

Product datasheet for MR220828

Slc4a4 (NM_001136260) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Slc4a4 (NM_001136260) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Slc4a4
Synonyms: AI835705; NBC; NBC1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR220828 representing NM_001136260
 Red=Cloning site Blue=ORF Green=Tags(s)

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ATGGAGGATGAAGCTGTCTGGACAGAGGGGCTTCCTTCCTTAACATGTGTGTGATGAAGAAGAAGTAG
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 GAAGGCTGGGCACAAGGAAAAGAAGGAAAAGGAGAGAATCTCCGAGAAGTACTCCGACAAATCTGATGTG
 GAGAATGCGGATGAGTCCAGCAGCAGTATCCTCAAACCCCTCATCTCCCGGCCCGCAGAACGCATCCGAT
 TCATCTTGGGAGAGGAAGATGACAGCCCGGCACCTCCTCAGCTTTCACGGAACGATGAGCTTCTGGC
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Protein Sequence:

>MR220828 representing NM_001136260
Red=Cloning site Green=Tags(s)

MEDEAVLDRGASFLKHKVDEEEVEGHHTIYIGVHVPKSYRRRRRHKRKHAGHKEKKEKERISENYSKSDV
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GGERWSKPHVATLSLHSLFELRTEKMGKSIIMLDREASSLPQLVEMIADHQIETGLLKPDLDKDVYTLR
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SAFMCLVLVATDASFLVQYFTRFTEEGFSSLSIFIFIYDAFKMKIKLADYYPINSDFKVGYNTHFSCACL
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LGTYSSTAMKFKTSRYFPTTARKLISDFAIILSILIFCVIDALVGVDPKLIIPSEFKPTSPNRGWFV
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LALVAVRKGMDYLFSDHLSFLDDVIPEKDKKKEDEKDKKDKKGLSDNDDEKDPQHSSNATHHADKI
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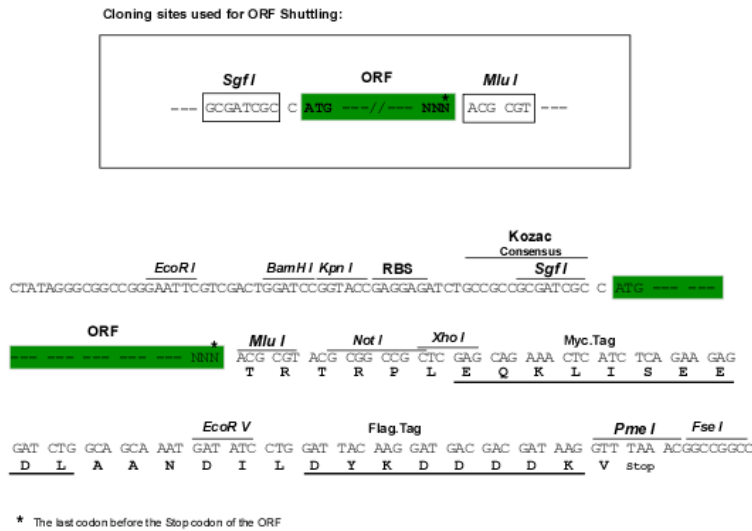
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9002_c11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001136260

ORF Size: 3282 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_001136260.1](#), [NP_001129732.1](#)

RefSeq Size: 7395 bp

RefSeq ORF: 3285 bp

Locus ID: 54403

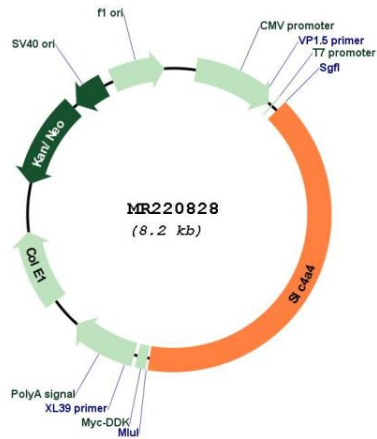
UniProt ID: [O88343](#)

Cytogenetics: 5 E1

MW: 123.5 kDa

Gene Summary: Electrogenic sodium/bicarbonate cotransporter with a Na(+):HCO3(-) stoichiometry varying from 1:2 to 1:3. May regulate bicarbonate influx/efflux at the basolateral membrane of cells and regulate intracellular pH.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR220828