

Product datasheet for **MG201563**

Chac2 (NM_026527) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Tag: TurboGFP
Symbol: Chac2
Synonyms: 2510006C20Rik; RP23-20N14.6
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >MG201563 representing NM_026527
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTGGGTGTTTGGTTATGGGTCCTCATCTGGAAGGTGGACTTCCCCTACCAGGACAAGCTGGTTGGTT
ACATCACAACACTACAGTCGGCGCTTCTGGCAAGGTAGCACGGACCACCGCGGGTCCCAGGCAAGCCTGG
AAGAGTTGTGACCCTTGTGAAGATCCTGGGGCAGTGTATGGGGTGTGCTTACAACTACCAGTAGGA
AAAGAAGAGGAAGTAAAAACATACCTTGACTTCAGAGAGAAAGGAGGCTACAGAACTACGACAGTCATT
TTTATCCAAAAGATTCCACAACAAAACCATTAGTGTGTTTCTCTACATTGGAACATATGATAATCCTAA
CTATCTTGGCCCTGCACCTCTGGAAGATATTGCTGAACAAATTTTAAATGCAGCTGGTCCAAGTGAAGA
AATACAGAATATCTTTTGAAGTTCGAGATTCTGTTAGGAACTGTACCAGAAGATGCAGACGAGCATC
TCTTCTTTTGAAAAATTAGTAAAGGAACGCTTAGAAGGAAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201563 representing NM_026527
Red=Cloning site Green=Tags(s)

MWVFGYGLIWKVDFPYQDKLVGYITNYSRRFWQGSTDHRGVPGKPRVVTLVEDPGGSVWGVAYKLPVG
KEEEVKTYLDFREKGGYRTTIVIFYPKDSSTKPFVLLLYIGTYDNPNYLGPAPLEDIAEQIFNAAGPSGR
NTEYLFELADSVRKLVPEDAHLFSLEKLVKERLEGK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



Cloning Scheme:


ACCN: NM_026527

ORF Size: 534 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_026527.2](#), [NP_080803.1](#)

RefSeq Size: 1328 bp

RefSeq ORF: 537 bp

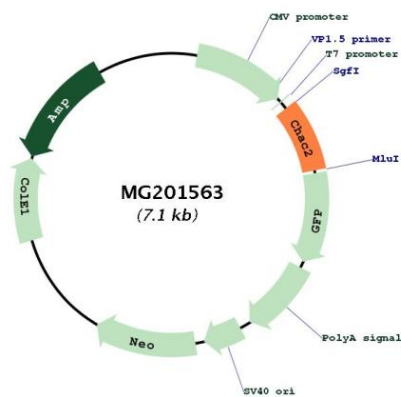
Locus ID: 68044

UniProt ID: [Q9CQG1](#)

Cytogenetics: 11 A4

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 MG201563