

Product datasheet for **MR230380**

Chfr (NM_001289579) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chfr (NM_001289579) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Chfr
Synonyms:	5730484M20Rik; C230082M18; RNF116
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR230380 representing NM_001289579
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTTCCATGTGACCAAAGATTGCTCAGGTCCAGGGCAGGGTGATGATCCCCAGGTTCCACTATTGTCAC
 CCATGGCTCAGACATGCTTAGAGGAACACAGCCATCAACATCGACATCAGACCTCTCCCACGGCCTC
 TACCTCTTCTACGGAGCCAGAGCTGACCTCTGCAGGGCAAAGCATTCTTCTAGCTCTGGACCTGGGAAC
 ACAAGCATCTCCCCAAAAGGACGCGAGTTCACTTGTGCAAATGGCGAACTCTTAGCCTTTCTCCAGTTT
 TCCAAGACAAAGAAGCATCCTTTTCTTTGCTGGAAAGTAAAGACCATGAGGAATTGGAGCCTGCCAAAA
 AAAGATGAAAGGAGATGGGGAACCTTGACACGAACCTCCAGTTATTAGTTTCAGGCCAGCGTGAAATGCC
 CAAACCTCAAGTGAAGATGTCAAAGATGCCTCTGTGAAGCCAGACAAGATGGAGGAGACACTAACCTGTA
 TCATCTGCCAGGACCTTCTGCAGATTGTGTGAGTTTGCAGCCTTGTATGCACACATTTTGTGCGGCTTG
 CTACTCTGGTTGGATGGAGCGTTTCTCTGTGCCCTACCTGCCGATGTCCAGTGGAGCGGATTTGCAAA
 AACCACATCCTGAACAACCTAGTGAAGCATACCTTATCCAGCACCCAGATAAAAAGTCGAGTGAAGAAG
 ATGTGAGAAGTATGGATGCAAGGAATAAAATCACTCAAGATATGCTGCAACCCAAAGTCAGGAGGCTTT
 CTCTGTGAAGAGGGGAGTTTCAAGGACCTGCTAGAGCTGTCTGTATGTCGACAGTGAATCCTCAGATATC
 AGTCAGCCATACATTGTCTGCAGACAGTGTCTGAATACAGAAGGCAAGCGGTGCAGTCTCTTCTTGGC
 CAGTCCCAGAGAGTGAGCTGGGAGCTACACTGGCCCTTGGTGGGGAGGCACCTTCAACATCTGCCAGCTT
 GCCAACAGCAGCCCCGGATTACATGTGCCCTCTCAAGGAAGCCATGCCATATGCACCTGCTGCTCCAG
 CCTATGCCTGACCGGAGAGCTGAACGGGAGCAGGATCCCCGCGTCGCCCTCAGCAGTGTGCGGTGTCG
 TGCAGCCCTTCTGCCACCTGTACTGGGGCTGCACGAGGACTGGCTGCTTGGCTGCTTGGCCCCATTCTG
 TGAGCTCAACCTGGGGGACAAGTGTGGATGGAGTGTGAACAATAACAATTATGAATCGGACATCCTG
 AAGAATTACCTGGCAACCAAGGGTCTGACATGGAAAAGTGTGTTGACAGAGAGTCTCCTGGCTCTGCAGC
 GAGGTGTATTTATGCTGTCTGATTACAGAATCACTGGAATACTGTGCTGTGTTACTGCTGTGGTCTGCG
 TAGCTTCCGAGAGCTGACCTACCAGTATCGTCAGAACATTCCTGCTTCTGAGTTGCCAGTACTGTAACA
 TCCCGTCTGACTGCTACTGGGGCCGTAAGTGTGCACTCAGGTGAAGGCTCACCATGCAATGAAATTCA
 ATCACATCTGTGAGCAAACAAGTTCAAGAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230380 representing NM_001289579
 Red=Cloning site Green=Tags(s)

MFHVTKDCSGPGQDDPQVPLLSMAQTCLLEPQPSTSTSDLLPTASTSSTEPELTSAGQKHSSSSGPGN
 TSI SPKGRSSLVANGELSSLSPVFQDKEASFSLLESKDHEELEPAKKMKMGDGLDNLQLLVSGQRGNA
 QTSSDEVKDASVKPKMEETLTCIICQDLLHDCVSLQPCMHFTCAACYSGWMERSLCPTRCPVERICK
 NHILNNLVEAYLIQHPDKSRSEEDVRSMDARNKITQDMLQPKVRRSF SDEEGSSEDLLELSDVDESSEDI
 SQPYIVCRQCPEYRRQAVQSLPCVPPESELGATLALGGEAPSTSASLPTAAPDYMCPLOGSHAICTCCFQ
 PMPDRRAEREQDPRVAPQCAVCLQPFCHLYWGCRTGTGCFGLAPFCELNLGDKCLDGVLNNNNYESDIL
 KNYLATRGLTWKSVLTESLLALQRGVFMLS DYRITGNTVLCYCCGLRSFRELTYQYRQNI PASELPVTVT
 SRPDCYWGRNCRQTQVKAHHAMKFNHICEQTRFKN

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

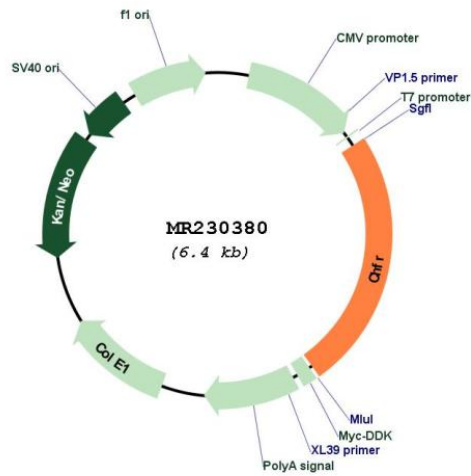
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001289579
ORF Size:	1572 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_001289579.1 , NP_001276508.1
RefSeq Size:	3253 bp
RefSeq ORF:	1575 bp
Locus ID:	231600
UniProt ID:	Q810L3
Cytogenetics:	5 F
MW:	58.4 kDa
Gene Summary:	E3 ubiquitin-protein ligase that functions in the antephasis 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]