

## Product datasheet for **RG220772**

### Factor H (CFH) (NM\_001014975) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Factor H (CFH) (NM_001014975) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Factor H
Synonyms:	AHUS1; AMBP1; ARMD4; ARMS1; CFHL3; FH; FHL1; HF; HF1; HF2; HUS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG220772 representing NM\_001014975  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAGACTTCTAGCAAAGATTATTTGCCTTATGTTATGGGCTATTTGTGTAGCAGAAGATTGCAATGAAC  
 TTCTCCAAGAAGAAATACAGAAATTCGACAGGTTCTGGTCTGACCAACATATCCAGAAGGCACCCA  
 GGCTATCTATAAATGCCGCCCTGGATATAGATCTCTTGGAAATATAATAATGGTATGCAGGAAGGGAGAA  
 TGGGTTGCTCTTAATCCATTAAGGAAATGTCAGAAAAGGCCCTGTGGACATCCTGGAGATACTCCTTTTG  
 GACTTTTACCCTTACAGGAGGAAATGTGTTTGAATATGGTGTAAAAGCTGTGTATACATGTAATGAGGG  
 GTATCAATTGCTAGGTGAGATTAATTACCGTGAATGTGACACAGATGGATGGACCAATGATATTCCTATA  
 TGTGAAGTTGTGAAGTGTACCAGTGACAGCACCAGAGAATGGAAAAATGTCAGTAGTGAATGAAGGAGA  
 CAGATCGGAATACCATTTTGGACAAGCAGTACGGTTTGTATGTAACCTCAGGCTACAAGATTGAAGGAGA  
 TGAAGAAATGCATTGTTCCAGACGATGGTTTTTGGAGTAAAGAGAAACCAAAGTGTGTGGAATTTTCATGC  
 AAATCCCAGATGTTATAAATGGATCTCCTATATCTCAGAAGATTATTTATAAGGAGAATGAACGATTTTC  
 AATATAAATGTAACATGGGTTATGAATACAGTGAAGAGGAGATGCTGTATGCACTGAATCTGGATGGCG  
 TCCGTTGCCTTATGTGAAGAAAATCATGTGATAATCCTTATATCCAAATGGTACTACTCACCTTTA  
 AGGATTAACACAGAAGTGGAGATGAAATCACGTACCAGTGTAGAAAATGGTTTTTATCCTGCAACCCGGG  
 GAAATACAGCCAAATGCACAAGTACTGGCTGGATACCTGCTCCGAGATGTACCTTGAACCTTGTGATTA  
 TCCAGACATTAACATGGAGTCTATATCATGAGAATATGCGTAGACCATACTTTCCAGTAGCTGTAGGA  
 AAATATTACTCTTACTGTGATGAACATTTTGGACTCCGTCAGGAAGTACTGGGATCACATTCATT  
 GCACACAAGATGGATGGTCGCCAGCAGTACCATGCCTCAGAAAATGTTATTTTCCCTATTTGGAAAATGG  
 ATATAATCAAAAATCATGGAAGAAAAGTTGTACAGGGTAAATCTATAGACGTTGCCTGCCATCCTGGCTAC  
 GCTCTTCCAAAAGCGCAGACCACAGTTACATGTATGGAGAATGGCTGGTCTCCTACTCCAGATGCATCC  
 GTGTCAGCTTTACCCTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG220772 representing NM\_001014975  
 Red=Cloning site Green=Tags(s)

MRLLAIIICMLWAICVAEDCNELPPRRNTEILTGSWSDQTYPEGTQAIYKCRPGYRSLGNIIMVCRKGE  
 WVALNPLRKCQKRPCGHPGDTDFGTFLLTGGNVFEYGVKAVYTCNEGYQLLGEINYRECDTDGWTNDIPI  
 CEVVKCLPVTAPENKIVSSAMEPDREYHFGQAVRFVCNSGYKIEGDEEMHCSDDGFWSKEKPKCIVEISC  
 KSPDVINGSPISQKIIYKENERFYKCNMGYEYSERGDVCTESGWRPLPSCEEKSCDNPYIPNGDYSPL  
 RIKHRTGDEITYQCRNGFYPATRNTAKCTSTGWIPAPRCTLKPCDYDPDIKHGGLYHENMRRPYFPVAVG  
 KYYSYYCDEHFETPSGSYWDHIHCTQDGWSPAVPCLRKCYFPYLENGYNQNHGRKFVQKSIDVACHPGY  
 ALPKAQTTVTCMENGWSPTPRCIRVSFTL

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001014975

**ORF Size:** 1347 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).

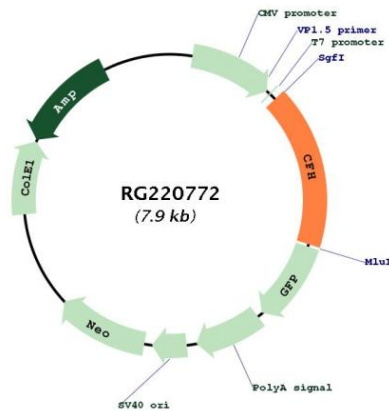
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
  2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
  3. Close the tube and incubate for 10 minutes at room temperature.
  4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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\\_001014975.1](#), [NP\\_001014975.1](#)

**RefSeq Size:** 1702 bp  
**RefSeq ORF:** 1350 bp  
**Locus ID:** 3075  
**Cytogenetics:** 1q31.3  
**Protein Families:** Druggable Genome, Secreted Protein  
**Protein Pathways:** Complement and coagulation cascades  
**Gene Summary:**

This gene is a member of the Regulator of Complement Activation (RCA) gene cluster and encodes a protein with twenty short consensus repeat (SCR) domains. This protein is secreted into the bloodstream and has an essential role in the regulation of complement activation, restricting this innate defense mechanism to microbial infections. Mutations in this gene have been associated with hemolytic-uremic syndrome (HUS) and chronic hypocomplementemic nephropathy. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Oct 2011]

### Product images:



Circular map for RG220772