

Product datasheet for RR212310

Chp2 (NM_182738) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Chp2 (NM_182738) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Chp2
Synonyms: chp-2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR212310 representing NM_182738
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGCTCACGGAGCTCTCATGTCGCGCTATTCTGTGTGGACCAATTCGCAGAGAGACGGCTTCT
 CCCAAGCTAGCCTGCTCCGTCTCTACCACAGGTTCCAAGCCCTAGACAGGGAGGAAAAGGGCTTCTGAG
 CCGCCTAGACCTCCAGCAGATTGGAGCCCTGGCTGTGAACCCCTGGGTGACCGCATTATAGACAGCTTC
 TTCCCAATGGGAGTCAGAGAGTGTATTCGCAGGCTTTGCCAGAGTCTGGCTTATTTTCGACCTATAG
 ATGAAGACGATGCCACACTCCGAGACCCCAAGCAACCTGAACCCCTAAACAGCAGAAATGAATAAACTGCG
 CTTTGCATTTTCAGCTCTATGATCTGGATCGGGATGGGAAGATCTCCAGGAATGAAATGCTACAGGTTCTC
 CGCCTCATGGTTGGGGTCCAGGTGACAGACGAGCAGTTGGAGAGCATCACAGACCGCACAGTGCAGGAAG
 CCGATGAAGATGGGGATGGGGCCGTCTCTTCTGGAGTTCGCCAAGTCTTAGAGAAGTGAACATCGA
 GCAGAAGATGAGCATCCGGATCCTGAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR212310 representing NM_182738
 Red=Cloning site Green=Tags(s)

MGRSSHVALIPDQVIRRETGFSAQLLRLYHRFQALDREEKGFSLRDLQQIGALAVNPLGDRIIDSF
 FPNGSQRVYFAGFARVLAYFRPIDEDDATALRDPKQPEPLNSRMNKLRFQFLYDLDRDGKISRNEMLQVL
 RLMVGVQVTDEQLESITDRVTQEAEDEGDGAVSFLEFAKSLEKMNIEQKMSIRILK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

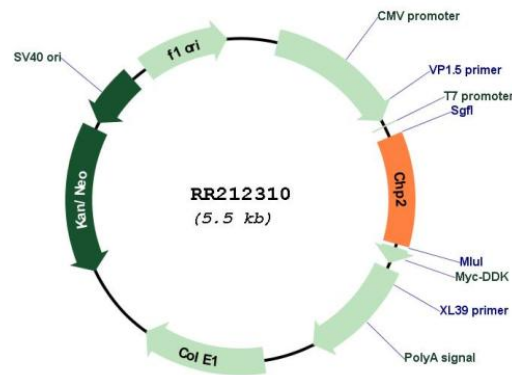


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Cloning Scheme:



Plasmid Map:



ACCN: NM_182738

ORF Size: 588 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.

RefSeq: [NM_182738.1](#), [NP_877402.1](#)

RefSeq Size: 1257 bp

RefSeq ORF: 591 bp

Locus ID: 308965

UniProt ID: [Q810D1](#)

Cytogenetics: 1q36

MW: 22.5 kDa

Gene Summary: cofactor for catalysis of the electroneutral exchange of Na⁺ and H⁺ mediated by the Na⁺/H⁺ exchanger (NHE) family of membrane proteins [RGD, Feb 2006]