

Product datasheet for **MR207148**

Clu (NM_013492) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Clu (NM_013492) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Clu
Synonyms:	A; A1893575; Apoj; C; Cli; D14Ucl; D14Ucla3; Sg; Sgp; Sgp-2; Sgp2; SP-; SP-40; Sugp; Sugp-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR207148 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAGATTCTCCTGCTGTGCGTGGCACTGCTGCTGATCTGGACAATGGCATGGTCTGGGAGAGCAGG
 AGGTCTCTGACAATGAGCTCCAAGAAGTGTCCACTCAAGGGAGTAGGTATTAATAAGGAGATTAGAA
 CGCCGTCCAGGGAGTGAAGCACATAAAAACTCTCATAGAAAAACCAACGCAGAGCGCAAGTCTTGCTC
 AACAGTTTAGAGGAAGCCAAGAAGAAGAAAGAGGATGCTCTGGAGGACTAGGGATTCTGAAATGAAGC
 TGAAGGCATTCGGAAGTGTGTAAACGAGACCATGATGGCCCTCTGGGAGGAGTGAAGCCCTGCCTGAA
 GCATACCTGCATGAAGTCTATGCACGTGTCTGCAGGAGCGGCTCAGGGCTGGTCCGCCAGCAGCTAGAG
 GAGTTTCTAAACCAGAGCTCACCTTCTACTTCTGGATGAACGGCGACCGCATCGACTCCCTGCTGGAGA
 GTGACCGGCAGCAGAGCCAAGTCTGGATGCCATGCAGGACAGCTTTGCTCGGGCATCTGGCATCATAGA
 CAGCTCTTTAGGACCGGTTCTTCGCCGTGAGCTTCATGACCCCACTACTTCTCCCCATCGGCTTC
 CCACACAAGAGGCTCATTCTTATATCCCAAGTCCCGCTTGGTCCGCAGCCTCATGTCTCCCTCCCACT
 ATGGGCCCTCCGAGCTTCCACAACATGTTCCAGCCTTTCTTTGAGATGATCCACCAGGCTCAACAGGCCAT
 GGATGTCCAGCTCCACAGCCAGCCTTCCAGTCCAGACGTGGATTTCTTAAGAGAAGGTGAAGATGAC
 CGCACTGTGTGAAGGAGATCCGCCGCAACTCCACAGGATGCCTGAAGATGAAGGGCCAGTGTGAAAAGT
 GCCAGGAGATCTGTCTGTGGACTGTTCAACCAACAATCTGCCAGGCTAACCTGCGCCAGGAGCTGAA
 CGACTCGCTCCAGGTGGCCGAGAGGCTGACAGAGCAGTACAAGGAGCTGCTGCAGTCTTCCAGTCAAG
 ATGCTCAACACCTCATCCCTGCTGGAGCAGCTGAACGACCAGTCAACTGGGTGTCCAGCTGGCTAAC
 TCACACAGGGCGAAGACAAGTACTACTTCGGGTCTCCACCGTGACCACCCATTCTCTGACTCAGAGGT
 CCCCTCCCGTGTCACTGAGGTGGTGGTGAAGCTGTTGACTCTGACCCCATCACAGTGGTGTACCAGAA
 GAAGTCTTAAGGATAACCTAAGTTTATGGACACAGTGGCGGAGAAGGCCTACAGGAATACCGAGGA
 AAAGCCGTGCGGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207148 protein sequence
 Red=Cloning site Green=Tags(s)

MKILLLCVALLL IWDNGMVLGEQEVSDNELQELSTQGSRYINKEIQNAVQGVKHIKTLIEKTNAERKSL
 NSLEEAKKKKEDALETRDSEMKLKAFPEVCNETMMALWEECKPCLKHTCMKFYARVCRSGSGLVGQLE
 EFLNQSSPFYFWMNGDRIDSLES DRQQSQVLDAMQDSFARASGIIDTLFQDRFFARELHDPHYFSPIGF
 PHKRPHFLYPKSRLVRSLMSPSHYGPPSFHNMFPFFEMIHQAQQAMDVQLHSPAFQFPDVFDFREGEDD
 RTVCKEIRRNSTGCLKMKGQCEKQEIILSVDCSTNNPAQANLRQELNDSLQVAERL TEQYKELLQSFQSK
 MLNTSSLLEQLNDQFNWVSQLANLTQGEDKYYLRVSTVTTHSSDSEVPSRVTEVVVKLFDSDPITVVLPE
 EVSKDNPKFMDTVAEKALQEYRRKSRAE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_013492

ORF Size: 1347 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

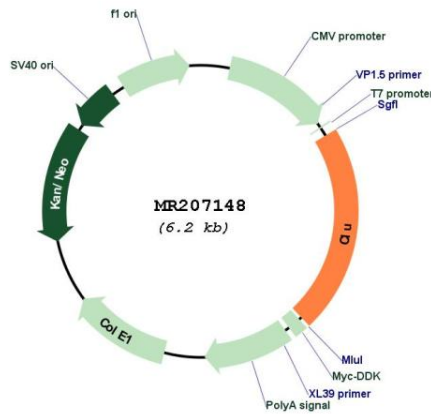
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_013492.3](#)
 RefSeq Size: 1808 bp
 RefSeq ORF: 1347 bp
 Locus ID: 12759
 UniProt ID: [Q06890](#)
 Cytogenetics: 14 34.36 cM
 MW: 51.7 kDa

Gene Summary: The protein encoded by this gene is a secreted chaperone that can, under some stress conditions, also be found in the cell cytosol. It has been suggested to be involved in several basic biological events such as cell death, tumor progression, and neurodegenerative disorders. The encoded preproprotein undergoes proteolytic processing to generate a disulfide-linked heterodimeric mature protein comprised of alpha and beta subunits. Mice lacking the encoded protein exhibit increased severity of autoimmune myocarditis, faster progression of the acute inflammation to myocardial scarring and decreased brain injury following neonatal hypoxic-ischemic injury. [provided by RefSeq, Nov 2015]

Product images:



Circular map for MR207148