

Product datasheet for **MR226129L3V**

Clcn2 (NM_009900) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Clcn2 (NM_009900) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Clcn2
Synonyms:	AL118368; ClC-2; Clc2; nmf240
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_009900
ORF Size:	2727 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR226129).
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.
RefSeq:	NM_009900.2 , NP_034030.2
RefSeq Size:	3670 bp
RefSeq ORF:	2727 bp
Locus ID:	12724
UniProt ID:	Q9R0A1
Cytogenetics:	16 12.5 cM



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Gene Summary:

Voltage-gated chloride channel. Chloride channels have several functions including the regulation of cell volume, membrane potential stabilization, signal transduction and transepithelial transport (By similarity). Involved in the regulation of aldosterone production. The opening of CLCN2 channels at hyperpolarized membrane potentials in the glomerulosa causes cell membrane depolarization, activation of voltage-gated Ca²⁺ channels and increased expression of aldosterone synthase, the rate-limiting enzyme for aldosterone biosynthesis (By similarity).[UniProtKB/Swiss-Prot Function]