

Product datasheet for **SC115002**

MICS1 (GHITM) (NM_014394) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MICS1 (GHITM) (NM_014394) Human Untagged Clone
Tag:	Tag Free
Symbol:	MICS1
Synonyms:	DERP2; HSPC282; MICS1; My021; PTD010; TMBIM5
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC115002 sequence for NM_014394 edited (data generated by NextGen Sequencing)

```
ATGTTGGCTGCAAGGCTGGTGTCTCCGGACACTACCTTCTAGGGTTTTCCACCCAGCT
TTCACCAAGGCCCTCCCCTGTTGTGAAGAATTCCATCACGAAGAATCAATGGCTGTTAACA
CCTAGCAGGGAATATGCCACCAAAAACAAGAATTGGGATCCGGCGTGGGAGAACTGGCCAA
GAACTCAAAGAGGCAGCATTGGAACCATCGATGGAAAAAATTTAAAATTGATCAGATG
GGAAGATGGTTTGTGCTGGAGGGGCTGCTGTTGGTCTTGGAGCATTGTGCTACTATGGC
TTGGGACTGTCTAATGAGATTGGAGCTATTGAAAAGGCTGTAATTTGGCCTCAGTATGTC
AAGGATAGAATTCATTCCACCTATATGTAAGTAGCAGGGAGTATTGGTTAACAGCTTTG
TCTGCCATAGCAATCAGCAGAACGCCTGTTCTCATGAACCTCATGATGAGAGGCTCTTGG
GTGACAATTGGTGTGACCTTTGCAGCCATGGTTGGAGCTGGAATGCTGGTACGATCAATA
CCATATGACCAGAGCCCAGGCCAAAGCATCTTGCTTGGTTGCTACATTCTGGTGTGATG
GGTGACAGTGGTGGCTCCTCTGACAAATATTAGGGGGTCTCTTCTCATCAGAGCTGCATGG
TACACAGCTGGCATTGTGGGAGGCTCTCCACTGTGGCCATGTGTGCGCCAGTAAAAAG
TTTCTGAACATGGGTGCACCCCTGGGAGTGGGCCTGGGTCTCGTCTTTGTGTCCTCATTG
GGATCTATGTTTCTTCCACCTACCACCGTGGCTGGTGCCACTCTTACTCAGTGGCAATG
TACGGTGGATTAGTTCTTTTCAGCATGTTCTTCTGTATGATACCCAGAAAGTAATCAAG
CGTGCAGAAGTATACCAATGTATGGAGTTCAAAAATATGATCCCATTAACCTCGATGCTG
AGTATCTACATGGATACATTAATATATTTATGCGAGTTGCAACTATGCTGGCAACTGGA
GGCAACAGAAAGAAATGA
```

Clone variation with respect to NM_014394.2



[View online »](#)

5' Read Nucleotide Sequence:

```
>OriGene 5' read for NM_014394 unedited
AATTTGTCATACGACTCACTATAGNNGCGGCCGCAATTCGGCACCAGGCGAGGCGAA
GGTGACCGGGGACCGAGCATTTCAGATCTGCTCGGTAGACCTGGTGCACCACCACATGT
TGGCTGCAAGGCTGGTGTGTCTCCGGACACTACCTTCTAGGGTTTTCCACCCAGCTTTCA
CCAAGGCTCCCTGTTGTGATGAATCCATCACGAAGAATCAATGGCTGTTAACACCTA
GCAGGGAATATGCCACCAAAAACAAAAATGGGATCCGGCGTGGGAGAAGTGGCCAAGAAC
TCAAAGAGGCAGCATTGGAACCATCGATGGAAAAATTTAAAAATTGATCAGATGGGAA
GATGGTTTTGTGCTGGAGGGCTGCTGTTGGTCTTGGAGCATTGAGCTACTATGGCTTGG
GACTGTCTAATGAGATTGGAGCTATTGAAAAAGCTGTAATTTGGCCTCAGTATGTCAAGG
ATAGAATTCATTCCACCTATATGTACTTAGCAGGGAGTATTGGTTAACAGCTTTGTCTG
CCATAGCAATCAGCAGAACGCCTGTTCTCATGAACTTCATGATGAGAGGCTCTTGGGTGA
CAATTGGTGTGACCTTTGCAGCCATGGTTGGAGCTGGAATGCTGGTACGATCAATACCAT
ATGACCAGAGCCAGGCCAAAGCATCTTGCTTGGTTGCTACATTCTGGTGTGATGGGTG
CAGTGGTGGCTCCTCTGACATATTANGGGTCTCTTCTCATCAGAGCTGCATGGTACAC
AGCTGGCATTTTGTGGAGCCTCTCCACTGTGGCCATGTGTGCCCCGTGAAAAGTTCTGA
ACATGGTGCCCCCTGGGAGTGGCTGGGTCTCGNCTTTNGACCTATTGGATCTATGTTC
CTCCACTACCACGCTGCTTGGCACTCTTCTTATGGCATGTACGNGGATANTCCTTTCA
GCATTTCTTCTGTTGATACCCACAAGTATCAACCTGCAAATAT
```

3' Read Nucleotide Sequence:

```
>OriGene 3' read for NM_014394 unedited
NCGAACTCTTGTAACCGCCGCTTAATGATTACTGTGTTTCGGAAAAACAACATATTTCA
TGCTTTGAAATTTTCTCTTGAGAATAGTTTTAAAGTTATTTCTTTTGTAACATTCAAAA
GTAACACACATATATAATCCATCAAGGATTCTCTGTATGATTAACATTCTGTACAAG
TCAAACATGACCACATCTATATTGGAAATAGAGCACTGAGAAGCAACAGCAGGAGATGC
ATCACCTGTGCCTGTTTCAGGATGAACAGTTTTGTTAAGTTCAGCAGATGAATGTAACAA
TGACCACTTGTTCCAAATACCCAGATGTTTCTTACTGGCGCCTCACTAATCAATAACAC
AAGTGCTAAGTCTAAGTATTTAAAAAACAAGACTGCAGGTGACTCCTTCTCTCTGG
TCCCTTTACCAAAGCTCCAAATCACTTATGACATTAATTACAATATTCTGCACTCCAAA
AAATATGCAAACACAGGTTTGCTAAATTTAGTTACTCAGTGAACCTACTAAATTTAAA
GTAGAAAAAGACTTACATTTCTCATGACACAACTTTAGTTTTACATTACCAAAACAT
TTTAAAACTCACTCAAACATGAGAATTGAAAATGTGTGTGCTTATTTGGGAGAGGATTACT
GCATTTATTCTCCAGAAAAAAGGCAGACCTGAGGCATCACATTACCGAACATTTAAAT
ATGATGACATGTTTCTTATCTTCTAAACTTCAACGAAAGCTGCTTGTACAACTATTTAA
TGCATATCTGCCCATTAACAAGATATTTGATGTAGCAGAAAAGCCAGAAGCTGAGTCA
CTTCATTTCTTCTGTTGCCTCC
```

Restriction Sites:

NotI-NotI

ACCN:

NM_014394

Insert Size:

2000 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

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_014394.1](#), [NP_055209.1](#)

RefSeq Size: 2374 bp

RefSeq ORF: 960 bp

Locus ID: 27069

UniProt ID: [Q9H3K2](#)

Cytogenetics: 10q23.1

Protein Families: Transmembrane

Gene Summary: Required for the mitochondrial tubular network and cristae organization. Involved in apoptotic release of cytochrome c.[UniProtKB/Swiss-Prot Function]