

Product datasheet for **MC218890**

Gldn (NM_177350) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gldn (NM_177350) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gldn
Synonyms:	Clom; Colm; CRG-L2; Crgl2; Crlg2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC218890 representing NM_177350
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACCCGAGCCGAGAGCGAGGCCAAGGGGCTACAGGCTGGGGGCTGCGCGGCCCTGGTGGCCATAG
 CGCTGCTGTCCGCACTGAACGCCGCGGGCACCGTGTTCTGTGCTGTGCCAGTGGCGGGGTTAAGCGCGGC
 GCTACGGGCGCTGGAGGCTCAACGCGGCCGAGAGCAGCGCAGGACAGCGCCCTACGCGCCTTTCTGGCC
 GAATTGAGTCGTGCGCCGGGCGGGTCCCCGAACCATCCAGGACCCATGAGCGCAGCGCGCAACAAGC
 GCAGCCACAACGCGAGCCTGCGTCACACATCCGTGCGGAGAGCCAGGACATGATGATGATGACCTA
 CTCCATGGTGCCGATTGAGTGATGATAGACCTGTGCAACAGTACCCAGGGCATCTGCCTCACAGGACCA
 CCGGGCCACCAGGACCTCCAGGAGCGCGGGTTACCAGGCCACAATGGATCAGATGGACGCCTGGTC
 TCCAGGGCCAAAAGGAGAAAAAGGAGCAATTGGCAAGAGAGGAAAAATGGGGTTACCTGGAGCCACCGG
 AAATCCAGGGGAAAAGGGAGAAAAGGGAGATGCTGGTGAAGTGGGTCTACCTGGAATGAGGGCCACCA
 GGGCAGAAAGGTGACAAGGGAGACAAAGGAGACGTGTCCAATGACGTGCTTTTGACAGGTGCCAAAGGTG
 ACCAAGGTCCCCCTGGCCCCCTGGACCTCCAGGGCCTCCAGGCCCTCCTGGAAGCAGAAGATCCAAAGG
 CCCTCGGCCACCAAACGTGTTCAACAGCCAGTGTCCAGGGGAGACGTGTGTATACCCAATGATGATACC
 TTGGTGGGAAGAGCTGATGAGAAAGCAAATGAACGCCATTACCACAAACAGAATCTATGATCACTTCCA
 TTGGCAACCCAGCCCAAGTCCTAAAAGTGAGAGAGACTTTTGGGACTTGATGAGAGAGTCTGCTAACAA
 AAGTGACGACCGCATTTGGGTGACTGAACATTTTTCAGGCATCATGGTGAAGGAGTTCAAAGACCTGCCG
 GCGCTCCTCAATAGCAGCTTACCCTCTCCACCTCCACATTATTTCCACGGCTGTGGGCACGCTGTTT
 ACAACAACCTCTCTACTACCACAAAGGAGGCTCCAACACCATAGTGAGATTTGAATTTGGGAAAGAGAC
 ACCTCAGACTCTGAAGCTGGAAAAATGCTTTGATTTTGATCGAAAAATACCTCTTTGCAAAATTCAGACT
 TACTTCAACATAGCAGTGGATGAGAAGGCATCTGGATTATCTACGCTTCAAGTGTGGATGGCTCAAGCA
 TCCTTGTAGCACAGCTGGATGAGAGGACATTCTCCGTGACACAGCACATCAACACCACATACCCCAAATC
 CAAGGCTGGCAATGCCTTCATAGCCGAGGGATCCTCTATGTCACAGACACCAAAGATACGAGGGTCACG
 TTTGCCTTTGATTTGTTAGGAGGAAAGCAAATCAATGCAAACCTTTGATTTGAGATGTCCAGTCTGTTC
 TTGCCATGCTGTCATACAACATGAGAGATCAGCATTTATACTCGTGGGAAGATGGCCATCTGATGCTCTA
 TCCTGTGCACTTCTGTGACGGCATCAAGTCAGCGG**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_177350

Insert Size: 1650 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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:	<u>NM_177350.5, NP_796324.1</u>
RefSeq Size:	4649 bp
RefSeq ORF:	1650 bp
Locus ID:	235379
UniProt ID:	<u>Q8BMF8</u>
Cytogenetics:	9 A5.3
Gene Summary:	Ligand for NRCAM and NFASC/neurofascin that plays a role in the formation and maintenance of the nodes of Ranvier on myelinated axons. Mediates interaction between Schwann cell microvilli and axons via its interactions with NRCAM and NFASC (PubMed:20188654). Nodes of Ranvier contain clustered sodium channels that are crucial for the saltatory propagation of action potentials along myelinated axons. During development, nodes of Ranvier are formed by the fusion of two heminodes. Required for normal clustering of sodium channels at heminodes; not required for the formation of mature nodes with normal sodium channel clusters (PubMed:20188654). Required, together with NRCAM, for maintaining NFASC and sodium channel clusters at mature nodes of Ranvier (PubMed:24719088).[UniProtKB/Swiss-Prot Function]