

Product datasheet for **SC337789**

ZCWCC1 (MORC2) (NM_001303257) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZCWCC1 (MORC2) (NM_001303257) Human Untagged Clone
Tag:	Tag Free
Symbol:	MORC2
Synonyms:	CMT2Z; DIGFAN; ZCW3; ZCWCC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001303257, the custom clone sequence may differ by one or more nucleotides

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ATGGCTTTACAAATTACAGCAGTCTGAATCGAGCTCAGCTAACCTTTGAATATCTGCACACAAATTCAA
CCACTCACGAATCTTGTGGTGGCCCTTGTGAACTGGTTGATAATGCAAGAGATGCTGATGCCACCAG
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CGCACCTCCGAGAGGAAGCTCCGCGAGACGGAGGAGAAGCTGCAGAAGCTGAGGACCAACATCGTGGCAC
TCTTGCAAAGGACATAGACATCAACACAGATGATGAGCTGGACGCTACATTGAGGACCTCATACCAA
GGGGACTGA
    
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Restriction Sites: Sgfl-Mlul

ACCN:	NM_001303257
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_001303257.2</u> , <u>NP_001290186.1</u>
RefSeq Size:	5177 bp
RefSeq ORF:	3090 bp
Locus ID:	22880
UniProt ID:	<u>Q9Y6X9</u>
Cytogenetics:	22q12.2
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) uses an alternate, in-frame splice junction in the 3' coding region, compared to variant 1. This difference results in a shorter isoform (2) compared to variant 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.</p>