

Product datasheet for **MG225507**

Nphp3 (NM_172460) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nphp3 (NM_172460) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nphp3
Synonyms:	3632410F03Rik; AI550417; C230078J01; D330020E01Rik; pcy
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG225507 representing NM_172460
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGGCACAGCCTCGTCGCTGGTGAAGTCCCACTGGCGGGGAGGTGATCGAGGACACGTACGGGGCAGGCG
 GCGGCGAGGCCTGCGAGATCCCGGTGGAAGTGAACCCAAAGCCCGCCTGCTGCGCAGCTCGTTCCGCAG
 GGGCGCGGGAGCCGGGCCCGGGTCGCTCGCTCGCGCGGAGGGGGCGCGGGCTGCTGGCGCCAGCTTTC
 AAGTCCACCGGCTCGTCTGTGCCGAGCTAGAGTATGCGCGGCCGAGTTCGAGCGGCTCAAGAAAGAGT
 ATGAGATCTTCCGGGTCAGCAAGAACCAGGAGTTGCTGTCCATGGGCCGCCGAGAGGCCAAGCTGGACAC
 GGAGAACAAGCGGCTGCGGGCGGAGCTGCAGGCACTTCAGAAAACCTACCAGAAGATACTTCGGGAAAAA
 GAGGGTGCCTTAGAAGCAAAATACCAAGCCATGGAGAGAGCGGTACATTTGAACATGACAGAGACAGGG
 TTTAAAGCAATTCAAGATTTTATAGGAAACCAAGAAAATGAAATTCAGGACTTACTGAGGGCCAAAGCG
 AGAGTTGGAGAGCAAACTTCAGAGGCTGCAGGCTCAGGGGATCCAAGTGTTCGACCTGGGGAGTCTGAC
 TCGGATGACAACATGCACAGATGTCACTGCTGCGGGAACGCAATGTGAGTACTGGGCCAGCAGAGCCCTGG
 GCAGCGAGCATTCATAGGCAGCATGATCCAGCTCCCGCAGCCTTTCAGAGGCCCCGAGTTCGCCACACAG
 TTCTATAGATGTGGAAGGACCCTTTGCAACATCAACCGAGATGACTGGGACGCTGCTGTAGCTGGTTTA
 TTACAGGCCACACCCTTGTCTCACATTCCTGTGGAGTACCCTGTGAGGTGCTACCTCATCTACACAG
 ATGAAACACAGCCCGAAATGGAAGTGTCTTAAAGGACCATCACCTAACTTAAAGAATGTGCGAGAC
 AATGGGATATTTCTTCTCGCTGTTTATTTCCATTAGATGTTGAAAATCAGTATCTCACTGTAAGAAAA
 TGGGAAATTGAGAAGAGTCTTTAGTTATTTTATCTTCACTCAACATTACCCAGTTTTTTACTGGAAG
 ACTGTGAAGAAGCCTTCTGCAAAACCCAGAAGGAAAGCCAGGATTAATCTACCACGTTTGGAGGATGG
 GAAAGTCACTTGTGACTCTGTCCAGCAGTTCCTGGATCAAGTTTCCAACCTAGGCAAGACCACTAAAGCC
 AAGATCATTGAACACTCCGAGATCCTGCAGAGGAGTGTGTAAGATTTACGTGGGTGTGAAAAGATTA
 TTAACAGGTAAATATGCGTTTCTGTTAAGTTTTCATCTAAAATAGCTTCATGG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG225507 representing NM_172460
 Red=Cloning site Green=Tags(s)

MGTASSLVSPTGGEVIEDTYGAGGGEACEIPVEVKPKARLLRSSFRGAGAGPGSLPRAAGGGGLLGASF
 KSTGSSVPELEYAAAEFERLKKEYEIFRVSKNQELL SMGRREAKLDTENKRLRAELQALQKTYQKILREK
 EGALAKYQAMERAVTFEHDRDRVKRQFKIFRETKENIQDLLRAKRELESKLQRLQAQGIQVDFPGESD
 SDDNCTDVTAAAGTQCEYWASRALGSEHSIGSMIQLPQPFGRGPEFAHSSIDVEGPFANINRDDWDAVAGL
 LQATPLFSLWSHPVRCYLIYDETQPEMELFLKDHSPKLKRCMETMGYFFLAVYFPLDVENQYLTVRK
 WEIEKSSLVILFLHSTLPSFLLEDCEEAFQNPGEKPGLIYHRLDVGKVTCDQSVQQLDQVSNLQKTTKA
 KIIHSGDPAEGVCKIYGVGKIIKQVNMRFVSKFSSKIASW

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



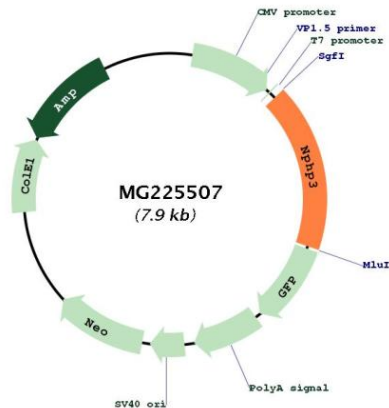
ACCN:	NM_172460
ORF Size:	1386 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own 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: [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]

Product images:



Circular map for MG225507