

## Product datasheet for **TP316645M**

### Factor I (CFI) (NM\_000204) Human Recombinant Protein

#### Product data:

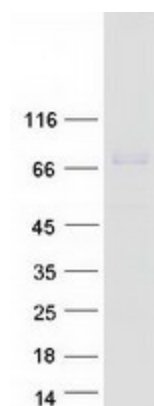
|                                       |  |
|---------------------------------------|--|
| Product Type:                         | Recombinant Proteins   |
| Description:                          | Recombinant protein of human complement factor I (CFI), 100 µg   |
| Species:                              | Human  |
| Expression Host:                      | HEK293T  |
| Expression cDNA Clone or AA Sequence: | >RC216645 representing NM_000204<br><b>Red</b> =Cloning site <b>Green</b> =Tags(s)   |
|                                       | <p>MKLLHVFLFLCFHLRFCKVTYTSQEDLVEKKCLAKKYTHLSCDKVFCQPWQRCIEGTCVCKLPYQCPKN<br/>GTAVCATNRRSFPTYCQKSLECLHPGTKFLNNGTCTAEGKFSVSLKHGNTDSEGIVEVKLVDQDKTMFI<br/>CKSSWSMREANVACLDLGFQQGADTQRRFKLSDSLINSTECLHVHCRGLETSLAECTFTKRRTMGYQDFA<br/>DVVCYTQKADSPMDDFFQCVNGKYISQMKACDGINDCGDQSDCLCKACQGKGFHCKSGVCIPSQYQC<br/>NG<br/>EVD CITGEDEVGCAGFASVAQEETEILTADMDAERRRIKSLPKLSCGVKNRMHIRRKRIVGGKRAQLGD<br/>LPWQVAIKDASGITCGGIYIGGCWILTAACHLRASKTHRYQIWTTVVDWIHPDLKRIVIEYVDRIIFHEN<br/>YNAGTYQNDIALIEMKKDGNKKDCELPSPACVPWSPYLFQPNDCIVSGWGREGDNERNVSLQWGEVK<br/>LISNCSKFYGNRFYEKEMECAGTYDGSIDACKGDSGGPLVCMDANNVTYVWGVVSWGENCGKPEFPGVY<br/>T<br/>KVANYFDWISYHVGRPFISQYNV</p> <p><b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b></p> |
| Tag:                                  | C-Myc/DDK  |
| Predicted MW:                         | 63.4 kDa   |
| Concentration:                        | >0.05 µg/µL as determined by microplate BCA method   |
| Purity:                               | > 80% as determined by SDS-PAGE and Coomassie blue staining  |
| Buffer:                               | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol   |
| Preparation:                          | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.   |
| Note:                                 | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.   |
| Storage:                              | Store at -80°C.  |



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| <b>Stability:</b>        | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.  |
| <b>RefSeq:</b>           | <u>NP_000195</u>   |
| <b>Locus ID:</b>         | 3426   |
| <b>UniProt ID:</b>       | <u>P05156</u>  |
| <b>RefSeq Size:</b>      | 1963   |
| <b>Cytogenetics:</b>     | 4q25   |
| <b>RefSeq ORF:</b>       | 1749   |
| <b>Synonyms:</b>         | AHUS3; ARMD13; C3b-INA; C3BINA; FI; IF; KAF  |
| <b>Summary:</b>          | This gene encodes a serine proteinase that is essential for regulating the complement cascade. The encoded preproprotein is cleaved to produce both heavy and light chains, which are linked by disulfide bonds to form a heterodimeric glycoprotein. This heterodimer can cleave and inactivate the complement components C4b and C3b, and it prevents the assembly of the C3 and C5 convertase enzymes. Defects in this gene cause complement factor I deficiency, an autosomal recessive disease associated with a susceptibility to pyogenic infections. Mutations in this gene have been associated with a predisposition to atypical hemolytic uremic syndrome, a disease characterized by acute renal failure, microangiopathic hemolytic anemia and thrombocytopenia. Primary glomerulonephritis with immune deposits and age-related macular degeneration are other conditions associated with mutations of this gene. [provided by RefSeq, Dec 2015] |
| <b>Protein Families:</b> | Druggable Genome, Protease, Secreted Protein   |
| <b>Protein Pathways:</b> | Complement and coagulation cascades  |

### Product images:



Coomassie blue staining of purified CFI protein (Cat# [TP316645]). The protein was produced from HEK293T cells transfected with CFI cDNA clone (Cat# [RC216645]) using MegaTran 2.0 (Cat# [TT210002]).