

## Product datasheet for **MR230363**

### Chfr (NM\_001289580) Mouse Tagged ORF Clone

#### Product data:

|                    |  |
|--------------------|--|
| Product Type:      | Expression Plasmids                        |
| Product Name:      | Chfr (NM_001289580) 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:**

>MR230363 representing NM\_001289580  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGTTCCATGTGACCAAAGATTGCTCAGGTCCAGGGCAGGGTGATGATCCCCAGGTTCCACTATTGTCAC  
 CCATGGCTCAGACATGCTTAGAGGAACACAGCCATCAACATCGACATCAGACCTCTCCCACGGCCTC  
 TACCTCTTCTACGGAGCCAGAGCTGACCTCTGCAGGGCAAAGCATTCTTCTAGCTCTGGACCTGGGAAC  
 ACAAGCATCTCCCCAAAAGGACGCACTTCACTTGTGCAATGGCGAACTCTTAGCCTTTCTCCAGTTT  
 TCCAAGACAAAGAAGCATCCTTTTCTTTGCTGGAAAGTAAAGACCATGAGGAATTGGAGCCTGCCAAAA  
 AAAGATGAAAGGAGATGGGGAACCTTGACACGAACCTCCAGTTATTAGTTTCAGGCCAGCGTGAAATGCC  
 CAAACCTCAAGTGAAGATGTCAAAGATGCCTCTGTGAAGCCAGACAAGATGGAGGAGACACTAACCTGTA  
 TCATCTGCCAGGACCTTCTGCAGATTGTGTGAGTTTGCAGCCTTGTATGCACACATTTTGTGCGGCTTG  
 CTACTCTGGTTGGATGGAGCGTTTCACTCTGTGCCCTACCTGCCGATGTCCAGTGGAGCGGATTTGCAAA  
 AACCACATCCTGAACAACCTAGTGAAGCATACCTTATCCAGCACCCAGATAAAAAGTCGAGTGAAGAAG  
 ATGTGAGAAGTATGGATGCAAGGAATAAAATCACTCAAGATATGCTGCAACCCAAAGTCAGGAGGCTTT  
 CTCTGTGAAGAGGGGAGTTTCAAGGACCTGCTAGAGCTGTCTGTATGTCGACAGTGAATCCTCAGATATC  
 AGTCAGCCATACATTGTCTGCAGACAGTGTCTGAATACAGAAGGCAAGCGGTGCAGTCTTTCCTTGCC  
 CAGTCCCAGAGAGTGAGCTGGGAGCTACACTGGCCCTTGGTGGGGAGGCACCTTCAACATCTGCCAGCTT  
 GCCAACAGCCCCGGATTACATGTGCCCTTCAAGGAAGCCATGCCATATGCACCTGTGCTTCCAGCCT  
 ATGCCTGACCCGGAGAGCTGAACGGGAGCAGGATCCCCCGTCGCCCTCAGCAGTGTGCGGTGTGCCTGC  
 AGCCCTTCTGCCACCTGTACTGGGGCTGCACGAGGACTGGCTGCTTTGGCTGCTTGGCCCATCTGTGA  
 GCTCAACCTGGGGACAAGTGTCTGGATGGAGTGTGAACAATAACAATTATGAATCGGACATCCTGAAG  
 AATTACCTGGCAACCAGGGTCTGACATGGAAGTGTGTTGACAGAGAGTCTCCTGGCTCTGCAGCGAG  
 GTGATTTATGCTGTCTGATTACAGAATCACTGGAAATACTGTGCTGTGTTACTGCTGTGGTCTGCGTAG  
 CTTCCGAGAGCTGACCTACAGTATCGTCAGAACATTCCTGCTTCTGAGTTGCCAGTGAACATCC  
 CGTCTGACTGCTACTGGGGCCGTAACGTGCGCACTCAGGTGAAGGCTCACCATGCAATGAAATTCATC  
 ACATCTGTGAGCAAACAAGGTTCAAGAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR230363 representing NM\_001289580  
 Red=Cloning site Green=Tags(s)

MFHVTKDCSPGQGGDPQVPLLSMAQTCLLEPQPSTSTSDLLPTASTSSTEPELTSAGQKHSSSSGPGN  
 TSI SPKGRSSLVANGELSSLSPVFQDKEASFSLLESKDHEELEPAKKMKMGDGLDNLQLLVSGQRGNA  
 QTSSDEVKDA SVKPKMEETLTCIICQDLLHDCVSLQPCMHFTCAACYSGWMERSLCPTRCPVERICK  
 NHILNNLVEAYLIQHPDKSRSEEDVRSMDARNKITQDMLQPKVRRSF SDEEGSSEDLLELSDVDSESSDI  
 SQPYIVCRQCPEYRRQAVQSLPCPVPESELGATLALGGEAPSTSASLPTAPDYMCP LQGS HAICTCFQP  
 MPDRRAEREQDPRVAPQQCAVCLQPFCHLYWGCTRTGCFGLAPFCELNLGDKCLDGV LNNNNYESDILK  
 NYLATRGLTWKSVL TESLLALQRGVFMLS DYRITGNTVLCYCCGLRSFRELTYQYRQNI PASELPVTVTS  
 RPD CYWGRNCR TQVKAHHAMKFNHICEQTRFKN

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

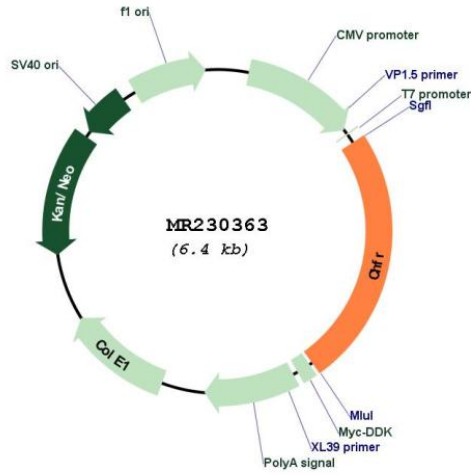
Cloning Scheme:

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

Plasmid Map:



|                               |  |
|-------------------------------|--|
| <b>ACCN:</b>                  | NM_001289580   |
| <b>ORF Size:</b>              | 1569 bp  |
| <b>OTI Disclaimer:</b>        | 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. <a href="#">More info</a>   |
| <b>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.   |
| <b>Components:</b>            | 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).   |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>  |
| <b>RefSeq:</b>                | <a href="#">NM_001289580.1</a> , <a href="#">NP_001276509.1</a>  |
| <b>RefSeq Size:</b>           | 3347 bp  |
| <b>RefSeq ORF:</b>            | 1572 bp  |
| <b>Locus ID:</b>              | 231600   |
| <b>UniProt ID:</b>            | <a href="#">Q810L3</a>   |
| <b>Cytogenetics:</b>          | 5 F  |
| <b>MW:</b>                    | 58.3 kDa   |
| <b>Gene Summary:</b>          | 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] |