

Product datasheet for **SC320309**

ZCWCC1 (MORC2) (NM_014941) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZCWCC1 (MORC2) (NM_014941) Human Untagged Clone
Tag:	Tag Free
Symbol:	ZCWCC1
Synonyms:	CMT2Z; DIGFAN; ZCW3; ZCWCC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_014941.1
CACGAATTCCTTTGGTGCCTTGCTGAACTGGTTGATAATGCAAGAGATGCTGATGCC
ACCAGAATAGATATTTATGCAGAAAGACGAGAGGACCTTCGAGGAGATTATGCTTTGC
TTTTTGGATGATGGAGCAGGAATGGATCCAAGTATGCTGCCAGTGTATCCAGTTTGGG
AAGTCGGCCAAGCGAACCTGAGTCTACTCAGATTGGGCACTACGGGAATGGGTAAAA
TCGGGCTCAATGCGCATTGGGAAGGATTTATCCTGTTCCACCAAGAAGGAAGACCCATG
ACCTGCCTCTTCTGTCTCGCACGTTTCATGAGGAAGAAGGCATTGATGAAGTGATGTC
CCACTGCCACCTGGAATGCTCGGACCCGGGAACCTGTCACAGACAATGTAGAGAAATTT
GCCATTGAGACAGAACTCATCTATAAGTACTCTCCATCCGCACTGAGGAGGAAGTGATG
ACCCAGTTTATGAAGATTCCTGGGGACAGCGGAACATTGGTGATCATCTTCAATCTCAA
CTCATGGATAATGGAGAGCCAGAACTAGACATAATCTCAAATCCAAGAGATATCCAGATG
GCAGAGACGTCCCAGAGGGCACGAAGCCAGAGCGGCGCTCGTTCCGTGCCTATGCCGCT
GTGCTCTATATTGATCCCCGGATGAGGATCTTCATCCATGGGCACAAGGTGCAGACCAAG
AGGCTCTCCTGTGCCTGTACAAGCCCAGGATGTACAAGTACACGTCAAGCCGTTTCAAG
ACCCGTGCGGAGCAGGAGGTGAAGAAAGCAGAGCACGTAGCAAGGATTGCTGAAGAGAAG
GCGCGGGAGGCAGAGAGCAAAGCTCGGACATTAGAAGTACGCCTAGTGGAGACCTCACG
CGGGACTCCAGGGTGATGTTGCGACAGGTCCAGAACAGAGCCATCACTCTGCGCAGAGAA
GCCGATGTCAAGAAGAGGATCAAGGAGGCCAAGCAGCGAGCACTTAAAGAACCTAAGGAA
CTGAATTTTGTGTTTGGTGTCAACATTGAACACCGGGATCTGGATGGCATGTTCTCATCTAC
AACTGTAGCCGACTGATCAAAAATGTATGAGAAAGTGGGCCACAGCTGGAAGGGGCATG
GCATGTGGCGGGGTTGTTGGGGTTGTTGATGTGCCCTACCTGGTCTGGAGCCTACACAC
AACAAACAGGACTTTGCTGATGCCAAGGAGTACCGGCACCTGCTCCGAGCAATGGGGGAG
CACCTGGCGCAGTATTGGAAGGATATTGCCATCGCCAGAGGGGAATCATCAAGTTCTGG
GATGAGTTTGGTACCTCTGCAACTGGAACCCAGCCCCATCCAGTGAGCTGCGTTAC
AAACGCCGAGAGCTATGGAATCCCCACCACCATCCAGTGCGATTTGTGTCTGAAATGG
AGAACCCTCCCCTCCAGCTGAGTTCTGTGAAAAAGATTACCCTGACACCTGGGTTTGC
TCCATGAACCCTGATCCTGAACAGGACCGGTGTGAGGCTTCTGAACAAAAGCAGAAGTT



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CCCCTGGGAACATTTCAGAAAGGACATGAAGACGCGAGGAAGAGAAGCAGAAACAACACTGACA
GAGAAAATTTCGCCAGCAGCAGGAGAAGCTGGAGGCCCTTCAGAAAACCACACCCATCCGC
TCCAAGCAGACCTGAAGAAATTGCCCTTGAAGTGACCACCAGACCTTCCACTGAGGAA
CCTGTGCGTAGACCTCAGCGTCTCGGTGCGCCCTTTACCTGCTGTGATCAGGAACGCC
CCCAGCAGACCCCTTCTTTGCCAACTCCTAGACCAGCCAGCCAGCCCCGAAAGGCTCCT
GTCATCAGCAGTACCCCAAAGCTCCCTGCTTTGGCAGCCCGGGAGGAGCCAGCATCT
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TCCCGACCTGCCCTCTGGTGCAGCAACTGTACCATCTTTACTGCCAACTCCAAGAGC
CCTCGGGAGGTTCTTCTCCCAAAGTCATCAAGACTCCAGTGGTGAAGAAGACAGAGTCA
CCCATCAAACCTCTCCCGGCTACCCCTAGTCGGAAGCGGAGTGTGCGAGTTTCTGATGAG
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GAGACCATCGACCTGCTTGTCCAGATCCTCCGGAATTGTTTACGGTACTTCTGCCTCCA
AGTTTCCCATCTCCAAGAAGCAGCTGAGTGCTATGAATTCAGATGAGCTAATATCTTTT
CCTCTGAAGGAGTACTTCAAGCAATATGAAGTAGGGCTCCAAAACCTGTGCAATTCCTAC
CAGAGCCGTGCTGACTCCCGGGCAAGGCCTCCGAGGAAAGCCTGCGCACCTCCGAGAGG
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CAAAAGGTGCAGGAGACATAGACATCAACACAGATGATGAGCTGGACGCTACATTGAG
GACCTCATCACCAGGGGGACTGAAGGCAGGAGAGAGAGCAGCTCCCCTGCCACCTGCC
CCTCAACCCTGTAGCTGCAGGGGGAGGGGACTTATTTCATGGGTTGGTGGTGCACCTTG
GTTTGACTTACACGGGACATTTGTGTTTTGGAGGAAAAGATACCCTGATTCTTTGAATC
TTCCTTAAGTTTATAAATATTTATTTTTAAAAGAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACCTGGG
G
    
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- Restriction Sites:** Please inquire
- ACCN:** NM_014941
- 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:

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_014941.1](#), [NP_055756.1](#)

RefSeq Size: 4467 bp

RefSeq ORF: 2913 bp

Locus ID: 22880

UniProt ID: [Q9Y6X9](#)

Cytogenetics: 22q12.2

Gene Summary: This gene encodes a member of the Microrchidia (MORC) protein superfamily. The encoded protein is known to regulate the condensation of heterochromatin in response to DNA damage and play a role in repressing transcription. The protein has been found to regulate the activity of ATP citrate lyase via specific interaction with this enzyme in the cytosol of lipogenic breast cancer cells. The protein also plays a role in lipogenesis and adipocyte differentiation. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Feb 2016]

Transcript Variant: This variant (3) has an additional exon which results in the use of an in-frame downstream start codon, compared to variant 1. This difference results in an isoform (3) with a shorter N-terminus, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.