

Product datasheet for MC211048

Chp2 (NM_027363) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Chp2 (NM_027363) Mouse Untagged Clone
Tag: Tag Free
Symbol: Chp2
Synonyms: 2010110P09Rik; Cbhp2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC211048 representing NM_027363
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGGCTCACGAAGCTCTCATATCGCGCTCATTCCAGACGTGGAGCACATTCGCAGAGAGACAGGCTTCT
CGCAAGCCAGCCTGCTCCGCCTCTACCACCGGTTCCAAGCCCTGGACAGGGATGAAAAGGCTTCTCTAAG
CCGCCTAGACCTCCAGCAGATCGGAGCACTGGCTGTGAATCCACTGGGTGACCGCATTATAGACAGCTTC
TTCCCAACGGAAGTCAGAGACTGTATTCGCAGGCTTTGCCAGGTCTGGCTTATTTTCGACCTATAG
ATGAAGAAGATGCCACACTCCGAGACCCCAAGCAACCTGAACCCCTAAACAGCAGAATGAACAACTGCG
CTTTGCATTTTCAGCTCTATGATCTGGATCGGGATGGGAAGATCTCCAGGAATGAAATGCTACAGGTTCTC
CGCCTCATGGTTGGGTCCAGGTGACGGATGAGCAGCTGGAGAGCATCACAGACCGTACAGTGCAGGAAG
CTGATGAGGACGGGGATGGGGCTGTGTCCTTCTGGAGTTCACCAAGTCCTTAGAGAAGATGAACATCGA
ACAAAAATGAGCATCCGGATCCTGAAG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_027363
Insert Size: 591 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).



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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:	<u>NM_027363.1</u> , <u>NP_081639.1</u>
RefSeq Size:	1171 bp
RefSeq ORF:	591 bp
Locus ID:	70261
UniProt ID:	<u>Q9D869</u>
Cytogenetics:	7 F2
Gene Summary:	Functions as an integral cofactor in cell pH regulation by controlling plasma membrane-type Na(+)/H(+) exchange activity. Binds to and activates SLC9A1/NHE1 in a serum-independent manner, thus increasing pH and protecting cells from serum deprivation-induced death. Also plays a role in the regulation of cell proliferation and tumor growth by increasing the phosphatase activity of PPP3CA in a calcium-dependent manner. Activator of the calcineurin/NFAT signaling pathway. Involved in the cytoplasmic translocation of the transcription factor NFATC3 to the nucleus (By similarity).[UniProtKB/Swiss-Prot Function]