

## Product datasheet for **RG214085**

### MHF1 (CENPS) (NM\_198544) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** MHF1 (CENPS) (NM\_198544) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** MHF1  
**Synonyms:** APITD1; APITD1-CORT; CENP-S; CENPS; FAAP16; MHF1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG214085 representing NM\_198544  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGATCGCC

ATGGAGGAGGAGGCGGAGACCGAGGAGCAGCAGCGATTCTTTACCAACAGAGGCTAAAGGCAGCAGTTC  
 ACTATACTGTGGTTGTCTTTGCGAGGAAGTTCATTGGACAAAGAGATGCAGTTCAGCAACAGACCAT  
 TCGCGCCATTTTCGAGCTGACTTTCCGACAGTGTGAAAATTTGCCAAAGACCTTGAAATGTTTGAAGA  
 CATGCGAAAAGAACCACAATTAACACTGAAGATGTGAAGCTCTTAGCCAGGAGGAGTAATTCAGTGCATA  
 TGCAGGAAGCGGCAGGAATAAGGAAAAGCAGCCTCCTGACTTTCCTCGCTTGGTGGTTTGAAGTGGACCTC  
 CCAGGCCAGTGCCGGGCCCTCATAGGAGAGGAAGCCCGGAGGTGGCCAGGCGGCAGGAAGGCGCACCC  
 CCCCAGCAATCTGCGCGCCGGGACAGAATGCCCTGCAGGAACCTCTTCTGGAAGACCTTCTCCTCTGCA  
 AA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG214085 representing NM\_198544  
Red=Cloning site Green=Tags(s)

MEEAEETEEQQRFSYQQLKAAVHYTVGCLCEEVALDKEMQFSKQTIAAISELTFRQCENFAKDLEMFAR  
 HAKRTTINTEDVKLLARRSNSLHMQEAAGIRKSSLLTFLAWFEWTSQASAGPLIGEEAREVARRQEGAP  
 PQQSARRDRMPCRNFFWKTFSSCK

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI



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## Cloning Scheme:



ACCN: NM\_198544

ORF Size: 492 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\\_198544.4](#)

RefSeq Size: 1469 bp

RefSeq ORF: 495 bp

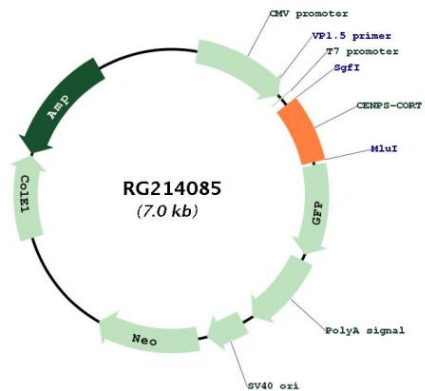
Locus ID: 100526739

UniProt ID: [Q8N2Z9](#)

**Cytogenetics:** 1p36.22

**Gene Summary:** This locus represents naturally occurring read-through transcription between the neighboring APITD1 (apoptosis-inducing, TAF9-like domain 1) and CORT (cortistatin) genes. Alternative splicing results in multiple transcript variants, two of which encode fusion proteins that share sequence identity with the products of each individual gene. [provided by RefSeq, Aug 2011]

## Product images:



Circular map for RG214085