

Product datasheet for **MC219604**

Clgn (NM_009904) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Clgn (NM_009904) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Clgn
Synonyms:	4930459O04Rik; A2/; A2/6; AI528775; C; calne; Cln
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >MC219604 representing NM_009904
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCGTTTCCAGGGTGTGGACTATGTTTGGTCTCCTGTTCATCACGGTCAATGCGGACTTTATGGATG
 ATGGTGTGAGGTGGAAGACTTCAGTGAAAATTCAGACGAGAGTAATATTAAGATGAACCTTCCTCGGG
 GACTTTTAAGTATAAGACACCTCAACCTATAGGAGAAGTATTTTACAGAAACATTTGATAGTGAAAT
 CTGGCTGGGTGGGTCTTATCAAAAGCAAAGAAGGATGATATGGATTACAGAAATTGCTATATATGATGGAA
 GATGGGAAATAGAAGAACTGAAGGAAAACCAGGTGCCTGGCGACAGAGGGCTGGTTCTGAAGTCTAAAGC
 CAAGCACACGCAATAGCCGCTGTCTCGAAAAACCTTTATTTTTGCCGATAAACCTTTGATAGTTCAA
 TATGAAGTAAATTTCAAGATGGTATTGATTGTGGAGTGCATACATTAAGTCTAGCAGACACTGGTG
 ATTTGATTCTGGAAAACCTTTATGATAAAACATCTATACCATCATGTTTGGACCAGATAAATGTGGAGA
 GGATTATAAACTTCATTTAATCTCCGACACAAACATCCGAAAACCTGGAGTTTTTGAAGAAAAGCATGCC
 AAGCCTCCAGATGTCGATCTGAAGGAGTCTTTACAGACAGGAAGACTCACCTCTATACCTTGTGATGA
 ATCCGGATGATACATTTGAAGTATTAATTGATCAGAAAAGTTGTGAACCAAGGGACCTTGCTAGATGATG
 GGTCCCGCTATCAACCCACCCAGAGAAATGACGACCCAGTGATAAAAAGCCAGAGGAGTGGGATGAC
 AGAGCCAAGATCCCGACCCCTACCGCCGTACGGCCAGAGGACTGGGATGAAAATGAACCTGCCAAATAG
 AAGACTCAAGTGTGTTAAACCTGATGGCTGGCTTGTGATGAACCAAAGTTTATCCCAATCCTAAAGC
 TGAGAAACCTGAGGACTGGAGTGACGACATGGATGGAGAATGGGAGGCACCACATATTCTAATCCAGCC
 TGTCAGATTGGATGTGGAGAATGGAACCTCCCATGATCGATAACCCAAAATACAAGGAATCTGGAGAC
 CACCAATGATCAATAATCCTAACTACCAGGACTCTGGAGTCTCAGAAGATTCCAACCCAGATTACTT
 TGAGGATGACCACCCCTTCTCCTGACTTCTTTCAGTGCCTGGGCTTAGAGCTTTGGTCCATGACTCCT
 GACATCTACTTTGATAATTTTATCATCTGTTCAGAAAAGGAGGTGGCCGATCAGTGGGCTACAGATGGCT
 GGGAACTGAAGATAATGGTGGCAAATGCTAATGAGCCTGGTGTACTCCGACAGCTGGTATAGCCGAGA
 GGAGCGCCCTGGCTCTGGCTCATGTACCTGGTATGGCCGGCTTGCCCGTTGCATTAGTTGCTTCTTT
 TGTTGGCCAAGGAAAGTAAAGAAAAATATGAAGACACGGGACCTAAAAAACTGAATTATGCAAATGC
 AAAGCAAGGCCGCTCTGGAACAAGAGGCAGAGGAGGAGAAGGCCCCAGAGAAGCCAGAAGATGTGCAAGA
 AGAAAAGAAGCCAGGTGAAGCTGAGGTCGTCACCGTGGAAAAGGAAGTAATTGGTGAACCGAAGAGAAG
 AGTAAGGAAGACAGAGAACTCTAGAAGGTCAAGAGGAAGTGAGCAAGCTGAGTAAATCTGGATCAGAGG
 ATGAGATGAAGGACGCTGATGAGAGCCAGGATCTGGAGATGCCCACTGAAGTCATTGCCGAAGAGGAG
 GGTACGGAAGGAT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja2397_f05.zip

Restriction Sites: SgfI-MluI

ACCN: NM_009904

Insert Size: 1836 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](#)

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_009904.3](#), [NP_034034.2](#)

RefSeq Size: 2307 bp

RefSeq ORF: 1836 bp

Locus ID: 12745

UniProt ID: [P52194](#)

Cytogenetics: 8 39.97 cM

Gene Summary:

This gene belongs to the calreticulin family, which includes calreticulin, calnexin, and calmeglin, and encodes a calcium-binding molecular chaperone specifically expressed in pachytene stage male germ cells. It is required for the proper folding of newly synthesized membrane proteins in the endoplasmic reticulum including those critical for sperm migration from the uterus into the oviduct and sperm adhesion to and penetration of the zona pellucida. This gene plays a key role in spermatogenesis and male infertility. Alternative splice variants exist for this gene. [provided by RefSeq, Jul 2016]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). Both variants 1 and 2 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.