

Product datasheet for **MR216342**

Cfi (NM_007686) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cfi (NM_007686) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cfi
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR216342 representing NM_007686
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGCTCGCTCATCTCAGTCTCTTTCTCTGGCTCTCCACTTGAGTTCTTCCAGTCCCCGTCAGCAT
 CAGATCTGCCTCAGGAGGAGCTGGTCGATCAGAAATGCTTACTGCAGAAATACACGCATCGCTCCTGTAA
 CAAGGTCTTCTGCCAGCCGTGGCAGAGATGTATCGAAGGCACCTGTATCTGCAAACCTCCCCTACCAGTGC
 CCAAGGGCTGGCACCCAGTGTGTGCCATGAATGGAAGGAGCTACCCGACATACTGTACCAGAAGAGTT
 TCGAATGTCTTACCCAGAGATCAAGTTTTACATAATGGAACGTGCGCAGCTGAAGGAAAGTTTAAATGT
 TTCCTTAATTTATGGGAGAACAAAAACAGAGGGACTTGTCAAGTCAAACCTGTGGACCAAGATGAGAGA
 ATGTTTCATATGTAACAGCTGGAGCATGGCGGAGGCCAACGTGGCTGCGTCGACCTTGGATTTCCAC
 TGGGTGTTGTCGACATAACAAGGAAGTTTAAATATCTGGAAATCTCCATATAAACGACACTGAATGCCT
 GCATGTACATTGCCGGGAGTAGAGACCAGTTTGGCGGAGTGTGCCTTTACGAAGAGGAGAACTGAGTTG
 TCCAATGGCTTGGCGGGGTAGTGTGTTACAAGCAGGATGCAGATTTCCAACGAGTCTGTCTTCCAGT
 GTGTGAATGGGAAGCACATTCCTCAGGAGAAAGCCTGCAACGGTGTCAATGACTGTGGAGACCAAGCGA
 TGAGCTGTGTTGCAAAGGTTGCCGAGGTAACGCTTCCCTTTGTAAGTCGGGAGTTTGATTTCCAGACCAA
 TACAAGTGTAAATGGTGAAGTGGACTGCATCACTGGTGAAGATGAGAGCCGTTGTGAAGAAGACCGACAGC
 AGAACATTCAAAAGGCCTTGCACGGTCAGCTCAAGGAGAAGCTGAAATGAAACTGAAGAAACAGAAAT
 GTTGACTCCTGGTATGGACAATGAAAGAAAACGGATAAAGTCCTTATTACCTAACTCTCCTGTGGAGTC
 AAAAGAAACACTCACACTCGCAGGAAACGAGTGCATCGGAGGGAAGCCAGCGAATGTGGGAGACTACCCAT
 GGCAGTGGCAATTAAGGATGGCCAAAGAATCACCTGTGGTGGCATTATATCGTGGCTTGGATTCT
 GACTGCTGCGCACTGTGTCAGACCCAGTAGAGCTCACAGTTACCAAGTCTGGACGGCTTTATTAGACTGG
 CTAACAACTAACTCTCAGTTGGGAATTCAAACGGTGAAGAGAGTTATTGTTACAGAGAAATATAATGGAG
 CCACCTTCCAAAATGACATAGCTTTGATTGAAATGAAAATGCACACGGGCAAGAAAGAAATGTGAACTCCC
 CAATTCGCTCCCTGCCTGCGTCCCGTGGTCTCCATATCTGTTCCAACCGAATGACAGATGTATCATCTCT
 GGATGGGTCGAGGGAAGATAACCAAAAAGTCTACTCACTCAGGTGGGCGAAGTTGATCTAATAGGCA
 ACTGCTCTCAGTTTTACCAGATCGCTACTATGAGAAAGAGATGCAGTGCAGGACGCGTGTGGGTC
 CATTGATGCTGCAAAGGAGACTCCGAGGCCCTTGGTCTGTGAGGATATCAACATGTCACTTACGTT
 TGGGGCATTGTGAGCTGGGAGAAAATGTGGGAAGCCGAGTCCAGGTGTTACACCAGAGTGGCCA
 ATTATTTGATTGGATTAGCTATCACGTAGGAAGTCTCTTGTCTCAACACAATGTC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR216342 representing NM_007686
 Red=Cloning site Green=Tags(s)

