

Product datasheet for **MC228169**

Chfr (NM_001289579) Mouse Untagged Clone

Product data:

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



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Fully Sequenced ORF: >MC228169 representing NM_001289579
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTTCCATGTGACCAAAGATTGCTCAGGTCCAGGGCAGGGTGATGATCCCCAGGTTCCACTATTGTCAC
CCATGGCTCAGACATGCTTAGAGGAACACAGCCATCAACATCGACATCAGACCTCCTCCCACGGCCTC
TACCTCTTCTACGGAGCCAGAGCTGACCTCTGCAGGGCAAAGCATTCTTCTAGCTCTGGACCTGGGAAC
ACAAGCATCTCCCCAAAAGGACGCGATTCACTTGTGCAAATGGCGAACTCTTAGCCTTTCTCCAGTTT
TCCAAGACAAAGAAGCATCCTTTTCTTTGCTGGAAAGTAAAGACCATGAGGAATTGGAGCCTGCCAAAA
AAAGATGAAAGGAGATGGGGAACCTTGACACGAACCTCCAGTTATTAGTTTCAGGCCAGCGTGAAATGCC
CAAACCTCAAGTGAAGATGTCAAAGATGCCTCTGTGAAGCCAGACAAGATGGAGGAGACACTAACCTGTA
TCATCTGCCAGGACCTTCTGCAGATTGTGTGAGTTTGCAGCCTTGTATGCACACATTTTGTGCGGCTTG
CTACTCTGGTTGGATGGAGCGTTTCTCTGTGCCCTACCTGCCGATGTCCAGTGGAGCGGATTTGCAAA
AACCACATCCTGAACAACCTAGTGAAGCATACCTTATCCAGCACCCAGATAAAAAGTCGAGTGAAGAAG
ATGTGAGAAGTATGGATGCAAGGAATAAAATCACTCAAGATATGCTGCAACCCAAAGTCAGGAGGTCCTT
CTCTGTGAAGAGGGGAGTTTCAAGGACCTGCTAGAGCTGTCTGTATGTCGACAGTGAATCCTCAGATATC
AGTCAGCCATACATTGTCTGCAGACAGTGTCTGAATACAGAAGGCAAGCGGTGCAGTCTCTTCTTCCAG
CAGTCCCAGAGAGTGAGCTGGGAGCTACACTGGCCCTTGGTGGGAGGCACCTTCAACATCTGCCAGCTT
GCCAACAGCAGCCCCGGATTACATGTGCCCTCTCAAGGAAGCCATGCCATATGCACCTGCTGCTTCCAG
CCTATGCCTGACCGGAGAGCTGAACGGGAGCAGGATCCCCGCGTCGCCCTCAGCAGTGTGCGGTGTGCC
TGCAGCCCTTCTGCCACCTGTACTGGGGCTGCAGGAGACTGGCTGCTTGGCTGCTTGGCCCCATTCTG
TGAGCTCAACCTGGGGGACAAGTGTGGATGGAGTGTGAACAATAACAATTATGAATCGGACATCCTG
AAGAATTACCTGGCAACCAAGGGTCTGACATGGAAAAGTGTGTTGACAGAGAGTCTCCTGGCTCTGCAGC
GAGGTGTATTTATGCTGTCTGATTACAGAACTACTGGAATACTGTGCTGTGTTACTGCTGTGGTCTGCG
TAGCTTCCGAGAGCTGACCTACCAGTATCGTCAGAACATTCTGCTTCTGAGTTGCCAGTACTGTAACA
TCCCGTCTGACTGCTACTGGGGCCGTAACCTGTGCACACTCAGGTGAAGGCTCACCATGCAATGAAATTCA
ATCACATCTGTGAGCAAACAAGTTCAAGAACTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001289579

Insert Size: 1575 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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:

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

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]

Transcript Variant: This variant (4) contains an alternate exon in the 5' region and initiates translation at a downstream in-frame start codon, compared to variant 1. The encoded isoform (4) has a shorter N-terminus than isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.