

Product datasheet for **SC329154**

MCF2 (NM_001171877) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MCF2 (NM_001171877) Human Untagged Clone
Tag:	Tag Free
Symbol:	MCF2
Synonyms:	ARHGEF21; DBL
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001171877, the custom clone sequence may differ by one or more nucleotides

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ATGGCAGAAGCAAATCCCCGGAGAGGCAAGATGAGGTTTCAAGGAATGCGGCTTCCTTC
CCTGGGAACCTTGCACTTGGTTTTGGTTTTACGTCTACCAGCTTTCTTCAACGAACGTTT
ACAGACATTGGATTTTGGTTTAGTCAGGAGGATTTTATGCTTAAATTACCAGCTATAGAA
AATTTTGCCTCACAGTAAAAGAAATGGCTCAGATGTTACAGTCCTTTGGAAGTGAAGT
GCTGAGACAGAAGTACCAGATGATATCCCTCAATAGAAGAAATCTGGCAATTCGTGCT
GAAAGGTATCATCTGTTGAAGAATGATATTACAGCTGAACCAAAGAAGGAAAAATCTG
CTAACAAATCTGGAAGTGCCTGACACTGAAGGAGCTGTCAGTTCAAGACTAGAATGTCAT
CGGCAAATAAGTGGTACTGGCAAATTAATAAGTTGCTGACTCAAGTACATGATATG
GAAACAGCTTTTGGATTTTGGGAAAAACATCAATTAATAAGGAGCAGTATCTGCAA
CTATGGAAGTTTGGCAGGATTTTCAACAGCTTGTGACTGAAGTTGAATTTCTATTAAC
CAACAAGCAGAAGTGGCTGATGTAAACAGGGACTATAGCTCAAGTAAAAACAAAAATAAAA
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TTACATGGACACAAGCTTGCAGCAAATCACCATTATGCACTTGATTTAATCTGCCAGAGG
TGCAATGAGTACGTTACCTTTCTGATATTTTGGTTAATGAGATAAAAGCAAAACGGATA
CAACTCAGCAGGACCTTCAAAATGCATAAACTCCTACAGCAGGCTCGTCAATGCTGTGAT
GAAGGGGAATGCTTCTAGCTAATCAGGAAATAGATAAGTTTTCAGTCTAAAGAAGATGCT
CAGAAAGCTCTCCAAGACATTGAAAATTTTCTTGAATGGCTCTACCTTTATAAATTAT
GAACCTGAAACACTGCAGTATGAATTTGATGTAATATTATCTCCTGAGCTTAAGTTCAA
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GGTTTTCAGGAACCTGGCAGATAAGCATGTGAGGCCAATCCAATTTGTGGTACCCACACT
GAAAATTTGGTACATCTGGGACACCATTTTTTTCATCTAAACAAGGGAAGAAGACTTGG
AGACAAAATCAGAGCAACTTAAAAATTTGAAGTGGTGCCTGATTGTCAGGAGAAGAGAAGT
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GGTTATAGAGCGGAGATGGATAATCCAGAGATGTTTGTCTTATGCCACCTCTCCTGAGA
AATAAAAAGGACATTCTCTTTGGAAACATGGCAGAAATATATGAATTCATAACGACATT
TTCTTGAGCAGCCTGGAAAATTTGTGCTCATGCTCCAGAAAGAGTGGGACCTTGTTTCTG
GAAAGGAAGGATGATTTTCAGATGATGCAAAATATTGTCAGAATAAGCCAGATCAGAA
ACAATTTGGAGGAAGTATTCAGAATGCGCATTTTTCCAGGAATGTCAAAGAAAGTAAAA
CACAGACTTAGACTGGATTCTTACTCAAACCAAGTGAACGAATCACTAAATATCAG
TTATTGTTGAAGGAGCTATTAATAATATAGCAAAGACTGTGAAGGATCTGCTCTGTGAAG
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GCAATAAATGGCTATATTGGAACTTAAATGAACTGGGCAAGATGATAATGCAAGGTGGA
TTCAGCGTTTGGATAGGGCACAAGAAAGGTGCTACAAAAATGAAGGATTTGGCTAGATTC
AAACCAATGCAGCGACACCTTTTCTTGTATGAAAAAGCCATTGTTTTTGCAAAAGGCGT
GTTGAAAGTGGAGAAGGCTCTGCAGATACCCGTCATACAGTTTTAAACTGTTGGAAA
ATGGATGAAGTTGGAATCACTGAATATGTAAGAGGTGATAACCGCAAGTTTGAATCTGG
TATGGTGAAGAAAGGAAGTTTATATTGTCAGGCTTCTAATGTAGATGTGAAGATGACG
TGCTAAAAGAAAATAAGAAATTTTTGTTGAAGCAGCAGGAACTTTTGACAGTTAAAAAA
AGAAAGCAACAGGATCAATTAACAGAACGGGATAAGTTTTCAGATTTCTCTCAGCAGAAT
GATGAAGACCTGTGTCGGAGATGGCTCTCCTATATTGATGAAGCTACTATGTCAAATGGC
AAGTAG
    
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Restriction Sites: Please inquire
ACCN: NM_001171877

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_001171877.1</u> , <u>NP_001165348.1</u>
RefSeq Size:	3461 bp
RefSeq ORF:	2466 bp
Locus ID:	4168
UniProt ID:	<u>P10911</u>
Cytogenetics:	Xq27.1
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 (4) differs in the 5' UTR and coding sequence and lacks several exons compared to variant 3. The resulting isoform (d) has shorter and distinct N- and C-termini and lacks two segments compared to isoform c.</p>