

Product datasheet for **RR211143**

Phyh (NM_053674) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Phyh (NM_053674) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Phyh
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR211143 representing NM_053674 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGACTATACGCGCGCTGGTGCCCGGCTGCAGGTCCTTCTGGGACACCTTGGCCGACCCTCGGCCCTTC
AGATTGTAGCCACCCCGTATCAGGGCCGGCTTCCCCTGCCAATTTCTGTCTGAACAATCCAGTATAC
TTTGGACAATAATGTCTCAGCCTGGAGCAGAGAAAATTTATGAAGAAAACGGGTTTCTCGTCATAAA
AATCTGGTATCGGATGATGATATTCAACGGTTTCGAGCAGAGTTTGAAAGAATCTGCAGAAAGGAGGTGA
AACCACCAGGGATGACTGTAATGAAAGACGTGGCCATTGCGAAGCAGGGTTATGCGCCAAGTGAGAGGGT
GGTTACGAAGATCCAGGATTTCCAACAAAATGAGGAGCTTTCAGATACTGTGCCCTGCCCCAGATTGTG
AAATACGTGGAGTGCTTCACTGGACCCAATATTATGGCTATGCACACAATGCTGATCAACAAGCCTCCGG
ATTCTGGCAAGAAGACATCCCGGCATCCCTTGCATCAGGATCTGCACTTTTTCCCTTCCGACCCAGCAA
CCTAATTGTTTGTGCTTGGACAGCCATGGAGCACATCGACAGGAACAATGGCTGTCTTGTGTGCTCCCT
GGTACCCACAAAGTCCCCTGAAGCCACATGATTACCCCAAGTGGGAGGGAGGATTAACAAAATGTACC
ATGGCATCCAAGACTATGACCCGGACAGCCCCGCGTCCACTTGGTGATGGAAAAGGGCGACACAGTTTT
CTCCATCCCCTGCTCATCCATGGATCTGGTCGGAACAGAACTCAAGGATTCAGGAAAGCAATCTCCTGC
CACTATGGCAGCTCCGACTGCAAATATATCAGCGTGAAGGGCACCAGTCAAGAAAACATTGCGAGGGAAG
TTATTGAGATTGCGGAGAAACGTTATGGAGTCCAAGGAGCCCTGGACTTTGAGGACACTTGGAAAGTTTCG
ATGCCGACTTGTGAAAGGAGAAAGAATAAACCTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RR211143 representing NM_053674
Red=Cloning site Green=Tags(s)

MDYTRAGARLQVLLGHLGRPSALQIVAHVPVSGPASPANFCPEQFQYTLDNNVLSLEQRKFFEENGFLVIK
 NLVSDDDIQRFAEFERICRKEVKPPGMTVMKDVAIAKQGYAPSERVVKIQDFQQNEELFRYCALPQIV
 KYVECF TGNIMAMHTMLINKPPDSGKTSRHLPLHQDLHFFPFRPSNLIVCAWTAMEHIDRNNGCLVLP
 GTHKGPLKPHDYPKWEGGVNKMVHGIQDYDPSRVHLVMEKGDVTFHPLL IHGSGRNRQTQGRKAISC
 HYGSSDCKYISVKGTSQENIAREVIEIAEKRYGVQALDFEDTWKFRCLVKGERINL

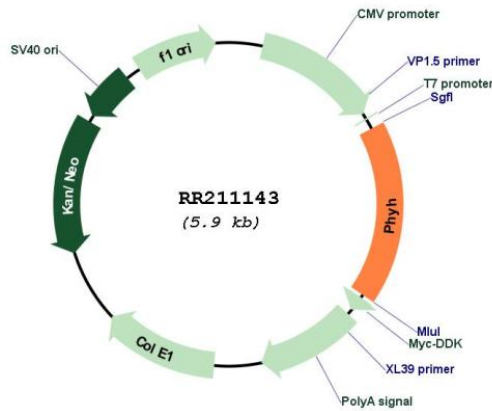
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_053674

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_053674.1 , NP_446126.1
RefSeq Size:	1198 bp
RefSeq ORF:	1017 bp
Locus ID:	114209
UniProt ID:	P57093
Cytogenetics:	17q12.3
MW:	38.6 kDa
Gene Summary:	catalyzes the conversion of phytanoyl-CoA to 2-hydroxyphytanoyl-CoA; plays a role in phytanic acid alpha-oxidation [RGD, Feb 2006]