

Product datasheet for **RC208450**

MICAL2 (NM_014632) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MICAL2 (NM_014632) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MICAL2
Synonyms:	Ebitein1; MICAL-2; MICAL2PV1; MICAL2PV2; MICALCL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC208450 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGATCGCC**

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Protein Sequence: >RC208450 protein sequence
 Red=Cloning site Green=Tags(s)

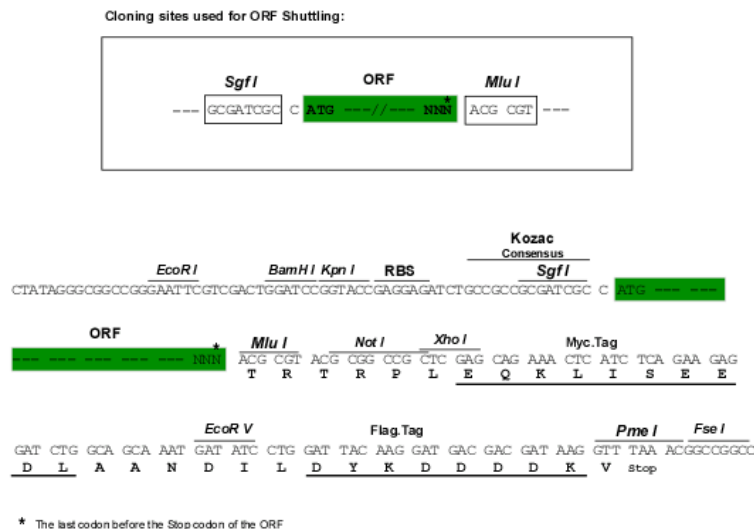
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 PLLG

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Chromatograms: https://cdn.origene.com/chromatograms/mk6678_h05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

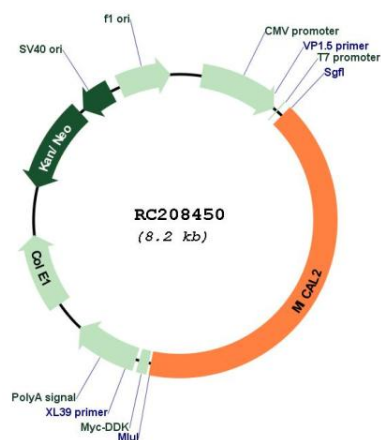


ACCN: NM_014632

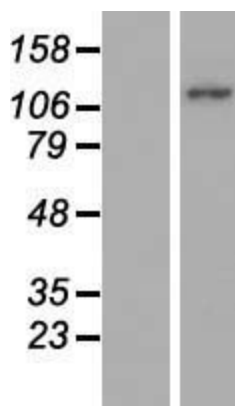
ORF Size: 3372 bp

OTI Disclaimer:	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
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	NM_014632.2 , NP_055447.1
RefSeq Size:	3958 bp
RefSeq ORF:	3375 bp
Locus ID:	9645
UniProt ID:	O94851
Cytogenetics:	11p15.3
Domains:	CH, LIM
MW:	126.7 kDa
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]

Product images:



Circular map for RC208450



Western blot validation of overexpression lysate (Cat# [LY415152]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208450 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).