

## Product datasheet for **RG210201**

### Ficolin 2 (FCN2) (NM\_004108) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ficolin 2 (FCN2) (NM_004108) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FCN2
Synonyms:	EBP-37; FCNL; ficolin-2; P35
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG210201 representing NM_004108 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGCTGGACAGAGCTGTGGGGTCTGGGCGCTGCCACCCTGCTGCTCTCTTCTGGGCATGGCCT  
GGGCTCTCCAGGCGGCAGACACCTGTCCAGAGGTGAAGATGGTGGGCTGGAGGGCTCTGACAAGCTCAC  
CATTCTCCGAGGCTGTCCGGGCTGCCTGGGGCCCTGGGCCAAGGGAGAGGCAGGCACCAATGGAAAG  
AGAGGAGAACGTGGCCCCCTGGACCTCTGGGAAGGCAGGACCCTGGGCCAACGGAGCACCTGGGG  
AGCCCCAGCCGTGCCTGACAGGCCCGCTACCTGCAAGGACCTGTAGACCGAGGGCACTCCTGAGCGG  
CTGGCACACCATCTACCTGCCCGACTGCCGGCCCTGACTGTGCTCTGTGACATGGACACGGACGGAGGG  
GGCTGGACCGTTTTCCAGCGGAGGGTGGATGGCTCTGTGGACTTCTACCGGACTGGGCCACGTACAAGC  
AGGGCTTCGGCAGTCGGCTGGGGGAGTTCTGGCTGGGGAATGACAACATCCACGCCCTGACCGCCAGGG  
AACCAGCGAGCTCCGTGTAGACCTGGTGGACTTTGAGGACAACCTACCAGTTTGCTAAGTACAGATCATTC  
AAGGTGGCCGACGAGGCGGAGAAGTACAATCTGGTCTGGGGCCTTCGTGGAGGGCAGTGGGGGAGATT  
CCCTGACGTTCCACAACAACAGTCCTTCTCCACCAAAGACCAGGACAATGATCTTAACACCGGAAATTG  
TGCTGTGATGTTTCAGGGAGCTTGGTGGTACAAAACTGCCATGTGTCAAACCTGAATGGTCGCTACCTC  
AGGGGGACTCATGGCAGCTTTGCAAATGGCATCAACTGGAAGTCGGGGAAAGGATACAATTATAGCTACA  
AGGTGTCAGAGATGAAGGTGCGACCTGCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG210201 representing NM\_004108  
 Red=Cloning site Green=Tags(s)

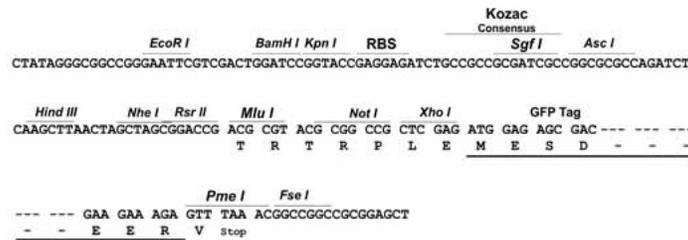
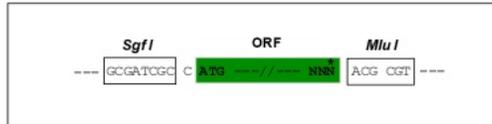
MELDRAVGVLGAAATLLL SFLGMAWALQAADTCPEVKMVGLEGSDKLTILRGCPGLPGAPGPKGEAGTNGK  
 RGERGPPGPPGKAGPPGNGAPGEPQPCLTGPRTCKDLLDRGHFLSGWHTIYLPDCRPLTVLCDMDTDGG  
 GWTVFQRRVDGSVDFYRDWATYKQFGSRLGEFWLGNDNIHALTAQGTSELRVLDLVDFEDNYQFAKYRSF  
 KVADEAEKYNLVLGAFVEGSAGDSLTFHNNQSFSTKDQDNDLNTGNCAVMFQGAWWYKNCHVSNLNGRYL  
 RGTHGSFANGINWKS GKGYNYSYKVSEM KVRPA

TRTRPLE - GFP Tag - V

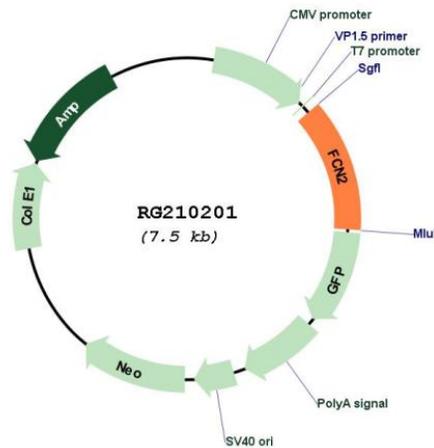
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_004108

**ORF Size:** 939 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_004108.3](#)

**RefSeq Size:** 1057 bp

**RefSeq ORF:** 942 bp

**Locus ID:** 2220

**UniProt ID:** [Q15485](#)

**Cytogenetics:** 9q34.3

**Protein Families:** Druggable Genome, Secreted Protein, Transmembrane

**Gene Summary:** The product of this gene belongs to the ficolin family of proteins. This family is characterized by the presence of a leader peptide, a short N-terminal segment, followed by a collagen-like region, and a C-terminal fibrinogen-like domain. This gene is predominantly expressed in the liver, and has been shown to have carbohydrate binding and opsonic activities. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]