

## Product datasheet for **RG204637**

### FCN1 (NM\_002003) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	FCN1 (NM_002003) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FCN1
Synonyms:	FCNM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG204637 representing NM_002003 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGCTGAGTGGAGCCACCATGGCCCCGGGTCTCGCTGTCCTGCTAGTCTTGTTCCTGCATATCAAGA  
ACCTGCCTGCCAGGCTGCGGACACATGTCCAGAGGTGAAGTGGTGGCCTGGAGGGCTCTGACAAAGCT  
CACCATTCTCCGAGGCTGCCCGGGCTGCCCGGGCCCCAGGGCCAAAGGGAGAGGCAGGTGTCTATTGGA  
GAGAGAGGAGAACCGGTCTCCCTGGAGCCCCTGGAAAGGCAGGACCAGTGGGGCCAAAGGAGACCGAG  
GAGAGAAGGGGATGCGTGGAGAGAAAGGAGACGCTGGGCAGTCTCAGTCGTGTGCGACAGGCCACGCAA  
CTGCAAGGACCTGCTAGACCGGGGTATTTCTGAGCGGCTGGCACCACCTCTACCTGCCGACTGCCGG  
CCCCTGACTGTGCTCTGTGACATGGACACGGACGGAGGGGGCTGGACCGTTTTCCAGCGGAGGATGGATG  
GCTCTGTGGACTTCTATCGGGACTGGGCCGCATACAAGCAGGGCTTCGGCAGTCAGCTGGGGGAGTTCTG  
GCTGGGAACGACAACATCCACGCCCTGACTGCCAGGGAAGCAGCGAGCTCCGTGTAGACCTGGTGGAC  
TTGAGGGCAACCACAGTTTGTAAAGTACAAATCATTCAAGGTGGCTGACGAGGCAGAGAAGTACAAGC  
TGGTACTGGGAGCCTTTGTGGGGCAGTGCAGGTAATTTCTAACGGGCCACAACAACACTTCTTCTC  
CACCAAAGACCAAGACAATGATGTGAGTCTTCGAATTGTCTGAGAAGTCCAGGGAGCCTGGTGGTAC  
GCCGACTGTATGCTTCAAACCTCAATGGTCTCTACCTCATGGGACCCCATGAGAGCTATGCCAATGGTA  
TCAACTGGAGTGGCGGAAGGGGTACAAATATAGCTACAAGGTGTGAGAGATGAAGGTGCCGCCCGCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG204637 representing NM\_002003  
 Red=Cloning site Green=Tags(s)

MELSGATMARGLAVLLVFLHIKLNPAQAADTCPEVKVVGLEGSCLKTILRGCPGLPGAPGPKGEAGVIG  
 ERGERGLPGAPGKAGPVGPKGDRGEKGMERGEKGDAGQSQSCATGPRNCKDLLDRGYFLSGWHTIYLPDCR  
 PLTVLCDMDTDGGGWTVFQRRMDGSVDFYRDWAAYKQGFSGQLGEFWLGNDNIHALTAQGSSELRVLDVD  
 FEGNHQFAKYKSFKVADEAEKYKLVLGAFVGGSSAGNSLTGHNNNFFSTKDQDNDVSSSNCAEFQGAWWY  
 ADCHASNLNGLYLMGPHESYANGINWSAAKGYKYSYKVMKVRPA

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_002003

**ORF Size:** 978 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\\_002003.2](#), [NP\\_001994.2](#)

**RefSeq Size:** 1292 bp

**RefSeq ORF:** 981 bp

**Locus ID:** 2219

**UniProt ID:** [O00602](#)

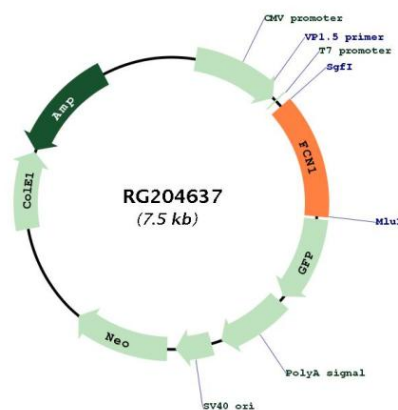
**Cytogenetics:** 9q34.3

**Domains:** FBG, Collagen

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

**Gene Summary:** The ficolin family of proteins are 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. The collagen-like and the fibrinogen-like domains are also found separately in other proteins such as complement protein C1q, C-type lectins known as collectins, and tenascins. However, all these proteins recognize different targets, and are functionally distinct. Ficolin 1 encoded by FCN1 is predominantly expressed in the peripheral blood leukocytes, and has been postulated to function as a plasma protein with elastin-binding activity. [provided by RefSeq, Jul 2008]

## Product images:



Circular map for RG204637