

Product datasheet for **RG205205**

PHYHIP (NM_014759) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PHYHIP (NM_014759) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PHYHIP
Synonyms:	DYRK1AP3; PAHX-AP; PAHXAP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG205205 representing NM_014759 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGGAGCTGCTGTCCACGCCCCACAGCATTGAGATCAACAACATCACCTGCGACTCCTTCAGCATCTCT
 GGGCCATGGAGGACAGTGACCTGGAGAGGGTCACCCATTACTTCATTGACCTTAACAAGAAGGAGAATAA
 GAATTCCAACAAGTTCAAGCACCGGGACGTCCCCACCAAGCTCGTGGCCAAGGCAGTGCCGCTGCCCATG
 ACGGTGAGAGGCCACTGGTTCCTGAGCCCCGCACGGAGTACAGTGTGGCCGTGCAGACGGCAGTGAAGC
 AGAGCGATGGGGAGTACCTGGTGTCCGGCTGGAGCGAGACGGTGGAGTTCTGCACTGGGGATTATGCCAA
 GGAGCACCTGGCTCAGCTTCAGGAGAAAGCTGAGCAGATCGCAGGCCGCATGCTCCGCTTCTCCGTCTTC
 TACCGCAACCATCACAAGGAGTACTTCGAGCATGCCAGGACCCACTGCGGGAACATGCTGCAACCTTACC
 TGAAGGACAACAGCGGCAGCCACGGCTCCCCACCAAGCGGTATGCTCCACGGGGTCTTCTTCAGCTGCAA
 CACGGAGTTCAACACGGGCCAGCCCCCGCAGGACTCCCCCTACGGCCGCTGGCGCTTCAGATCCCAGCT
 CAGCGCTCTTCAATCCCAGCACCAACCTCTACTTTGCGGACTTCTACTGCATGTACACGGCCTACCACT
 ACGCCATCCTGGTGTGGCGCCAAAGGCTCCATGGGGGACCGCTTCTGCCGCGACCGCCGGCCCCCTCT
 GGACATTGCTTGCAACAAGTTCTGACCTGCAGCGTGGAGGATGGGGAGCTGGTCTTCCGCCACGCCAG
 GACCTCATCCTGGAGATCATCTACACTGAGCCCGTCGACCTGTCCCTGGGCACCTGGGGGAGATCAGTG
 GGCACCACTCATGAGTCTGTCTACTGCCGATGCCAAGAAGGACCCAGCTGCAAGACCTGCAACATCAG
 CGTGGGCCGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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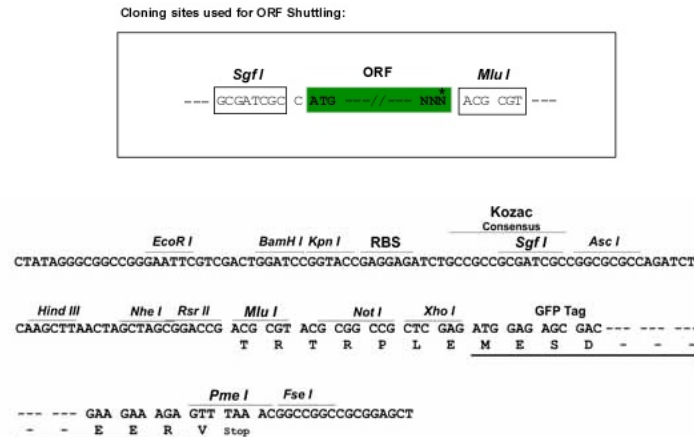
Protein Sequence: >RG205205 representing NM_014759
 Red=Cloning site Green=Tags(s)

MELLSTPHSIEINNITCDSFSISWAMEDSDLERVTHYFIDLNKKENKNSNKFKHRDVPTKLVAKAVPLPM
 TVRGHWFLSPRTEYSVAVQTAVKQSDGEYLVSGWSETVEFCTGDYAKEHLAQLQEAEQIAGRMLRFSVF
 YRNHHKEYFEHARTHCGNMLQPYLKDNSSGSHGSPTSGMLHGVFFSCNTEFNTGQPPQDSPYGRWRFQIPA
 QRLFNPSTNLVFADFYCMYTAYHYAILVLAPKGSMDRFRCDRRPLLDIACNKFLTCSVEDGELVFRHAQ
 DLILEIIYTEPVDLSLGLTGEISGHQLMSLSTADAKKDPSCKTCNISVGR

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_014759

ORF Size: 990 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_014759.2](#), [NP_055574.2](#)

RefSeq Size: 2964 bp

RefSeq ORF: 993 bp

Locus ID: 9796

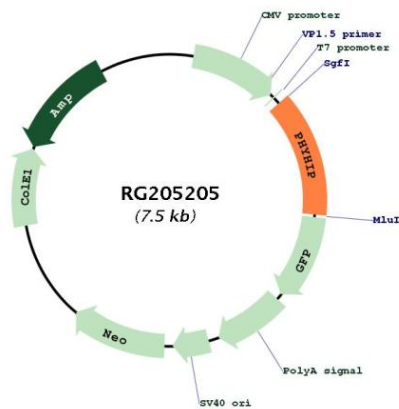
UniProt ID: [Q92561](#)

Cytogenetics: 8p21.3

Domains: FN3

Gene Summary: Its interaction with PHYH suggests a role in the development of the central system. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG205205