

## Product datasheet for **RC234474**

### CFHR4 (NM\_001201551) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CFHR4 (NM_001201551) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CFHR4
Synonyms:	CFHL4; FHR-4; FHR4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC234474 representing NM\_001201551  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTTGTTACTAATCAATGTCATTCTGACCTTGTGGGTTTCTGTGCTAATGGACAAGTAAACCTTGTG  
 ATTTTCCAGAAATCAACATGGAGGCTATATTATAAGAGTTTTCGTAGACTATACTTTCCAGCAGCTGC  
 AGGACAATCTTATTCTATTACTGTGATCAAAATTTGTGACTCCTTCAGGAAGTTACTGGGATTACATT  
 CATTGCACACAAGATGGTTGGTCAACAACGGTCCCATGCCTCAGAACATGCTCAAAATCAGATGTAGAAA  
 TTGAAAATGGATTCAATTTCTGAATCTTCTCTATTTTAAATGAAGAAACACAATAAATGTAA  
 ACCAGGATATGCAACAGCAGAGGGAAATTTCTCAGGATCAATTACATGTTTGCAAAATGGATGGTCAACA  
 CAACCAATTTGCATTAATTTTGTGATGCCTGTTTTGAGAATTCAGAGCCAAGAGTAAATGGCATGT  
 GGTAAAGCTCCATGACACATTGGACTATGAATGCTATGATGGATATGAAAGCAGTTATGAAACACCAC  
 AGATTCATAGTGTGGTGAAGATGGCTGGTCCCATTTGCCAACATGCTATAATTCTTCAGAAAAGTGT  
 GGGCCTCTCCACCTATTAGCAATGGAGATACCAGTCCTTCCGCAAAAAGTGTATCTGCCATGGTCAA  
 GAGTCGAGTACAGTGCCAGTCTACTATGAACTTCAGGGTCTAAATATGTAACATGTAGTAATGGAGA  
 CTGGTCAGAACCACCAAGATGCATATCAATGAAACCTTGTGAGTTCCAGAAATCAACATGGACATCTA  
 TATTATGAGAATACGCGTAGACCATACTTTCCAGTAGCTACAGGACAATCTTACTCCTATTACTGTGACC  
 AAAATTTGTGACTCCTTCAGGAAGTTACTGGGATTACATTCCTGCACACAAGATGGTGGTGGCCAAC  
 AGTCCCATGCCTCAGAACATGCTCAAAATCAGATATAGAAATGAAAATGGATTCAATTTCTGAATCTTCC  
 TCTATTATATTTTAAATAAAGAAATACAATATAAATGTAACCAGGATATGCAACAGCAGATGGAAAT  
 CTTCAAGTTCAATTACATGTTTGCAAAATGGATGGTGCAGCACAACTTTGCATTAATTTTGTGATAT  
 GCCTGTTTTGAGAATTCAGAGCCAAGAGTAATGGCATGCGGTTTAAAGCTCCATGACACATTGGACTAC  
 GAATGCTACGATGGATATGAAATCAGTTATGAAAACACCACAGGTTCCATAGTGTGGTGAAGATGGGT  
 GGTCCCATTTCCAACATGTTATAATTCTTCAGAAAAGTGGGCCTCTCCACCTATTAGCAATGGTGA  
 TACCACCTCTTTCTACTAAAAGTGTATGTGCCACAGTCAAGAGTCGAGTACCAATGCCAGTCTACTAT  
 GAACTTCAGGGTTCTAATTATGTAACATGTAGTAATGGAGAGTGGTGGAAACCACCAAGATGCATACATC  
 CATGTATAAATACTGAAGAAAACATGAATAAAAATAACATACAGTTAAAAGGAAAAGTGACATAAAATA  
 TTATGCAAAAACAGGGGATACCATTGAATTTATGTGTAATTTGGGATATAATGCGAATACATCAGTTCTA  
 TCAATTCAGCAGTGTGTAGGGAAGGCATAGTGAATACCCAGATGCGAA

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC234474 representing NM\_001201551  
 Red=Cloning site Green=Tags(s)

MLLLINVILTLWSCANGQVKPCDFPEIQHGGLYYKSLRRLYFPAAAGQSYSYYCDQNFVTPSGSYWDYI  
 HCTQDGSPTVPLRRTCSKSDVEIENGFISESSSIYILNEETQYNCKPGYATAEGNSSGSITCLQNGWST  
 QPICKIKFCDMPVFENSRAKSNMWFKLHDTLDYECYDGYESSYGNNTDSIVCGEDGWSHLPTCYNSSENC  
 GPPPPISNGDTSFPQKYYLPWSRVEYQCQSYELQGSKYVTCNSGDWSEPPRCISMKPCFPEIQHGHL  
 YYENTRRPYFPVATGQSYSYYCDQNFVTPSGSYWDYIHCTQDGLPTVPLRRTCSKSDIEIENGFISESS  
 SIYILNKEIQYKCKPGYATADGNSSGSITCLQNGWSAQPIKIKFCDMPVFENSRAKSNMRFKLHDTLDY  
 EYDGYEISYGNNTGSIVCGEDGWSHFPTCYNSEKCGPPPIISNGDTSFLLKVVYPQSRVEYQCQSY  
 ELQGSNYVTCNSGEWSEPPRCIHPCIIITEENMKNNIQLKGSIDIKYYAKTGDTIEFMCKLGYNANTSVL  
 SFQAVCREGIVEYPRCE

SGP**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-RsrII

**Cloning Scheme:**


**ACCN:** NM\_001201551

**ORF Size:** 1731 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\\_001201551.2](#)

**RefSeq Size:** 2178 bp

**RefSeq ORF:** 1734 bp

**Locus ID:** 10877

**UniProt ID:** [Q92496](#)

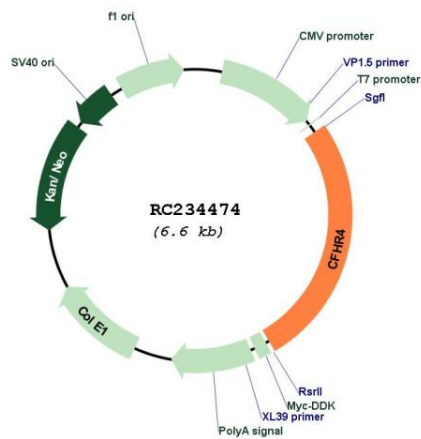
**Cytogenetics:** 1q31.3

**Protein Families:** Secreted Protein

**MW:** 65.7 kDa

**Gene Summary:** This gene is a member of the complement factor H (CFH) gene family, and encodes one of the 5 CFH-related (CFHR) proteins. These 5 genes are closely linked to the CFH gene on chromosome 1q31-q32. The CFHRs are secreted plasma proteins synthesized primarily by the hepatocytes, and composed of highly-related short consensus repeats (SCRs). This protein enhances the cofactor activity of CFH, and is involved in complement regulation. It can associate with lipoproteins and may play a role in lipid metabolism. Alternatively spliced transcript variants encoding different isoforms (varying in the number of SCRs) have been described for this gene. [provided by RefSeq, Jan 2011]

### Product images:



Circular map for RC234474