

Product datasheet for **RG230587**

MCF2 (NM_001171879) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MCF2 (NM_001171879) 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)



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ORF Nucleotide Sequence:

>RG230587 representing NM_001171879
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCAGAAGCAAATCCCGGAGAGGCAAGATGAGGTTCAAGAAGAAATGCGGCTTCTTCCCTGGGAAC
 TGCACTTGGTTTTGGTTTTACGTCTACCAGCTTCTTCAACGAACGTTACAGACATTGGATTTGGTT
 TAGTCAGGAGGATTTTATGCTTAAATTACCAGTTGTTATGCTGAGCTCAGTTAGTGATTTGCTGACATAC
 ATTGATGACAAGCAATTAACCCCTGAGTTAGGCGGCACCTTGCAGTACTGCCACAGTGAATGGATCATCT
 TCAGAAATGCTATAGAAAATTTGCCCTCACAGTGAAAGAAATGGCTCAGATGTTACAGTCTTTGGAAC
 TGAAGTGGCTGAGACAGAACTACCAGATGATATCCCTCAATAGAAGAAATCTGGCAATTCGTGCTGAA
 AGGTATCATCTGTTGAAGAATGATATTACAGCTGTAACCAAGAAGGAAAAATCTGCTAACAAATCTGG
 AAGTGCCTGACACTGAAGGAGCTGTCAGTTCAAGACTAGAATGTCATCGGCAATAAGTGGTGACTGGCA
 AACTATTAATAAGTTGCTGACTCAAGTACATGATATGGAACAGCTTTTGTGGATTTTGGGAAAAACAT
 CAATTAATAAATGGAGCAGTATCTGCAACTATGGAAGTTTGAGCAGGATTTTCAACAGCTTGTGACTGAAG
 TTGAATTTCTATTAACCAACAAGCAGAACTGGCTGATGTAACAGGGACTATAGCTCAAGTAAAAACAAA
 AATAAAAAATTTGAAAACCTTAGATGAAAATTTCTCAGGAGCTATTATCAAAGGCCAGTTTGTGATATTA
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 GTTACCTTTCTGATATTTGGTTAATGAGATAAAAAGCAAAACGGATACAACCTCAGCAGGACCTTCAAAT
 GCATAAATCCTACAGCAGGCTCGTCAATGCTGTGATGAAGGGGAATGCTTCTAGCTAATCAGGAAATA
 GATAAGTTTCAGTCTAAGAAGATGCTCAGAAAGCTCTCAAGACATTGAAAATTTTCTTGAATGGCTC
 TACCCTTTATAAATTATGAACCTGAAACACTGCGATGAAATTTGATGTAATATTATCCTGAGCTTAA
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 CAGGAGAAGAGAAGTTCTGGTCCATCCTCCAGTTTGGACAATGGCAATAGCTTGGATGTTTTAAGAACC
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 CTCTTTGGAACATGGCAGAAATATATGAATCCATAACGACATTTTCTTGGAGCAGCTGGAAAATTTGG
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 TTGTCAGAATAAGCCAGATCAGAAACAATTTGGAGGAAGTATTCAGAATGCGCATTTTTCCAGGAATGT
 CAAAGAAAGTTAAACACAGACTTAGACTGGATTCCTATTTACTCAAACAGTGCACGAATCACTAAAT
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 TGGTCAAGCAACTATTTCTACCCTACTTATGATGAAAATGAAGAAGAAAAAGGCCCTCATGAGACCTG
 TGTCGGAGATGGCTCTCCTATAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG230587 representing NM_001171879
 Red=Cloning site Green=Tags(s)

MAEANPRRGKMRFRNNAASFPGNLHLVLRPTSFLQRTFTDIGFWFSQEDFMLKLPVVMLSSVSDLLTY
 IDDKQLTPELGGTLQYCHSEWIIFRNAIENFALTVKEMAQMLQSFGTETAETELPDDIPSIEEILAIRAE
 RYHLLKNDITAVTKEGKILLTNLEVPDTEGAVSSRLECHRQISGDWQTINKLLTQVHDMETAFDGFWEKH
 QLKMEQYLQLWKFEQDFQQLVTEVEFLLNQQAELADVTGTIAQVKQKIKKLENLDENSQELLSKAQFVIL
 HGHKLAANHYYALDLICQRCNELRYLSDILVNEIKAKRIQLSRFTKMHKLLQQRQCCEGECLLANQEI
 DKFQSKEDAQKALQDIENFLEMALPFINYEPETLQYEFVILSPELVQMKTIQLKLENIRSI FENQQAG
 FRNLADKHVRPIQFVVPTPENLVTSGTPFFSSKQVGVGYFFQACKLFSKGKKTWRQNQSNLKIEVVPDC
 QEKRSSGPSSSLDNGNSLDVKNHVLNELIQTERVYVRELYTVLLGYRAEMDNPEMFDLMPLLRNKDI
 LFGNMAEIEYFHNDIFLSSLENCAHAPERVGPCFLERKDDFQMYAKYCQNKPRSETIWRKYSECAFFQEC
 QRKLKHLRLDSYLLKPVQRITKYQLLLKELLYSKDCEGSALLKALDAMLDLLKSVNDSMHQIAINGY
 IGNLNELGKMIMQGGFSVWIGHKKGATKMKDLARFKPMQRHLFLYEKAVFCRRRVESGEGSDRYPYSF
 KHCWKMDVEVGITEYVKGDNRFKEI WYGEKEEVYIVQASNVDVKMTWLKEIRNILLKQQELLTVKKRQD
 QLTERDKFQISLQQNDEKQGGAFISTEETELEHTSTVVEVCEAIASVQAEANTVWTEASQSAEISEEPAE
 WSSNYFYPTYDENEENRPLMRPVSEMALLY

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

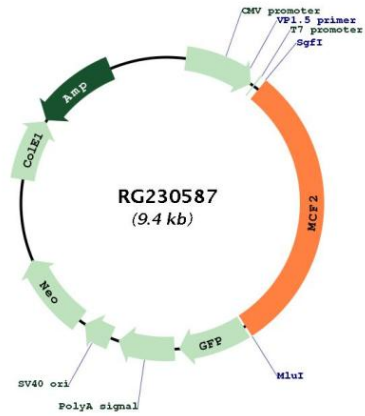


ACCN: NM_001171879

ORF Size: 2823 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:	<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:	NM_001171879.1 , NP_001165350.1
RefSeq Size:	3849 bp
RefSeq ORF:	2826 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]

Product images:



Circular map for RG230587