

## Product datasheet for SC337845

### MICAL1 (NM\_001286613) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MICAL1 (NM_001286613) Human Untagged Clone
Tag:	Tag Free
Symbol:	MICAL1
Synonyms:	MICAL; MICAL-1; NICAL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001286613, the custom clone sequence may differ by one or more nucleotides

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ATGTCCTGTCTAAGCCACTCATCTCTGCCAGCTGCTGCCCTCCCCAGGAGGCCTCCATGGCTTCACCTA  
CCTCCACCAACCCAGCGCATGCCACTTTGAGAGCTTCTGCAGGCCAGCTGTGCCAGGACGTGTGAG  
CAGCTTCCAGGAGCTGTGTGGGGCCCTGGGGCTGGAACCCGGTGGGGGGCTGCCAGTACCACAAGATC  
AAGGACCAGCTCAACTACTGGAGCGCAAGTCACTGTGGACCAAGCTGGACAAGCGAGCAGGCCAGCCTG  
TCTACCAGCAGGGCCGGCCTGCACCAGCACAAGTGCCTGGTGGTGGGTGCTGGACCTTGGGGTGGC  
GGTCGCTGTGGAGCTGGCGCTGCTGGGGCCCGAGTGGTGGTGGTGGAAAAGCGCACCAAGTTCTCTCGC  
CACAACTGCTCCACCTCTGGCCCTTACCACATCCAGACCTGCGGGCACTCGGTGCTAAGAAGTTCTACG  
GGCGTCTTGCACCGGCACCCTGGACCACATCAGCATCAGGCAGCTCCAGCTGCTTCTGCTGAAGGTAGC  
ATTGCTGCTGGGGTGGAAATCACTGGGGTGTCACTTTCACTGGCTCCAGCCCTCCTAGGAAGGGG  
AGTGGCTGGCGTGGCCAGCTCCAACCAACCCCTGCCAGCTGGCCAATATGAATTTGACGCTCTTA  
TCTCGGCTGCAGGAGGTAATTCGTCCCTGAAGGCTTCAAAGTTCGAGAAATGCGAGGCAAAGTGGCCAT  
TGGCATCACAGCCAATTTGTGAATGGACGCACCGTGGAGGAGACACAGGTGCCGGAGATCAGTGGTGA  
GCCAGGATCTACAACCAGAGCTTCTTCCAGAGCCTTCTCAAAGCCACAGGCATTGATCTGGAGAATTG  
TGTACTACAAGGACGACACCCACTACTTTGTGATGACAGCCAAGAAGCAGTGCCTGCTGCGGCTGGGGT  
GCTGCGCCAGGACTGGCCAGACCAATCGCTGCTGGGCACTGCCAATGTGGTCCCGAGGCTCTGCAG  
CGCTTTACCCGGGCAGCTGCTGACTTTGCCACCACATGGCAAGCTCGGGAACTAGAGTTTGCCAGGATG  
CCCATGGGCAGCCTGATGTCTCTGCCTTTGACTTCACGAGCATGATGCGGGCAGAGAGTTCTGCTGTTG  
GCAAGAGAAGCATGGCGCCGCCTGCTGCTGGGACTGGTGGGGACTGCCTGGTGGAGCCCTTCTGGCCC  
CTGGGCACTGGAGTGGCACGGGGCTTCTGGCAGCCTTTGATGCAGCCTGGATGGTGAAGCGGTGGGCA  
AGGGCGCTGAGTCCTAGAGGTGTTGGCTGAGCGTGAGAGCCTGTACCAGCTTCTGTACAGACATCCCC  
AGAAAACATGCATCGAATGTGGCCAGTATGGGCTGGACCCAGCCACCCGCTACCCCACTGAACCTC  
CGGGCAGTGACCCCAATCAGGTACGAGACCTGTATGATGCTAGCCAAGGAGCCTGTGCAGAGGAACA  
ACGACAAGACAGATACAGGGATGCCAGCCACCGGGTGGCAGGCCACCCAGGAGGCTGCTACGCTGGT
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CCAGGAGCAGACAGCTGGGTACCCGGGAGTCCACGTCTCCGATTTGTCTTCTCCTGGGCTGATGGGCTA
GCTCTGTGTGCCCTGGTGTACCGGCTGCAGCCTGGCCTGCTGGAACCCTCAGAGCTGCAGGGGCTGGGAG
CTCTGGAAGCAACTGCTTGGGCACTAAAGGTGGCAGAGAATGAGCTGGGCATCACACCGGTGGTGTCTGC
ACAGGCCGTGGTAGCAGGGAGTGACCCACTGGGCTCATTGCCTACCTCAGCCACTTCCACAGTGCCTTC
AAGAGCATGGCCACAGCCAGGCCCTGTCAGCCAGGCCCTCCCAGGGACCTCCAGTGTGTATTATTCC
TTAGTAAACTTCAGAGGACCTGCAGCGATCCCGGGCAAGGAAAATGCAGAGGATGCTGGTGGCAAGAA
GCTGCGCTTGGAGATGGAGGCCGAGACCCCAAGTACTGAGGTGCCACCTGACCCAGAGCCTGGTGTACCC
CTGACACCCCATCCCAACACCAGGAGGCCGTGCTGGGGACCTGTGTGCACTTTGTGGGAAACACCTCT
ATGTCCTGGAACGCCTCTGTGTCAACGGCCATTTCTTCCACCGGAGCTGCTTCCGCTGCCATACCTGTGA
GGCCACACTGTGGCCAGGTGGCTACGAGCAGCACCAGGAGATGGACATTTCTACTGCCTCCAGCACCTG
CCCCAGACAGACCACAAAGCGGAAGGCAGCGATAGAGGCCCTGAGAGTCCGGAGCTCCCCACACCAAGTG
AGAATAGCATGCCACCAGGCCTCTCACTCCACAGCCTCGCAGGAGGGGGCCGGTCTGTTCAGATCC
CAGCCAGCCACCCGTCGGCAGATCCGCTCTCCAGCCCGGAGCGCCAGCGGTTGCTCCTCCCTAACCTT
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GCCTGCAGACCTTTGCCAAGACCTCAGGCACCATGAATAACTACCCAACATGGCGTCGGACTCTGTGC
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TCCCCAGAACAGCAAAAGAACTATGGGTAGGACAGCTGTACAGCTCGTTGACAAGAAAAACAGCCTGG
TGGCTGAGGAGGCCGAGCTCATGATCACGGTGCAGGAATTGAATCTGGAGGAGAAACAGTGGCAGCTGGA
CCAGGAGCTACGAGGCTACATGAACCGGAAGAAAACCTAAAGACAGCTGCTGATCGGCAGGCTGAGGAC
CAGGTCCTGAGGAAGCTGGTGGATTTGGTCAACCAGAGAGATGCCCTCATCCGCTTCCAGGAGGAGCGCA
GGCTCAGCGAGCTGGCCTTGGGGACAGGGGCCAGGGCTAG
    
```

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001286613

**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:**

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\\_001286613.1](#), [NP\\_001273542.1](#)

**RefSeq Size:** 3697 bp

**RefSeq ORF:** 3261 bp

**Locus ID:** 64780

UniProt ID: [Q8TDZ2](#)

Cytogenetics: 6q21

Gene Summary: This gene encodes an enzyme that oxidizes methionine residues on actin, thereby promoting depolymerization of actin filaments. This protein interacts with and regulates signalling by NEDD9/CAS-L (neural precursor cell expressed, developmentally down-regulated 9). Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2015]  
Transcript Variant: This variant (3) represents the longest transcript and encodes the longest isoform (3).