

Product datasheet for **RG230591**

PHF8 (NM_001184897) Human Tagged ORF Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | PHF8 (NM_001184897) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | PHF8 |
| Synonyms: | JHDM1F; KDM7B; MRXSSD; ZNF422 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide Sequence:

>RG230591 representing NM_001184897
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCTCGGTGCCGGTGTATTGCCTCTGCCGGCTGCCTTACGATGTGACCCGCTTCATGATCGAGTGTG
 ACATGTGCCAGGACTGGTTTCATGGCAGTTGTGTTGGTGTGAAGAGGAGAAGGCTGCTGACATTGACCT
 CTACCACTGCCCAACTGTGAAGCTTGCATGGCCCTCCATTATGAAAAACGCGTGATCTTCAAAG
 GGGCATGATACACACAAGGGGAAACAGTGAAGACCGGGAGCCCTACGTTGTCGAGAGAGCTCCGGAGTA
 GGACTTTTACAGCTCAGATGAAGTATTCTGAAGCCCACTGAAATCACTGACCGTGGAAATCCTGGA
 AGAAAATAGCTTCAGTGTGCCATCCTGGTCTGAAGAAGGATGGGTGGGCATGACGCTGCCCTCGCCA
 TCATTCAGTGTGAGGGATGTTGAACACTATGTTGGTCTGACAAAGAGATTGATGTGATTGATGTGACCC
 GCCAGGCTGACTGCAAGATGAAGCTTGGTATTTTGTGAAATACTATTACAGCGGAAGAGGGAGAAAGT
 CCTCAATGTCATTAGTTTGAATTCTCTGATACCAGACTTCTAACCTTGTGGAGACCCGAAGATTGTT
 CGAAAGCTGTCATGGGTGAAAACCTTGTGGCCAGAGGAATGTGTCTTTGAGAGACCAATGTACAGAAGT
 ACTGCCTCATGAGTGTGCGAGATAGCTATACAGACTTTCACATTGACTTTGGTGGCACCTCTGTCTGGTA
 CCATGACTCAAGGGTAAAAGATCTTCTACCTGATCCGCCCAACAAATGCCAATCTGACTCTCTTTGAG
 TGCTGGAGCAGTTCCTTAATCAGAATGAGATGTTCTTTGGGACCAGGTGGACAAGTGCTACAAGTGT
 CCGTGAAGCAAGGACAGACACTTTTCATCCCACAGGGTGGATCCATGCTGTGCTGACGCCTGTGGACTG
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 ACATCCTGGACATCTTTCCGGTTCGAGAGAACAGGAGACACCCTGCCTCCTACCTGGTCCATGGTGG
 CAAAGCCTTGAACCTTGGCCTTTAGAGCCTGGACAAGGAAAGAAGCTCTGCCAGACCATGAGGATGAGATC
 CCGGAGACAGTGCGAACCGTACAGCTCATTAAAGATCTGGCCAGGGAGATCCGCCTGGTGGAAATCAACA
 TCACTGGTGCCTGCTGAATGACTCAGATGACGACTCACCAAGACTTGGACCTTGTGAAAATGAGAGCCC
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 CAGATGATGAGCTGCAGATTGACGAGAGATTGGGAAAGGAGAAGGCGACCCTGATAATAAGACAAAATT
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 TTTGACATTGAGGAGGACTATAACAAGATGAGGACATGGTGGAAAGGGTGAAGCAAGCTTGGGAATG
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 CCTCACCGAGGCCAGCTTCTCCAGCACTCAGGAGGCCATCCAGGGCATGCTGTGATGGCAACCTG
 CAGTCTCATCGTCTCACCGGCTACCTTAGCCTGCAGGCTGGTGGACTGGGGGACAGGATCGAAGCA
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 CAAGAGGCCCTGTGAGGAAGTCTCGCTGACCATGAGTACACCGCTCGTCCCAATGCCTTTGGCATGGCCC
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 CCAGAGCAATCAGGCAGGACAAGGAAAGCGTCCCAAAAAGGGCCTGGCCACAGCAAAGCAGAGACTCGGC
 CGTATCCTGAAAATCCACAGAAATGGCAAACACTTCTACGACAGGTATCGTTCAAGCAGAATGCAGAC
 AGGCCATTCACGAGCCCAAGTTGAAGAGAAGAGACGCCATCCG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG230591 representing NM_001184897
 Red=Cloning site Green=Tags(s)

