*h*CFHR1 VersaClone cDNA

Catalog Number: RDC2947

Specifications:

Gene:	*h*CFHR1
Accession:	NP_002104
Insert size:	1006bp
Concentration:	10µg at 0.2µg/µL

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

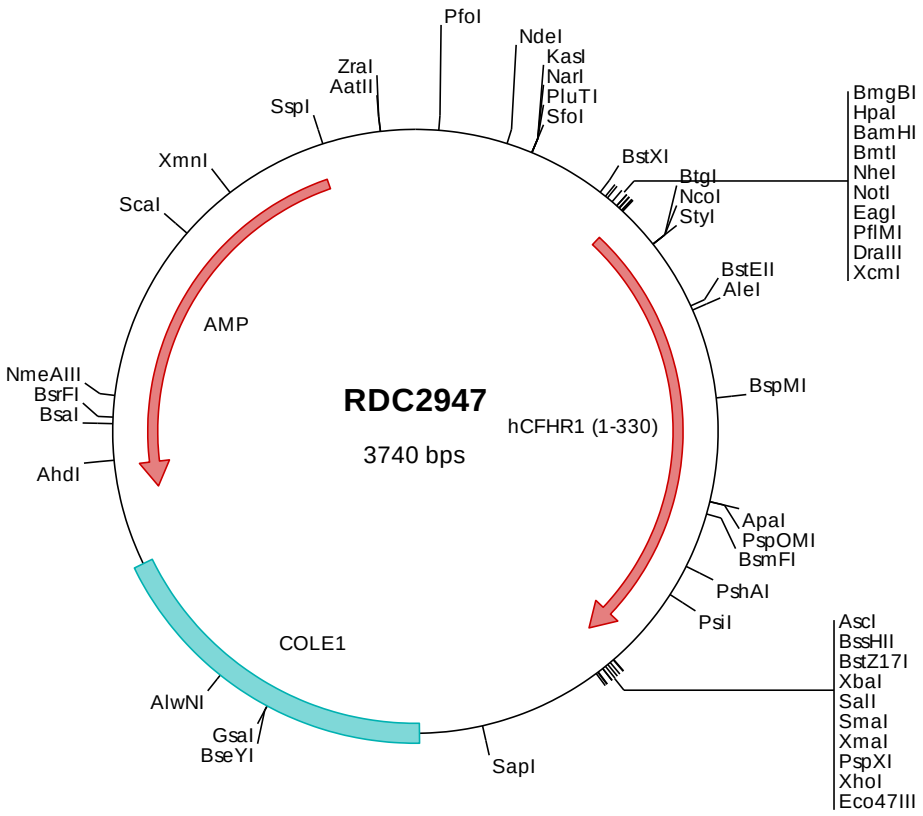
Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

*h*CFHR1 cDNA Plasmid

CFHR1 complement factor H related 1 [*Homo sapiens* (human)]

Also known as: CFHL; FHR1; HFL1; HFL2; CFHL1; H36-1; H36-2; CFHL1P; CFHR1P

Summary:
CFHR1 is a secreted protein belonging to the complement factor H protein family. It binds to Pseudomonas aeruginosa elongation factor Tuf together with plasminogen, which is proteolytically activated. It is proposed that Tuf acts as a virulence factor by acquiring host proteins to the pathogen surface, controlling complement, and facilitating tissue invasion. Mutations in CFHR1 are associated with an increased risk of atypical hemolytic-uremic syndrome.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

