

## Product datasheet for **RR202041**

### Calhm2 (NM\_001008306) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Calhm2 (NM_001008306) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Calhm2
Synonyms:	Fam26b; RGD1308276
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR202041 representing NM_001008306 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGCAGCCTTGATTGCAGAGAAGCTCCGCTTCTGTCTCTCTTCAAGAGCAAGGATGTCATGATTT  
TCAACGGGCTGGTGGCCCTGGGCACGGTGGCAGTCAGGAGCTGTTCTCAGTGGTGGCCTCCACTGTCC  
CTGCTCACCTGCCCGAACTACCTGTATGGGCTGACAGCCATTGGTGTGCCTGCGCTGGCACTCTCCTC  
ATTGGAGTCATCCTCAACAACCACACTTGAACCTAGTTGCTGAGTGCCAGTACCGGAGGGCCAAGAAGT  
GTTCTGTGCCCCACCTTCTCCTCCTAAGTTCTATCCTGGGCCGTGCAGCCGTGGCCCCAGTCACTG  
GTCTGTTATCTCCCTGCTTCGAGGGGAGGCCTACGTCTGTGCACTCAGTGAGTTTGTGGACCCCTCCTCG  
CTCACGGCTGGGATGAAGGTTTCCCCAGACCATGCCACAGAGATCTTAGCCAGGTTCCCTTGGCGAG  
AGGGCCCTGCCAACCTATCGGGCTTCGAGAGGAGGTGAGCCGAGGCTCAAGTATGAGTCCCAGCTCTT  
TGGATGGCTGCTCATCGGCGTGGTGGCCATCCTGGTGTCTGACCAAGTCTCAAGCATTACTGCTCA  
CGGCTCAGTACCGCCAGGAGGCCTACTGGCGCAGTACCGCACCAACGAGGACCAGTGTCCAGCGCA  
CGGCAGAGGTGCATTGAGGGTGTGGCCGCAACAAGTGGCCGTTTCTTTGGCTTCGTGGCTCTCAA  
CAAGGATGACGAAGAGCTGGTCACCAAGTTCCCGGTGGAAGGCACACAGCCACGGCCACAGTGGAAAGCT  
ATCACCGGGTCTATTTGTACCGCGAGAACCAGGGCTCCCACTCTATAGTCGTTACACAAGTGGGCC  
AGGGCCTGACGGTAATGGCACAGCCCCTGACAATGTAGAGATGGCCCTGCTCACTGTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR202041 representing NM\_001008306  
Red=Cloning site Green=Tags(s)

MAALIAENFRFLSLFFKSKDVMIFNGLVALGTVGSQELFSVVAFHPCPCSPARNLYGLTAIGVPALALFL  
 IGVILNNHTWNLVAECQYRRAKNCSPAATFLLSSILGRAAVAPVTWSVISLLRGEAYVCALSEFVDPSS  
 LTAGDEGFPPDHATEILARFPCGEGPANLSGFREEVSRRLKYESQLFGWLLIGVVAILVFLTKCFKHYCS  
 PLSYRQEAYWAQYRTNEDQLFQRTAEVHSRVLAAANNVRRFFGFVALNKDDEELVTKFPVEGTQPRPQWNA  
 ITGVVLYRENQGLPLYSRLHKWAQGLTGNGTAPDNVEMALLTV

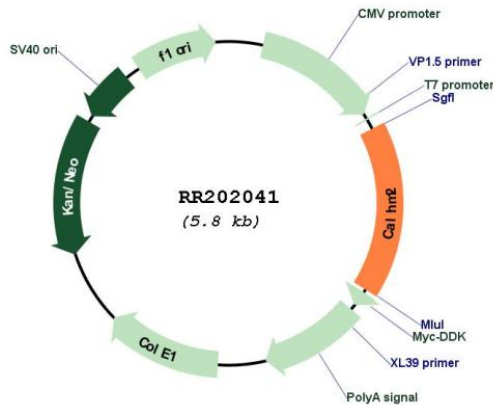
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001008306

**ORF Size:** 969 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001008306.1</a> , <a href="#">NP_001008307.1</a>
<b>RefSeq Size:</b>	1855 bp
<b>RefSeq ORF:</b>	972 bp
<b>Locus ID:</b>	294019
<b>UniProt ID:</b>	<a href="#">Q5RJQ8</a>
<b>Cytogenetics:</b>	1q54
<b>MW:</b>	35.9 kDa
<b>Gene Summary:</b>	Pore-forming subunit of a voltage-gated ion channel.[UniProtKB/Swiss-Prot Function]