

Product datasheet for **SC329229**

PHF8 (NM_001184897) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | PHF8 (NM_001184897) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | PHF8 |
| Synonyms: | JHDM1F; KDM7B; MRXSSD; ZNF422 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001184897, the custom clone sequence may differ by one or more nucleotides

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ATGGCCTCGGTGCCGGTGTATTGCCTCTGCCGGCTGCCTTACGATGTGACCCGCTTCATG
ATCGAGTGTGACATGTGCCAGGACTGGTTTCATGGCAGTTGTGTTGGTGTGAAGAGGAG
AAGGCTGCTGACATTGACCTCTACCACTGCCCAACTGTGAAGTCTTGCATGGGCCCTCC
ATTATGAAAAACGCCGTGGATCTTCAAAGGGGCATGATACACACAAGGGGAAACCAGTG
AAGACCGGGAGCCCTACGTTTCGTGAGAGCTCCGGAGTAGGACTTTTGACAGCTCAGAT
GAAGTGATTCTGAAGCCCACTGGAAATCAACTGACCGTGGAAATCCTGGAAGAAAATAGC
TTCAGTGTGCCCATCCTGGTCTGAAGAAGGATGGTTGGGCATGACGCTGCCCTCGCCA
TCATTCAGTGTGAGGGATGTTGAACACTATGTTGGTTCTGACAAAAGAGATTGATGTGATT
GATGTGACCCGCCAGGCTGACTGCAAGATGAAGCTTGGTATTTTGTGAAATACTATTAC
AGCGGGAAGAGGGAGAAAGTCTCAATGTCATTAGTTTGGAAATCTCTGATACCAGACTT
TCTAACCTTGTGGAGACACCGAAGATTGTTGAAAGCTGTCATGGGTCGAAAACCTGTGG
CCAGAGGAATGTGCTTTGAGAGACCCAATGTACAGAAGTACTGCCTCATGAGTGTGCGA
GATAGCTATACAGACTTTCACATTGACTTTGGTGGCACCTCTGTCTGGTACCATGTACTC
AAGGGTGAAGAAGTCTTCTACCTGATCCGCCCAACAAATGCCAATCTGACTCTCTTTGAG
TGCTGGAGCAGTTCCTCTAATCAGAATGAGATGTTCTTTGGGGACCAGGTGGACAAGTGC
TACAAGTGTTCGGTGAAGCAAGGACAGACACTTTTCATCCCACAGGGTGGATCCATGCT
GTGCTGACGCCTGTGGACTGCCTTGCCTTTGGAGGGAACCTTTACACAGCCTTAACATC
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AACTTGGCCTTTAGAGCCTGGACAAGGAAAGAAGCTCTGCCAGACCATGAGGATGAGAT
CCGGAGACAGTGCGAACCGTACAGCTCATTAAAGATCTGGCCAGGGAGATCCGCCTGGTG
GAATTC AACATCACTGGTGCCTGCTTGAATGACTCAGATGACGACTCACCAGACTTGGAC
CTTGATGGAAATGAGAGCCCATTTGGCCCTATTGATGTCTAACGGCAGTACGAAAAGGGTG
AAGAGTTTATCCAAATCTCGGCAACCAAGATAGCAAAGAAGGTAGACAAGGCTAGGCTG
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GACGAGAGATTGGGAAAGGAGAAGGCGACCCTGATAATAAGACCAAAATTTCCCCGAAA
TTGCCCGTGCGAAGCCTTGCTCTGACCCCAACCGAGTTCGTGAACCAGGAGAAGTTGAG
TTTGACATTGAGGAGGACTATACAACAGATGAGGACATGGTGGAAAGGGTTGAAGGCAAG
CTTGGGAATGGTAGTGGCGCTGGTGGCATTCTTGATCTGCTCAAGGCCAGCAGGCAGGTG
GGGGGACCTGACTATGCTGCCCTCACCGAGGCCCCAGCTTCTCCCAGCACTCAGGAGGCC
ATCCAGGGCATGCTGTGCATGGCCAACCTGCAGTCTCATCGTCTCACCGGCTACCTCT
AGCCTGCAGGCCTGGTGGACTGGGGACAGGATCGAAGCAGTGGGAGCTCCAGCAGTGGG
CTGGGCACAGTGTCTAACAGTCTGCTTCCCAGCGCACCCAGGGGAAAGCGGCCCATCAAG
CGGCCAGCATACTGGAGAACCAGAGCGAGGAGGAGGAGGAGGAGAACGCCAGTCTGGATGAA
CAGGACAGCTTGGGAGCGTGTCTCAAGGATGCAGAGTATATCTATCCTTCACTGGAGTCT
GATGATGATGACCCTGCTTTGAAATCTCGACCCAAGAAAAAGAAGAAATTCAGATGATGCT
CCATGGAGTCTTAAAGCCCGCTGACCCCAACTCTGCCGAAGCAGGACCGTCTGTGCGT
GAGGGGACCCGGGTAGCCTCTATTGAGACAGGTTTGGCTGCAGCAGCTGCAAAGCTGGCC
CAGCAGGAGCTACAGAAGGCCCAAAAGAAGAAATATATCAAGAAGAAGCCTTTGTGTAAG
GAGGTAGAACAGCCTCGCCCTCAAGACTCCAATCTCAGTCTGACAGTACCAGCCCCACT
GTGGCTGCCACACCACAACCTTGTACCTCCTCCTCACCCCTGCCTCCTCTGAGCCTAAA
CAAGAGGCCCTGTGAGGAAGTCTCGCTGACCATGAGTACACCGCTCGTCCAATGCCTTT
GGCATGGCCCAGGCAAACCGCAGCACCACTATGGCCCCGGTGTCTTCTTGACCCAG
CGGCGCCCTTTCAGTTGGCTCCCAGAGCAATCAGGCAGGACAAGGAAAGCGTCCCAAAAAG
GGCCTGGCCACAGCAAAGCAGAGACTCGGCCGTATCCTGAAAATCCACAGAAATGGCAAA
CTACTTCTACGACAGGTATCGTTCAAGCAGAATGCAGACAGGCCATTACGAGGCCAAAG
TTGAAGAGAAGAGACGCCATCCGTGA

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Restriction Sites: Please inquire

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| ACCN: | NM_001184897 |
| 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). |
| OTI Annotation: | 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. |
| 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: | <u>NM_001184897.1</u> , <u>NP_001171826.1</u> |
| RefSeq Size: | 4667 bp |
| RefSeq ORF: | 2847 bp |
| Locus ID: | 23133 |
| UniProt ID: | <u>Q9UPP1</u> |
| Cytogenetics: | Xp11.22 |
| Protein Families: | Druggable Genome, Transcription Factors |
| Gene Summary: | <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 (3) differs in the 5' UTR and coding sequence, the 3' UTR and coding sequence, and lacks an alternate in-frame exon compared to variant 1. The resulting isoform (3) has a shorter N-terminus, longer and distinct C-terminus, and lacks an internal segment compared to isoform 1.</p> |