

## Product datasheet for **SC329194**

### PHF8 (NM\_001184898) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PHF8 (NM_001184898) Human Untagged Clone
Tag:	Tag Free
Symbol:	PHF8
Synonyms:	JHDM1F; KDM7B; MRXSSD; ZNF422
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001184898, the custom clone sequence may differ by one or more nucleotides

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ATGGCCTCGGTGCCGGTGTATTGCCTCTGCCGGCTGCCTTACGATGTGACCCGCTTCATG
ATCGAGTGTGACATGTGCCAGGACTGGTTTCATGGCAGTTGTGTTGGTGTGAAGAGGAG
AAGGCTGCTGACATTGACCTCTACCACTGCCCAACTGTGAAGTCTTGCATGGGCCCTCC
ATTATGAAAAACGCCGTGGATCTTCAAAGGGGCATGATACACAAGGGGAAACCAGTG
AAGACCGGGAGCCCTACGTTTCGTCAGAGACTCCGGAGTAGGACTTTTGACAGCTCAGAT
GAAGTGATTCTGAAGCCCACTGGAAATCAACTGACCGTGGAAATCCTGGAAGAAAATAGC
TTCAGTGTGCCCATCCTGGTCTGAAGAAGGATGGGTTGGGCATGACGCTGCCCTCGCCA
TCATTCAGTGTGAGGGATGTTGAACACTATGTTGGTCTGACAAAAGAGATTGATGTGATT
GATGTGACCCGCCAGGCTGACTGCAAGATGAAGCTTGGTATTTGTGAAATACTATTAC
AGCGGGAAGAGGGAGAAAGTCTCAATGTCATTAGTTTGGAAATCTCTGATACCAGACTT
TCTAACCTTGTGGAGACACCGAAGATTGTTGAAAGCTGTCATGGGTCGAAAACCTGTGG
CCAGAGGAATGTGCTTTGAGAGACCAATGTACAGAAGTACTGCCTCATGAGTGTGCGA
GATAGCTATACAGACTTTCACATTGACTTTGGTGGCACCTCTGTCTGGTACCATGTACTC
AAGGGTGAAGAAGATCTTCTACCTGATCCGCCCAACAAATGCCAATCTGACTCTCTTTGAG
TGCTGGAGCAGTTCCTCTAATCAGAATGAGATGTTCTTTGGGGACCAGGTGGACAAGTGC
TACAAGTGTCCGTGAAGCAAGGACAGACACTTTTCATCCCACAGGGTGGATCCATGCT
GTGCTGACGCCTGTGGACTGCCTTGCCTTTGGAGGGAACCTTTACACAGCCTTAACATC
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TTCCCCAACTTTGAGACCATCTGTTGGTATGTGGGAAAGCACATCCTGGACATCTTTGCG
GGTTTGCAGAGAAACAGGAGACACCCTGCCTCTACCTGGTCCATGGTGGCAAAGCCTTG
AACTTGGCCTTTAGAGCCTGGACAAGGAAAGACTCTGCCAGACCATGAGGATGAGAT
CCGGAGACAGTGCGAACCGTACAGCTCATTAAAGATCTGGCCAGGGAGATCCGCCTGGTG
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TTCCAGCCGGCTCCATCCCCTAACAGGCCAGCCATTCCACTTCAGTGTCCATGTCC
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GCAAAGTTC AACATCACTGGTGCCTGCTTGAATGACTCAGATGACGACTACCAGACTTG
GACCTTGATGAAATGAGAGCCATTGGCCCTATTGATGTCTAACGGCAGTACGAAAAGG
GTGAAGAGTTTATCCAAATCTCGGCAACCAAGATAGCAAAGAAGGTAGACAAGGCTAGG
CTGATGGCAGAACAGGTGATGGAAGACGAATTTGACTTGGATTGATGATGAGTGCAG
ATTGACGAGAGATTGGGAAAGGAGAAGGCGACCCTGATAATAAGACAAAATTTCCCCGG
AAATTGCCCGTGCGAAGCCTTGCTCTGACCCCAACCGAGTTCGTGAACCAGGAGAAGTT
GAGTTTGACATTGAGGAGGACTATAACAACAGATGAGGACATGGTGAAGGGGTTGAAGGC
TATCAGACAGCAACCCCGCTCCCGCCAAGGTGCCAGCGAGGCCCCAGCTTCTCCAGC
ACTCAGGAGGCCATCCAGGGCATGCTGTGCATGGCCAACCTGCAGTCTCATCGTCTCA
CCGGCTACCTCTAGCCTGCAGGCTGGTGGACTGGGGACAGGATCGAAGCAGTGGGAGC
TCCAGCAGTGGGCTGGGCACAGTGTCTAACAGTCTGCTTCCAGCGCACCCAGGGAAG
CGCCCATCAAGCGGCCAGCATACTGGAGAACCAGAGCGAGGAGGAGGAGGAGAACGCC
AGTCTGGATGAACAGGACAGCTTGGGAGCGTGCTTCAAGGATGCAGAGTATATCTATCCT
TCACTGGAGTCTGATGATGATGACCCTGCTTTGAAATCTCGACCAAGAAAAAGAAGAT
TCAGATGATGCTCCATGGAGTCTAAAGCCCGCTGACCCCAACTCTGCCGAAGCAGGAC
CGTCTGTGCGTGAAGGGACCCGGTAGCCTCTATTGAGACAGGTTTGGTGCAGCAGCT
GCAAAGCTGGCCAGCAGGTGAAGAAAATGAAGCTCTCATTAACTGACTCAGGATAA

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**Restriction Sites:** Please inquire  
**ACCN:** NM\_001184898

<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001184898.1</a></u> , <u><a href="#">NP_001171827.1</a></u>
<b>RefSeq Size:</b>	3580 bp
<b>RefSeq ORF:</b>	2637 bp
<b>Locus ID:</b>	23133
<b>Cytogenetics:</b>	Xp11.22
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (4) differs in the 5' UTR and coding sequence and the 3' UTR and coding sequence compared to variant 1. The resulting isoform (4) has a shorter N-terminus and a shorter and distinct C-terminus compared to isoform 1.</p>