

Product datasheet for **RG228465**

CHFR (NM_001161347) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CHFR (NM_001161347) 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:

>RG228465 representing NM_001161347
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGCGGCCGAGGAAGCAAGCAGTCGCCGCCGCGAGCCCTGGGACGGCTCCTGCGTCTGGCG
 CGGAGGAGGGCGAGCCGACGTCCTCCTGAGGAAGCGGGAGTGGACCATCGGGCGGAGACGAGGTTGCGA
 CCTTCTCCTCCAGCAATAAACTGGTCTCTGGAGATCACTGTAGAATTGTAGTGGATGAAAAATCAGGT
 CAGGTGACACTGGAAGATACCAGCACCAGTGAACAGTGATTAACAAGCTGAAGGTTGTTAAGAAGCAGA
 CATGCCCTTACAGACTGGGGATGTCATCTACTTGGTGTACAGGAAGAATGAACCGGAACACAGGTCCTGG
 GGGTGGTGGCATCTCCCCTAAAGGAAGTGGTCCCTCTGTGGCAAGTGATGAAGTCTCCAGCTTTCCTCA
 GCTCTCCAGACAGAAAGACTGCGTCTTTTCGTCGTTGGAACCCAGGATCAGGAGGATTTGGAGCCCG
 TGAAGAAGAAAAAGAGAGGAGATGGGGACCTTGACCTGAACGGGCAGTTGTTGGTCGCACAACCCGCTAG
 AAATGCCCAAACCGTCCACGAGGACGTCAGAGCAGCGGCTGGGAAGCCAGACAAGATGGAGGAGACGCTG
 ACATGCATCATCTGCCAGGACCTGCTGCAGACTGCGTGAGTTTGCAGCCCTGCATGCACAGGTTCTGCG
 CGGCTTGCTACTCGGGCTGGATGGAGCGCTCGTCCCTGTGTCCTACCTGCCGCTGTCCCCTGGAGCGGAT
 CTGAAAAACCATCCTCAACAACCTCGTGGAAGCATACCTCATCCAGCATCCAGACAAGAGTCGCACT
 GAAGAAGATGTGCAAAAGTATGGATGCCAGGAATAAAATCACTCAAGACATGCTGCAGCCAAAGTCAGGC
 GGTCTTTTTCTGATGAAGAAGGGAGTTCAGAGGACCTGCTGGAGCTGTGACAGCTTGACAGTGTGCTCCT
 AGACATTAGCCAGCCATACGTCGTGTGCCGGCAGTGTCTGAGTACAGAAGGCAGCGCGCAGCCCTCCC
 CACTGCCAGCACCCGAGGGCGAGCCAGGAGCCACAGGCCCTGGGGGATGCACCCTCCACGTCGGTCA
 GCCTGACGACAGCAGTCCAGGATTACGTGTGCCCTCTGCAAGGAAGCCACGCCCTGTGCACCTGTGCTT
 CCAGCCCATGCCGACCCGAGAGCGGAGCGAGCAGGACCCGCGTGTGCGCCCTCAGCAGTGTGCGGTC
 TGCTGCAGCCTTCTGCCACCTGTACTGGGGCTGCACCCGACCGGCTGCTACGGCTGCTGGCCCGT
 TTTGTGAGCTCAACCTGGGTGACAAGTGTCTGGACGGCGTGTGAACAACAACAGCTACGAGTACAGACAT
 CCTGAAGAATTACCTGGCAACCAGAGGTTTGCATGGAAAAACATGTTGACCGAGAGCCTCGTGGCTCTC
 CAGCGGGGAGTGTCTGCTGTCTGATTACAGAGTACAGGGAGACACCGTTCTGTGTTACTGCTGTGGCC
 TGCGCAGCTTCCGTGAGCTGACCTATCAGTATCGGCAGAACATTCCTGCTCCGAGTTGCCAGTGGCCGT
 AACATCCCGTCTGACTGCTACTGGGGCCGTAAGTCCGCACTCAGGTGAAAGCTACCACGCCATGAAA
 TTCAATCATATCTGTGAACAGACAAGGTTCAAAAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG228465 representing NM_001161347
 Red=Cloning site Green=Tags(s)

MERPEEGKQSPPPQPWGRLRLGAEEGEPHVLLRKREWTIGRRRGCDLFFPSNKLVS GDHCRIVVDEKSG
 QVTLEDSTSGTVINKLKVVKQTCPLQTDVILVYRKNPEHRSGGGISPKGSGPSVASDEVSSFAS
 ALPDRKTASFSSLEPDQEDLEPVKKMRGDGDLNLNGQLLVAQPRRNAQTVHEDVRAAAGPKDKMEETL
 TCIIQDQLLHDCVSLQPCMHFCAACYSWMMERSLCPTRCPVERICKNHILNLLVEAYLIQHPDKSRS
 EEDVQSM DARNKITQDMLQPKVRRSF SDEEGSSEDLLELSDVDESSDISQPYVVCRCQPEYRRAAQP
 HCPAPEGEPGAPQALGDAPSTSVSLTTAVQDYVCPLQGS HALCTCCFQMPDRRAEREQDPRVAPQCAV
 CLQPFCHLYWGCTRTGCGCLAPFCELNLGDKCLDGV LNNNSYESDILKNYLATRGLTWKNMLTESLVAL
 QRGVFLLSDYRVTGDTVLCYCCGLRSFRELTYQYRQNI PASELPVAVTSRPDCYWGRNCR TQVKAHHAMK
 FNHICEQTRFKN

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

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_001161347.1 , NP_001154819.1
RefSeq Size:	3015 bp
RefSeq ORF:	1719 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]