

Product datasheet for SC316991

PHYH (NM_006214) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PHYH (NM_006214) Human Untagged Clone
Tag:	Tag Free
Symbol:	PHYH
Synonyms:	LN1; LNAP1; PAHX; PHYH1; RD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC316991 representing NM_006214. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGAGCAGCTTCGCGCCGCCCGCTCTGCAGATTGTTCTGGGCCACCTCGGCCGCCCTCGGCCGGG
GCTGTCGTAGCTCATCCCACTTCAGGGACTATTTCTCTGCCAGTTTCCATCCTCAACAATTCAGTAT
ACTCTGGATAATAATGTTCTAACCTGGAACAGAGAAAATTTTATGAAGAAAATGGGTTTCTAGTAATC
AAAAATCTGTACCTGATGCCGATTTCAACGCTTTCCGAATGAGTTTGAAGAAAATCTGCAGAAAGGAG
GTGAAACCATTAGGATTAACAGTAATGAGAGATGTGACCATTTGAAATCCGAATATGCTCCAAGTGAG
AAGATGATCACGAAGGTCCAGGATTTCCAGGAAGATAAGGAGCTTTCAGATACTGCACTCTCCCGGAG
ATTCTGAAATATGTGGAGTGCTTCACTGGACCTAATATTATGGCCATGCACACAATGTTGATAAACAAA
CCTCCAGATTCTGGCAAGAAGACGTCCCGTCACCCCTGCACCAGGACCTGCACTATTTCCCTTCAGG
CCCAGCGATCTCATCGTTTGGCGCTGGACGGCGATGGAGCACATCAGCCGGAACAACGGCTGTCTGGTT
GTGCTCCCAGGCACACAAAGGGCTCCCTGAAGCCCCACGATTACCCCAAGTGGGAGGGGGGAGTTAAC
AAAATGTTCCACGGGATCCAGGACTACGAGGAAAAAAGGCCCGGTGCACCTGGTATGGAGAAGGGC
GACTGTTTTCTCCATCCTTTGCTCATCCACGGATCTGGTGAATAAAACCCAGGGATTCCGGGAG
GCAATTTCTGCCATTTCCGAGTCCGATTGCCACTACATTGACGTGAAGGGCACCAGTCAAGAAAAC
ATCGAGAAGGAAGTTGTAGGAATAGCACATAAATTTCTTTGGAGCTGAAAATAGCGTGAACCTGAAGGAT
ATTTGGATGTTTCGAGCTCGACTTGTGAAAGGAGAAAGAACCAATCTTTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites:	Sgfl-MluI
ACCN:	NM_006214
Insert Size:	1017 bp



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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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA
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_006214.3
RefSeq Size:	1620 bp
RefSeq ORF:	1017 bp
Locus ID:	5264
UniProt ID:	O14832
Cytogenetics:	10p13
Protein Families:	Druggable Genome
MW:	38.5 kDa
Gene Summary:	This gene is a member of the PhyH family and encodes a peroxisomal protein that is involved in the alpha-oxidation of 3-methyl branched fatty acids. Specifically, this protein converts phytanoyl-CoA to 2-hydroxyphytanoyl-CoA. Mutations in this gene have been associated with Refsum disease (RD) and deficient protein activity has been associated with Zellweger syndrome and rhizomelic chondrodysplasia punctata. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008] Transcript Variant: This variant (1) encodes isoform a.