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Product datasheet for RG202604

PHF15 (JADE2) (NM_015288) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	PHF15
Synonyms:	JADE-2; PHF15
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

ORF Nucleotide Sequence:

>RG202604 representing NM_015288
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAAGAGAAGAGGCGAAAATACTCCATCAGCAGTGACAACTCTGACACCACTGACAGTCATGCGACAT
CTACATCCGCATCAAGATGCTCCAAACTGCCCAGCAGCACCAAGTCGGGCTGGCCCCGACAGAACGAAAA
GAAGCCCTCCGAGGTTTTCCGGACAGACTTGATCACAGCCATGAAGATCCCGGACTCATACCAGCTCAGC
CCGGATGACTACTACATCCTGGCAGACCCATGGCGACAGGAATGGGAGAAAGGTGTGCAGGTGCCTGCCG
GGGCAGAGGCCATCCCAGAGCCCGTGGTGAGGATCCTCCCACCACTGGAAGGCCCCCCTGCCCAGGCATC
CCCGAGCAGCACCATGCTTGGTGAGGGCTCCCAGCCTGATTGGCCAGGGGGCAGCCGCTATGACTTGGAC
GAGATTGATGCCTACTGGCTGGAGCTCATCAACTCGGAGCTTAAGGAGATGGAGAGGCCGGAGCTGGACG
AGCTGACATTAGAGCGTGTGCTGGAGGAGCTGGAGACCCTGTGCCACCAGAATATGGCCAGGGCCATTGA
GACGCAGGAGGGGCTGGGCATCGAGTACGACGAGGATGTTGTCTGCGACGTGTGTCGCTCTCCTGAGGGC
GAGGATGGCAACGAGATGGTCTTCTGTGACAAGTGCAACGTCTGTGTGCATCAGGCATGCTACGGGATCC
TCAAGGTGCCCACGGGCAGCTGGCTGTGCCGGACGTGTGCCCTGGGTGTCCAGCCAAAGTGCCTGCTCTG
CCCCAAGCGAGGAGGAGCCTTGAAGCCCACTAGAAGTGGGACCAAGTGGGTGCATGTCAGCTGTGCCCTA
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CCAGCCGCTGGGCTCTGTCCTGCAGCCTCTGCAAGGAATGCACAGGCACCTGCATCCAGTGTTCCATGCC
TTCCTGCGTCACAGCGTTCCATGTCACATGCGCCTTTGACCACGGCCTGGAAATGCGGACTATATTAGCA
GACAACGATGAGGTCAAGTTCAAGTCATTCTGCCAGGAGCACAGTGACGGGGGCCCACGTAATGAGCCCA
CATCTGAGCCCACGGAACCCAGCCAGGCTGGCGAGGACCTGGAAAAGGTGACCCTGCGCAAGCAGCGGCT
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GAGGCACTGGTCGACTTCATCTACCAGTACTGGAAGCTGAAGAGGAAAGCCAATGCCAACCAGCCGCTGC
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AGAACGAAACACGCCATCTGCAAACTCCAGGAGCAGATATTCCACCTGCAGATGAAACTTATTGAACAGG
ATCTGTGTCGAGCAGGCCTGTCCACCTCATTCCCCATCGATGGCACCTTCTTCAACAGCTGGCTGGCACA
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CCTGCTCCAGGGCTGCTGTCAGAGGAACTGCTGCAGGACGAGGAGACACTGCTCAGCTTCATGCGGGACC
CCTCGCTGCGACCTGGTGACCCTGCTAGGAAGGCCCGAGGCCGCACCCGCCTGCCTGCCAAGAAGAAACC
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GGCCCCTGAGACCCCGGACGAGGCAGCCTCAGTAGCTGCTGACTCAGATGTCCAAGTGCCTGGCCCTGCA
GCAAGCCCTAAGCCTTTGGGCCGGCTCCGGCCACCCCGCGAGAGCAAGGTAACCCGGAGATTGCCGGGTG
CCAGGCCTGATGCTGGGATGGGACCACCTTCAGCTGTGGCTGAGAGGCCCAAGGTCAGCCTGCATTTTGA
CACTGAGACTGATGGCTACTTCTCTGATGGGGAGATGAGCGACTCAGATGTAGAGGCCGAGGACGGTGGG
GTGCAGCGGGGTCCCCGGGAGGCAGGGGCAGAGGAGGTGGTCCGCATGGGCGTACTGGCCTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

