

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
 TGTGAAGTTGTAAGTGTACCAGTGACAGCACCAGAGAATGGAAAAATGTCAGTAGTGAATGAAGGAGA
 CAGATCGGAATACCATTTTGGACAAGCAGTACGGTTTGTATGTAACCTCAGGCTACAAGATTGAAGGAGA
 TGAAGAAATGCATTGTTCCAGACGATGGTTTTTGGAGTAAAGAGAAACCAAAGTGTGTGGAATTTTCATGC
 AAATCCCAGATGTTATAAATGGATCTCCTATATCTCAGAAGATTATTTATAAGGAGAATGAACGATTTT
 AATATAAATGTAACATGGGTTATGAATACAGTGAAGAGGAGATGCTGTATGCACTGAATCTGGATGGCG
 TCCGTTGCCTTATGTGAAGAAAATCATGTGATAATCCTTATATCCAAATGGTACTACTCACCTTTA
 AGGATTAACACAGAAGTGGAGATGAAATCACGTACCAGTGTAGAAAATGGTTTTTATCCTGCAACCCGGG
 GAAATACAGCCAAATGCACAAGTACTGGCTGGATACCTGCTCCGAGATGTACCTTGAACCTTGTGATTA
 TCCAGACATTAACATGGAGTCTATATCATGAGAATATGCGTAGACCATACTTTCCAGTAGCTGTAGGA
 AAATATTACTCTTACTGTGATGAACATTTTGGACTCCGTCAGGAAGTACTGGGATCACATTCATT
 GCACACAAGATGGATGGTCGCCAGCAGTACCATGCCTCAGAAAATGTTATTTTCCCTATTTGGAAAATGG
 ATATAATCAAAAATCATGGAAGAAAAGTTGTACAGGGTAAATCTATAGACGTTGCCTGCCATCCTGGCTAC
 GCTCTTCCAAAAGCGCAGACCACAGTTACATGTATGGAGAATGGCTGCTCCTACTCCAGATGCATCC
 GTGTCAGCTTTACCCTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG220772 representing NM_001014975
 Red=Cloning site Green=Tags(s)

MRLLAIIICMLWAICVAEDCNELPPRRNTEILTGSWSDQTYPEGTQAIYKCRPGYRSLGNIIMVCRKGE
 WVALNPLRKCQKRPCGHPGDTFPGFTLTGGNVFEYGVKAVYTCNEGYQLLGEINYRECDTDGWTNDIPI
 CEVVKCLPVTAPENKIVSSAMEPDREYHFGQAVRFVCNSGYKIEGDEEMHCSDDGFWSEKPKCIVEISC
 KSPDVINGSPISQKIIYKENERFYKCNMGYEYSERGDVCTESGWRPLPSCEEKSCDNPYIPNGDYSPL
 RIKHRTGDEITYQCRNGFYPATRNTAKCTSTGWIPAPRCTLKPCDYDPDIKHGGLYHENMRRPYFPVAVG
 KYYSYYCDEHFETPSGSYWDHIHCTQDGWSPAVPCLRKCYFPYLENGYNQNHGRKFVQKSIDVACHPGY
 ALPKAQTTVTCMENGWSPTPRCIRVSFTL

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001014975

ORF Size: 1347 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_001014975.1](#), [NP_001014975.1](#)

RefSeq Size: 1702 bp

RefSeq ORF: 1350 bp

Locus ID: 3075

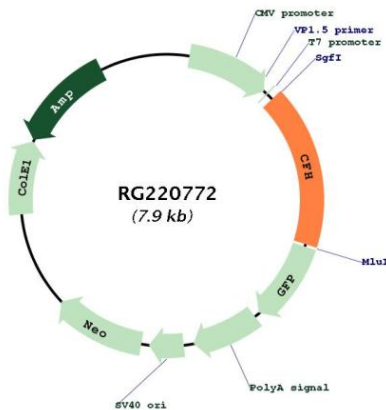
Cytogenetics: 1q31.3

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