MASVPVYCLCRLPYDVTRFMIECDMCQDWFHGSCVGVVEEKAADIDL YHCPNCEVLHGPSIMKKRRGSSK
 GHDTHKGKPKVTGSPTFVRELRSRTFDSSDEVILKPTGNQLTVEFLEENSFSVPILVLKKGDLGMLTLPSP
 SFTVRDVEHYVGSDEKIDVIDVTRQADCKMKLGDFVKYKYSYSGKREKVLNVLISLEFSDTRLNVLVETPKIV
 RKL SWVENLWPEECVFERPNVQKYCLMSVRDSYDFHIDFGGTSVWYHVLKGEKIFYLIRPTNANLTLFE
 CWSSSNQNMFFGDQVDKCYKCSVKQGQTLFIPTGWIHAVLTPVDCLAFGGNFLHSLNIEMQLKAYEIE
 KRLSTADLFRFPNFETICWYVGKHILDIRGLRENRRHPASYLVHGGKALNLAFAWTRKEALPDHEDEI
 PETVRTVQLIKDLAREIRLVEFNITGACLNDSDDDSPDLDLGNE SPLALLMSGSTKRVKSLSKSRRTK
 IAKKVDKARLMAEQVMEDEFDLDSDELQIDERLGKEKATLIIRPKFPRKL PRAKPCSDPNRVREPGEVE
 FDIEEDYTTDEDMEVGEVGLKNGSGAGGILDLLKASRQVGGPDYAALTEAPASPSTQEAIQGLCMANL
 QSSSSSPATSSLQAWWTGGQDRSSGSSSSGLGTVSNPASQRTPGKRPIKRPAYWRTESEEEEEENASLDE
 QDSL GACFKDAEYIYPSLESDDDDPALKSRPKKKKNSDDAPWSPKARVPTLPKQDRPVREGTRVASIET
 GLAAAAKLAQQELQKAQKKKYIKKKPLLKEVEQPRPQDSNLSL TVPAPTVAATPQLVTSSSPLPPPEPK
 QEALSGSLADHEYTARPNAFGMAQANRSTTPMAPGVFLTQRRPSVGSQSNQAGQGKRPKGLATAKQRLG
 RILKIHRNGKLLLRQVIVQAECRQAIHEPKLRRAHP

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

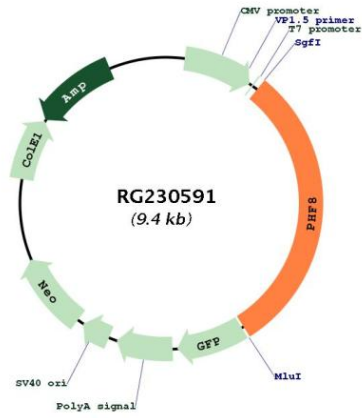


ACCN: NM_001184897

ORF Size: 2844 bp

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|-------------------------------|---|
| 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_001184897.1 , NP_001171826.1 |
| RefSeq Size: | 4667 bp |
| RefSeq ORF: | 2847 bp |
| Locus ID: | 23133 |
| UniProt ID: | Q9UPP1 |
| Cytogenetics: | Xp11.22 |
| Protein Families: | Druggable Genome, Transcription Factors |
| Gene Summary: | The protein encoded by this gene is a histone lysine demethylase that preferentially acts on histones in the monomethyl or dimethyl states. The encoded protein requires Fe(2+) ion, 2-oxoglutarate, and oxygen for its catalytic activity. The protein has an N-terminal PHD finger and a central Jumonji C domain. This gene is thought to function as a transcription activator. Defects in this gene are a cause of syndromic X-linked Siderius type intellectual disability (MRXSSD) and over-expression of this gene is associated with several forms of cancer. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2017] |

Product images:



Circular map for RG230591