

Product datasheet for RC217040L3

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OriGene Technologies, Inc.

CLCN4 (NM_001830) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: CLCN4 (NM_001830) Human Tagged Lenti ORF Clone

Tag: Myc-DDK
Symbol: CLCN4

Synonyms: CIC-4; CIC-4A; CLC4; MRX15; MRX49; MRXSRC

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this clone is exactly the same as(RC217040).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF.

ACCN: NM_001830

ORF Size: 2280 bp



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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: <u>NM 001830.2</u>

 RefSeq Size:
 4562 bp

 RefSeq ORF:
 2283 bp

 Locus ID:
 1183

 UniProt ID:
 P51793

Cytogenetics: Xp22.2

Domains: CBS, voltage_CLC

Protein Families: Druggable Genome, Ion Channels: Other, Transmembrane

MW: 84.7 kDa

Gene Summary: The CLCN family of voltage-dependent chloride channel genes comprises nine members

(CLCN1-7, Ka and Kb) which demonstrate quite diverse functional characteristics while sharing significant sequence homology. Chloride channel 4 has an evolutionary conserved CpG island and is conserved in both mouse and hamster. This gene is mapped in close proximity to APXL (Apical protein Xenopus laevis-like) and OA1 (Ocular albinism type I), which are both located on the human X chromosome at band p22.3. The physiological role of chloride channel 4 remains unknown but may contribute to the pathogenesis of neuronal disorders. Alternate splicing results in two transcript variants that encode different proteins. [provided by RefSeq,

Mar 2012]