

Product datasheet for MR204675

Calhm2 (NM_133746) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Calhm2 (NM_133746) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Calhm2
Synonyms:	2810048G17Rik; Fam26b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204675 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCCCTTGATTGCAGAGAAGCTTCCGCTTCTGTCTCTTCTTCAAGAGCAAGGATGTGATGATTT
TCAATGGGCTGGTGGCCCTGGGCACGGTGGCAGTCAGGAGCTGTTCTCAGTGGTGGCCTTCCACTGTCC
CTGCTCACCCGCCGGAACCTACCTGTATGGACTGACAGCAATTGGCGTGCCTGCGCTGGCCCTTCTCCTT
ATCGGAGTCATTCTCAACAACCACACTTGAACCTAGTCGCCGAGTGCCAGTACCGGAGGGCCAAGAAGT
GCTCCGCGGCCCAACTTCTCCTCCTAAGCTCAATCCTGGGCCGTGCAGCTGTAGCTCCAGTCACCTG
GTCTGTCACTCCCTGCTCCGAGGGGAGGCCTATGTCTGTGCTCTCAGTGAGTTGTGGACCCCTCCTCG
CTCACAGCTGGGGATAAAGGCTTCCCCCAGCCATGCTACGGAGGTCTAGCCAGGTTCCCTTGTGGAG
AGGGCCCCGCCAACCTATCCAGCTTCCGAGAGGAGGTGAGCCGCAGGCTCAAGTATGAGTCTCAGCTCTT
CGGATGGCTGCTCATCGGTGTGGTGGCCATCCTGGTGTCTGACCAAGTGCCTCAAACATTACTGCTCG
CCACTCAGTACCGTACGAGGCTACTGGGCTCAGTACCGTACCAACGAGGACCAAGTGTTCAGCGCA
CAGCAGAGGTGCATTGAGGGTGTGGCCGCAACAACGTGCGCCGTTTCTTTGGCTTTGTGGCTCTCAA
CAAGGATGACGAAGAGCTGGTCCCAAGTCCCAGTGGAAAGGCACACAGCCACGGCCACAGTGAACGCT
ATCACTGGGTCTATCTGTACCGAGAGAACCAGGGCCTCCCACTCTACAGCCGCTACACAAGTGGGCC
AGGGTCTGACAGGTAATGGCACAGCCCCGACAATGTGGAGATGGCCCTGCTCACTGCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204675 protein sequence
Red=Cloning site Green=Tags(s)

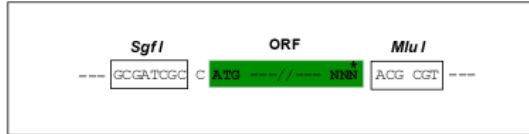
MAALIAENFRFLSLFFKSKDVMIFNGLVALGTVGSQELFSVVAFHPCPCSPARNLYGLTAIGVPALALFL
 IGVILNNHTWNLVAECQYRRAKNCSAAPNLLLLSSILGRAAVAPVTWSVISLLRGEAYVCALSEFVDPSS
 LTAGDKGFPPAHATEVLARFPCGEGPANLSSFREEVSRRLKYESQLFGWLLIGVVAILVFLTKCLKHYCS
 PLSYRQEAYWAQYRTNEDQLFQRTAEVHSRVLAAANNVRRFFGFVALNKDDEELVAKFPVEGTQPRPQWNA
 ITGVYLYRENQGLPLYSRLHKWAQGLTGNGTAPDNVEMALLTA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_133746

ORF Size: 972 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_133746.1](#)

RefSeq Size: 2049 bp

RefSeq ORF: 972 bp

Locus ID: 72691

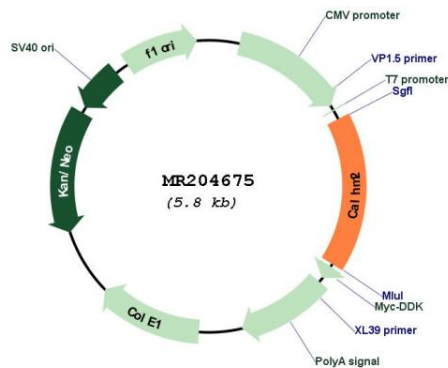
UniProt ID: [Q8VEC4](#)

Cytogenetics: 19 C3

MW: 35.8 kDa

Gene Summary: Pore-forming subunit of a voltage-gated ion channel.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204675