

Product datasheet for RC227708

CHAC1 (NM 001142776) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: CHAC1 (NM_001142776) Human Tagged ORF Clone

Myc-DDK Tag: Symbol: CHAC1

Mammalian Cell Neomycin

Selection:

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

>RC227708 representing NM_001142776 **ORF Nucleotide** Red=Cloning site Blue=ORF Green=Tags(s) Sequence:

> TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC **GCCGCGATCGCC**

CCCACGCCGGAGACCAGCCCCGGAGGCCGCCTGGGCCTATCCCTGTGCCAGGCACCATGAAGCAGGAGTC TGCAGCCCGAACACCCCGCCCACCTCGCAGTCCCCTACGCCGTCCGCTCAGTTCCCCCGAAACGACGGC GACCCTCAAGCGCTGTGGATTTTCGGGTACGGCTCCCTGGTGTGGAGGCCCGACTTCGCCTACAGCGACA GCCGTGTGGGCTTCGTGCGCGGCTACAGCCGCCGTTTCTGGCAGGGAGACACCTTCCATCGGGGCAGCGA CAAGATGCCTGGCCGTGTGGCGCCCCTTGAAGATCATGAGGGCTGCACTTGGGGCCGTGGCATACCAA GTGCAAGGGGAGCAGAACCCTGGTTACCTGGGCCCTGCGCCTGAAGAGGCCATTGCCACGCAGATCCTGG CCTGCCGGGGCTTCTCCGGCCACAACCTTGAATACTTGCTGCGTCTGGCAGACTTCATGCAGCTCTGTGG GCCTCAGGCGCAGGACGAGCACCTGGCAGCCATCGTGGACGCTGTGGGCACCATGTTGCCCTGCTTCTGC

CCCACCGAGCAGGCTCTGGCGCTGGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC227708 representing NM_001142776

Red=Cloning site Green=Tags(s)

MGGAQLELPSGARPGVCVRRSFRAHAGDQPRRPPGPIPVPGTMKQESAAPNTPPTSQSPTPSAQFPRNDG DPQALWIFGYGSLVWRPDFAYSDSRVGFVRGYSRRFWQGDTFHRGSDKMPGRVVTLLEDHEGCTWGVAYQ VQGEQNPGYLGPAPEEAIATQILACRGFSGHNLEYLLRLADFMQLCGPQAQDEHLAAIVDAVGTMLPCFC

PTEQALALV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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

CHAC1 (NM_001142776) Human Tagged ORF Clone - RC227708

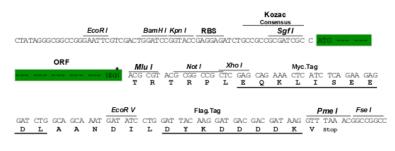
Chromatograms: https://cdn.origene.com/chromatograms/ja1443 g11.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shuttling:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM 001142776

ORF Size: 657 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 001142776.2</u>

 RefSeq ORF:
 534 bp

 Locus ID:
 79094

 Cytogenetics:
 15q15.1



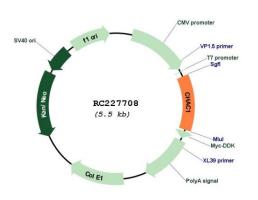
MW:

23.6 kDa

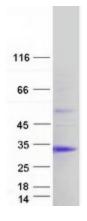
Gene Summary:

This gene encodes a member of the gamma-glutamylcyclotransferase family of proteins. The encoded protein has been shown to promote neuronal differentiation by deglycination of the Notch receptor, which prevents receptor maturation and inhibits Notch signaling. This protein may also play a role in the unfolded protein response, and in regulation of glutathione levels and oxidative balance in the cell. Elevated expression of this gene may indicate increased risk of cancer recurrence among breast and ovarian cancer patients. [provided by RefSeq, Sep 2016]

Product images:



Circular map for RC227708



Coomassie blue staining of purified CHAC1 protein (Cat# [TP327708]). The protein was produced from HEK293T cells transfected with CHAC1 cDNA clone (Cat# RC227708) using MegaTran 2.0 (Cat# [TT210002]).