

Product datasheet for **SC316854**

MCF2 (NM_001099855) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MCF2 (NM_001099855) Human Untagged Clone
Tag:	Tag Free
Symbol:	MCF2
Synonyms:	ARHGEF21; DBL
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001099855, the custom clone sequence may differ by one or more nucleotides

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ATGCAAGACATCGCCTTCTGTCTGGTGGCCGGGAAAGGACAATGCTTGGATCATTACG
TTTCCAGAAAAGTGAATTTTAGATGTATACCAGAGGAAGTAATAGCAAAAGTACTTACT
TACCTGACATCTATTGCAAGGCAAAATGGATCAGACTCCCGGTTTACCATTATTCTGGAT
CGAAGATTGGATACATGGTCTTCTCTCAAAATCTCTCCAAAAAATCTCGGCTTCTTC
CCTGGGAACTTGCACTTGGTTTTGGTTTTACGTCCTACCAGCTTCTTCAACGAACGTTT
ACAGACATTGGATTTTGGTTTAGTCAGGAGGATTTTATGCTTAAATTACCAGTTGTTATG
CTGAGCTCAGTTAGTGATTTGCTGACATACATTGATGACAAGCAATTAACCCCTGAGTTA
GGCGGCACCTTGCACTGACGACAGTGAATGGATCATCTTCAGAAATGCTATAGAAAAT
TTTGCCCTCACAGTAAAAGAAATGGCTCAGATGTTACAGTCCCTTGGAACTGAACTGGCT
GAGACAGAACTACCAGATGATATTCCTCAATAGAAGAAATCTGGCAATTCGTGCTGAA
AGGTATCATCTGTTGAAGAATGATATTACAGCTGTAACCAAGAAGGAAAAATCTGCTA
ACAAATCTGGAAGTGCCTGACACTGAAGGAGCTGTGAGTTCAAGACTAGAATGTCATCGG
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TTCAGGAACCTGGCAGATAAGCATGTGAGGCCAATCCAATTTGTGGTACCCACACCTGAA
AATTTGGTACATCTGGGACACCATTTTTTTCATCTAAACAAGGGGAAGAAGACTTGGAGA
CAAAATCAGAGCAACTTAAAAATTTGAAGTGGTGCCTGATTGTCAGGAGAAGAGAAGTTCT
GGTCCATCCTCCAGTTTGGACAATGGCAATAGCTTGGATGTTTTAAAGAACCACGTTACTA
AATGAACTGATACAGACTGAGAGAGTTTATGTTTCGAGAACTGTATACTGTTTTGTTGGT

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TATAGAGCGGAGATGGATAATCCAGAGATGTTTGATCTTATGCCACCTCTCCTGAGAAAT
 AAAAAGGACATTCTTTGGAAACATGGCAGAAATATATGAATCCATAACGACATTTTC
 TTGAGCAGCCTGGAAAATTGTGCTCATGCTCCAGAAAGAGTGGGACCTTGTTCCTGGAA
 AGGAAGGATGATTTTCAGATGTATGCAAAATATTGTCAGAATAAGCCCAGATCAGAAACA
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 TACCCTACTTATGATGAAAATGAAGAAGAAAATAGGCCCTCATGAGACCTGTGTCGGAG
 ATGGCTCTCTATAT

Restriction Sites:

Please inquire

ACCN:

NM_001099855

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:

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_001099855.1](#), [NP_001093325.1](#)

RefSeq Size:

3819 bp

RefSeq ORF:

2958 bp

Locus ID:

4168

UniProt ID: [P10911](#)

Cytogenetics: Xq27.1

Protein Families: Druggable Genome

Gene Summary: 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]
Transcript Variant: This variant (1) lacks an alternate in-frame exon compared to variant 3. The resulting isoform (a) has the same N- and C-termini but is shorter compared to isoform c.