

Product datasheet for MR205030

Phyh (NM_010726) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Phyh (NM_010726) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Phyh
Synonyms:	A1256161; A1265699; Lnap1; PAHX
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205030 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAATCTTACGCGCGCCGGCGCCGGCTGCAGGTCCTTCTGGGACACCTCGGCCGACCCTCGGCCCAA
CGATTGTAGCCAGCCTGTATCAGGGTTGGCTTCCCTGCCAGTTTCCAGCCTGAACAATCCAGTATAC
TCTGGATAATAATGTCCTCACCTGGAGCAGAGAAAATTTATGAAGAAAATGGGTTTCTCGTTATTAAG
AATCTGGTATCTGATGATGACATTCAACGTTTTTCGAGCAGAGTTTGAAGAATCTGCAGAGAGGAGTGA
AACCACCAGGGATCGTTATAATGAGAGATGTGGCCCTTGCAAAACAGGATTATATGCCAAGTGATAGGAT
GGTTTCAAAGATCCAGGATTTCCAAGAAGATGAGGAGCTTTCAGATACTGCCTTCTCCCGAGATTCTG
AAGTATGTGGAGTGTTCCTACTGGACCAATATTATGGCTCTGCATGGGATGCTGATCAACAAGCCTCCAG
ATGTTGGCAAGAAGACATCCCGGCATCCCTTGCACTCAGGATCTGCACTATTTCCCTTCCGACCTAGCAA
CCTAATTGTTTGTGCTTGGACAGCCATGGAGCACATTGACAGAAACAACGGTTGTCTGGTTGTGCTCCCA
GGTACCCACAAAGGCACTCTGAAGCCACATGATTACCCCAAGTGGGAGGGAGGTGTTAACAAAATGTACC
ATGGCATCCAAGACTATGACCCCAACAGCCCCGGGTCCACCTAGTGATGGAAAAGGGCGATACTGTTTT
CTTCCACCCTCTGCTCATCCATGGATCTGGTCGGAACAAAACCAAGGCTTCCGAAAGCAATTTCTGC
CACTTCGGCAGCTCTGACTGCCAGTGTATCGATGTGAGCGGCACCAGTCAAGAAAATATTGCAAGGGAAG
TTGTCGAGATGGCAGAGAAAAAGTATGGATTCCAAGGAGTCATGGACTTTAAGGACACTTGATATTTTCG
AAGCCGACTTGTGAAAGGAGAAAGAATAAACATT

ACGCGTACGCGCGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205030 protein sequence
 Red=Cloning site Green=Tags(s)

MNLTRAGARLQVLLGHLGRPSAPTIVAQPVSGLASPASFQPEQFQYTLDNNVLTLEQRKFYEENGLVLIK
 NLVSDDDIQRFAEFERICREEVKPPGIVIMRDVALAKQDYMPSDRMVSKIQDFQEDELFRYCLLPEIL
 KYVECF TGNIMALHGMLINKPPDVGKKT SRHPLHQDLHYFPFRPSNLI VCAWTAMEHIDRNNGCLVLP
 GTHKGTLPKPHDYPKWEGGVNKMVHGIQDYDPNSPRVHLVMEKGDVTFVFPPLL IHGSGRNKTQGFRAISC
 HFGSSDCQCIDVSGTSQENIAREVVEMAEEKYGFQGVMDFKDTWIFRSRLVKGERINI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_010726

ORF Size: 1017 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.

RefSeq: [NM_010726.1](#), [NM_010726.2](#), [NP_034856.1](#)

RefSeq Size: 1474 bp

RefSeq ORF: 1017 bp

Locus ID: 16922

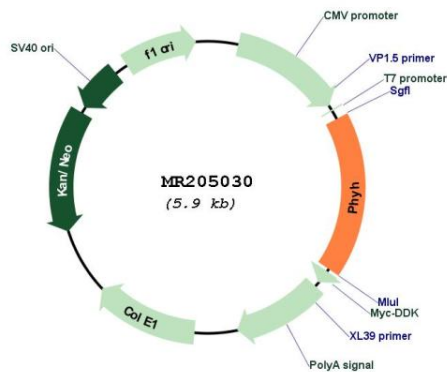
UniProt ID: [O35386](#)

Cytogenetics: 2 A1

MW: 38.6 kDa

Gene Summary: Converts phytanoyl-CoA to 2-hydroxyphytanoyl-CoA.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205030