

Product datasheet for **MR225507**

Nphp3 (NM_172460) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nphp3 (NM_172460) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nphp3
Synonyms:	3632410F03Rik; AI550417; C230078J01; D330020E01Rik; pcy
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR225507 representing NM_172460
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGGGCACAGCCTCGTCGCTGGTGAGTCCCACTGGCGGGGAGGTGATCGAGGACACGTACGGGGCAGGCG
 GCGGCGAGGCCTGCGAGATCCCGGTGGAAGTGAAACCAAGGCCGCTGCTGCGCAGCTCGTTCCGCAG
 GGGCGCGGGAGCCGGGCCGGGTGCTGCTCGCGCGGAGGGGCGCGGGCTGCTGGCGCCAGCTTTC
 AAGTCCACCGGCTCGTCTGTGCCGAGCTAGAGTATGCGCGGCCGAGTTCGAGCGGCTCAAGAAAGAGT
 ATGAGATCTTCCGGGTCAGCAAGAACCAGGAGTTGCTGTCCATGGGCCGCCGAGAGGCCAAGCTGGACAC
 GGAGAACAAGCGGCTGCGGGCGGAGCTGCAGGCACTTCAGAAACTTACCAGAAGATACTTCGGGAAAAA
 GAGGGTGCCTTAGAAGCAAAATACCAAGCCATGGAGAGAGCGGTACATTTGAACATGACAGAGACAGGG
 TTTAAAGCAATTCAAGATTTTATAGGAAACCAAGAAAATGAAATTCAGGACTTACTGAGGGCCAAAGCG
 AGAGTTGGAGAGCAAACTTCAGAGGCTGCAGGCTCAGGGGATCCAAGTGTTCGACCTGGGAGTCTGAC
 TCGGATGACAACATGCACAGATGTCACTGCTGCGGGAACGCAATGTGAGTACTGGGCCAGCAGAGCCCTGG
 GCAGCGAGCATTCATAGGCAGCATGATCCAGCTCCCGCAGCCTTTCAGAGGCCCGAGTTCGCCACACAG
 TTCTATAGATGTGGAAGGACCTTTGCAACATCAACCGAGATGACTGGGACGCTGCTGTAGCTGGTTTA
 TTACAGGCCACACCTTGTCTCACATTCCTGTGGAGTCAACCTGTGAGGTGCTACCTCATCTACACAG
 ATGAAACACAGCCCGAAATGGAAGTGTCTTAAAGGACCATCACCTAACTTAAAGAAATGTGCGAGAC
 AATGGGATATTTCTTCTCGCTGTTTATTTCCATTAGATGTTGAAAATCAGTATCTCACTGTAAGAAAA
 TGGGAAATTGAGAAGAGTCTTTAGTTATTTTATCTTCACTCAACATTACCCAGTTTTTACTGGAAG
 ACTGTGAAGAAGCCTTCTGCAAAACCCAGAAGGAAAGCCAGGATTAATCTACCACGTTTGGAGGATGG
 GAAAGTCACTTGTGACTCTGTCCAGCAGTTCTTGATCAAGTTTCCAACCTAGGCAAGACCACTAAAGCC
 AAGATCATTGAACACTCCGAGATCCTGCAGAGGAGTGTGTAAGATTTACGTGGGTGTGAAAAGATTA
 TTAACAGGTAAATATGCGTTTCTGTTAAGTTTTCATCTAAATAGCTTCATGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR225507 representing NM_172460
 Red=Cloning site Green=Tags(s)

MGTASSLVSP TGGEVIEDTYGAGGGEACEIPVEVKPKARLLRSSFRRGAGAGPGSLPRAAGGGGLLGASF
 KSTGSSVPELEYAAAEFERLKKEYEIFRVSKNQELLSMGRREAKLDTENKRLRAELQALQKTYQKILREK
 EGAL EAKYQAMERAVT FEHDDRVRKQFKIFRETKENEIQDLLRAKRELESKLQRLQAQGIQVFDPGESD
 SDDNCTDVTAAGTQCEY WASRALGSEHSIGSMIQLPQPF RGPFAHSSIDVEGPFANINRDDWDAVAGL
 LQATPLF SHSLWSPVRCYLIYDETQPEMELFLKDHSPKLKRCETMGYFFLAVYFPLDVENQYLTVRK
 WEIEKSSLVILFLHSTLPSFLLEDCEEAF LQNP EGKPGLIYHRL EDGKVTCD SVQQFLDQVSNL GKTTKA
 KIIEHSGDPAEGVCKIYVGVEKIIKQVNMRF SVKFSSKIASW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9046_h05.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_172460

ORF Size: 1386 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_172460.1](#), [NP_766048.1](#)

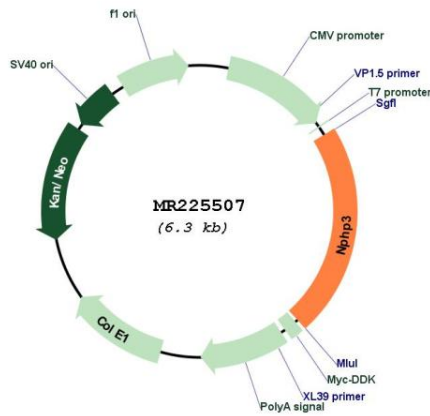
RefSeq Size: 2107 bp

RefSeq ORF: 1389 bp

Locus ID: 74025

UniProt ID:	<u>Q7TNH6</u>
Cytogenetics:	9 56.11 cM
MW:	52.2 kDa
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]

Product images:



Circular map for MR225507