

Product datasheet for **RG223868**

CFHR5 (NM_030787) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CFHR5 (NM_030787) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CFHR5
Synonyms:	CFHL5; CFHR5D; FHR-5; FHR5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG223868 representing NM_030787
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTTGCTCTTATTCAGTGAATCCTAATCTCATGGGTATCCACTGTTGGGGGAGAAGGAACACTTTGTG
 ATTTTCCAAAAATACACCATGGATTTCTGTATGATGAAGAAGATTATAACCCTTTTCCCAAGTTCCTAC
 AGGGGAAGTTTTCTATTACTCCTGTGAATATAATTTGTGTCTCCTTCAAATCCTTTGGACTCGCATA
 ACATGCACAGAAGAAGGATGGTACCAACACCGAAGTGTCTCAGAATGTGTTCTTTCTTTGTAAAA
 ATGGTCATTCTGAATCTTCAGGACTAATACATCTGGAAGGTGATACTGTACAAATATTTGCAACACAGG
 ATACAGCCTTCAAACAATGAGAAAAACATTTCTGTGTAGAACGGGGCTGGTCCACTCTCCCATATGC
 AGCTTCACTAAAGGAGAATGTCATGTTCCAATTTAGAAGCCAATGTAGATGCTCAGCCAAAAAAGAAA
 GCTACAAAGTTGGAGACGTGTTGAAATTTCTCTGCAGAAAAATCTTATAAGAGTTGGATCAGACTCAGT
 TCAATGTTACCAATTTGGTGGTCACTAACTTTCCAACATGCAAAGGACAAGTACGATCATGTGGTCCA
 CCTCTCAACTCTCAATGGTGAAGTTAAGGAGATAAGAAAAGAGGAATATGGACACAATGAAGTAGTGG
 AATATGATTGCAATCCTAATTTATAATAAACGGGCTAAGAAAAACAATGTGTGGATGGAGAATGGAC
 AACTTTACCCACTTGTGTTGAACAAGTGAACAATGTGGATACATACCTGAACTCGAGTACGGTTATGTT
 CAGCCGTCTGTCCCTCCCTATCAACATGGAGTTTCAGTCGAGGTGAATTCAGAAAATGAATATGCAATGA
 TTGAAATAACATGATTACCTGTATTAATGGAATATGGACAGAGCTTCTATGTGTGTTGCAACACACCA
 ACTTAAGAGGTGCAAAAATAGCAGGAGTTAATAAAAAACATTACTCAAGCTATCTGGGAAAGAATTAAT
 CATAATTCTAGAATACGTTACAGATGTTACAGACATCTTCAGATACAGGCACTCAGTCTGTATAAACGGGA
 AATGGAACTCCTGAAGTAGACTGCACAGAAAAAGGGAACAATTTCTGCCACCGCCACCTCAGATACCTAA
 TGCTCAGAATATGACAACCACAGTGAATTAACAGGATGGAGAAAAAGTAGCTGTTCTCTGTAAAGAAAAAC
 TATCTACTTCCAGAAGCAAAAGAAATTGTATGTAAGATGGACGATGGCAATCATTACCACGCTGTGTTG
 AGTCTACTGCATATTGTGGGCCCTCCATCTATTAACAATGGAGATACCACCTCATTCCCATTATCAGT
 ATATCCTCCAGGGTCAACAGTGACGTACCCTGTCAGTCTTCTATAAACTCCAGGGCTCTGTAAGTGA
 ACATGCAGAAATAAACAGTGGTCAAGCAACCAAGATGCCTAGATCCATGTGTGGTATCTGAAGAAAAACA
 TGAACAAAAATAACATACAGTAAAATGGAGAAACGATGGAAAACCTATGCAAAAACAGGGGATGCTGT
 TGAATTCAGTGAATTTCCACATAAAGCGATGATATCATCACCACCTTCGAGCAATCTGTCAGGAA
 GGGAAATTTGAATATCTATATGTGAA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG223868 representing NM_030787
 Red=Cloning site Green=Tags(s)

MLLLFSVILISWVSTVGGEGTLCDFPKIHHGFLYDEEDYNPFSQVPTGEVFFYSCEYNFVSPSKSFWTRI
 TCTEEGWSPTPKCLRMCSFPFVKNGHSESSGLIHLEGDVQIICNTGYSLQNEKNISCVERGWSPPIC
 SFTKGECHVPILEANVDAQPKESYKVGDLKFSRKNLIRVGSDSVQCYQFGWSPNFPCTCKQVRSRCP
 PPQLSNGEVKEIRKEEYGHNEVVEYDCNPNFIINGPKIQVDGEWTTLPCTVEQVKTCGYIPELEYGYV
 QPSVPPYQHGVSEVNCRNEYAMIGNNMITCINGIWTLPVATHQLKRCKIAGVNIKTLKLSGKEFN
 HNSRIRYRCSDFRYRHSVCINGKWNPEVDCTEKREQFCPPPPQIPNAQNMTTTVNYQDGEKVAVLCKEN
 YLLPEAKEIVCKDGRWQSLPRCEVESTAYCGPPPSINNGDTSFPLSVYPPGSTVTVYRCQSFYKLGQSVTV
 TCRNKQWSEPPRCLDPCVVSEENMNKNNIQLKWRNDGKLYAKTGDAVEFQCKFPHKAMISSPPFRAICQE
 GKFEYPICE

TRTRPLE – GFP Tag – V

Restriction Sites:

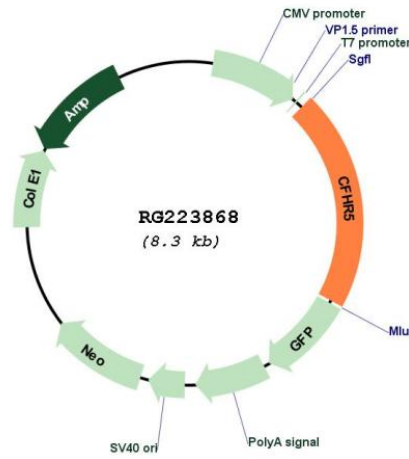
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_030787
 ORF Size: 1707 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:	<ol style="list-style-type: none"> 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_030787.4
RefSeq Size:	2823 bp
RefSeq ORF:	1710 bp
Locus ID:	81494
UniProt ID:	Q9BXR6
Cytogenetics:	1q31.3
Domains:	CCP
Protein Families:	Secreted Protein, Transmembrane
Gene Summary:	This gene is a member of a small complement factor H (CFH) gene cluster on chromosome 1. Each member of this gene family contains multiple short consensus repeats (SCRs) typical of regulators of complement activation. The protein encoded by this gene has nine SCRs with the first two repeats having heparin binding properties, a region within repeats 5-7 having heparin binding and C reactive protein binding properties, and the C-terminal repeats being similar to a complement component 3 b (C3b) binding domain. This protein co-localizes with C3, binds C3b in a dose-dependent manner, and is recruited to tissues damaged by C-reactive protein. Allelic variations in this gene have been associated, but not causally linked, with two different forms of kidney disease: membranoproliferative glomerulonephritis type II (MPGNII) and hemolytic uraemic syndrome (HUS). [provided by RefSeq, Jan 2010]