

Product datasheet for **MR230821**

Chfr (NM_001289577) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chfr (NM_001289577) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Chfr
Synonyms:	5730484M20Rik; C230082M18; RNF116
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR230821 representing NM_001289577
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGCTACACGGGAAGAGCAGCCGCCGCCGAGGAACCTGGGGGAGGCTTCTTCGTCTAGGCG
 CAGAGGAGGACGAACCCAGATCCTTTTGGAAACGCGAGTGGACCATCGGAAGGAGGAGAGGCTGTGA
 CCTCTCTTTCCCAAGCAATAAACTGGTCTCTGGAGATCACTGTAACCTACAGTGGATGAAATATCTGGT
 GAGGTGACACTGGAAGACACCAGCACCAATGGAACAGTATCAATAAGCTGCAAGTTGTTAAGAAGCAGA
 CTTACCCTTTACAGAGCGGGATATCATCTATTTGGTGTACAGGAAGAATGAGCCAGAACAATGTGGC
 ATACCTCTATGAATCTTTAAGTGGCAAACAGAGCTTAACTCAAGACTCCCTTGAAGCCAATAAGGAAAAT
 ATGTTCCATGTGACCAAGATTGCTCAGGTCCAGGGCAGGGTGTATGATCCCCAGTTTCCACTATTGTCAC
 CCATGGCTCAGACATGCTTAGAGGAACACAGCCATCAACATCGACATCAGACCTCTCCCACGGCCTC
 TACCTCTTCTACGGAGCCAGAGCTGACCTCTGCAGGGCAAAGCATTCTTCTAGCTCTGGACCTGGGAAC
 ACAAGCATCTCCCAAAAAGGACGCGATTCCTTGTGGAAATGGCGAACTCTCTAGCCTTTCTCCAGTTT
 TCCAAGACAAAGAAGCATCCTTTTCTTTGCTGGAAAGTAAAGACCATGAGGAATTGGAGCCTGCCAAAAA
 AAAGATGAAAGGAGATGGGGAACCTTGACACGAACCTCCAGTTATTAGTTTCAGGCCAGCGTGAAATGCC
 CAAACCTCAAGTGAAGATGTCAAAGATGCCTCTGTGAAGCCAGACAAGATGGAGGAGACACTAACCTGTA
 TCATCTGCCAGGACCTTCTGCAGATTGTGTGAGTTTGCAGCCTTGTATGCACACATTTTGTGCGGCTTG
 CTACTCTGGTTGGATGGAGCGTTCATCTCTGTGCCCTACCTGCCGATGTCCAGTGGAGCGGATTTGCAA
 AACCACATCCTGAACAACCTAGTGAAGCATACCTTATCCAGCACCCAGATAAAAGTCCGAGTGAAGAAG
 ATGTGAGAAGTATGGATGCAAGGAATAAAATCACTCAAGATATGCTGCAACCCAAAGTCAGGAGTCTTT
 CTCTGATGAAGAGGGGAGTTTCAGAGGACCTGCTAGAGCTGTCTGATGTCGACAGTGAATCCTCAGATATC
 AGTCAGCCATACATTGTCTGCAGACAGTGTCTGAATACAGAAGGCAAGCGGTGCAGTCTTTCCTTGCC
 CAGTCCCAGAGAGTGAGCTGGGAGCTACACTGGCCCTTGGTGGGAGGCACCTTCAACATCTGCCAGCTT
 GCCAACAGCAGCCCCGGATTACATGTGCCCTTCAAGGAAGCCATGCCATATGCACCTGCTGCTTCCAG
 CCTATGCCTGACCGGAGAGCTGAACGGGAGCAGGATCCCCGCGTCGCCCCCTCAGCAGTGTGCGGTGTGCC
 TGCAGCCCTTCTGCCACCTGTACTGGGGCTGCACGAGGACTGGCTGCTTTGGCTGCTTGGCCCCATTCTG
 TGAGCTCAACCTGGGGACAAGTGTGGATGGAGTGTGAACAATAACAATTATGAATCGGACATCCTG
 AAGAATTACCTGGCAACCAGGGTCTGACATGGAAAAGTGTGTTGACAGAGAGTCTCCTGGCTCTGCAGC
 GAGGTGATTTATGCTGTCTGATTACAGAATCACTGGAATACTGTGCTGTGTTACTGCTGTGGTCTGCG
 TAGCTTCCGAGAGCTGACCTACCAGTATCGTCAGAACATTCTGCTTCTGAGTTGCCAGTACTGTAACA
 TCCCGTCTGACTGCTACTGGGGCCGTAAGTGTGCGCACTCAGGTGAAGGCTCACCATGCAATGAAATTCA
 ATCACATCTGTGAGCAACAAGTTCAAGAAC

