

Product datasheet for **MG227489**

Ncald (NM_001170866) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ncald (NM_001170866) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Ncald
Synonyms: AI848120; D030020D09Rik; D15Ert412e
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG227489 representing NM_001170866
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGGAAACAGAACAGCAAGCTGCGCCCTGAAGTCATGCAGGACTTACTGGAAAGCACAGACTTCACAG
 AGCACGAGATCCAGGAGTGGTACAAAGGCTTCTTGAGAGACTGCCCCAGCGGACATTTATCAATGGAAGA
 GTTTAAGAAAATATATGGGAACTTTTCCCTTACGGGGATGCTTCCAAATTTGCAGAGCATGTCTCCGC
 ACCTTCGATGCAAACGGTATGGACAATAGACTTTAGAGAGTTCATCATAGCCCTGAGTGTGACATCAA
 GGGCAAGCTGGAGCAGAAGCTGAAGTGGCCTTCAGCATGTATGACCTGGATGGCAATGGCTACATCAG
 CAAGGCAGAAATGCTGGAGATTGTACAGGCGATCTACAAAATGGTTTCTCTGTCATGAAAATGCCTGAA
 GATGAATCAACCCAGAGAAAAGGACAGAAAATATCTTCCGCCAGATGGATACCAATAGAGATGGAAGC
 TCTCCCTGGAAGAATTCATCCGAGGGGCCAAAAGCGACCCATCCATTGTGCGTCTCTGCAGTGTGACCC
 CAGCAGTGCCGGCCAGTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG227489 representing NM_001170866
 Red=Cloning site Green=Tags(s)

MGKQNSKLRPEVMQDLLESTDFTEHEIQEWYKGLRDCPSGHLMEEFKKIYGNFFPYGDASKFAEHVFR
 TFDANGDGTIDFREFIIALSVTSRGKLEQLKWAFSMYDLGNGYISKAEMLEIVQAIYKMVSSVMKMP
 DESTPEKRTENIFRQMDTNRDGKLSLEEFIRGAKSDPSIVRLLQCDPSSAGQF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

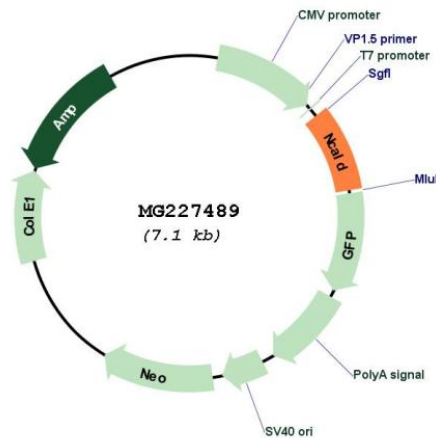


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001170866

ORF Size: 579 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_001170866.1](#), [NP_001164337.1](#)

RefSeq Size: 3538 bp

RefSeq ORF: 582 bp

Locus ID: 52589

UniProt ID: [Q91X97](#)

Cytogenetics: 15 14.94 cM

Gene Summary: May be involved in the calcium-dependent regulation of rhodopsin phosphorylation. Binds three calcium ions (By similarity).[UniProtKB/Swiss-Prot Function]