

Product datasheet for **MR206798**

Chrdl2 (NM_133709) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chrdl2 (NM_133709) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Chrdl2
Synonyms:	1810022C01Rik; Chl2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR206798 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGTTCCCGGGGTGAGGATCATCCCCTCTTTGCTGGGACTCGTGATGTTCTGGCTCCCCTGGACTCAC
 AAGCACGATCCCCTCGGGCAAAGTCTGCCTTTTCGGTAAAAGATATATACCCCGGCCAGAGCTGGCA
 CCCCTACTTGAACCAAGGCACGATATACTGCGTGCCTGTACCTGCTCTGAGAATGGACATGTGAAT
 TGTACCGCCTCCGCTGCCACCCCTTCACTGCTCACAGCCTGTGATGGAGCCACAGCAATGCTGTCCCA
 GGTGTGTGGATCCTCATGTCCCCTCTGGCTCCGAGTTCCTAAAGTCTGCCAGCTCAATGAGACCAC
 ATACCAACATGGAGAGATCTTCAGTGCCAGGAGCTGTTCCCTGCCCGCCTGTCCAACAGTGTGCCTG
 TGTAGCTGTATTGAAGGCCACACTACTGTGGTCTCATGACCTGTCTGAACCCAGCTGCCCCACCACAC
 TCCCTCTGCTGATTCTGCTGTCAGACCTGCAAAGACAGGACAACCTGAGAGCTCCACAGAAGAAACTT
 GACACAGCTGCAGCATGGAGAGAGACATCCCAGGATCCATGCTCGGAGAGGAGAGGCCCCAGCAGCCCA
 GCCCCACCAGCCTCAGCTCCCCTCTGGGCTTCATCCCTCGCCACTTCCAGTCAAGTGAATGGGCAGCA
 CAACCATCAAGATTATCTTGAAGGAGAAACATAAAAAAGCTTGCACACACAATGGGAAGACATACTCCCA
 TGGGGAGGTGTGGCACCCCACTGTGCTCTCCTTTGGCCCATGCCCTGCATCCTGTGCACATGTATCGAT
 GGCTACCAGGACTGCCACCGTGTGACCTGCCCCACCAATATCCCTGCAGTCAACCCAAGAAAGTGGCTG
 GGAAGTGTGCAAGATCTGCCAGAGGACGAGGCGGAAGATGACCACAGTGAAGTCAATTTCCACCCGGTG
 TCCCAAGTACCAGGCCAGTTCATGTGTACACGTTGGCATCTCCAAGCCAGACAGCCTACACCGCTTT
 GTCCTGGAGCATGAAGCCTCTGACCAGGTAGAGATGTACATTTGGAAGCTGGTGAAGGAATCTACCACT
 TGGTTTCAGATCAAGAGAGTCAGGAAGCAAGATTTCCAGAAAGAGGCTCAGAACTTCCGGCTGCTCACCGG
 CACCCATGAAGGTTACTGGACCGTCTTCTAGCCAGACTCCAGAGCTGAAAGTTACAGCCAGCCAGAC
 AAAGTGACCAAGACATTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR206798 protein sequence
 Red=Cloning site Green=Tags(s)

MVPGVRIIPSLGLVMFWPLDLSQARSRSQKLVCLFGEKIYTPGQSWHPYLEPQGTIYCVRCTCSENGHVN
 CYRLRCPPLHCSQPMPEPQQCCPRCVDPHVPSGLRVPLKSCQLNETTYQHGEIFSAQELFPARLSNQCVL
 CSCIEGHTYCGLMTCPEPSCPTTLPDSCCQTKDRTTESSTEENLTQLQHGERHSQDPCSERRGPSTP
 APTSLSSPLGFIPRHFQSVGMGSTTIKILKEKHKKACTHNGKTYSHGEVWHPTVLSFGPMPICILCTCID
 GYQDCHRVTCPYPCSQPKKQVAGKCKICPEDEAEDDHSEVISTRCPKVPQGFHVYTLASPSDSLHRF
 VLEHEASDQVEMYIWKLVKGIYHLVQIKRVRKQDFQKEAQNFRLLTGTHEGYWTVFLAQTPELKVTPASP
 KVTKTL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:


ACCN: NM_133709

ORF Size: 1281 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_133709.2](#), [NP_598470.2](#)
RefSeq Size: 1520 bp

RefSeq ORF: 1281 bp

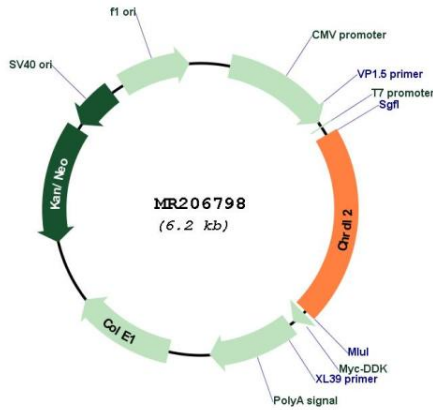
Locus ID: 69121

UniProt ID: [Q8VEA6](#)
Cytogenetics: 7 E2

MW: 47.8 kDa

Gene Summary: Implicated in tumor angiogenesis (By similarity). May inhibits BMPs activity by blocking their interaction with their receptors. Has a negative regulator effect on the cartilage formation/regeneration from immature mesenchymal cells, by preventing or reducing the rate of matrix accumulation. May play a role during myoblast and osteoblast differentiation, and maturation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206798