

Product datasheet for RC220713

PHYHIP (NM_001099335) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PHYHIP (NM_001099335) 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:	>RC220713 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGGAGCTGCTGTCCACGCCACAGCATTGAGATCAACAACATCACCTGCGACTCCTTCAGCATCTCT
 GGGCCATGGAGGACAGTGACCTGGAGAGGGTCACCCATTACTTCATTGACCTTAACAAGAAGGAGAATA
 GAATTCCAACAAGTTCAAGCACCGGGACGTCCCCACCAAGCTCGTGGCCAAGGCAGTGCCGCTGCCCATG
 ACGGTGAGAGGCCACTGGTTCTGAGCCCCGCACGGAGTACAGTGTGGCCGTGCAGACGGCAGTGAAGC
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 GGAGCACCTGGCTCAGCTTCAGGAGAAAGCTGAGCAGATCGCAGGCCGATGCTCCGCTTCTCCGCTTTC
 TACCGCAACCATCACAAGGAGTACTTCGAGCATGCCAGGACCCACTGCGGGAACATGCTGCAACCTTACC
 TGAAGGACAACAGCGGCAGCCACGGCTCCCCACCAAGCGGTATGCTCCACGGGGTCTTCTTCAGCTGCAA
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 CAGCGCTCTTCAATCCCAGCACCAACCTCTACTTTGCGACTTCTACTGCATGTACACGGCCTACCACT
 ACGCCATCCTGGTGTGGCGCCAAAGGCTCCATGGGGGACCGCTTCTGCCGCGACCGCCGGCCCCCTCT
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 GACCTCATCCTGGAGATCATCTACACTGAGCCCGTCGACCTGTCCCTGGGCACCCTGGGGGAGATCAGTG
 GGCACCAGCTCATGAGTCTGTCTACTGCCGATGCCAAGAAGGACCCAGCTGCAAGACCTGCAACATCAG
 CGTGGGCCGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC220713 protein sequence
Red=Cloning site Green=Tags(s)

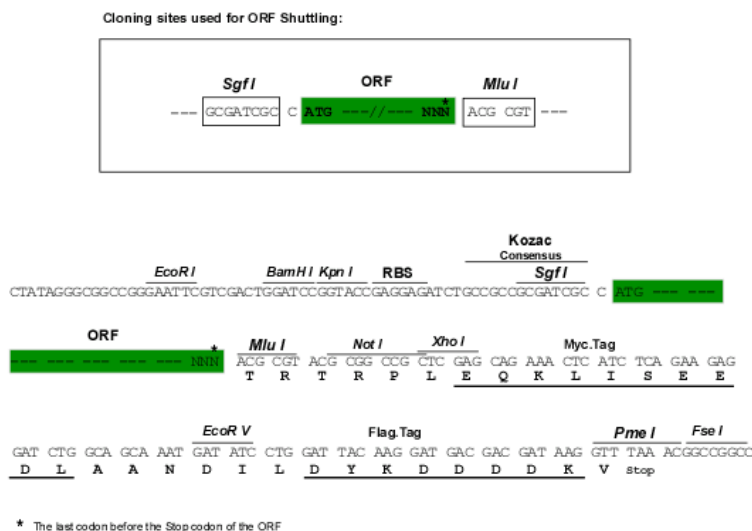
MELLSTPHSIEINNITCDSFSISWAMEDSDLERVTHYFIDLNKKENKNSNKFKHRDVPTKLVAKAVPLPM
TVRGHWFLSPRTEYSVAVQTAVKQSDGEYLVSGWSETVEFCTGDYAKEHLAQLQEKAQEIAGRMLRF SVF
YRNHHKYEFEHARTHCGNMLQPYLKDNSGSHGSP TSGMLHGVFFSCNTEFNTGQPQDSPYGRWRFQIPA
QRLFNPNSTLYADFYACMYATHYAILVLAPKSGMDGRFCRDRRPLLDIACNKLFTCSVDGELVFRHAQ
DLILEIITYTEPVDLSGLTGEISGHOLMSLTADAKKDPSCCKTCLNISVGR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM 001099335

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_001099335.1](#), [NP_001092805.1](#)

RefSeq Size: 3354 bp

RefSeq ORF: 993 bp

Locus ID: 9796

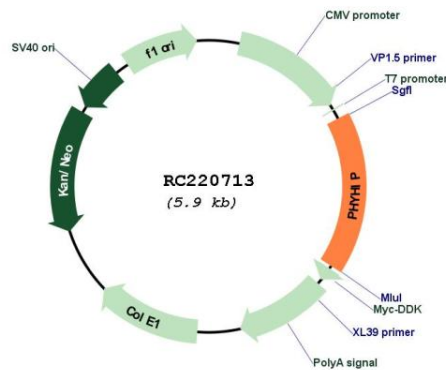
UniProt ID: [Q92561](#)

Cytogenetics: 8p21.3

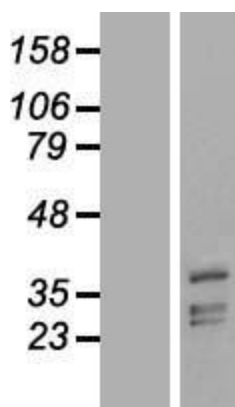
MW: 37.6 kDa

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

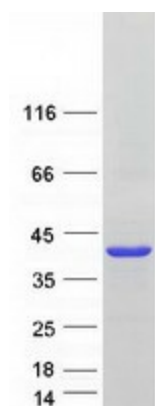
Product images:



Circular map for RC220713



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# [TP320713]). The protein was produced from HEK293T cells transfected with PHYHIP cDNA clone (Cat# RC220713) using MegaTran 2.0 (Cat# [TT210002]).