

Product datasheet for **MR229016**

Phyhd1 (NM_001252568) Mouse Tagged ORF Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Phyhd1 (NM_001252568) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Phyhd1 |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |
| ORF Nucleotide Sequence: | >MR229016 representing NM_001252568 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAAGAAAACAGCCCTGGAGCCATCGAGCTGAGCCAGCTGAGTCTGCAGTATCCCCATGGCCTGCC
TGAGTCCCTCACAACCAAGAAGTTCAGGAGGACGGTTCTGCTGTTGGAAGGATTCTCACAGCGGA
TGAGTGTGTGGCCATGCAGCAGAGGATCGGTGAGATTGAGTGAGATGGATGTCCTCTGCACTGCCGG
ACAGAATTTCCACCCAGGAAGATGAGCAACTCAAACCCAGGGCAAGACAGACTACTTCTTGAGCAGCG
GTGACAAGATCCGATTCTTTGAAAAAGGCGTTTTTGTGAGAAAGGAAATTTCTTGGTCCCTCTGA
GAAATCTATCAACAAAATTGGCCATGCTCTGCATGCCATGACCTGTCTTCAGGAGCATCACACATTCT
CCCAAGCAACCTCACTTTGGCGGCGAAGTCTCCCTCACCAGGATGCTACCTTCTACACGGAGCCCC
TAGGCCGAGTGTGGCCTGTGGATTGCGATGGAGGATGCCATGCTGGAGAACGGTTGCCTCTGGTTCAT
CCCTGGCTCCCATACCCGTGGGTGTCAAGAAGGATGATTCGAGCCCTTCAGACTCTGGCCTGGCACC
AGCTTCTCGGGTCAGATCCAGCCTGGGCTAGCAACCTCTTTGTGCCTTTGCCAGTGAGGAGAGGGGTC
TGTTCTGATCCATGGAGAAGTGGTGCATAAGAGTGAGCAGAACCATTCCGACCACTCCCGCCAGGCCTA
CACTGTCCACCTCATGGAGGCTGCCGGCACTGTCTGGAGCCAGGGAATTGGCTCCAGCCCACGCCCGAG
CTGCCCTTCCCACTCTACAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229016 representing NM_001252568
 Red=Cloning site Green=Tags(s)

MKENSPGAIELSQLSPAVFPMACLSPSQLKKFQEDGFLLEGGFFTADECVAMQQRIGEIVAEMDVPLHCR
 TEFSTQEDELQTQGKTDYFLSSGDKIRFFFEKGVFDEKGNFLVPPEKSINKIGHALHAHDPVFRSITHS
 PKQPHFGGEVSPHQDATFLYTEPLGRVLGLWIAMEDAMLENGCLWFIPGSHTRGVSRMRIRAPSDSGPGT
 SFLGSDPAWASNLFVPLPVRGGGLVLIHGEVVHKSEQNHS DHSRQAYTVHLMEAAGTVWSPGNWLQPTPE
 LPFPPLYS

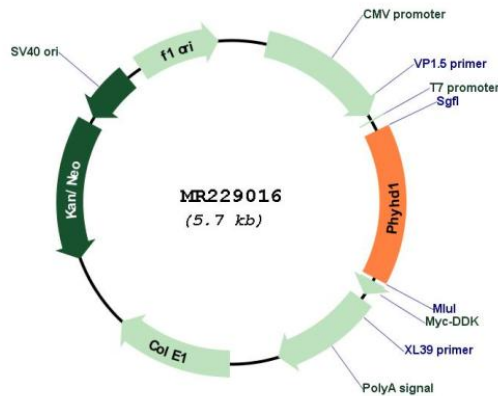
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001252568

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|-------------------------------|---|
| ORF Size: | 864 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: | <ol style="list-style-type: none">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_001252568.2 , NP_001239497.1 |
| RefSeq Size: | 1610 bp |
| RefSeq ORF: | 867 bp |
| Locus ID: | 227696 |
| UniProt ID: | Q9DB26 |
| Cytogenetics: | 2 B |
| MW: | 32.5 kDa |
| Gene Summary: | Has alpha-ketoglutarate-dependent dioxygenase activity. Does not show detectable activity towards fatty acid CoA thioesters. Is not expected to be active with phytanoyl CoA (By similarity).[UniProtKB/Swiss-Prot Function] |