R&D SYSTEMS
a bio-techne brand

> RDC2947 Plasmid DNA Sequence

```
   1  tcgcgcgttt cggtgatgac ggtgaaaacc tctgacacat gcagctcccg gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
 101  tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg cttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
 201  ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
 301  tacgccagct ggcgaaaggg ggatgtgctg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
 401  ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgccacc atgtggctcc tggtcagtgt aattctaatc tcacggatat cctctgttgg
 501  gggagaagca acattttgtg attttccaaa aataaaccat ggaattctat atgatgaaga aaaatataag ccattttccc aggttcctac aggggaagtt
 601  ttctattact cctgtgaata taattttgtg tctccttcaa aatcattttg gactcgcata acatgcacag aagaaggatg gtcaccaaca ccaaagtgtc
 701  tcagactgtg tttctttcct tttgtggaaa atggtcattc tgaatcttca ggacaaacac atctggaagg tgatactgtg caaattattt gcaacacagg
 801  atacagactt caaaacaatg agaacaacat ttcatgtgta gaacggggct ggtccacccc tcccaaatgc aggtccactg acacttcctg tgtgaatccg
 901  cccacagtac aaaatgctca tatactgtcg agacagatga gtaaatatcc atctggtgag agagtacgtt atgaatgtag gagcccttat gaaatgtttg
1001  gggatgaaga agtgatgtgt ttaaatggaa actggacaga accacctcaa tgcaaagatt ctacgggaaa atgtgggccc cctccaccta ttgacaatgg
1101  ggacattact tcattcccgt tgtcagtata tgctccagct tcatcagttg agtaccaatg ccagaacttg tatcaacttg agggtaacaa gcgaataaca
1201  tgtagaaatg gacaatggtc agaaccacca aaatgcttac atccgtgtgt aatatcccga gaaattatgg aaaattataa catagcatta aggtggacag
1301  ccaaacagaa gctttatttg agaacaggtg aatcagctga atttgtgtgt aaacggggat atcgtctttc atcacgttct cacacattgc gaacaacatg
1401  ttgggatggg aaactggagt atccaacttg tgcaaaaaga taaaggcgcg ccagtatact ctagagtcga cacccgggga attcctcgag cgctcgtctc
1501  tagcttggcg taatcatggt catagctgtt tcctgtgtga aattgttatc cgctcacaat tccacacaac atacgagccg gaagcataaa gtgtaaagcc
1601  tggggtgcct aatgagtgag ctaactcaca ttaattgcgt tgcgctcact gcccgctttc cagtcgggaa acctgtcgtg ccagctgcat taatgaatcg
1701  gccaacgcgc ggggagaggc ggtttgcgta ttgggcgctc ttccgcttcc tcgctcactg actcgctgcg ctcggtcgtt cggctgcggc gagcggtatc
1801  agctcactca aaggcggtaa tacggttatc cacagaatca ggggataacg caggaaagaa catgtgagca aaaggccagc aaaaggccag gaaccgtaaa
1901  aaggccgcgt tgctggcgtt tttccatagg ctccgccccc ctgacgagca tcacaaaaat cgacgctcaa gtcagaggtg gcgaaacccg acaggactat
2001  aaagatacca ggcgtttccc cctggaagct ccctcgtgcg ctctcctgtt ccgaccctgc cgcttaccgg atacctgtcc gcctttctcc cttcgggaag
2101  cgtggcgctt tctcaatgct cacgctgtag gtatctcagt tcggtgtagg tcgttcgctc caagctgggc tgtgtgcacg aacccccccgt tcagcccgac
2201  cgctgcgcct tatccggtaa ctatcgtctt gagtccaacc cggtaagaca cgacttatcg ccactggcag cagccactgg taacaggatt agcagagcga
2301  ggtatgtagg cggtgctaca gagttcttga agtggtggcc taactacggc tacactagaa ggacagtatt tggtatctgc gctctgctga agccagttac
2401  cttcggaaaa agagttggta gctcttgatc cggcaaacaa accaccgctg gtagcggtgg ttttttttgtt tgcaagcagc agattacgcg cagaaaaaaa
2501  ggatctcaag aagatccttt gatcttttct acggggtctg acgctcagtg gaacgaaaac tcacgttaag ggattttggt catgagatta tcaaaaagga
2601  tcttcaccta gatcctttta aattaaaaat gaagttttaa atcaatctaa agtatatatg agtaaacttg gtctgacagt taccaatgct taatcagtga
2701  ggcacctatc tcagcgatct gtctatttcg ttcatccata gttgcctgac tccccgtcgt gtagataact acgatacggg agggcttacc atctggcccc
2801  agtgctgcaa tgataccgcg agacccacgc tcaccggctc cagatttatc agcaataaac cagccagccg gaagggccga gcgcagaagt ggtcctgcaa
2901  ctttatccgc ctccatccag tctattaatt gttgccggga agctagagta agtagttcgc cagttaatag tttgcgcaac gttgttgcca ttgctacagg
3001  catcgtggtg tcacgctcgt cgtttggtat ggcttcattc agctccggtt cccaacgatc aaggcgagtt acatgatccc ccatgttgtg caaaaaagcg
3101  gttagctcct tcggtcctcc gatcgttgtc agaagtaagt tggccgcagt gttatcactc atggttatgg cagcactgca taattctctt actgtcatgc
3201  catccgtaag atgcttttct gtgactggtg agtactcaac caagtcattc tgagaatagt gtatgcggcg accgagttgc tcttgcccgg cgtcaatacg
3301  ggataatacc gcgccacata gcagaacttt aaaagtgctc atcattggaa aacgttcttc ggggcgaaaa ctctcaagga tcttaccgct gttgagatcc
3401  agttcgatgt aacccactcg tgcacccaac tgatcttcag catcttttac tttcaccagc gtttctgggt gagcaaaaac aggaaggcaa aatgccgcaa
3501  aaaagggaat aagggcgaca cggaaatgtt gaatactcat actcttcctt tttcaatatt attgaagcat ttatcagggt tattgtctca tgagcggata
3601  catatttgaa tgtatttaga aaaataaaca aatagggttc ccgcgcacat ttccccgaaa agtgccacct gacgtctaag aaaccattat tatcatgaca
3701  ttaacctata aaaataggcg tatcacgagg ccctttcgtc
```

> RDC2947 Translated Insert Sequence

```
   1  mwllvsvili srissvggea tfcdfpkinh gilydeekyk pfsqvptgev fyysceynfv spsksfwtri tcteegwspt pkclrlcffp fvenghsess
 101  gqthlegdtv qiicntgyrl qnnenniscv ergwstppkc rstdtscvnp ptvqnahils rqmskypsge rvryecrspy emfgdeevmc lngnwteppq
 201  ckdstgkcgp pppidngdit sfplsvyapa ssveyqcqnl yqlegnkrit crngqwsepp kclhpcvisr eimenynial rwtakqklyl rtgesaefvc
 301  krgyrlssrs htlrttcwdg kleyptcakr
```