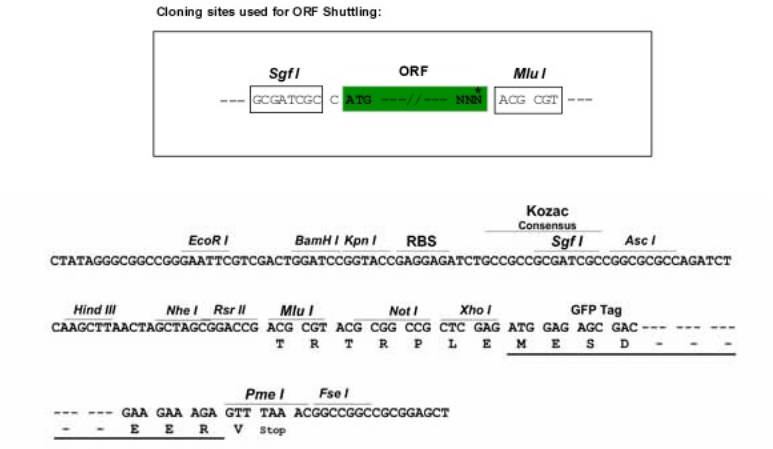
>RG202604 representing NM_015288
Red=Cloning site Green=Tags(s)

MEEKRRKYSISSDNSDTTDSHATSTSASRCSKLPSSTKSGWPRQNEKKPSEVFRTDLITAMKIPDSYQLS
PDDYYILADPWRQEWEKGVQVPAGAEAIPEPVVRILPPLEGPPAQASPSSTMLGEGSQPDWPGGSRYDLD
EIDAYWLELINSELKEMERPELDELTLERVLEELETLCHQNMARAIETQEGLGIEYDEDVVCDVCRSPEG
EDGNEMVFCDKCNVCVHQACYGILKVPTGSWLCRTCALGVQPKCLLCPKRGGALKPTRSGTKWVHVSCAL
WIPEVSIGCPEKMEPITKISHIPASRWALSCSLCKECTGTCIQCSMPSCVTAFHVTCAFDHGLEMRTILA
DNDEVKFKSFCQEHSDGGPRNEPTSEPTEPSQAGEDLEKVTLRKQRLQQLEEDFYELVEPAEVAERLDLA
EALVDFIYQYWKLKRKANANQPLLTPKTDEVDNLAQQEQDVLYRRLKLFTHLRQDLERVRNLCYMVTRRE
RTKHAICKLQEQIFHLQMKLIEQDLCRAGLSTSFPIDGTFFNSWLAQSVQITAENMAMSEWPLNNGHRED
PAPGLLSEELLQDEETLLSFMRDPSLRPGDPARKARGRTRLPAKKKPPPPPPQDGPGSRTTPDKAPKKTW
GQDAGSGKGGQGPPTRKPPRRTSSHLPSSPAAGDCPILATPESPPPLAPETPDEAASVAADSDVQVPGPA
ASPKPLGRLRPPRESKVTRRLPGARPDAGMGPPSAVAERPKVSLHFDTETDGYFSDGEMSDSDVEAEDGG
VQRGPREAGAEEVVRMGVLAS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_015288

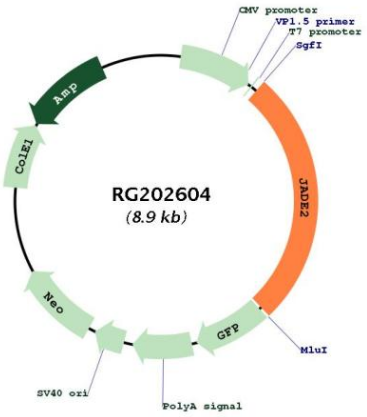
ORF Size: 2373 bp

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_015288.3
RefSeq Size:	6463 bp
RefSeq ORF:	2373 bp
Locus ID:	23338
UniProt ID:	Q9NQC1
Cytogenetics:	5q31.1
Protein Families:	Druggable Genome, Transcription Factors
Gene Summary:	Component of the HBO1 complex which has a histone H4-specific acetyltransferase activity, a reduced activity toward histone H3 and is responsible for the bulk of histone H4 acetylation in vivo (PubMed:16387653). Acts as a E3 ubiquitin-protein ligase mediating the ubiquitination and subsequent proteasomal degradation of target protein histone demethylase KDM1A (PubMed:25018020). Also acts as a ubiquitin ligase E3 toward itself. Positive regulator of neurogenesis (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG202604