

Product datasheet for **RG228984**

CHFR (NM_001161346) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CHFR (NM_001161346) 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:

>RG228984 representing NM_001161346
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGCGGCCGAGGAAGCAAGCAGTCGCCGCCGCGAGCCCTGGGACGGCTCCTGCGTCTGGGCG
 CGGAGGAGGGCGAGCCGACGTCCTCCTGAGGAAGCGGGAGTGGACCATCGGGCGGAGACGAGGTTGCGA
 CCTTCTCCTCCAGCAATAAACTGGTCTCTGGAGATCACTGTAGAATTGTAGTGGATGAAAAATCAGGT
 CAGGTGACACTGGAAGATACCAGCACCAGTGAACAGTGATTAACAAGCTGAAGGTTGTTAAGAAGCAGA
 CATGCCCTTACAGACTGGGGATGTCATCTACTTGGTGTACAGGAAGAATGAACCGGAACACAACGTGGC
 ATACCTCTATGAATCTTTAAGTAAAAGCAAGGCATGACACAAGAATCCTTTGATACCTCAGGTGCAGGT
 GCAGGGCGAGGGGCCGATCCCCGGTCCCTCCGTCGTCGCCGCCACTCAGGTGTCTTTGAGGAACCAC
 AGCCATCAACATCGACGTCAGACCTTTCCCCACAGCCTCGGCCCTTTCCACGGAGCCTTCTCCTGCAGG
 GCGAGAGCGTTTCTCCAGTTGTGGGTCTGGGGTGGTGGCATCTCCCTAAAGGAAGTGGTCCCTCTGTG
 GCAAGTGATGAAGTCTCCAGTTTGCCTCAGCTCTCCAGACAGAAAGACTGCGTCTTTTCGTCGTTGG
 AACCCAGGATCAGGAGGATTTGGAGCCGTGAAGAAGAAAATGAGAGGAGATGGGGACCTTGACCTGAA
 CGGGCAGTTGTTGGTCGACAACCCGCTAGAAATGCCCAAACCGTCCACGAGGACGTGAGCAGCGGCT
 GGAAGCCAGACAAGATGGAGGAGACGCTGACATGCATCATCTGCCAGGACCTGCTGCACGACTGCGTGA
 GTTTGCAGCCCTGCATGCACACGTTCTGCGCGGCTTGCTACTCGGGTGGATGGAGCGCTCGTCCCTGTG
 TCCTACCTGCCGCTGTCCCGTGGAGCGGATCTGTAAAACACATCCTCAACAACCTCGTGAAGCATA
 CTCATCCAGCATCCAGACAAGAGTCGCAGTGAAGAAGATGTGCAAAGTATGGATGCCAGGAATAAAATCA
 CTAAGACATGCTGCAGCCAAAGTCAGGCGGCTTTTTCTGATGAAGAAGGGAGTTCAGAGGACCTGCT
 GGAGCTGTGAGACGTTGACAGTGAAGTCCCTCAGACATTAGCCAGCCATACGTCGTTGCGCCGAGTCTCT
 GAGTACAGAAGGCAGGGCGCAGCCTCCCCACTGCCAGCACCCGAGGGCGAGCCAGGAGCCCCACAGG
 CCCTGGGGATGCACCCTCCACGTCGCTCAGCCTGACGACAGCAGTCCAGGATTACGTGTGCCCTCTGCA
 AGGAAGCCACGCCCTGTGCACCTGCTGCTTCCAGCCATGCCGACCGGAGAGTGGAGCGCAGCAGGAC
 CCGCGTGTGCCCCCTCAGCAGTGTGCGGCTGCTGCAGCCTTTCTGCCACCTGTACTGGGGCTGCACCC
 GGACCGGCTGCTACGGCTGCCTGGCCCCGTTTTGTGAGCTCAACCTGGGTGACAAGTGTCTGGACGGCGT
 GCTGAACAACAACAGCTACGAGTCAGACATCCTGAAGAATTACCTGGCAACCAGAGGTTTGACATGGAAA
 AACATGTTGACCGAGAGCCTCGTGGCTTCCAGCGGGGAGTGTCTGCTGTCTGATTACAGAGTACCGG
 GAGACACCGTTCTGTGTTACTGCTGTGGCTGCGCAGCTTCCGTGAGCTGACCTATCAGTATCGGCAGAA
 CATTCTGCTTCCGAGTTGCCAGTGGCCGTAACATCCCGTCTGACTGCTACTGGGGCCGTAACCTGCCG
 ACTCAGGTGAAAGCTCACCACGCCATGAAATTCATATCTGTGAACAGACAAGGTTCAAAAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG228984 representing NM_001161346
 Red=Cloning site Green=Tags(s)

MERPEEGKQSPPPQPWGRLRLGAEEGEPHLLRKREWTIGRRRGCDLFFPSNKLVS GDHCRIVVDEKSG
 QVTLEDTSTSGTVINKLKVVKKQTCPLQTDVVIYLVYRKNEPEHNVAAYLYESLSEKQGMTQESFDTSGAG
 AGRGADPRVPPSPATQVCFEEPQPSTSTSDLFPTASASSTEPSPAGRERSSSCGSGGGI SPKGSGPSV
 ASDEVSSFASALPDRKTASFSSLEPQDQEDLEPVKKMRGDGDLNLNGQLLVAQPRRNAQT VHDVRAAA
 GKPDKMEETLTCIICQDLLHDCVSLQPCMHFTCAACYSGWMERSLCPTRCPVERICKNHILNNLVEAY
 LIQHPDKSRSEEDVQSM DARNKITQDMLQPKVRRSF SDEEGSSEDLLELSDVDSESSDISQPYVVC RQCP
 EYRRQAAQPPHCPAPEGEPGAPQALGDAPSTSVSLTTAVQDYVCP LQGS HALCTCCFPMPDRRVEREQD
 PRVAPQQCAVCLQPFCHLYWGCTRTGCGYCLAPFCELNLGDKCLDGVLNNSYESDILKNYLATRGLTWK
 NMLTESLVALQRGVFLLSDYRVTDVTLCYCCGLRSFRELTYQYRQNI PASELPVAVTSRPDCYWGRNCR
 TQVKAHHAMKFNHICEQTRFKN

TRTRPLE - GFP Tag - V

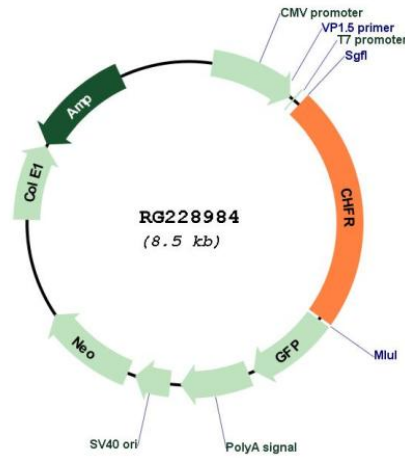
Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001161346

ORF Size: 1956 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:	<ol style="list-style-type: none">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_001161346.1 , NP_001154818.1
RefSeq Size:	3255 bp
RefSeq ORF:	1959 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 antephasis 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]