

Product datasheet for **SC314932**

MCF2 (NM_005369) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MCF2 (NM_005369) Human Untagged Clone
Tag:	Tag Free
Symbol:	MCF2
Synonyms:	ARHGEF21; DBL
Vector:	<u>pCMV6 series</u>



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Fully Sequenced ORF: >NCBI ORF sequence for NM_005369, the custom clone sequence may differ by one or more nucleotides

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ATGGCAGAAGCAAATCCCCGGAGAGGCAAGATGAGGTTTCAAGGAATGCGGCTTCCTTC
CCTGGGAACCTTGCACTTGGTTTTGGTTTTACGTCCTACCAGCTTTCTTCAACGAACGTTT
ACAGACATTGGATTTTGGTTTAGTCAGGAGGATTTATGCCTAAATTACCAGTTGTTATG
CTGAGCTCAGTTAGTGATTTGCTGACATACATTGATGACAAGCAATTAACCCCTGAGTTA
GGCGGCACCTTGCACTACTGCCACAGTGAATGGATCATCTTCAGAAATGCTATAGAAAAT
TTTGCCCTCACAGTGAAGAAAATGGCTCAGATGTTACAGTCCTTTGGAACCTGAACTGGCT
GAGACAGAACTACCAGATGATATTCCCTCAATAGAAGAAAATCTGGCAATTCGTGCTGAA
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TACCCTACTTATGATGAAAATGAAGAAGAAAATAGGCCCTCATGAGACCTGTGTCGGAG
ATGGCTCTCTATAT

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Restriction Sites: Please inquire

ACCN:	NM_005369
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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_005369.2</u> , <u>NP_005360.2</u>
RefSeq Size:	3652 bp
RefSeq ORF:	2778 bp
Locus ID:	4168
UniProt ID:	<u>P10911</u>
Cytogenetics:	Xq27.1
Domains:	RhoGEF, PH
Protein Families:	Druggable Genome
Gene Summary:	<p>The oncogenic protein encoded by this gene is a guanine nucleotide exchange factor (GEF) that exerts control over some members of the Rho family of small GTPases. Several transcript variants encoding different isoforms have been found for this gene. These isoforms exhibit different expression patterns and varying levels of GEF activity.[provided by RefSeq, Jan 2010]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR and coding sequence and lacks an alternate in-frame exon compared to variant 3. The resulting isoform (b) lacks an internal segment and has a shorter and distinct N-terminus compared to isoform c.</p>