

Product datasheet for **MR230611**

Chfr (NM_001289578) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chfr (NM_001289578) 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:

>MR230611 representing NM_001289578
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGCTACACGGGAAGAGCAGCCGCCGCCGAGGAACCCCTGGGGAGGCTTCTTCGTCTAGGCC
 CAGAGGAGGACGAACCCAGATCCTTTCTTTGAAACGCGAGTGGACCATCGGAAGGAGGAGAGGCTGTGA
 CCTCTCTTTCCCAAGCAATAAACTGGTCTCTGGAGATCACTGTAACCTACAGTGGATGAAATATCTGGT
 GAGGTGACACTGGAAGACACCAGCACCAATGGAACAGTATCAATAAGCTGCAAGTTGTTAAGAAGCAGA
 CTTACCCTTTACAGAGCGGGATATCATCTATTTGGTGTACAGGAAGAATGAGCCAGAACAATGTGGC
 ATACCTCTATGAATCTTTAAGTGGCAAACAGAGCTTAACTCAAGACTCCCTTGGACCTGGGAACACAAGC
 ATCTCCCCAAAAGGACGCAGTTCAGTTGTTGCAAATGGCGAACTCTAGCCTTTCTCCAGTTTTCCAAG
 ACAAGAAGCATCTTTTCTTTGCTGAAAAGTAAAGACCATGAGGAATTGGAGCCTGCCAAAAAAGAT
 GAAAGGAGATGGGGAACCTTGACACGAACCTCCAGTTATTAGTTTTCAGGCCAGCGTGGAAATGCCAAACC
 TCAAGTGAAGATGCAAAGATGCCTCTGTGAAGCCAGACAAGATGGAGGAGACACTAACCTGTATCATCT
 GCCAGGACCTTCTGCACGATTGTGTGAGTTTGCAGCCTTGTATGCACACATTTTGTGCGGCTTGCTACTC
 TGGTTGGATGGAGCGTTCATCTCTGTGCCTACCTGCCGATGTCCAGTGGAGCGGATTTGCAAAAACCAC
 ATCCTGAACAACCTAGTGAAGCATACTTATCCAGCACCCAGATAAAAGTCGCAGTGAAGAAGATGTGA
 GAAGTATGGATGCAAGGAATAAAATCACTCAAGATATGCTGCAACCCAAAGTCAGGAGGTCTTCTCTGA
 TGAAGAGGGGAGTTACAGGACCTGCTAGAGCTGTCTGATGTGACAGTGAATCCTCAGATATCAGTCAG
 CCATACATTGTCTGCAGACAGTCTCTGAATACAGAAGCAAGCGGTGCAGTCTCTTCTTCCAGCTGCCAC
 CAGAGAGTGAAGTGGGAGCTACACTGGCCCTTGGTGGGAGGCACCTTCAACATCTGCCAGCTTGCCAAC
 AGCAGCCCGGATTACATGTGCCCTCTTCAAGGAAGCCATGCCATATGCACCTGCTGCTTCCAGCCTATG
 CCTGACCGGAGAGCTGAACGGGAGCAGGATCCCGCGTCCGCCCTCAGCAGTGTGCGGTGTGCTGCAGC
 CCTTCTGCCACCTGACTGGGGCTGCACAGGACTGGCTGCTTTGGCTGCTTGGCCCCATTCTGTGAGCT
 CAACCTGGGGGACAAGTCTTGGATGGAGTGTGAACAATAACAATTATGAATCGGACATCTGAAGAAT
 TACCTGGCAACCAGGGTCTGACATGGAAAAGTGTGTTGACAGAGAGTCTCCTGGCTCTGCACGGAGGTG
 TATTTATGCTGTCTGATTACAGAATCACTGGAAATACTGTGCTGTGTTACTGCTGTGGTCTGCGTAGCTT
 CCGAGAGCTGACCTACCAGTATCGTCAGAACATCCTGCTTCTGAGTTGCCAGTACTGTAACATCCCGT
 CCTGACTGCTACTGGGGCCGTAAGTGTGCACTCAGGTGAAGGCTCACCATGCAATGAAATCAATCACA
 TCTGTGAGCAACAAGGTTCAAGAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230611 representing NM_001289578
 Red=Cloning site Green=Tags(s)

MELHGEEQPPPPQEPWGRLLRLGAEDEPQILLWKREWTIGRRRGCDLFFPSNKLVSGDHCKLTVDEISG
 EVTLEDSTNGTVINKLQVVKQTYPLQSGDIIYLVYRKNEPEHNVAYLYESLSGKQSLTQDSLGPNTS
 ISPKGRSSLVANGELSSLSPVFQDKEASFSLLESKDHEELPAKMKMGDGEDTNLQLLVSGQRGNAQT
 SSEDVKDASVKPDKMEETLTCIICQDLLHDCVSLQPCMHFTCAACYSGWMERSLCPTRCPVERICKNH
 ILNNLVEAYLIQHPDKSRSEEDVRSMDARNKITQDMLQPKVRRSFSEEGSSEDLLELSDVDSESSDISQ
 PYIVCRQCPEYRRQAVQSLPCVPESELGATLALGGEAPSTSASLPTAAPDYMCPAQGSHAICTCCFQPM
 PDRRAEREQDPRVAPQQCAVCLQPFCHLYWGCTRTGCGFCLAPFCELNLGDKCLDGLVNNNNYESDILKN
 YLATRGLTWKSVLTESLLALQRGVFMLS DYRITGNTVLCYCCGLRSFRELTYQYRQNIPIASELPVTVTSR
 PDCYWGRNCRQTQVKAHHAMKFNHICEQTRFKN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-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_001289578.1 , NP_001276507.1
RefSeq Size:	2964 bp
RefSeq ORF:	1779 bp
Locus ID:	231600
UniProt ID:	Q810L3
Cytogenetics:	5 F
MW:	66.8 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]