

Product datasheet for **MG209960**

Clcnkb (BC019983) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Clcnkb (BC019983) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Clcnkb
Synonyms:	Clc-Ka, CLCKB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>MG209960 representing BC019983
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGGAATTAGTGGGGCTTCGTGAGGGCGCCTCCAAGAAGCCAGTGCCACTGCAAGAAGCTCTGGGGC
CATGCCACGTATCCGCAGAAACATCCAGGGGGCCTAGAGTGGCTGAAAGAGCGGCTCTCCGTGTGGG
TGAGGACTGGTACTTCTGGTGGCTCTCGGGTGTCTATGGCTCTAATCAGCTATGCTATGAACTTCACT
ATTGGGCGGTGGTACAGACACACAAGTGGCTGTACAGGGAGATTGGAGACGGCCACTTGTCTGTACC
TCTCTGGACCGTGTACCCCGTGGCTTCTGTCTTCTCCTCCGGCTTCTCACAGAGCATTACGCCATC
CTCTGGAGGGTCTGGAATCCCTGAGGTGAAGACCATCTTGACCGGAGTGGTCTGGAGGACTACCTAGAC
ATCAAGAAGCTTTGGGGCAAGGTGGTGGCCTCTCCTGCACCTGGCCACAGGCAGTACCATCTTCTGG
GAAAAGTGGGCCCTTCGTGCACCTGAGCGTGATGATCGCTGCTTACCTGGGCCGCTGCGCACCAAGAC
CGTCGGGGAACCTGAGAGCAAGACCAAAGAAATGGAAGTGTGGCCGAGGAGCAGCAGTGGGTGTGGCC
ACGGTCTTCGCAGCTCCCATCAGCGGTGTCTGTTCAGCATCGAGGTATGTCTCTCACTTCTCCGTCT
GGGATTACTGGAGGGCTTCTTCGTGCCACCTGTGGGGCCTTTATGTTCCACCTCTGGCGGTCTTCAA
CAATGAACAGGAGACCATCACCTCCATCTACAAGACCAGCTTCCAGTGGACATACCCTTTGACTTACCA
GAGATCTTCTTTTTGTGGCCCTGGGGCCATCTGTGGCATCCTGAGCTGCGGGTACAACACAGCCAGC
GGACTTTCTTATTTTCTCAAGGCAATGGGTTCACCTCCAACTGCTGGCTACCAGCAAACCTTGTGTA
CTCAGCCCTGGTGTGTGGTCTGGCTCCATCACGTATCCCTGGTGTGGGCCACTTTCATGGCTTCC
CGGCTGTCCATGTCCGAGCATTGGAGACTGTTTGACAACAACCTCTGGGCACTGATGACTAAGAAGT
CGTCTCCACCTGGGACGCGGAGCCTGATCCCCAGAAGCTGTGGTGGAGTGGTGTACCCACAGTTGAC
TGTCTTTGGGACACTAGTCTTCTCCTGGTCAAGTTCCTGGATGCTGATTTTGCAACCACCATCCCC
ATCCCTGTGGTACTTCTTCCCATCTTGTCTATGGAGCTGTCATTGGGCGCCTTTTGGGGAGGTTT
TATCTGTGCCTTCCCAGAGGGCATTGTGGCTGGAGGCAGGGTCAATCCCATCATGCCGGGGCCTATGC
TCTGGCAGGTGCTGCTGCCTTCTCGGGGCGGTGACCCACACCCTCTCCACGGCACTGCTGGCCTTGGAG
GTAACGGGCCAGCTCGTTCACGCACTGCCTGTGCTGATGGCTGTGCTGGCGGCAACGCCATCTCTCAGA
GCTTCCAGCCCTTTTCTACGATGGCACCATTGTCAAGAACTGCCGTACCTGCCTTGGATCCGTGG
CCGACAGATTGGTCCCCTCTGTAAGTGTGGTCACTTTCATGAAGTGCACCCCTCACTACACTGGCCAAG
GACATGCCCTGGAGCAAGTATCAAGTCAATGATCTCCACAGATGTGACCCAGTACCCCTGGTGGAGA
CTACAGAGTCTCAGACCCTGGTGGCGTTGTAAGAAAGGACCCACTTGGTGAAGCCCTCCAGACTGAGCC
AGTTCCTGGGCTCCAGGCCAGCAGCCCTATCTCCAGGATATCTTGGCTAATGGTGCACCCACCCAGCCA
GTGACACTGCAGCTGTCCCGGAGACCTCCTTGCATGAGACACACAACCTTTTGGAGTGTGAACTTTC
AGACGCTGTTCTGTGACGTACGAGGCAGAGCTGTGGGCTTTGATCGTGGTGGAGGACTGGGGTCT

ACGCGTACGCGGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG209960 representing BC019983
 Red=Cloning site Green=Tags(s)

MEELVGLREGASKKPVPLQELWGPCPRIRRNIQGGLEWLKERLFRVGEDWYFLVALGVLMALISYAMNFT
 IGRVVRRAHKWLYREIGDGHLLLYLSWTVYPVALLSFSSGFSQSIPTSSGGSGIPEVKTIITGVVLEDYLD
 IKNFVAVVGLSCTLATGSTIFLGLKLPFVHLSVMIAAYLGRVRTKTVEPEPEKTEMELLAAGAAVGVA
 TVFAAPIISGVLFSIEVMSSHFSVWDYWRGFFAATCGAFMFHLLAVFNNEQETITSIYKTSFPVDIPFDLP
 EIFFFVALGAICGILSCGYNYSQRTFLFLKANGFTSKLLATSKPLYSALAAVVLASITYPPGVGHFMS
 RLSMSEHLETLFDNNSWALMTKNSSPPWAAEPDPQKLWLEWCHPQLTVFGTLVFFLVKMFWMLILATTIP
 IPAGYFLPIFVYGAVIGRLFGEVLSVAFPEGIVAGGRVNPIMPAYALAGAAAFSGAVTHTLSTALLAFE
 VTGQLVHALPVLMAVLAANAISQSFQPSFYDGTIIVKKLPYLPWIRGRQIGSHSVTVGHFMNCTLTTLAK
 DMPLEQVIQVMISTDVTQYPLVETTESQTLVGVVKRTHLVQALQTEPASWAPGQQPYLQDILANGCPTQP
 VTLQLSPETSLHETHNLFELNLQTLFVTSRGRAVGFVSWVEVLGS

TRTRPLE - GFP Tag - V

Restriction Sites:

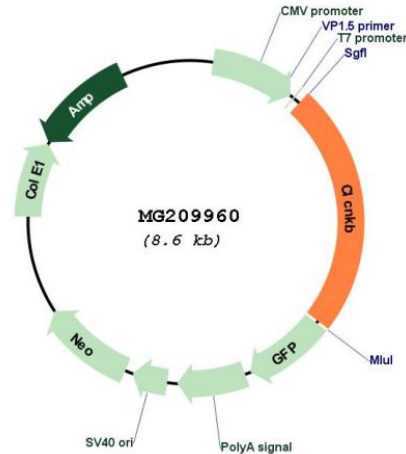
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: BC019983

ORF Size: 2028 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: [BC019983.1](#)

RefSeq Size: 2534 bp

RefSeq ORF: 2030 bp

Locus ID: 56365

Cytogenetics: 4 D3

Gene Summary: This gene is a member of the CLC family of voltage-gated chloride channels. The gene is located adjacent to a highly similar chloride channel gene on chromosome 4. This gene is syntenic with human CLCNKA (geneID:1187). [provided by RefSeq, Sep 2009]