

Product datasheet for **MC228610**

Chfr (NM_001289577) Mouse Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Chfr (NM_001289577) 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: >MC228610 representing NM_001289577
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGCTACACGGGAAGAGCAGCCGCCGCCAGGAACCCCTGGGGAGGCTTCTTCGTCTAGGCC
 CAGAGGAGGACGAACCCAGATCCTTTTGGAAACGCGAGTGGACCATCGGAAGGAGGAGAGGCTGTGA
 CCTCTCTTTCCCAAGCAATAAACTGGTCTCTGGAGATCACTGTAACCTTACAGTGGATGAAATATCTGGT
 GAGGTGACACTGGAAGACACCAGCACCAATGGAACAGTATCAATAAGCTGCAAGTTGTTAAGAAGCAGA
 CTTACCCTTTACAGAGCGGGATATCATCTATTTGGTGTACAGGAAGAATGAGCCAGAACAATGTGGC
 ATACCTCTATGAATCTTTAAGTGGCAAACAGAGCTTAACTCAAGACTCCCTTGAAGCCAATAAGGAAAAT
 ATGTTCCATGTGACCAAGATTGCTCAGGTCCAGGGCAGGGTGTATGATCCCCAGGTTCCACTATTGTAC
 CCATGGCTCAGACATGCTTAGAGGAACACAGCCATCAACATCGACATCAGACCTCTCCCACGGCCTC
 TACCTCTTCTACGGAGCCAGAGCTGACCTCTGCAGGGCAAAGCATTCTTCTAGCTCTGGACCTGGGAAC
 ACAAGCATCTCCCAAAAAGGACGAGTTCATTGTTGCAAATGGCGAACTCTCTAGCCTTTCTCCAGTTT
 TCCAAGACAAAGAAGCATCCTTTTCTTTGCTGGAAGTAAAGACCATGAGGAATTGGAGCCTGCCAAAAA
 AAAGATGAAAGGAGATGGGGAACCTTGACACGAACCTCCAGTTATTAGTTTCAGGCCAGCGTGAAATGCC
 CAAACCTCAAGTGAAGATGTCAAAGATGCCTCTGTGAAGCCAGACAAGATGGAGGAGACACTAACCTGTA
 TCATCTGCCAGGACCTTCTGCACGATTGTGTGAGTTTGCAGCCTTGTATGCACACATTTTGTGCGGCTTG
 CTACTCTGGTTGGATGGAGCGTTCATCTCTGTGCCCTACCTGCCGATGTCCAGTGGAGCGGATTTGCAA
 AACCACATCCTGAACAACCTAGTGAAGCATACCTTATCCAGCACCCAGATAAAAAGTCGCAGTGAAGAAG
 ATGTGAGAAGTATGGATGCAAGGAATAAAATCACTCAAGATATGCTGCAACCCAAAGTCAGGAGTCTTT
 CTCTGATGAAGAGGGGAGTTTACAGAGACCTGCTAGAGCTGTCTGATGTCGACAGTGAATCCCTCAGATATC
 AGTCAGCCATACATTGTCTGCAGACAGTGTCTGAATACAGAAGGCAAGCGGTGCAGTCTTTCCTTGCC
 CAGTCCCAGAGAGTGAGCTGGGAGCTACACTGGCCCTTGGTGGGAGGCACCTTCAACATCTGCCAGCTT
 GCCAACAGCAGCCCCGATTACATGTGCCCTCTTCAAGGAAGCCATGCCATATGCACCTGCTGTTCCAG
 CCTATGCCTGACCGGAGAGCTGAACGGGAGCAGGATCCCCGCGTCGCCCCCTCAGCAGTGTGCGGTGTGCC
 TGCAGCCCTTCTGCCACCTGTACTGGGGCTGCACGAGGACTGGCTGCTTGGCTGCTTGGCCCCATTCTG
 TGAGCTCAACCTGGGGACAAGTGTGGATGGAGTGTGAACAATAACAATTATGAATCGGACATCCTG
 AAGAATTACCTGGCAACCAGGGTCTGACATGGAAAAGTGTGTTGACAGAGAGTCTCCTGGCTCTGCAGC
 GAGGTGATTTATGCTGTCTGATTACAGAATCACTGGAATACTGTGCTGTGTTACTGCTGTGGTCTGCG
 TAGCTTCCGAGAGCTGACCTACCAGTATCGTCAGAACATTCTGCTTCTGAGTTGCCAGTACTGTAACA
 TCCCGTCTGACTGCTACTGGGGCCGTAAGTGTGCGCACTCAGGTGAAGGCTCACCATGCAATGAAATTCA
 ATCACATCTGTGAGCAACAAGTTCAAGAACTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI

ACCN: NM_001289577

Insert Size: 1995 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.

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| 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: | <u>NM_001289577.1, NP_001276506.1</u> |
| RefSeq Size: | 3180 bp |
| RefSeq ORF: | 1995 bp |
| Locus ID: | 231600 |
| UniProt ID: | <u>Q810L3</u> |
| Cytogenetics: | 5 F |
| Gene Summary: | <p>E3 ubiquitin-protein ligase that functions in the antepause 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> <p>Transcript Variant: This variant (1) encodes the longest isoform (1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p> |