MKLAHLSLFLALHLSSSRSPSASDLPQEELVDQKCLLQKYTHRSCNKVFCQPWQRCIEGTCICKLPYQC
 PRAGTPVCAMNGRSYPTYCHQKSFELHPEIKFSHNGTCAAEGKFNVSLEYGRKTEGLVQVKLVQDER
 MFICKNSWMAEANVACVDLGFPLGVRDIQGSFNISGNLHINDTECLHVHCRGVETSLAECAFTKRRTEL
 SNGLAGVVCYKQDADFPTSLSFQCVNGKHIPQEKACNGVNDGQDQSDDELCKGCRGNASLCKSGVICPDQ
 YKCNGEVDCITGEDESRCEEDRQNIIPKGLARSAQGEAEIETEEMLETPGMDNERKRIKSLPKLSCGV
 KRNTHTRRKRVIIGGKPANVGDYPWQVAIKDGQRITCGGIYIGGCWILTAHCVRPSRAHSYQVWVALLDW
 LKPNSQLGIQTVKRIVVHEKYNGATFQNDIALIEMKMHTGKKECELPNSVPACVPWSPYLFQPNDRCIIS
 GWGRGKDNQKVYSLRWGEVDLIGNCSQFYPDRIYEMQACGTRDGSIDACKGDSGGLVCEIDINNVTVY
 WGIVSWGENCCKPEFPGVYTRVANYFDWISYHVGRSLVSHNV

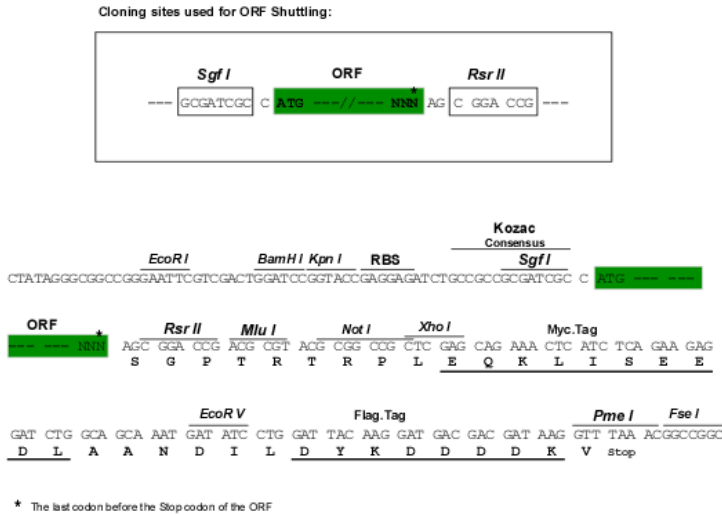
SGP**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9006_d06.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_007686

ORF Size: 1809 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_007686.3](#), [NP_031712.2](#)

RefSeq Size: 2073 bp

RefSeq ORF: 1812 bp

Locus ID: 12630

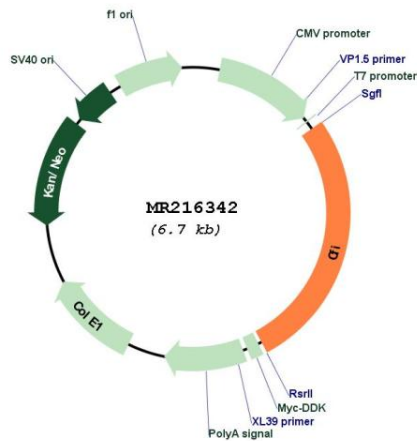
UniProt ID: [Q61129](#)

Cytogenetics: 3 59.21 cM

MW: 67.7 kDa

Gene Summary: This gene encodes a serine protease that plays an important role in the classical and alternative complement pathways where it cleaves C4b and C3b components of C3 and C5 convertases. The encoded preproprotein undergoes proteolytic processing to generate an active, disulfide-linked heterodimeric enzyme comprised of heavy and light chains. [provided by RefSeq, Jul 2016]

Product images:



Circular map for MR216342