

Product datasheet for **MG219015**

Gcfc2 (NM_177884) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gcfc2 (NM_177884) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gcfc2
Synonyms:	A130099G21; AW146020; GCF2; Tcf9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>MG219015 representing NM_177884
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTCTCAGGCCCCAGAGGACTTTCAGGCGGCCAGGTTCAGTCCAGCGATAGCGATAGCGATAGCG
 ACGGCGCGAAGGAGCAGAGTGCGGAGGAGCCGGCGTCTGCCGGCGGCCGAACAGAGGGAGCGGAGCGGCC
 GCGCGGGGCCCGCAGCGCCCGGGCCGAGGTCTGGGCGAGTTCCCGCCGAGCCCGGAGCTGCT
 CCCCAGGGGACGGCGGAGCAGAATGCAGAACAGCTGAGCTCTCAACGGATGAAGAGGAAGGAACACATA
 CCTTGACAGGAAGTAAGGGTGATCGGAGTCCGTCTCTGATAGCTCTTGCTCTCTGGAAGAAAGAGACGT
 TTCACCCATAGTTGAGATCCCCGATGCAGCTTTTATTCAGGCAGCCCGCAGAAAACGGGAGTTGGCCAGG
 ACCCCAGGGGACTACATTTTCATTGGATGTAACCACTCCTGCTCCACTTCTGACTGTAAGAGAAGCAATG
 AAGAGGACCCAGAGAGCGATCCTGATGACCACGAAAAGAGAATACTGTTTACCCCAAAGCCTCAAACACT
 CCGGCAAAGAATGGCTGAAGAAACGTCAATCAGGAGTGAGGAATCAAGTGAAGAGAGTCAAGGAAGATGAA
 AACCAAGACATCTGGGAGCAGCAGCAGATGAGGAAAGCAGTCAGGATCCCGGCGGGACAAAAACAGACC
 TTTCCACAGCAGTAAGTCTCAACCCCTGAAGAAGTTTGATACTTCCATTTCATTTCACCCGGTAAATTT
 GGAAATTATAAGAAACAGTTAAATAATAGATTAACTTACTACAGGAGTCTCATCGCTCACACCAGAGA
 GAATATGAAAAATATGAACAAGACATCAAGAGTTCAAAGACGGCTATCCAGAATCTTGAGAGTGCATCAG
 ACCATGCTCAAACTACAGATTCTACAGGGGATGAAAAGTTATGTGGAAAAATATAATTGATTGTCTAAA
 TGAAAAGATTGTCAGCATTGTGGAAGTGAATCAATCATCATATTTGCAGCAGTTATCACGCAAAGATG
 CTTTTGAAACGCAGGCAAGATGAATTAATGCGAATCATCATATTTGCAGCAGTTATCACGCAAAGATG
 AGACATCGGCAAAATGGAAGCTTGGCTGTGGATGAAAAGGATCAACGGATTTTGAAGAGATTGAAGCTCG
 GAGGATGCAGAGAAGACAGGCCAGGGAGCTCTCGGGCAGCTGTGACCATCAGGAAGGGATGTCTAGTGAT
 GATGAGCTGTCTCCTGCAGAGATGACTAACTTCCACAAGTGCCAAGGTGACATTTTACAGGATTGTAAGA
 AAGTTTTTGAAGATGTGCATGATGATTTTTGTAACGTCCAGAATATTTTATTGAAATTTACGAGTGGCG
 AGAAAAGTTTCTGATTCTACTATGAAGCCTTCGTTGGTTTCTGCTTACCAAAGCTTTTAAAGTCCCTG
 ATACGAGTTCAGTTGCTTGACTGGAATCCTCTTAAGATGGACTCCATAGGTCTAGACAAGATGCCCTGGT
 TCACAGCTATAACAGAGTTTATGGAGAGCAGCATGGACGATATAGGGAAGGAAGATGGTTCTGATAAAAA
 AATCTTGGCTGCTGTCATCAACAAAACAGTTGTTCTCGACTTACAGATTTTGTAGAGACCATTGGGAT
 CCCCTGTCAACCTCACAGACAAGAAGTTTAACAGTGCAGTGCAGAGTGGCTTTTGAACAGTTCGCTTCTG
 AAAATGAAGTTAGTAAAAATAAACAGGATTTACTTAAATCTATTGTTGCAAGAATGAAGAAGTCAATAGA
 AGATGATATTTTTATTCTCTATACCCAAAGAGCTCTGAAGAAGGAAAAATGTCACCACACTCCAAGTTC
 CAAGAAAGACAGTTCTGGGGAGCTCTAAAGCTCTTCCGAAATATCTTCTTTGGAATGGCCTTCTCCAG
 ATGACACCTTGCAAGATCTGGGACTGGGAAGCTGCTGAATCGCTACCTTATCATCTCTTACTAATGC
 CGTCCCTGGACCAGATGTGGTTAAAAAGTGCAGCCAGATAGCAGCATGTCTACCAGAAAGATGGTTTGAG
 AACTCTGCTATGAGGACATCAATTCCCCAGCTAGAAAACCTTATTAAGTTTTTGTGAGTCTGCACAGA
 AATTATCTCAAGTGAATTCAGGAATGAAGTCAGTGAAATAATTCTTATCCTGGTGAAGGTAAAAGCTCT
 GACTCAAGCCGAATCCCTCAGAGAAGAGCGTCCCTGGAGCCCTCCAGCCAGAGTACAGGTGTT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG219015 representing NM_177884
 Red=Cloning site Green=Tags(s)

