

Product datasheet for SC101507

CHAC2 (BC025376) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CHAC2 (BC025376) Human Untagged Clone
Tag:	Tag Free
Symbol:	CHAC2
Synonyms:	ChaC, cation transport regulator-like 2; ChaC, cation transport regulator homolog 2 (E. coli)
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for BC025376, the custom clone sequence may differ by one or more nucleotides

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ATGTGGGTTTTTGGTTACGGGTCCTGATCTGGAAGGTGGATTTCCCCTATCAGGACAAGCTGGTCGGAT
ACATACCAACTACAGCAGGCGCTTCTGGCAGGGCAGCACGGACCACGCGGGGTCCCGGCAAGCCTGG
AAGAGTTGTGACTCTTGTGAAGATCCTGCGGGATGTGTATGGGGTGTGCTTACAGATTGCCAGTAGGA
AAGGAAGAAGAAGTAAAGCATACCTTGACTTCAGAGAAAAAGGAGGCTACAGAACCACAACAGTCATTT
TTTATCCAAAAGATCCCACAACAAACCATTCAAGTGTATTGCTATATATTGGAACATGTGATAATCCTGA
TTATCTTGGTCTGCACCTCTGGAAGACATTGCTGAACAAATTTTAATGCAGCTGGTCCAAGTGAAGA
AATACAGAATATCTTTTGAACCTGCAAATTCTATTAGGAACCTTGTCAGAGAAGAAGCAGATGAGCATC
TTTTCGCTTTGAAAAATTAGTAAAGGAACGTTTAGAAGGGAACAGAACCTCAATTGCATATAA
  
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5' Read Nucleotide Sequence:	>OriGene 5' read for BC025376 unedited TCAGAAATTTGNTATACGACTCACTTATAGGGCGGCCGGAATTCGCACGAGGGGCGACA GCTAGGGTTACGGCCACTGGGGCAGAGGAGCCGCGAGAAGAGTGGGTTTTTGGTTACGG GTCCCTGATCTGGAAGGTGGATTCCCCCTATCAGGACAAGCTGGTCGGATACATCACCAA CTACAGCAGGCGCTTCTGGCAGGGCAGCACGGACCACCGCGGGTCCCGGCAAGCCTGG AAGAGTTGTGACTCTTGTGAAGATCCTGCGGGATGTGTATGGGTGTTGCTTACAGATT GCCAGTAGGAAAGGAAGAAGTAAAAGCATACTTGACTTCAGAGAAAAAGGAGGCTA CAGAACCACAACAGTCATTTTTTATCCAAAAGATCCCAACAACAAACCATTCAAGTGATT GCTATATATTGGAACATGTGATAATCCTGATTATCTTGGTCTGCACCTCTGGAAGACAT TGCTGAACAAATTTTAAATGCAGCTGGTCCAAGTGAAGAAATACAGAATATCTTTTGA ACTTGCAAATCTATTAGGAACCTTGTCAGAGAAGAGCAGATGAGCATCTTTTCGCTTT GGAAAAATTAGTAAAGGAACGTTTAGAAGGGAACAGAACCTCAATTGCATATAATTTAG TCTTCAGAGAATTAACCTCAGTGCACAATGACAATATGATTTGGAATACGTTTACTTAA AGATCTTATTTTAAATGTAGTGAGGATATTATTTAACTTTTATTTTAACTGGGAATGTN NCTGAACACATATTTAAATATTGNGATACAGTGAAAGANAATTCANATTTTAAATAACA TAAAGATTTCCTAACTCTATGTTATTGAACACTTACTCACTAGNAGTGAGTTCTTTAGAA AATACAGTGAAGGACTCAGTTCAGTCTTGTATTTATCAAAGTGATATCATCTGTTACAT NCCATACTATTTGAA
3' Read Nucleotide Sequence:	>OriGene 3' read for BC025376 unedited AGTTGGCCATTCTTTATTAAGGATTAGTACAGAACTATAATTCCAAGNAAATTTCTT TTTTTAAAAATGCCAATTTTGGCTAAAACTCAAAGATTTTCAATTAATACTTGAATAA CAAGGAAATTCACAATTAAGGCTGAAATACTGTTCAATATTATTGTGATTTCTAAGCATG TTATTTTAAAGCTTGTGATTTTAACTAAGATAACTGTAAATTGTATAGGAATATATTGAA GGCATAACCTTATATTTATTGGAATTTTGGTTTAAATTGTTTAGAATTTCAAATAGTATT GGGATGTGAAACAGGATGATTATCACTCTGATAAAAAACAGACTGAAGTGAAGTCTTCAC TGATTTTTTCTAAAGAACTCACTTCTAGTGAGTAAGTGTTCAATAACATAAAGTTAGGAA ATCTTTATGTTATTAAATTTGAATTTTCTTTCACTGTATCCCAATATTTTAAATATGT GTTTCAGGACATTTCCAGTTTAAATAAAAGTTTAAATAATATCCTCCCTACTTTAAAAAT AAGATCTTTAAGTAAACGTATTTCCAAATCATATTGTCAATGTGCACTGAAGTTAATTCT CTGAAACTAAATATATGCAATTGAAGTTCTGTTTCCCTTCTAACCGTCCCTTTACTAT TTTTTCCAAACCAAAAAAGCCTCATCTGCTTTCTTCTGGCACCAAGATCCAAATAGAA TTTTGCAAGTTCAAAGAATATTCTGTTTTCTCCCTTTGGACAACCTGCATTAAATTT TTTCAACAAGGTCTTCAAAAGTGCCGGAACCAAAAAACAAGATATTCAATTTTCCCAA TTTTACCATCCCTGAATGGTTTTGTTGGGAATTTTTGAATAAAAAAGAGTTAGTGGA TCGAGACCCACTTTCTTTAAACAGATAGCTCTTAATTTATTGTCTTTCAAAGGGCGGCG TGGCACCCG
Restriction Sites:	NotI-NotI
ACCN:	BC025376
Insert Size:	1250 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).
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: [BC025376.1](#), [AAH25376.1](#)

RefSeq Size: 1311 bp

RefSeq ORF: 1311 bp

Locus ID: 494143

Cytogenetics: 2p16.2

Domains: ChaC

Gene Summary: 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]