

Product datasheet for SC301349

CHAC2 (NM_001008708) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CHAC2 (NM_001008708) Human Untagged Clone
Tag:	Tag Free
Symbol:	CHAC2
Synonyms:	GCG1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC301349 representing NM_001008708. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
 GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**
 ATGTGGGTTTTTGGTTACGGGTCCTGATCTGGAAGGTGGATTTCCCTATCAGGACAAGCTGGTCGGA
 TACATCACCAACTACAGCAGGCGCTTCTGGCAGGGCAGCACGGACCACCGGGTCCCCGGCAAGCCT
 GGAAGAGTTGTGACTCTTGTGAAGATCTGCGGGATGTGTATGGGTGTTGCTTACAGATTGCCAGTA
 GGAAAGGAAGAAGTAAAGCATACCTTGACTTCAGAGAAAAGGAGGCTACAGAACCAACAGTC
 ATTTTTATCCAAAGATCCACAACAAACCATTAGTGTATTGCTATATTTGAACATGTGATAAT
 CCTGATTATCTTGGTCTGCACCTCTGGAAGACATTGCTGAACAAATTTTAATGCAGCTGGTCCAAGT
 GGAAGAAATACAGAAATATCTTTTGAAGTTCGAAATTCTATTAGGAACCTGTGCCAGAAGAAGCAGAT
 GAGCATCTTTTCCTTTGGAAAATTAGTAAAGGAACGTTTAGAAGGGAACAGAACCTCAATTGCATA
 TAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001008708
Insert Size:	555 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).


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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:	<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_001008708.2</u>
RefSeq Size:	1305 bp
RefSeq ORF:	555 bp
Locus ID:	494143
UniProt ID:	<u>Q8WUX2</u>
Cytogenetics:	2p16.2
MW:	20.9 kDa
Gene Summary:	<p>The protein encoded by this gene is a gamma-glutamyl cyclotransferase that catalyzes the conversion of glutathione to 5-oxoproline and cysteinylglycine. It is thought that this gene is upregulated in response to endoplasmic reticulum stress and that the glutathione depletion enhances apoptosis. [provided by RefSeq, Sep 2016]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (1).</p>