

Product datasheet for **SC107370**

PHF8 (NM_015107) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PHF8 (NM_015107) Human Untagged Clone
Tag:	Tag Free
Symbol:	PHF8
Synonyms:	JHDM1F; KDM7B; MRXSSD; ZNF422
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_015107, the custom clone sequence may differ by one or more nucleotides

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ATGGCCTCGGTGCCGGTGTATTGCCTCTGCCGGCTGCCTTACGATGTGACCCGCTTCATGATCGAGTGTG
ACATGTGCCAGGACTGGTTTCATGGCAGTTGTGTTGGTGTGAAGAGGAGAAGGCTGCTGACATTGACCT
CTACCCTGCCCAACTGTGAAGTCTTGCATGGGCCCTCCATTATGAAAAACCGCGTGGATCTTCAAAG
GGGCATGATACACACAAGGGGAAACCAGTGAAGACCGGGAGCCCTACGTTGTCAGAGAGCTCCGGAGTA
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TCATTCAGTGTGAGGGATGTTGAACACTATGTTGGTCTGACAAAGAGATTGATGTGATTGATGTGACCC
GCCAGGCTGACTGCAAGATGAAGCTTGGTATTTGTGAAATACTATTACAGCGGAAGAGGGAGAAAGT
CCTCAATGTCATTAGTTTGAATTCTCTGATACCAGACTTTCTAACCTTGTGGAGACACCGAAGATTGTT
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CCATGTAATCAAGGGTGAAGAGTCTTCTACCTGATCCGCCCAACAAATGCCAATCTGACTCTTTTGAG
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CAAAGCCTTGAACCTTGGCCTTTAGAGCCTGGACAAGGAAAGAAGCTTCCAGACCATGAGGATGAGATC
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TCCAACAGAACGTTGGGAAGACGAGCAATATCTTTGGGCTGCAGAGGATCTTCCAGCCGGCTCCATTCC
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TGGGGCCTGCTGGCCAGTTGAGCTATAATCTCATGGACACATACAGTCATCAGGCACTGAAGACAGGCTC
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GACCTTGATGAAATGAGAGCCATTGGCCCTATTGATGTCTAACGGCAGTACGAAAAGGGTGAAGAGTT
TATCCAAATCTCGGCAACCAAGATAGCAAAGAAGGTAGACAAGGCTAGGCTGATGGCAGAACAGGTGAT
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ACCCTGATAATAAGACCAAAATTTCCCCGAAATTTGCCCGTGGCAAGCCTTGCTCTGACCCCAACCGAG
TTCGTGAACCAGGAGAAGTTGAGTTGACATTGAGGAGGACTATACAACAGATGAGGACATGGTGGAAAG
GGTTGAAGGCAAGCTTGGGAATGGTAGTGGCGCTGGTGGCATTCTTGATCTGCTCAAGGCCAGCAGGCG
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TCCCAGCGCACCCAGGGAAGCGGCCATCAAGCGGCCAGCATACTGGAGAACCAGAGCGAGGAGGAGG
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TTCACTGGAGTCTGATGATGATGACCTGCTTTGAAATCTCGACCAAGAAAAAGAAGAAATTCAGATGAT
GCTCCATGGAGTCTTAAAGCCCGCTGACCCCACTCTGCCGAAGCAGGACCGTCTGTGCGTGAGGGGA
CCCGGGTAGCCTCTATTGAGACAGGTTTGGCTGCAGCAGCTGCAAAGCTGGCCAGCAGGAGCTACAGAA
GGCCAAAAGAAGAAATATATCAAGAAGAAGCCTTTGCTGAAGGAGGTAGAACAGCCTCGCCCTCAAGAC
TCCAATCTCAGTCTGACAGTACCAGCCCCACTGTGGCTGCCACACCACAACCTTGTACCTCCTCCTCAC
CCCTGCCTCCTGAGCCTAAACAAGAGGCCCTGTCCAGGAAGTCTCGCTGACCATGAGTACACCGCTCG
TCCAATGCCTTTGGCATGGCCAGGCAAACCGCAGCACACACCTATGGCCCCGGTGTCTTCTTGACC
CAGCGGCGCCCTTCAGTTGGCTCCAGAGCAATCAGGCAGGACAAGGAAAGCGTCCAAAAAGGGCCTGG
CCACAGCAAAGCAGAGACTCGGCCGTATCTGAAAATCCACAGAAATGGCAAACACTTCTGTGA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_015107 unedited ATTACCCCGCCCGTTGACGCAAAGGGCGGTCGGCGTGTACGGTGGGAGGTCTATATAAG CAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCCGC GAATTCGGCACGAGGGGACGAGCCTCCGCTGAGGCGCTTCGCAGTCCCGGAGCTAGCCCG GCTGCCGGCGTGTGCTGGGGCTGAGCTCCGCGGGCGTGGAGTCTTGCAGCCAAAGCA TGAGGAGGTCCCTGTAGGATTCTGGACTGAAGACGTTCTTGTAGGTTTGGGCGTGAGG AGTTCCGTGTCAGTTGGGAAGCGTTAAGAGTCCTCTATCGTCCAGAGAGGACGCGTGCT GCCGCCTCCCGCCCTCTTGACACGACGAACCTGGCCGGCCGAGAACGCTCCAGGGCCG AGCGAAGATGGCCTCGGTGCCGGTGTATTGCCTCTGCCGCTGCCCTACGATGTGACCCG CTTCATGATCGAGTGTGACATGTGCCAGGACTGGTTTCATGGCAGCTGTGTTGGTGTGA AGAGGAGAAGGCTGCTGACATTGACCTCTACCACTGCCCAACTGTGAAGTCTTGATG GCCCTCCATTATGAAAAACGCCGTGGATCTTCACAGGGCATGATACACACAAGGGAA ACCAAGTGAAGACCGGGAGCCCTACGTTTCGTCAGAGAGCTCCGGAGTAGGACTTTTACAG CTCAGATGAAGTATTCTGAAGCCCACTGGCCATCAACTGACCGTGGCATTCTTGGCAGA CATAGTTCAGTGTGCCATCCTGGTCTGAAGACGGANGNTTGGGCATGACGCTGCC TGCCATCATTCCTGAGGGATGTTGAACCTCATGTTTGGTTCTGACAAGAGCATGAT GTGCACTGATGTACCCGCCAGCTGACTGC
Restriction Sites:	NotI-NotI
ACCN:	NM_015107
Insert Size:	6000 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_015107.1 , NP_055922.1
RefSeq Size:	5776 bp
RefSeq ORF:	3075 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]

Transcript Variant: This variant (2) differs in the 5' UTR and coding sequence compared to variant 1. The resulting isoform (2) is shorter at the N-terminus compared to isoform 1.