

Product datasheet for **SC114779**

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: | None |
| Vector: | <u>pCMV6-XL4</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Fully Sequenced ORF: | >OriGene ORF within SC114779 sequence for NM_014941 edited (data generated by NextGen Sequencing) |

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ATGCTTTTGCTTTTTGGATGATGGAGCAGGAATGGATCCAAGTGTGCTGCCAGTGTGAT
CAGTTTGGGAAGTCGGCCAAGCGAACACCTGAGTCTACTCAGATTGGGCAGTACGGGAAT
GGGTAAAATCGGGCTCAATGCGCATTGGGAAGGATTTTATCCTGTTACCAAGAAGGAA
GACACCATGACCTGCCTCTTCTGTCTCGCACGTTTCATGAGGAAGAAGGCATTGATGAA
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GAGAAATTTGCCATTGAGACAGAACTCATCTATAAGTACTCTCCATTCCGCACTGAGGAG
GAAGTGATGACCCAGTTTATGAAGATTCCTGGGACAGCGGAACATTGGTGATCATCTTC
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ATCCAGATGGCAGAGACGTCCCCAGAGGGCACGAAGCCAGAGCGGCGCTGTTCCGTGCC
TATGCCGCTGTGCTCTATATTGATCCCCGGATGAGGATCTTCATCCATGGGCACAAGGTG
CAGACCAAGAGGCTCTCCTGCTGCTGTACAAGCCAGGATGTACAAGTACACGTCAAGC
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GAAGAGAAGGCGGGGAGGCAGAGAGCAAAGCTCGGACATTAGAAGTACGCCTAGGTGGA
GACCTCACGCGGGACTCCAGGGTGATGTTGCGACAGGTCCAGAACAGAGCCATCACTCTG
CGCAGAGAAGCCGATGTCAAGAAGAGGATCAAGGAGGCCAAGCAGCGAGCACTTAAAGAA
CCTAAGGAACTGAATTTTGTGTTTTGGTGTAACATTGAACACCGGGATCTGGATGGCATG
TTCATCTACAACGTAGCCGACTGATCAAATGTATGAGAAAGTGGGCCACAGCTGGAA
GGGGGCATGGCATGTGGCGGGTGTGGGGTGTGATGTGCCCTACCTGGTCCCTGGAG
CCTACACACAACAACAGGACTTTGCTGATGCCAAGGAGTACCGGCACCTGCTCCGAGCA
ATGGGGGAGCACCTGGCGCAGTATTGGAAGGATATTGCCATCGCCCAGAGGGGAATCATC
AAGTTCTGGGATGAGTTTGGCTACCTCTCTGCAAACCTGGAACCCAGCCCCATCCAGTGAG
CTGCGTTACAACGCGGAGAGCTATGGAATCCCCACCACCATCCAGTGCATTTGTGT
CTGAAATGGAGAACCCTCCCCTCCAGCTGAGTTCTGTGAAAAAGATTACCCTGACACC
TGGGTTTGTCCATGAACCTGATCCTGAACAGGACCGGTGTGAGGCTTCTGAACAAAAG
CAGAAGGTTCCCCTGGGAACATTCAGAAAGGACATGAAGACGCAGGAAGAGAAGCAGAAA

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CAACTGACAGAGAAAATTCGCCAGCAGCAGGAGAAGCTGGAGGCCCTTCAGAAAACCACA
 CCCATCCGCTCCCAAGCAGACCTGAAGAAATTCGCCCTTGGAAAGTGACCACCAGACCTTCC
 ACTGAGGAACCTGTGCGTAGACCTCAGCGTCCTCGGTCGCCCCCTTTACCTGCTGTGATC
 AGGAACGCCCCCAGCAGACCCCCCTTTGCCAACTCCTAGACCAGCCAGCCAGCCCCGA
 AAGGCTCCTGTATCAGCAGTACCCCAAAGCTCCCTGCTTTGGCAGCCCGGGAGGAGGCC
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 AAGACTGCATCCCGACCTGCCCTCTGGTGCAGCAACTGCACCATCTTTACTGCCCAAC
 TCCAAGAGCCCTCGGGAGGTTCTTCTCCCAAAGTCATCAAGACTCCAGTGGTGAAGAAG
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 TCTGATGAGGAAGAAGTTGAGGAGGAAGCTGAGAGGAGGAAGGAGAGGTGCAAGCGGGGC
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 GAGAAAGCGAGTGAAGTGTGCGGCTGATGAAACCCCTTCTCCGGAACATCAGAGCCTT
 GATACACAACAGGAGGGCGGGGAGGAGGAGGTGGGCCCTGTGGCCAGCAGGCCATAGCT
 GTCGACAGCCCTCCACTTCCGAATGCCTCCGATTGAGCCTGACACCCTGCCCTGAGC
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 AATTCTACCAGACCGTGTGACTCCCGGGCCAAGGCCTCCGAGGAAAGCCTGCCGACC
 TCCGAGAGGAAGTCCCGGAGACGGAGGAGAAGCTGCAGAAGCTGAGGACCAACATCGTG
 GCACTCCTGCAAAAGGTGCAGGAGGACATAGACATCAACACAGATGATGAGCTGGACGCC
 TACATTGAGGACCTCATACCAAGGGGGACTGA

