGCCTTAGATCCTGATCACCCGAGAGTAGCC
 CAGTCCCTCCACCAACTGGCCGGTGTGTACGTGCAGTGGAGAAGTTCGGGGATGCGGAGCAGCTGTATA
 AACAGCCCTTGGAGATCTCAGAAAACGCTTATGGTGCAGACCATCCGCATGCTGCTGCTGAACTGGAGGC
 CTGGCGACTCTGTACCACAAAACAAAATAGTACGAACAAGCTGAACATTTTAGGAAAAAATCAGTTATA
 ATTCGTACGAAGCCACGAGGCGAAAAGGACGCTGTACGGGTTTGCCTTCTACGACGAGCGGGCTCTGC
 AGTTGGAAGAGCTCACCTTGGGCAAGGACAAGCCTGAGAACGCCGACCCCTCAATGAGCTGGGTGTTCT
 CTACTTCTTCAAAAACCTCGAGACAGCAGAGCAGTTTCTGAAGCGTTCCTTGGAAATGAGGGAGCGG
 GTTCTGGGGCCAGATCACCCAGACTGCGCACAGTCCCTGAATAACCTGGCAGCTCTTTGCAATGAGAAGA
 AGCAGTACGAGAAAGCAGAGGAGCTGTATGAGCGCGCCCTGGACATCCGGAGACGCGCACTGGCTCCGGA
 CCACCTTCCCTGGCCTACACCGTGAAGCACCTTGCAATCTTGTATAAGAAAACGGGAAAAGTTGACAAA
 GCTGTACCTCTGTATGAATTGGCTGTTGAAATTCGGCAGAAATCCTTTGGCCAAAGCACCCAGTGTAG
 CTACTGCCTTGGTAAACTTGGCAGTCTTCATAGCCAAATGAAAAGCACAGTGAAGCCCTGCCACTATA
 TGAAGAGCATTAAAGATTTATGAAGATAGCTTGGGGAGAATGCATCCTCGAGTTGGAGAACATTGAAA
 AATTTAGCTGTGCTCAGCTATGAAGAAGGGAATTTGAAAAGGCTGCTGAACTGTACAAAAGGGCAATGG
 AGATAAAGAAGCAGAGACATCACTTTTGGGTGGAAAAGCTCCTTCAAGGCAGTCATCAAGTGGAGACAC
 ATTTCTCTTTAAAACAACTATTCCCCTAACGTTTTTCTCCCAAGGGCAAAGCTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_028721
- Insert Size:** 3978 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).
- 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.

RefSeq: [NM_028721.3](#), [NP_082997.3](#)

RefSeq Size: 5894 bp

RefSeq ORF: 3978 bp

Locus ID: 74025

UniProt ID: [Q7TNH6](#)

Cytogenetics: 9 56.11 cM

Gene Summary: Required for normal ciliary development and function. Inhibits disheveled-1-induced canonical Wnt-signaling activity and may also play a role in the control of non-canonical Wnt signaling that regulates planar cell polarity. Probably acts as a molecular switch between different Wnt signaling pathways. Required for proper convergent extension cell movements. [UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (1) represents the longer transcript and it encodes the longer protein (isoform a).