

## Product datasheet for **RG230610**

### **MCF2 (NM\_001171876) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	MCF2 (NM_001171876) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MCF2
Synonyms:	ARHGEF21; DBL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RG230610 representing NM\_001171876  
 Red=Cloning site Blue=ORF Green=Tags(s)

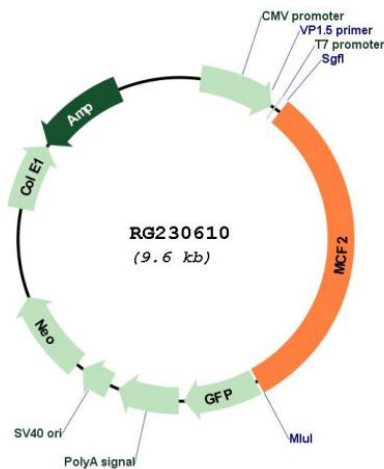
TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCAAGACATCGCCTTCTTGTCTGGTGGCCGGGAAAGGACAATGCTTGGATCATTACGTTTCCAGAAA  
 ACTGTAATTTTAGATGTATACCAGAGGAAGTAATAGCAAAAGTACTTACTTACCTGACATCTATTGCAAG  
 GCAAAATGGATCAGACTCCCGGTTTACCATTATTCTGGATCGAAGATTGGATACATGGTCTTCTCTCAAA  
 ATCTCTCTCAAAAAATCTCGGCTTCTTCCCTGGGAACCTGCACTTGGTTTTGGTTTTACGTCCTACCA  
 GCTTTCTTCAACGAACGTTACAGACATTGGATTTTGGTTTGTAGTCAGGAGGATTTTATGCTTAAATTACC  
 AGTTGTTATGCTGAGCTCAGTTAGTGATTTGCTGACATACATTGATGACAAGCAATTAACCCCTGAGTTA  
 GGCGGCACCTTGCACTACTGCCACAGTGAATGGATCATCTTCAGAAATGCTATAGAAAATTTGCCCTCA  
 CAGTGAAGAAAATGGCTCAGATGTTACAGTCTTTGGAACCTGAACTGGCTGAGACAGAATACCAGATGA  
 TATCCCTCAATAGAAGAAATTCGGCAATTCGTGCTGAAAGGTATCATCTGTTGAAGAATGATATTACA  
 GCTGTAACCAAGAAGGAAAAATTCGTAACAAATCTGGAAGTGCCTGACACTGAAGGAGCTGTCAAGTT  
 CAAGACTAGAATGTCATCGGCAAATAAGTGGTACTGGCAAATTAATAAGTTGCTGACTCAAGTACA  
 TGATATGGAAACAGCTTTTGTGGATTTTGGGAAAAACATCAATTAATAATGGAGCAGTATCTGCAACTA  
 TGGAAAGTTGAGCAGGATTTTCAACAGCTTGTGACTGAAGTTGAATTTCTATTAACCAACAAGCAGAAC  
 TGGCTGATGTAACAGGGACTATAGCTCAAGTAAAACAAAAAATAAAAAATTGGAAAACTTAGATGAAAA  
 TTCTCAGGAGCTATTATCAAAGGCCAGTTTGTGATATTACATGGACACAAGCTTGACAGCAATCACCAT  
 TATGCACTTGATTTAATCTGCCAGAGGTGCAATGAGCTACGTTACCTTTCTGATATTTGGTTAATGAGA  
 TAAAAGCAAAACGGATACAACCTCAGCAGGACCTTCAAAATGCATAAACTCCTACAGCAGCTCGTCAATG  
 CTGTGATGAAGGGGAATGTCTTCTAGCTAATCAGGAAATAGATAAGTTTCACTTAAAGAAGATGCTCAG  
 AAAGCTCTCCAAGACATTGAAAATTTTCTTGAATGGCTCTACCTTTTATAAATTATGAACCTGAAACAC  
 TGCAGTATGAATTTGATGTAATATTATCTCCTGAGCTTAAAGTTCAAATGAAGACTATACAACCTCAAGCT  
