

Product datasheet for **SC329187**

MCF2 (NM_001171878) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MCF2 (NM_001171878) Human Untagged Clone
Tag:	Tag Free
Symbol:	MCF2
Synonyms:	ARHGEF21; DBL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >SC329187 representing NM_001171878.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

```

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCAGAAGCAAATCCCCGAGAGGCAAGATGAGGTTTCAAGAAGAAATGCGGCTTCCTCCCTGGGAAC
TTGCACCTGGTTTTGGTTTTACGTCCTACCAGCTTTCTCAACGAACGTTACAGACATTGGATTTTGG
TTTAGTCAGGAGATTTTATGCTTAAATTACCAGTTGTTATGCTGAGCTCAGTTAGTGATTTGCTGACA
TACATTGATGACAAGCAATTAACCCCTGAGTTAGGCGGCACCTTGCAGTACTGCCACAGTGAATGGATC
ATCTTCAGAAATGCTATAGAAAATTTTGCCTCACAGTAAAAGAAATGGCTCAGATGTTACAGTCTTT
GGAAGTGAAGTGGCTGAGACAGAACTACCAGATGATATCCCTCAATAGAAGAAATCTGGCAATTCGT
GCTGAAAGGTATCATCTGTTGAAGAATGATATTACAGCTGTAAACCAAAGAAGGAAAAATCTGCTAACAA
AATCTGGAAGTGCCTGACTGAAGGAGCTGTCAGTTCAGACTAGAATGTCATCGGCAATAAGTGGT
GACTGGCAAATTAATAAGTTGCTGACTCAAGTACATGATATGAAAACAGCTTTTGATGGATTTTGG
GAAAAACATCAATTAATAAATGGAGCAGTATCTGCAACTATGGAAGTTTGAGCAGGATTTTCAACAGCTT
GTGACTGAAGTTGAATTTCTATTAACCAACAAGCAGAAGTGGCTGATGTAAACAGGGACTATAGCTCAA
GTAAAAACAAAAATAAAAAATTTGAAAACTTAGATGAAAATTTCTCAGGAGCTATTATCAAAGGCCAG
TTTGATATTACATGGACACAAGCTTGCAGCAATCACCATTATGCACTTGATTTAATCTGCCAGAGG
TGCAATGAGCTACGTTACCTTTCTGATATTTGGTTAATGAGATAAAAGCAAAACGGATACAACCTCAGC
AGGACCTTCAAAATGCATAAACTCCTACAGCAGGCTCGTCAATGCTGTGATGAAGGGGAATGCTTCTA
GCTAATCAGGAAATAGATAAGTTTCAGTCTAAAGAAGATGCTCAGAAAGCTCTCCAAGACATGAAAAT
TTTCTTGAATGGCTCTACCTTTATAAATTATGAACCTGAAACACTGCAGTATGAATTTGATGTAAATA
TTATCTCTGAGCTTAAGGTTCAAATGAAGACTATACAACTCAAGCTTGAAAAACATTCGAAGTATATTT
GAGAACCAGCAGGCTGGTTTCAGGAACCTGGCAGATAAGCATGTGAGGCCAATCCAATTTGTGGTACCC
ACACCTGAAAATTTGGTACATCTGGGACACCATTTTTTTCATCTAAACAAGGGAAGAAGACTTGGAGA
CAAAATCAGAGCAACTTAAAAATGAAGTGGTGCCTGATTGTCAGGAGAAGAGAAGTTCTGGTCCATCC
TCCAGTTTGGACAATGGCAATAGCTTGGATGTTTTAAAGAACCACGTAATAAATGAACTGATACAGACT
GAGAGAGTTTATGTTGAGAACTGTATACTGTTTTGTTGGTTATAGAGCGGAGATGGATAATCCAGAG
ATGTTTGTATTTATGCCACCTCTCCTGAGAAAATAAAAAGGACATTCTCTTTGAAAACATGGCAGAAATA
TATGAATTCATAACGACATTTTCTTGAGCAGCCTGAAAAATTTGCTCATGCTCCAGAAAGAGTGGGA
CCTTGTCTTCTGGAAAGGAAGGATGATTTTCAGATGATGCAAAATATTGTCAGAATAAGCCAGATCA
GAAACAATTTGGAGGAAGTATTCAGAATGCGCATTTTTCCAGGAATGTCAAAGAAAGTTAAACACAGA
CTTAGACTGGATTCCTATTTACTCAAACAGTGAACGAATCACTAAATATCAGTTATTGTTGAAGGAG
CTATTAATAATAGCAAAGACTGTGAAGGATCTGCTCTGTTGAAGAAGGCACTCGATGCAATGCTGGAT
TTACTGAAGTCAGTTAATGATTCATGCATCAGATTGCAATAAATGGCTATATTGGAACTTAAATGAA
CTGGGCAAGATGATAATGCAAGTGGATTCAGCGTTTGGATAGGGCACAAGAAAGGTGCTACAAAAATG
AAGGATTTGGCTAGATTCAAACCAATGCAGCGACACCTTTTCTGTATGAAAAAGCCATTGTTTTTGC
AAAAGGCGTGTGAAAGTGGAGAAGGCTCTGACAGATACCCGTCATACAGTTTTAAACACTGTTGGAAA
ATGGATGAAGTTGGAATCACTGAATATGTAAAAGGTGATAACCGCAAGTTTGAATCTGGTATGGTGAA
AAGGAAGAAGTTTATATTGTCAGGCTTCTAATGTAGATGTGAAGATGACGTGGCTAAAAGAAATAAGA
AATATTTTGTGAAAGCAGCAGGAATTTTACAGTAAAAAAGAAAGCAACAGGATCAATTAACAGAA
CGGATAAGTTTTCAGATTTCTTTCAGCAGAATGATGAAGACCTGTGTCGGAGATGGCTCTCCTATATT
GATGAAGCTACTATGTCAAATGGCAAGTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
```

Restriction Sites: SgfI-MluI
ACCN: NM_001171878
Insert Size: 2583 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).
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_001171878.1</u>
RefSeq Size:	3578 bp
RefSeq ORF:	2583 bp
Locus ID:	4168
UniProt ID:	<u>P10911</u>
Cytogenetics:	Xq27.1
Protein Families:	Druggable Genome
MW:	100.4 kDa
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 (5) differs in the 5' UTR and coding sequence and lacks several exons compared to variant 3. The resulting isoform (e) has shorter and distinct N- and C-termini and lacks a segment compared to isoform c.</p>