

Product datasheet for RC205205

PHYHIP (NM_014759) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PHYHIP (NM_014759) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PHYHIP
Synonyms:	DYRK1AP3; PAHX-AP; PAHXAP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC205205 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCTGTGTCCACGCCCCACAGCATTGAGATCAACAACATCACCTGCGACTCCTTCAGCATCTCT
GGGCCATGGAGGACAGTGACCTGGAGAGGGTACCCATTACTTCATTGACCTTAACAAGAAGGAGAATAA
GAATCCAACAAGTTCAAGCACCGGGACGTCCCCACCAAGCTCGTGGCCAAGGCAGTGCCGCTGCCCATG
ACGGTGAGAGGCCACTGGTTCCTGAGCCCCGCACGGAGTACAGTGTGGCCGTGCAGACGGCAGTGAAGC
AGAGCGATGGGGAGTACCTGGTGTCCGGCTGGAGCGAGACGGTGGAGTTCTGCACTGGGGATTATGCCAA
GGAGCACCTGGCTCAGCTTCAGGAGAAAAGCTGAGCAGATCGCAGGCCGCATGCTCCGCTTCTCCGCTTC
TACCGCAACCATCACAAGGAGTACTTCGAGCATGCCAGGACCCACTGCGGGAACATGCTGCAACCTTACC
TGAAGGACAACAGCGGCAGCCACGGCTCCCCACCAGCGGTATGCTCCACGGGGTCTTCTCAGCTGCAA
CACGGAGTTCAACACGGGCCAGCCCCGCAGGACTCCCCCTACGGCCGCTGGCGCTTCCAGATCCCAGCT
CAGCGCTCTTCAATCCCAGCACCAACTCTACTTTGCGGACTTCTACTGCATGTACACGGCCTACCACT
ACGCCATCCTGGTGTGGCGCCAAAGGCTCCATGGGGGACCGCTTCTGCCGCGACCGCCGGCCCCCTCT
GGCATTGCTTGAACAAGTTCTGACCTGCAGCGTGGAGGATGGGGAGCTGGTCTTCCGCCACGCCAG
GACCTCATCCTGGAGATCATCTACACTGAGCCCCGTCGACCTGTCCCTGGGCACCTGGGGGAGATCAGT
GGCACCAGCTCATGAGTGTCTACTGCCGATGCCAAGAAGGACCCAGCTGCAAGACCTGCAACATCAG
CGTGGGCCGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC205205 protein sequence
Red=Cloning site Green=Tags(s)

MELLSTPHSIEINNITCDSFSISWAMEDSDLERVTHYFIDLNKKENKNSNKFKHRDVPTKLVAKAVPLPM
 TVRGHWFLSPRTEYSVAVQTAVKQSDGEYLVSGWSETVEFCTGDYAKEHLAQLQEAEQIAGRMLRFVSVF
 YRNHHKEYFEHARTHCGNMLQPYLKDNSGSHGSPTSGLMLHGTVFFSCNTEFNTGQPPQDSPYGRWRFQIPA
 QRLFNPNSTNLYFADFYCMYTAYHYAILVLAPKGSMDRFRCDRRRPLLDIACNKFLTCSVEDGELVFRHAQ
 DLILEIIYTEPVDLSLGTLGEISGHQLMSLSTADAKKDPSCKTCNISVGR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6537_e02.zip

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.

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

RefSeq Size: 3232 bp

RefSeq ORF: 993 bp

Locus ID: 9796

UniProt ID: [Q92561](#)

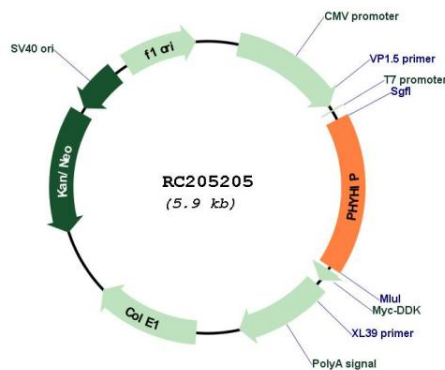
Cytogenetics: 8p21.3

Domains: FN3

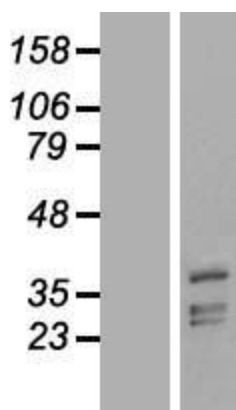
MW: 37.6 kDa

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

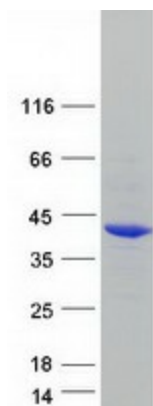
Product images:



Circular map for RC205205



Western blot validation of overexpression lysate (Cat# [LY420432]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC220713] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PHYHIP protein (Cat# [TP305205]). The protein was produced from HEK293T cells transfected with PHYHIP cDNA clone (Cat# RC205205) using MegaTran 2.0 (Cat# [TT210002]).