

Product datasheet for **RG206277**

PHYH (NM_006214) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PHYH (NM_006214) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: PHYH
Synonyms: LN1; LNAP1; PAHX; PHYH1; RD
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG206277 representing NM_006214
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGCAGCTTCGCGCCGCCGCCCTCTGCAGATTGTTCTGGGCCACCTCGGCCGCCCTCGGCCGGG
 CTGTCGTAGCTCATCCCCTTCAGGGACTATTTCTCTGCCAGTTTCCATCCTCAACAATTCCAGTATAC
 TCTGGATAATAATGTTCTAACCTGGAACAGAGAAAATTTATGAAGAAAATGGGTTTCTAGTAATCAA
 AATCTTTGACCTGATGCCGATATCAACGCTTTCGGAATGAGTTTGAAGAAAATCTGCAGAAAGGAGTGA
 AACCATAGGATTAACAGTAATGAGAGATGTGACCATTTGAAAATCCGAATATGCTCCAAGTGAGAAGAT
 GATCACGAAGGTCAGGATTTCCAGGAAGATAAGGAGCTTTCAGATACTGCACTCTCCCGAGATTCTG
 AAATATGTGGAGTGCTTCACTGGACCTAATATTATGGCCATGCACACAATGTTGATAAAACAACTCCAG
 ATTCTGGCAAGAAGAGCTCCCGTCAACCCCTGCACCAGGACCTGCACTATTTCCCTTCAGGCCAGCGA
 TCTCATCGTTTGGCCTGGACGGCGATGGAGCACATCAGCCGGAACAACGGCTGTCTGGTTGTGCTCCCA
 GGCACACACAAGGGCTCCCTGAAGCCCCACGATTACCCCAAGTGGGAGGGGGGAGTTAACAAAATGTTCC
 ACGGGATCCAGGACTACGAGGAAAACAAGGCCCGGTGCACCTGGTGATGGAGAAGGGCGCACTGTTTT
 CTTCCATCCTTTGCTCATCCACGGATCTGGTCAGAATAAAACCCAGGGATTCCGGAAGGCAATTTCTGC
 CATTTCGCCAGTGCCGATTGCCACTACATTGACGTGAAGGGCACCAGTCAAGAAAACATCGAGAAGGAAG
 TTGTAGGAATAGCACATAAATTCTTTGGAGCTGAAAATAGCGTGAACCTGAAGGATATTTGGATGTTTCG
 AGCTCGACTTGTGAAAGGAGAAAGAACCAATCTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG206277 representing NM_006214
Red=Cloning site Green=Tags(s)

MEQLRAAARLQIVLGHGRPSAGAVVAHPTSGTSSASFHPQQFQYTLDNNVLTLEQRKFFEENGFLVIK
 NLVPDADIQFRNEFEKICRKEVKPLGLTVMRDVTISKSEYAPSEKMITKVQDFQEDKELFRYCTLPEIL
 KYVECF TGP NIMAMHTMLINKPPDSGKKT SRHPLHQDLHYFPFRPSDLIVCAWTAMEHISRNNGLVLP
 GTHKGS LKPHDYPKWEGGVNKMFMHGIQDYEENKARVHLVMEKGDVVFHPLL IHGSGQNK TQGFRAISC
 HFASADCHYIDVKGTSQENIEKEVVGIAHKFFGAENSVNLKDIWMFRARLVKGERNTL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006214

ORF Size: 1014 bp

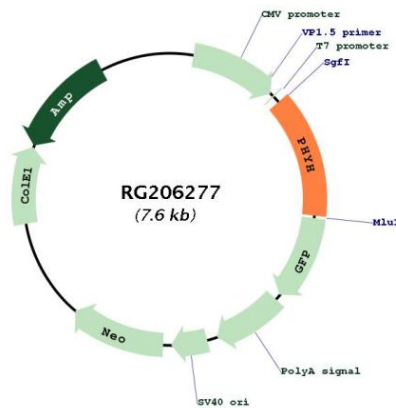
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_006214.2 , NP_006205.1
RefSeq Size:	1620 bp
RefSeq ORF:	1017 bp
Locus ID:	5264
UniProt ID:	O14832
Cytogenetics:	10p13
Protein Families:	Druggable Genome
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]

Product images:



Circular map for RG206277