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR230821 representing NM_001289577
Red=Cloning site Green=Tags(s)

MELHGEEQPPPQEPWGRLLRLGAEDEPQILLWKREWTIGRRRGCDLFFPSNKLVS GDHCKLTVDEISG
 EVTLEDSTNGTVINKLQVVKQTYPLQSGDIIYL VYRKNEPEHNVAYL YESLSGKQSLTQDSLEANKEN
 MFHVTKDCSGPGQDDPQVPLLSPMAQTCLEEQPSTSTSDLLPTASTSSTEPELTSAGQKHSSSSGPGN
 TSI SPKGRSSLVANGELSSLSPVFQDKEASFSLLESKDHEELEPAKKMKGDGELDTNLQLLVSGQRGNA
 QTSSDEVKDASVKPKMEETLTCIICQDLLHDCVSLQPCMHFCAACYSGWMERSLCPTRCPCVERICK
 NHILNNLVEAYLIQHPDKSRSEEDVRSMDARNKITQDMLQPKVRRSF SDEEGSDELLELSDVDSESSDI
 SQPIYIVCRQCPEYRRQAVQSLPCPVPESLGLATLALGGEAPSTSASLPTAAPDYMCPLQGSIAICTCCFQ
 PMPDRAEREQDPRVAPQQCAVCLQPFCHLYWGC TRTGCFCGLAPFCELNLGDKCLDGLVNNNNYESDIL
 KNYLATRGLTWKSVL TESLLALQRGVFMLS DYRITGNTVL CYCCGLRSFRELTYQYRQNI PASELPVTVT
 SRPDCYWGRNCR TQVKAHAMKFNHICEQTRFKN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001289577

ORF Size: 1992 bp

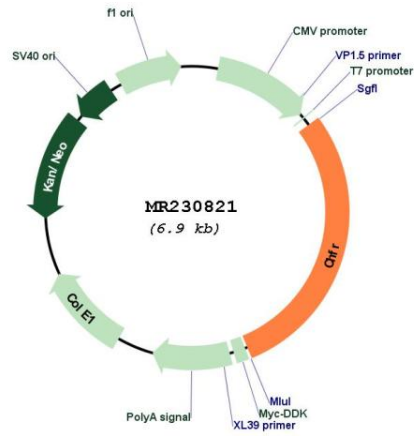
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_001289577.1 , NP_001276506.1
RefSeq Size:	3180 bp
RefSeq ORF:	1995 bp
Locus ID:	231600
UniProt ID:	Q810L3
Cytogenetics:	5 F
MW:	74.3 kDa
Gene Summary:	<p>E3 ubiquitin-protein ligase that functions in the antephasic checkpoint by actively delaying passage into mitosis in response to microtubule poisons. Acts in early prophase before chromosome condensation, when the centrosome move apart from each other along the periphery of the nucleus. Probably involved in signaling the presence of mitotic stress caused by microtubule poisons by mediating the 'Lys-48'-linked ubiquitination of target proteins, leading to their degradation by the proteasome. Promotes the ubiquitination and subsequent degradation of AURKA and PLK1. Probably acts as a tumor suppressor, possibly by mediating the polyubiquitination of HDAC1, leading to its degradation. May also promote the formation of 'Lys-63'-linked polyubiquitin chains and functions with the specific ubiquitin-conjugating UBC13-MMS2 (UBE2N-UBE2V2) heterodimer. Substrates that are polyubiquitinated at 'Lys-63' are usually not targeted for degradation, but are rather involved in signaling cellular stress (By similarity).[UniProtKB/Swiss-Prot Function]</p>

Product images:



Circular map for MR230821