 TGAAAACATTGGAAGTATATTTGAGAACCAGCAGGCTGGTTTTCAGGAACCTGGCAGATAAGCATGTGAGG  
 CCAATCCAATTTGTGGTACCCACACCTGAAAATTTGGTCACTCTGGACACCATTTTTTTCATCTAAAC  
 AAGTGGGAGTTGGATACTTTTCTTCAAGCATGTAACCTTTTTTCAAAGGGAAGAAGACTTGGAGACA  
 AAATCAGAGCAACTTAAAAATTGAAGTGGTGCCTGATTGTGAGGAGAAGAGAAGTTCTGGTCCATCTCC  
 AGTTTGGACAATGGCAATAGCTTGGATGTTTTAAGAACCACGTAATAATGAAGTATACAGACTGAGA  
 GAGTTTATGTTCCGAGAAGTGTACTGTTTTGTTGGGTTATAGAGCGGAGATGGATAATCCAGAGATGTT  
 TGATCTTATGCCACCTCTCCTGAGAAAATAAAAGGACATTCTCTTTGAAAACATGGCAGAAAATATATGAA  
 TTCCATAACGACATTTTCTTGGCAGCCTGGAAAATTTGTGCTCATGCTCCAGAAAAGAGTGGGACCTTGT  
 TCCTGGAAGGAAGGATGATTTTCAGATGTATGCAAAAATTGTGCAAGTAAAGCCAGATCAGAAAACAT  
 TTGGAGGAAGTATTCAGAATGCGCATTTTTCCAGGAATGTCAAAGAAAGTTAAAACACAGACTTAGACTG  
 GATTCCTATTTACTCAAACAGTGAACGAATCACTAAATATCAGTTATTGTTGAAGGAGCTATTAATAAT  
 ATAGCAAAGACTGTGAAGGATCTGCTCTGTTGAAGAAGGCACTCGATGCAATGCTGGATTTACTGAAGTC  
 AGTTAATGATTTATGCATCAGATTGCAATAAATGGCTATATTGGAAACTTAAATGAAGTGGCAGAGATG  
 ATAATGCAAGGTGATTACGCTTTGGATAGGGCACAAGAAAGGTGTACAAAAATGAAGGATTTGGCTA  
 GATTCAAACCAATGCAGCGACACCTTTTCTGTATGAAAAAGCCATTGTTTTTGCAAAAGGCGTGTGGA  
 AAGTGGAGAAGGCTCTGACAGATACCCGTATACAGTTTTAAACACTGTTGGAAAATGGATGAAGTTGGA  
 ATCACTGAATATGTAAGAGGTGATAACCGCAAGTTTGAATCTGGTATGGTGAAGGGAAGAAAGTTATA  
 TTGTCCAGGCTTCTAATGTAGATGTGAAGTACGTTGGCTAAAAGAAAATAAGAAATATTTTGTGAAGCA  
 GCAGGAACCTTTGACAGTTAAAAAAGAAAGCAACAGGATCAATTAACAGAACGGGATAAGTTTCAGATT  
 TCTCTTACAGCAGAAATGATGAAAAGCAACAGGGAGCTTTTATAAGTACTGAGGAACTGAATTGGAACACA  
 CCAGCACTGTGGTGGAGTCTGTGAGGCAATTGCGTCAGTTCAGGCAGAAGCAAAATACAGTTTGGACTGA  
 GGCATCACAATCTGCAGAAATCTCTGAAGAACCTGCGGAATGGTCAAGCAACTATTTCTACCTACTTAT  
 GATGAAAATGAAGAAGAAAATAGCCCCCTCATGAGACCTGTGTCGGAGATGGCTCTCCTATAT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



## Plasmid Map:



ACCN: NM\_001171876

ORF Size: 3003 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.

RefSeq: [NM\\_001171876.2](#)

RefSeq Size: 3867 bp

RefSeq ORF: 3006 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]