

Product datasheet for MC202240

Chac1 (NM_026929) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Chac1 (NM_026929) Mouse Untagged Clone
Tag: Tag Free
Symbol: Chac1
Synonyms: 1810008K03Rik
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC025169 sequence for NM_026929
 CCGATCGGTGCCAGGCCAGGTGTACGCGTCCGTCCGTCCCTTCCGTGCCCGTCCGGAGACCAGTCTCGGA
 GGCCGCCCGGGTCCGTCCCTGCGCCCGGCACCATGAAGCAAGAGTCCGCATCCCAGAGCACTCCGCCTCC
 TTTACTGTCCCCTGCACCATCATCCGCGCAGCCTTTCTGGGGGATGGCGACCCCAAGCCCTGTGGATT
 TTCGGGTACGGCTCCCTAGTGTGAAGCCGGACTTTGCCTATAGTGACAGCCGTGTGGGCTTCGTTTCGTG
 GCTATAGCCGACGGTTCCTGGCAGGGAGACACCTTCCATAGGGGCAGCGACAAGATGCCTGGCCGAGTGGT
 GACCCCTCCTTGAAGACCATGAGGGCTGCACTTGGGGTGTGGCATAACCAAGTTCGAGGGGAGCAGGTGAAC
 GAGGCCCTGAAGTACCTGAATGTGAGGGAAGCCGTGCTTGGTGGCTATGACACTAAGGAAGTCACCTTTT
 ATCCTCAAGACACCCCTGACCAACCCCTCACAGCACTGGCCTATGTGGCCACCCACAGAACCCTGGCTA
 CCTGGGCCCTGCTCCTGAAGAGGTCAATGCCACACAGATCCTTGCTTGGCAGGCTTCTCTGGTCACAAC
 CTTGAGTACTTATTGCGTTTGGCAGACTTCATGCAGCTCTGTGGGCCTCAGGCACAAGATGAGCACCTGG
 AAGCCATTGTGGACGCCGTAGGAACCCTGCTACCCTGCTTACCTCCCTGAGCAGCCTCTGGCACTGAC
 CTGAGGAGCCAAGCTCCTGCAAGAAGTGTCTGAGTGGTACTGGTGGACATCAGCATGCAGTACTTGAGAT
 AGACTTGATGGAGCAAGAGAGAGTGTGAGAAGGCATGCTGGGTGGCCAGGGGCTTTGTGTCTTATGCCCG
 CCTGTCTGCTAGCCTTCACTCTTCCCTTATTGACCCCTACTCACTACTTGAACCTTTATTTATTGCACC
 ATGTTGGTGTGGTGGCAGGGCAGGTGGGGACCTGCCCTGGATGTGGCCCTGCAGTGGCGTGGCTCTG
 CCCTAGTCCTCTGGTATGTAACCAGAATCCCCCATTGCTGCTGCCAATCCACACCACCCAGGCCTCCG
 TAGCCCCAGGGACCCTCCAAGATCGTTGCTCCTGTCCACCCAGACTACCCAGCCGTGGTAGTATCAC
 CTGCCCCATGTTCCGGGCCCTTCTGGATGAGGGACAGCAGAGAAGGAGGCGAAGTACTCTTCAAGGGCCAA
 GGGCCAGCATCCCTCTTATTGACGGGCCCGGGCAGAGCCGGATCCTATGCACAGACACAGTTCCCTGGG
 ACTGGGCCTCTCCCCATCCCTCTTTTTTCATTTCTTATCCTTTTGTCTGTCTGCTTGTGTTGTCTGGAT
 CACTTCTATAGACCCATTGGTCTGTTCTGGAACCACTACAGTCTTGTCCATTCTCAGTTGACCCAT
 ACTGTTACCCATAAACTGTCTTTTCAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI
ACCN: NM_026929



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Insert Size:	672 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:	<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:	BC025169 , AAH25169
RefSeq Size:	1514 bp
RefSeq ORF:	672 bp
Locus ID:	69065
UniProt ID:	Q8R3J5
Cytogenetics:	2 E5
Gene Summary:	Catalyzes the cleavage of glutathione into 5-oxo-L-proline and a Cys-Gly dipeptide. Acts specifically on glutathione, but not on other gamma-glutamyl peptides. Glutathione depletion is an important factor for apoptosis initiation and execution. Acts as a pro-apoptotic component of the unfolded protein response pathway by mediating the pro-apoptotic effects of the ATF4-ATF3-DDIT3/CHOP cascade (By similarity). Negative regulator of Notch signaling pathway involved in embryonic neurogenesis: acts by inhibiting Notch cleavage by furin, maintaining Notch in an immature inactive form, thereby promoting neurogenesis in embryos (PubMed:22445366).[UniProtKB/Swiss-Prot Function]