MALRPQRTFRRRQVESSDSDSDSDGAKEQSAEEPASAGGRTEGAERPRGARSARGRGRVWASSRRSPGAA
 PRGDGGAECRTAELSTDEEEGHTLTGSKGDRSPSSDSSCLEERDVSPIVEIPDAAFIQAARRKRELAR
 TPGDYISLDVNHSCSTSDCKRSNEEDPESDPDDHEKRILFTPQPQLRQMAEETSIRSEESSEESQEDE
 NQDIWEQQQMRKAVRIPAGQNTDLSSHSSQTLKKFDTISFPPVNLEI IKKQLNNRLTLLQESHRSRQ
 EYEKYEQDIKSSKTAIQNLESASDHAQNYRFYRGMKSYVENIIDCLNEKIVSIVELESSMYTL LK RSEA
 LLKRRQDELKCESSYLQQLSRKDETSANGSLAVDEKQDRILEEIEARRMQRRQARELSGSCDHQEGMSSD
 DELSPAEMTNFHKCQGDILQDCKKVFEDVHDDFCNVQNILLKFQQWREKFPDSYIEAFVGFCLPKLLSPL
 IRVQLLDWNPLKMDSIGLDKMPWFTAITEFMESSMDDIGKEDGSDKKILAAVINKTVVPRLTDFVETIWD
 PLSTSQTRSLTVHCRVAFEQFASENEVSKNKQDLLKSIVARMKKSIEDDIFIPLPKSSEEGKMSPHSKF
 QERQFWGALKLFRNILLWNGLLPDDTLQDLGLGKLLNRYLIISLTNAVPGPDVVKKCSQIAACLPERWFE
 NSAMRTSIPQLENFIKFLQSAQKLSSEFRNEVSEIILILVKVKALTQAESLREERPLEPLPAQSTGV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_177884

ORF Size: 2307 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_177884.3](#), [NP_808552.2](#)

RefSeq Size: 3375 bp

RefSeq ORF: 2310 bp

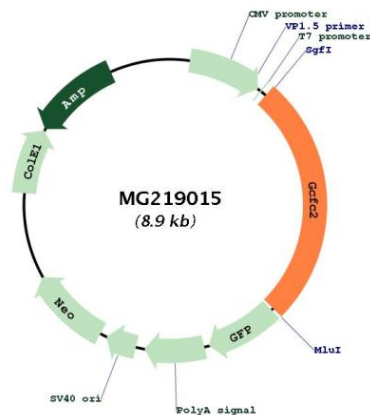
Locus ID: 330361

UniProt ID: [Q8BKT3](#)

Cytogenetics: 6 C3

Gene Summary: Factor that represses transcription. It binds to the GC-rich sequences (5'-GCGGGGC-3') present in the epidermal growth factor receptor, beta-actin, and calcium-dependent protease promoters. Involved in pre-mRNA splicing through regulating spliceosome C complex formation. May play a role during late-stage splicing events and turnover of excised introns (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG219015