

Product datasheet for MR201918

Chp1 (NM_019769) Mouse Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	Chp1 (NM_019769) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Chp1
Synonyms:	1500003O03Rik; AA960066; Al046351; Cahp; Chp; p24; Sid470p; vac
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>>MR201918 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGGGGTCTCGGGCCTCCACGTTATTGCGGGACGAAGAGCTCGAGGAGATCAAGAAGGAGACTGGCTTTT CCCACAGTCAGATCACGCGCCTGTACAGCCGCTTCACCAGCCTGGACAAAGGGGAGAACGGGACTGCCAG CCGGGAAGATTTCCAGAGGATTCCAGAACTTGCCATCAACCCACTGGGGGACCGGATCATCAATGCCTTC TTCTCAGAGGGAGAGAGATCAGGTAAACTTCCGAGGATTCATGAGAACATTGGCTCATTTCCGACCCATTG AGGATAACGAAAAGAGCAAAGATGTGAATGGCCCGGAACCCCTCAACAGCCGGAGCAACAAGCTGCACTT TGCTTTCAGACTCTATGATTTGGATAAAGATGACAAGATCTCCCGTGATGAGCCGTTACAGGTACTGCGA ATGATGGTTGGAGTGAATATCTCGGATGAGCAGCTGGGCAGTATTGCGGACAGGACCATCCAGGAGGCTG ACCAAGATGGAGATAGTGCCATATCTTTTACAGAATTCGTTAAGGTTTTGGAAAAAGTGGATGTAGAACA GAAGATGAGCATCCGATTTCTCAC
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG GTTTAA
Protein Sequence:	>MR201918 protein sequence Red=Cloning site Green=Tags(s)
	MGSRASTLLRDEELEEIKKETGFSHSQITRLYSRFTSLDKGENGTLSREDFQRIPELAINPLGDRIINAF FSEGEDQVNFRGFMRTLAHFRPIEDNEKSKDVNGPEPLNSRSNKLHFAFRLYDLDKDDKISRDELLQVLR MMVGVNISDEQLGSIADRTIQEADQDGDSAISFTEFVKVLEKVDVEQKMSIRFLH
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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Locus ID:	56398
UniProt ID:	<u>P61022</u>
Cytogenetics:	2 E5
MW:	22.4 kDa
Gene Summary:	Calcium-binding protein involved in different processes such as regulation of vesicular trafficking, plasma membrane Na(+)/H(+) exchanger and gene transcription. Involved in the constitutive exocytic membrane traffic. Mediates the association between microtubules and membrane-bound organelles of the endoplasmic reticulum and Golgi apparatus and is also required for the targeting and fusion of transcytotic vesicles (TCV) with the plasma membrane. Functions as an integral cofactor in cell pH regulation by controlling plasma membrane-type Na(+)/H(+) exchange activity. Affects the pH sensitivity of SLC9A1/NHE1 by increasing its sensitivity at acidic pH. Required for the stabilization and localization of SLC9A1/NHE1 at the plasma membranes. Inhibits serum- and GTPase-stimulated Na(+)/H(+) exchange. Plays a role as an inhibitor of ribosomal RNA transcription by repressing the nucleolar UBF1 transcriptional activity. May sequester UBF1 in the nucleoplasm and limit its translocation to the nucleolus. Associates to the ribosomal gene promoter. Acts as a negative regulator of the calcineurin/NFAT signaling pathway. Inhibits NFAT nuclear translocation and transcriptional activity by suppressing the calcium-dependent calcineurin phosphatase activity. Also negatively regulates the kinase activity of the apoptosis-induced kinase STK17B. Inhibits both STK17B auto- and substrate-phosphorylations in a calcium-dependent manner (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR201918

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