

## Product datasheet for **RG228525**

### CHFR (NM\_001161345) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CHFR (NM_001161345) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CHFR
Synonyms:	RNF116; RNF196
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG228525 representing NM\_001161345  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGCGGCCGAGGAAGGCAAGCAGTCGCCGCCGCGAGCCCTGGGGACGGCTCCTGCGTCTGGGCG  
 CGGAGGAGGGCGAGCCGACGTCCTCCTGAGGAAGCGGGAGTGGACCATCGGGCGGAGACGAGGTTGCGA  
 CCTTTCCTTCCCCAGCAATAAACTGGTCTCTGGAGATCACTGTAGAATTGTAGTGGATGAAAAATCAGGT  
 CAGGTGACACTGGAAGATACCAGCACCAGTGGAACAGTGATTAACAAGCTGAAGGTTGTTAAGAAGCAGA  
 CATGCCCTTACAGACTGGGGATGTCATCTACTTGGTGTACAGGAAGAATGAACCGGAACACAACGTGGC  
 ATACCTCTATGAATCTTTAAGTAAAAGCAAGGCATGACACAAGAATCCTTTGAAGCTAACAAAGGAAAAAT  
 GTGTTCCATGGGACCAAGATACCTCAGGTGCAGGTGCAGGGCGAGGGGCCGATCCCCGGTCCCTCCGT  
 CGTCGCCCCCACTCAGGTGTGCTTTGAGGAACCACAGCCATCAACATCGACGTCAGACCTTTCCCCAC  
 AGCCTCGGCCTTCCACGGAGCCTTCTCCTGCAGGGCGAGAGCGTTCCCTCAGTTGTGGGTCTGGGGT  
 GGTGGCATCTCCCTAAAGGAAGTGGTCCCTCTGTGGCAAGTGTGAAGTCTCCAGCTTTGCCTCAGCTC  
 TCCCAGACAGAAAGACTGCGTCCTTTTCGTGCTTGAACCCAGGATCAGGAGGATTTGGAGCCCGTGAA  
 GAAGAAAATGAGAGGAGATGGGGACCTTGACCTGAACGGGCGAGTTGTTGGTGCACAACCCGCTAGAAAAT  
 GCCCAAACCGTCCACGAGGACGTCAGAGCAGCGGCTGGGAAGCCAGACAAGATGGAGGAGACGCTGACAT  
 GCATCATCTGCCAGGACCTGCTGCACGACTGCGTGAGTTTGCAGCCCTGCATGCACACGTTCTGCGCGGC  
 TTGCTACTCGGGCTGGATGGAGCGCTCGTCCCTGTGCTACCTGCCGCTGTCCCGTGGAGCGGATCTGT  
 AAAAACCATCCTCAACAACCTCGTGAAGCATACCTCATCCAGCATCCAGACAAGAGTCGCAGTGAAG  
 AAGATGTGCAAAAGTATGGATGCCAGGAATAAAATCACTCAAGACATGCTGCAGCCCAAAGTCAGGCGGTC  
 TTTTTCTGATGAAGAAGGGAGTTTCAGAGGACCTGCTGGAGCTGTCAGACGTTGACAGTGAGTCTCAGAC  
 ATTAGCCAGCCATACGTCGTGTGCCGGCAGTGTCTGAGTACAGAAGGCAGGCGGCGCAGCCTCCCCACT  
 GCCCAGCACCCGAGGGCGAGCCAGGAGCCACAGGCCCTGGGGGATGCACCCTCCACGTCGCTCAGCCT  
 GACGACAGTCCAGGATTACGTGTGCCCTCTGCAAGGAAGCCACGCCCTGTGCACCTGCTGCTTCCAGCCC  
 ATGCCCGACCCGAGAGCGGAGCGGAGCAGGACCCGCGTGTGCCCTCAGCAGTGTGCGGTCTGCCTGC  
 AGCCTTCTGCCACCTGTACTGGGGCTGCACCCGACCGGCTGCTACGGTGCCTGGCCCCGTTTTGTGA  
 GCTCAACCTGGGTGACAAGTGTCTGGACGGCGTGTGAACAACAACAGCTACGAGTCAGACATCCTGAAG  
