

Product datasheet for **MR218315**

Cgref1 (NM_026770) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cgref1 (NM_026770) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Cgref1
Synonyms: 1110004G24Rik; AW045201; Cgr11
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR218315 representing NM_026770
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCCACGTGGAGCCGCCCGGGGAGGGCCGGCTGCGGGCAGCCGGGCGAGAGCGGCGCGGTGCCTATA
GAGTTCACGAAGCCGGAGCCCCAGTCGCGCACAGCGCCGCCGAGCAGCTCCAGTTTCCAGCAGGATGTT
CCAGTGGCTGATGCAAGCGTTGATGCTGCCACTATTGCTGCTCCCTTTAGGTCGAGCTGCTCCCAAGGAT
GGAGTTGCAAGGTTGGACCCTGAGGTACAACAGCAGCTCACACCCAACCTTTCCAGCCAGGCCCTGAGC
AGCTCCGACATCTGCAGAATTATCTCAAGGGACTAGAGAAGATGGAAGAGGATCCTGAGCACATGGACCG
GGAGCAAGTCTGCTTTGCTCTTTGCTCTTCATGACTATGACCAGAATGGACAGCTGGACGGCCTGGAG
CTACTGTCCATGCTGACAGCAGCTCTGGCCCTGGAGCTGCACACTTTCCATCAACCCGGTGATCCTAG
TAGTAGACTCGGTGCTCGAGACTCAGGACCTGGATGGAGACGGGCTCATGACTCCTGCAGAGCTCATCAA
CTTCCCAGAAGTCCCCAAACACACAGAGTCCCTTCCCCAGCTCTCCAGGAGCCACAACCTGCTGGAAGT
CAGCCACTTTTAGCCAACAGTCCACTGCAGTCAGAAACCCAGCAGTCCCTGGGGACTAAAGAAATTAGGA
GCCAGGTAGAGGCCAAGAGGGCGTCTTGGAGCCTGAACAGGAGGCTGGACATCAGACAGAGGGAAAAAGT
AGATACCCTAAGCCCTGAAGAGGAGGCTAGGGGACAGGCAGAGTCTGAAGGAGATGTTCCAGGTCCCAGA
GAAGGTGCTGAGGAACAGGTGGAGATCAAGGACAATGAAGGAGAAGCCAAAGAAGTCTGGTGAAACAC
TGGAGAGCCTAAACACTCCAATGAGGCTGAGGCTCATAGCATCCAATTGGAGAACGATGAGATA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR218315 representing NM_026770
Red=Cloning site Green=Tags(s)

MATWSRPGEGRLRAAGRERRGAYRVHEAGAPVAHSAAAAAPVSSRMFQWLMQALMLPLLLLPLGRAAPKD
 GVARLDPEVQQLTPNPFQPGPEQLRHLQNYLKGLEKMEEDPEHMDREQVLLSLFALHDYDQNGQLDGLE
 LLSMLTAALAPGAAHFPINPVILVVDSVLETQDLDDGLMTPAELINFPEVPKHTESLPPALQEPQFAGS
 QPLLANSPLQSETQQSLGTKEIRSQVEAKRASLEPEQEAGHQTEGKVDTLSPEEEEARGQAESEGDVPGPR
 EGAEEQVEIKDNEGEAKELLVETLESLNTPNEAEHHSIQLENDEI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_026770

ORF Size: 975 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_026770.1](#), [NP_081046.1](#)

RefSeq Size: 1350 bp

RefSeq ORF: 978 bp

Locus ID: 68567

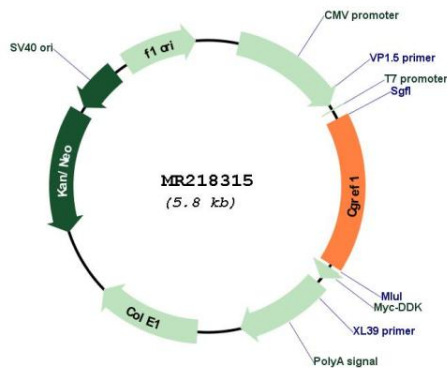
UniProt ID: [Q8R1U2](#)

Cytogenetics: 5 B1

MW: 35.9 kDa

Gene Summary: Mediates cell-cell adhesion in a calcium-dependent manner. Able to inhibit growth in several cell lines (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR218315