

Product datasheet for **MR228244**

Chac2 (NM_001290667) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Chac2 (NM_001290667) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Chac2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR228244 representing NM_001290667
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTGGGTGTTTGGTTATGGGTCCCTCATCTGGAAGGTGGACTTCCCCTACCAGGACAAGCTGGTTGGTT
 ACATCACAAACTACAGTCGGCGCTTCTGGCAAGGTAGCACGGACCACCGCGGGTCCCAGGCAAGGGCAG
 TGTATGGGGTGTGCTTACAACTACAGTAGGAAAAGAAGAGGAAGTAAAAACATACCTTGACTTCAGA
 GAGAAAGGAGGCTACAGAACTACGACAGTCATTTTTTATCCAAAAGATTCCACAACAAACCATTTCAGTG
 TTTTGCTCTACATTGGAACATGTGATAATCCTAACTATCTTGGCCCTGCACCTCTGGAAGATATTGCTGA
 ACAAAATTTTAAATGCAGCTGGTCCAAGTGAAGAAATACAGAATATCTTTTGAAGTTGCAGATTCTGTT
 AGGAAACTTGACCAGAAGATGCAGACGAGCATCTCTCTCTTTGGAAAATTAGTAAAGGAACGCTTAG
 AAGGAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR228244 representing NM_001290667
 Red=Cloning site Green=Tags(s)

MWVFGYGSIIWKVDFFPYQDKLVGYITNYSRRFWQGSTDHRGVPKGKSVWGVAYKLPVGKEEEVKTYLDFR
 EKGGYRTTIVIFPKDSTTKPFSVLLYIGTCNPNYLGPALEDIAEQIFNAAGPSGRNTEYL FELADSV
 RKLVPEDAHLFSLEKLVKERLEGK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



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Cloning Scheme:



ACCN: NM_001290667

ORF Size: 498 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

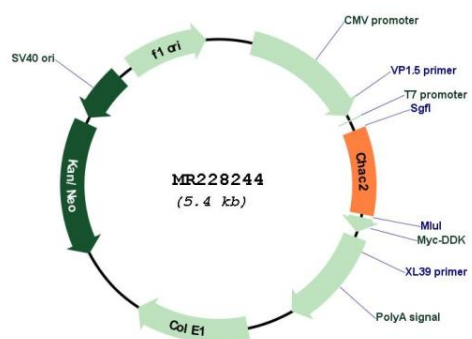
RefSeq: [NM_001290667.1](#), [NP_001277596.1](#)

RefSeq Size: 1294 bp

RefSeq ORF: 501 bp

Locus ID:	68044
UniProt ID:	Q9CQG1
Cytogenetics:	11 A4
MW:	19.4 kDa
Gene Summary:	Catalyzes the cleavage of glutathione into 5-oxo-L-proline and a Cys-Gly dipeptide (PubMed:27913623). Acts specifically on glutathione, but not on other gamma-glutamyl peptides (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR228244