

Product datasheet for SC114961

MICAL2 (NM_014632) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MICAL2 (NM_014632) Human Untagged Clone
Tag:	Tag Free
Symbol:	MICAL2
Synonyms:	Ebitein1; MICAL-2; MICAL2PV1; MICAL2PV2; MICALCL
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_014632, the custom clone sequence may differ by one or more nucleotides

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ATGGGGGAAAACGAGGATGAGAAGCAGGCCAGGCCGGGCGAGGTTTTGAGAACTTTGTCCAGGCATCCA
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TGTATGCCTCAGAGAACGCGGCCCTGGTGCGGGAGCGGCAGGCGCACCAGCTGCTCGTGGCCCTTGTTGGG
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CGTACCACCTGACCACATCCTGGCGCAGTGGGTTGGCCCTGTGTGCCATCATCCACCGCTTCCGGCCT
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CCACTTCTTGGCTGA

**5' Read Nucleotide
Sequence:**

>OriGene 5' read for NM_014632 unedited
TCGCGATATTTGTATACGACTTCACTATAGGGCGGCCGGAATTCGCACGAGGGCGCGAC
TTTCGGTGTGACGTTTCTCCAGATACTTCATGCTGTTACCTGTGCTCCTCGCCGACACAC
TGCCGCACACGACTCCTGAACCATGGGGAAAACGAGGATGAGAAGCAGGCCAGGCGGG
GCAGGTTTTTGAGAACTTTGTCCAGGCATCCACGTGCAAAGGTACCCTCCAGGCCTTCAA
CATTCTCACACGACACCTGGACCTAGACCCTCTGGACCACAGAACTTTTATTCCAAGCT
CAAGTCCAAGGTGACCACCTGGAAAGCCAAAGCCCTGTGGTACAAATTGGATAAGCGTGG
TTCCACAAAAGAGTATAAGCGAGGGAAGTCGTGCACGAACACCAAGTGTCTCATAGTTGG
GGGAGGACCCTGTGGCTTGGCAGTCCATTGAACTTGCCTACCTGGGAGCCAAAGTGGT
CGTGGTGGAGAAGAGGACTCCTTCTCCGGAACAACGTGCTACACCTCTGGCCTTTCAC
CATCCATGACCTTCGGGGCCTGGGAGCCAAGAAGTTCTATGGGAAGTTCTGTGCTGGCTC
CATCGACCATATCAGTATTGCGCAACTACAGCTCATCCTATTCAAGGTGGCCCTGATGCT
GNGAGTTGAAATCCATGTGAATGTGGAGTTCGTGAAGTTCTAGAGCCTCCTGAAGATCA
AGAAAAATCAAAAATTTGGCTGGCGGGCAGAAATTTCTCCTACAGACCATTTCTGTGCGNA
GNTTGAGTTTGACGTATCATTGGTGCCGATGGCCGAGGAACACCCTGGNAGGGTTCAG
AAGAAAAGAAATCCCGTGGGAAAGCTGGCGATTGCCATACCGNCCACTTCATAACAGAAA
CAGCACAGCGGAAGCCCAGGTGGNAAGAGATANTG

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_014632 unedited <pre> ACCGCGGCCGCAATCTAGAGTCGAGTT TTTTTTTTTTTTTTTTAAAAAACAATATTTATTTCTTTTACAGCATCAAATACCATA AATAAAGCTAAACATTGTTTGTGTTGCTGGGGGCAAAATACAGGGTTCCGTGGGGCACTG TAAATGATTACCAAAGGTACAAACTTGCCTGTGATGAAATGGGGAGGTACCTAAAAA GGAGGCTGAAAGGGGAGGAGGGCACTTTTGGTTGACATTTTATAAAGGGAGGGAACTA TTTAGTGCAACCATTACTGCTGGCGGAAAAGACGGGGTGCAGAAAGCGGTTTGGGGTTA CTACCACTTTTTGAAAATTGGCAAAAAAACAGTCACCTTAAAAACAAAGTGTGTACCC AAAAAGGGGGTGTACCACTGGAAGGCTGAAATGAACTGGGGGGCTGCCTTCCAGGGGGCC AATGGCGGCCACTGCGCAAAACTTTTGGGGGAGTGTCTCTCCGAGGGGCTTCTGCTC TTGCCATGGTGCCTCCTCTCTTTGTTGTTAACTCTGCCCGTCTCTCCGGTGTTT GCTATTGTTTACAGNGAATGAAATGAGGCTTGCACTAAATTTGCCTTCATCGCAGTC AAAGGTGTATGCGCCAAGCGCAAGGGGGTGGCACATATGCTGCAGCGGAAACACTCCCG NTGGAAGAAGTGGCCCTNGGNGCTCAACCCGTTNCATAACGTACACACAGTTTTTTACA GAAGTAACACGTGTTGCTGCTCTCCAGTTTAGGGGAACTGACTTTNCCATANATTCC AGCTCTGNAAGGNGGCTGGCCTCTAGTTTGGGATCATTATGTCCAGATTGACCAGGA CTACCTGGACCCCTATCCGCTGACACTTNCCTACCGCAGCTTTTGGAGAAAGCAGATCC ACATTGTTGGAAGACAAA </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_014632
Insert Size:	4000 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:	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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_014632.2</u> , <u>NP_055447.1</u>
RefSeq Size:	3934 bp
RefSeq ORF:	3375 bp
Locus ID:	9645
UniProt ID:	<u>O94851</u>

Cytogenetics: 11p15.3

Domains: CH, LIM

Gene Summary: The protein encoded by this gene is a monooxygenase that enhances depolymerization of F-actin and is therefore involved in cytoskeletal dynamics. The encoded protein is a regulator of the SRF signaling pathway. Increased expression of this gene has been associated with cancer progression and metastasis. [provided by RefSeq, Oct 2016]
Transcript Variant: This variant (1) encodes the longest isoform (a). Variants 1, 2, and 8 all encode isoform a.