

Product datasheet for **SC314239**

CHFR (NM_018223) Human Untagged Clone

Product data:

| | |
|---------------------------|---------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | CHFR (NM_018223) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | CHFR |
| Synonyms: | RNF116; RNF196 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |

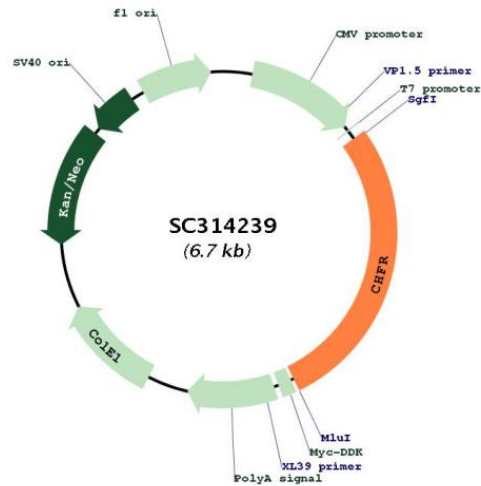


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Fully Sequenced ORF: >SC314239 representing NM_018223.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGAGCGGCCCGAGGAAGGCAAGCAGTCGCCGCCCGCAGCCCTGGGACGGCTCCTGCGTCTGGGC
GCGGAGGAGGGCGAGCCGCAGTCCTCCTGAGGAAGCGGGAGTGGACCATCGGGCGGAGACGAGGTTGC
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AAAAACTAA
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TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI

Plasmid Map:


ACCN: NM_018223

Insert Size: 1872 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: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_018223.2](#)

RefSeq Size: 3168 bp

RefSeq ORF: 1872 bp

Locus ID: 55743

UniProt ID: [Q96EP1](#)

Cytogenetics: 12q24.33

Domains: FHA, RING

Protein Families: Druggable Genome

MW: 69.2 kDa

Gene Summary: This gene encodes an E3 ubiquitin-protein ligase required for the maintenance of the antephasis checkpoint that regulates cell cycle entry into mitosis and, therefore, may play a key role in cell cycle progression and tumorigenesis. The encoded protein has an N-terminal forkhead-associated domain, a central RING-finger domain, and a cysteine-rich C-terminal region. Alternatively spliced transcript variants that encode different protein isoforms have been described. [provided by RefSeq, Mar 2014]
Transcript Variant: This variant (4) lacks an in-frame exon and contains an alternate in-frame exon in the middle portion of the coding region compared to variant 1. This results in a shorter protein (isoform 4) compared to 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.