 AATTACCTGGCAACCAGAGGTTTGACATGGAAAAACATGTTGACCGAGAGCCTCGTGGCTCTCCAGCGGG  
 GAGTGTCTGCTGTCTGATTACAGAGTCACGGGAGACACCGTTCTGTGTTACTGCTGTGGCCTGCGCAG  
 CTTCCGTGAGCTGACCTATCAGTATCGGAGAACATTCCTGCTTCCGAGTTGCCAGTGGCCGTAACATCC  
 CGTCTGACTGCTACTGGGGCCGTAACCTGCCGCACTCAGGTGAAAAGCTCACCACGCCATGAAATTAATC  
 ATATCTGTGAACAGACAAGGTTCAAAAAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG228525 representing NM\_001161345  
 Red=Cloning site Green=Tags(s)

```
MERPEEGKQSPPPQPWGRLLRLGAEEGEPHVLLRKREWTIGRRRGCDL SFPSNKL VSGDHCRIVVDEKSG
QVTLEDTSTSGTVINKLKVVKKQTCPLQTDGVIYL VYRKNPEHNVAYL YESLSEKQGMQTQESFEANKEN
VFHGKDTSGAGAGRGADPRVPPSSPATQVCFEEPQPSTSTSDLFPTASASSTEPSPAGRERSSSCGSGG
GGISPKGSGPSVASDEVSSFASALPDRKTASFSSLEPQDQEDLEPVKKKMRGDGDL DLNGQLLVAQPRRN
AQTVHEDVRAAAGKPKMEETLTCIICQDLLHDCVSLQPCMH TFAACYSGWMERSSLCPTCRCPVERIC
KNHILNNLVEAYLIQHPDKSRSEEDVQSM DARNKITQDMLQPKVRRSF SDEEGSSEDLLELSDVDSESSD
ISQPYVVCRQCPEYRRQAAQPPHCPAPEGEPGAPQALGDAPSTSVSLTTVQDYVCP LQGSHALCTCCFPQ
MPDRRAEREQDPRVAPQQCAVCLQPFCHLYWGCTRTGCGYCLAPFCELN LGDKCLDGVLNNSYESDILK
NYLATRGLTWKNMLTESLVALQRGVFLLSDYRVTGDTVLCYCCGLRSFRELTYQYRQNI PASELPAVAVTS
RPDCYWGRNCRTQVKAHHAMKFNHICEQTRFKN
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001161345

**ORF Size:** 1989 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\\_001161345.1](#), [NP\\_001154817.1](#)

**RefSeq Size:** 3288 bp

**RefSeq ORF:** 1992 bp

**Locus ID:** 55743

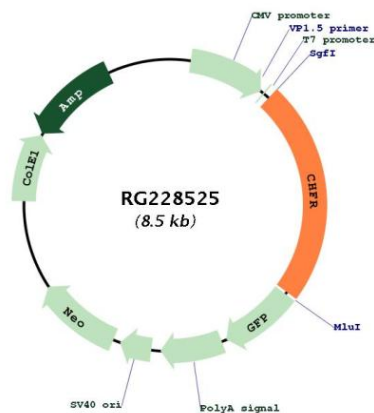
**UniProt ID:** [Q96EP1](#)

**Cytogenetics:** 12q24.33

**Protein Families:** Druggable Genome

**Gene Summary:** This gene encodes an E3 ubiquitin-protein ligase required for the maintenance of the antepause checkpoint that regulates cell cycle entry into mitosis and, therefore, may play a key role in cell cycle progression and tumorigenesis. The encoded protein has an N-terminal forkhead-associated domain, a central RING-finger domain, and a cysteine-rich C-terminal region. Alternatively spliced transcript variants that encode different protein isoforms have been described. [provided by RefSeq, Mar 2014]

## Product images:



Circular map for RG228525