Clone variation with respect to NM_014941.1
 192 g=>c;1251 g=>a

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_014941 unedited
 GCATTAGTATACGACTCACTATAGGCGCCGCGAATTCGCACGAGGGACCATCTCCTTC
 AGGACCATCCACACGAGAATCAGATTGTCTGAATTGAGCTATCGCAACTTAATGCTAAAA
 GCTCCTTAAAGCTACAGATTTATGACATAGTTCCTTCCAAAATATTACATCATAAATCAT
 TGAGAAGATTAAAAAAAAAAACTTGAAGAAATTGTAGTTTAAACATCTCTGCATATATT
 TTGGATAGCTACTAGGTTACTTTAACTGTCATTAAGGAGCACAGACTTACTGAAGCTTTA
 CTGGACAGAAATCCTGGGAAATCGATATCATTATAAGGTTATATTTCCAGTTAGCGGGTG
 AAGGGCTGGAGACCTTATTGCAGTCATGGCTTTCACAAATTACAGCAGTCTGAATCGAGC
 TCAGCTAACCTTTGAATATCTGCACACAAATCAACCCTCACGAATCTTGTGGTGC
 CCTTGCTGAACTGGTTGATAATGCAAGAGATGCTGATGCCACCAGAAATAGATATTTATGC
 AGAAAGACGAGAGGACCTTCGAGGAGGATTTATGCTNTGCTTTTTGGATGATGGAGCAGG
 AATGGATCCAAGTGATGCTGCCAGTGTGATCCAGTTTGGGAAGTCGGCCAAGCGAACACC
 TGAGTCTACTCAGATTGGGCAGTACGGGAATGGGTTANAATCGGCTCAATGCGCATTGN
 GAANGGATTTTATCCTGTTACCAAGAAGGAGACACCATGACCTGCCTCTTCTGTCTC
 GCACGTTTTCATGAGGAANAAAGCATTGATGAAGTGATAGTCCCCTGCCACCTGGAATG
 CTCCNACCCGGGAAACCTGTACAGACAATGTAGNAGAATATTTCCATTGAGACAGACTT
 CATCTATAGTACTCTCCATTCCGACTCGAGAGGAAGTGATGACCAGTTTATTGAGATT
 CCTGGGGAAGCGNAACATTGTGAT

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|-------------------------------------|--|
| 3' Read Nucleotide Sequence: | >OriGene 3' read for NM_014941 unedited TATGCCTCGCACTCCGCATTCTAAAGTCGAGTTTTTTTTTTTTTTTTTTTTCTTTTAAAAA TAATATTTATAAACTTAGGAAGATCAAAGAATCAGGGTATCTTTTCTCCAAAAACACAA ATGTCCCGTGTAAAGTCAAACCAAGGTGCGACCACCAACCCATGAATGAAGTCCCCTCCCC CTGCAGCTACAGGGTTGAGGGGCAGGTGGGCAGGGGAGCTGCTCTCTCCTGCCTTCAG TCCCCCTTGCGGATGAGGTCTCAATGTAGGCGTCCAGCTCATCATCTGTGTTGATGTCT ATGTCCCTCTGCACCTTTTGCAGGAGTGCCACGATGTTGGCCCTCAGCTTCTGCAGCTTC TCCTCCGTCTCGGGAGCTTCTCTCGGAGGTGCGCAGGCTTTCTCGGAGGCCTTGGCC CGGGAGTCAGCACGGCTCTGGTAGGAATTGCACAGGTTTTCGGAGCCCTACTTCATATTGC TTGAACCACTCTCCACAGGACCAGATATTACCTCATCTGAACCCCTACACTCAGCTGCT TCTTGCCATGCCACACCTGGAGGCCAGAGTACCCTACCCATTCCGGCGGACCCGGACC AGCGGTCCACGGCCCTCGTGATTGGTGCTATGCCCCCGCGGTTACCTTCAACGTGGCAG CCCTCCGTAACCGCAGGCCTCCGCGACAGTTATGCCCTGTCTGGGCACACGCCCCCCTT CCTTATTGACACTTCCCCTTCGCTTCCCAAGCCCTTGATGTTTTCCGAAAATGCGGTCCG ACGCGCACGGACAACCCCTGCTGGCTTTACCTTACCAATCCCTCCCTTCCATATAAACG CCCGGTCTCTCCCTCGATTTTCGCTTCCGCGGTTCCCCCGCTTCCGCCCTCCGCCG TTGAACCGAAGCCCAGCCATCCCTATAACCCGACCACAGTGCAACGAGGATTTTTCCC ATCCCTTCTCTGCTATCCATAACATTCTTTTTCCC |
| Restriction Sites: | NotI-NotI |
| ACCN: | NM_014941 |
| Insert Size: | 3890 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: | <u>NM_014941.1, NP_055756.1</u> |
| RefSeq Size: | 4467 bp |
| RefSeq ORF: | 2913 bp |
| Locus ID: | 22880 |
| UniProt ID: | <u>Q9Y6X9</u> |
| 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.