

## Product datasheet for **MC228152**

### Chfr (NM\_001289580) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Chfr (NM_001289580) 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:** >MC228152 representing NM\_001289580  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTTCCATGTGACCAAAGATTGCTCAGGTCCAGGGCAGGGTGATGATCCCCAGGTTCCACTATTGTCAC  
 CCATGGCTCAGACATGCTTAGAGGAACACAGCCATCAACATCGACATCAGACCTCTCCCACGGCCTC  
 TACCTTCTACGGAGCCAGAGCTGACCTCTGCAGGGCAAAGCATTCTTCTAGCTCTGGACCTGGGAAC  
 ACAAGCATCTCCCCAAAAGGACGCACTTCACTTGTGCAAATGGCGAACTCTTAGCCTTTCTCCAGTTT  
 TCCAAGACAAAGAAGCATCCTTTTCTTTGCTGGAAAGTAAAGACCATGAGGAATTGGAGCCTGCCAAAA  
 AAAGATGAAAGGAGATGGGGAACCTTGACACGAACCTCCAGTTATTAGTTTCAGGCCAGCGTGAAATGCC  
 CAAACCTCAAGTGAAGATGTCAAAGATGCCTCTGTGAAGCCAGACAAGATGGAGGAGACACTAACCTGTA  
 TCATCTGCCAGGACCTTCTGCAGATTGTGTGAGTTTGCAGCCTTGTATGCACACATTTTGTGCGGCTTG  
 CTACTCTGGTTGGATGGAGCGTTCATCTCTGTGCCCTACCTGCCGATGTCCAGTGGAGCGGATTTGCAA  
 AACCACATCCTGAACAACCTAGTGAAGCATACCTTATCCAGCACCCAGATAAAAAGTCGAGTGAAGAAG  
 ATGTGAGAAGTATGGATGCAAGGAATAAAATCACTCAAGATATGCTGCAACCCAAAGTCAGGAGGCTTT  
 CTCTGTGAAGAGGGGAGTTTCAAGGACCTGCTAGAGCTGTCTGTATGTCGACAGTGAATCCTCAGATATC  
 AGTCAGCCATACATTGTCTGCAGACAGTGTCTGAATACAGAAGGCAAGCGGTGCAGTCTCTTCTTGGC  
 CAGTCCCAGAGAGTGAGCTGGGAGCTACACTGGCCCTTGGTGGGAGGCACCTTCAACATCTGCCAGCTT  
 GCCAACAGCCCCGGATTACATGTGCCCTTTCAAGGAAGCCATGCCATATGCACCTGTGCTTCCAGCCT  
 ATGCCTGACCGGAGAGCTGAACGGGAGCAGGATCCCCCGTCGCCCTCAGCAGTGTCCGGTGTGCCTGC  
 AGCCCTTCTGCCACCTGTACTGGGGCTGCACGAGGACTGGCTGCTTTGGCTGCTTGGCCCATCTGTGA  
 GCTCAACCTGGGGACAAGTGCTTGGATGGAGTGTGCTGAACAATAACAATTATGAATCGGACATCCTGAAG  
 AATTACCTGGCAACCAGGGTCTGACATGGAAGTGTGTTGACAGAGAGTCTCCTGGCTCTGCAGCGAG  
 GTGATTTATGCTGTCTGATTACAGAATCACTGGAAATACTGTGCTGTGTTACTGCTGTGGTCTGCGTAG  
 CTTCCGAGAGCTGACCTACAGTATCGTCAGAATTCCTGCTTCTGAGTTGCCAGTGAACATCC  
 CGTCTGACTGCTACTGGGGCCGTAACGTGCGCACTCAGGTGAAGGCTCACCATGCAATGAAATTCATC  
 ACATCTGTGAGCAAACAAGGTTCAAGA**ACTGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001289580

**Insert Size:** 1572 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\\_001289580.1](#), [NP\\_001276509.1](#)

**RefSeq Size:** 3347 bp

**RefSeq ORF:** 1572 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 (5) contains an alternate exon in the 5' region, uses an alternate in-frame splice site, and initiates translation at a downstream in-frame start codon, compared to variant 1. The encoded isoform (5) is shorter 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.