

Product datasheet for **MG204675**

Calhm2 (NM_133746) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Calhm2 (NM_133746) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Calhm2
Synonyms:	2810048G17Rik; Fam26b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204675 representing NM_133746 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGCCTTGATTGCAGAGAACTTCGCTTCTGTCTCTCTTCAAGAGCAAGGATGTGATGATTT
TCAATGGGCTGGTGGCCCTGGGCACGGTGGGCAGTCAGGAGCTGTTCTCAGTGGTGGCCTTCCACTGTCC
CTGCTCACCCGCCGGAACCTACCTGTATGGACTGACAGCAATTGGCGTGCCTGCGCTGGCCCTTCTCCTT
ATCGGAGTCATTCTCAACAACCACACTTGAACCTAGTCGCCGAGTGCCAGTACCGGAGGGCCAAGA
GCTCCGCGGCCCAACTTCTCCTCCTAAGCTCAATCCTGGGCGTGCAGCTGTAGCTCCAGTCACCTG
GTCTGTACATCTCCTGTCCGAGGGGAGGCCTATGTCTGTCTCAGTGAGTTTGTGGACCCCTCCTCG
CTCACAGCTGGGGATAAAGGCTTCCCCCAGCCATGCTACGGAGGTCTAGCCAGGTTCCCTTGTGGAG
AGGGCCCCGCCAACCTATCCAGCTTCCGAGAGGAGGTACGCCGACAGGCTCAAGTATGAGTCTCAGCTCTT
CGGATGGCTGCTCATCGGTGTGGTGGCCATCCTGGTGTCTGACCAAGTGCCTCAAACATTACTGCTCG
CCACTCAGTACCGTACGAGGCTACTGGGCTCAGTACCGTACCAACGAGGACCAAGTGTTCAGCGCA
CAGCAGAGGTGCATTGAGGGTGTGGCCGCCAACAGTGCGCCGTTTCTTTGGCTTTGTGGCTCTCAA
CAAGGATGACGAAGAGCTGGTCCGAAGTCCCAGTGGAAAGGCACACAGCCACGGCCACAGTGAACGCT
ATCACTGGGGTCTATCTGTACCGAGAGAACCAGGGCCTCCCACTACAGCCGCTACACAAGTGGGCC
AGGGTCTGACAGGTAATGGCACAGCCCCGACAATGTGGAGATGGCCCTGCTCACTGCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204675 representing NM_133746
 Red=Cloning site Green=Tags(s)

MAALIAENFRFLSLFFKSKDVMIFNGLVALGTVGSQELFSVVAFHPCPCSPARNLYGLTAIGVPALALFL
 IGVILNNHTWNLVAECQYRRAKNCSAAPNLLLLSSILGRAAVAPVTWSVILLSRGEAYVCALSEFVDPSS
 LTAGDKGFPPAHATEVLRARFPCGEGPANLSSFREEVSRRLKYESQLFGWLLIGVVAILVFLTKCLKHYCS
 PLSYRQEAYWAQYRTNEDQLFQRTAEVHSRVLAAANNVRRFFGFVALNKDDEELVAKFPVEGTQPRPQWNA
 ITGVVLYRENQGLPLYSRLHKWAQGLTGNGTAPDNVEMALLTA

TRTRPLE - GFP Tag - V

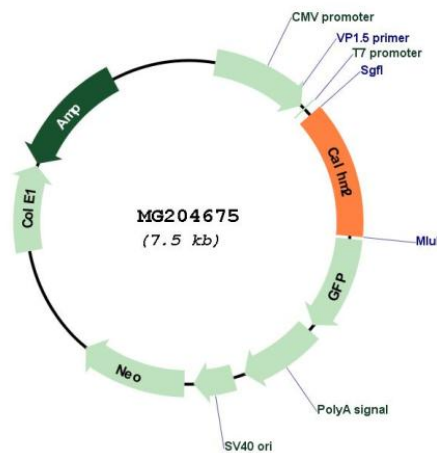
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_133746

ORF Size: 969 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:	<ol style="list-style-type: none">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:	2043 bp
RefSeq ORF:	972 bp
Locus ID:	72691
UniProt ID:	Q8VEC4
Cytogenetics:	19 C3
Gene Summary:	Pore-forming subunit of a voltage-gated ion channel.[UniProtKB/Swiss-Prot Function]