

# **Product datasheet for RC223674**

## GCHFR (NM 005258) Human Tagged ORF Clone

### **Product data:**

**Product Type:** Expression Plasmids

**Product Name:** GCHFR (NM\_005258) Human Tagged ORF Clone

Tag: Myc-DDK
Symbol: GCHFR

**Synonyms:** GFRP; HsT16933; P35

Mammalian Cell Neomycin

Selection:

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

ORF Nucleotide >RC223674 representing NM\_005258

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGCCCTACCTGCTCATCAGCACCCAGATCCGCATGGAGGTGGGCCCCACTATGGTGGGCGATGAACAGT CGGATCCAGAGCTGATGCAGCATCTGGGGGGCTTCAAAGAGAAGAGCCTTGGGAAACAACTTTTATGAATA CTACGTCGATGACCCTCCCCGCATAGTCCTGGACAAGCTGGAACGCAGGGGCTTCCGTGTGCTGAGCATG

ACGGGGGTGGCCAGACGCTGGTGTGTGTCTGCACAAGGAG

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC

TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC223674 representing NM\_005258

Red=Cloning site Green=Tags(s)

MPYLLISTQIRMEVGPTMVGDEQSDPELMQHLGASKRRALGNNFYEYYVDDPPRIVLDKLERRGFRVLSM

TGVGQTLVWCLHKE

**SGPTRTRRL**EQKLISEEDLAANDILDYKDDDDK**V** 

Chromatograms: <a href="https://cdn.origene.com/chromatograms/mk8116">https://cdn.origene.com/chromatograms/mk8116</a> g07.zip

**Restriction Sites:** Sgfl-Rsrll



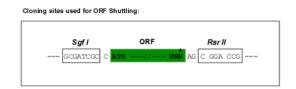
**OriGene Technologies, Inc.** 9620 Medical Center Drive, Ste 200

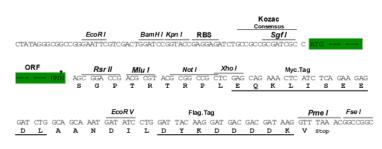
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



#### **Cloning Scheme:**





<sup>\*</sup> The last codon before the Stop codon of the ORF

**ACCN:** NM\_005258

ORF Size: 252 bp

**OTI Disclaimer:** 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. More info

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

**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: <u>NM 005258.3</u>

RefSeq Size: 713 bp RefSeq ORF: 255 bp Locus ID: 2644



 UniProt ID:
 P30047

 Cytogenetics:
 15q15.1

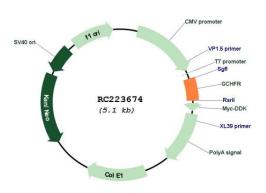
 MW:
 9.5 kDa

**Gene Summary:** GTP cyclohydrolase I feedback regulatory protein binds to and mediates tetrahydrobiopterin

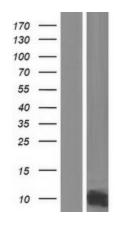
inhibition of GTP cyclohydrolase I. The regulatory protein, GCHFR, consists of a homodimer. It is postulated that GCHFR may play a role in regulating phenylalanine metabolism in the liver and in the production of biogenic amine neurotransmitters and nitric oxide. [provided by

RefSeq, Jul 2008]

### **Product images:**



Circular map for RC223674



Western blot validation of overexpression lysate (Cat# [LY417419]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC223674 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).