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Product datasheet for MR229880

Chrdl2 (NM_001291320) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chrdl2 (NM_001291320) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Chrdl2
Synonyms:	1810022C01Rik; Chl2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR229880 representing NM_001291320 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGCGGCACAAAGATCAGACACCACTCTGGGTAGGACCCGAACCTGTTGCGCATTCTTGTATTCAGGAGT TCTTCATTGTGTCTCAGCCAAGTTTGTTTGCTCGCTCGGGCAAAGTCTGCCTTTTCGGTGAAAAGATATA TACCCCCGGCCAGAGCTGGCACCCCTACTTGGAACCACAAGGCACGATATACTGCGTGCGCTGTACCTGC TCTGAGAATGGACATGTGAATTGTTACCGCCTCCGCTGCCCACCCCTTCACTGCTCACAGCCTGTGATGG AGCCACAGCAATGCTGTCCCAGGTGTGTGGATCCTCATGTCCCCTCTGGCCTCCGAGTTCCCCTAAAGTC CTGCCAGCTCAATGAGACCACATACCAACATGGAGAGATCTTCAGTGCCCAGGAGCTGTTCCCTGCCCGC CTGTCCAACCAGTGTGTCCTGTGTAGCTGTATTGAAGGCCACACTTACTGTGGTCTCATGACCTGTCCTG AACCCAGCTGCCCCACCACACTCCCTCTGCCTGATTCCTGCTGTCAGACCTGCAAAGACAGGACAACTGA GAGTTCCACAGAAGAAAACTTGACACAGCTGCAGCATGGAGAGAGACATTCCCAGGATCCATGCTCGGAG AGGAGAGGCCCCAGCACGCCAGCCCCCACCAGCCTCAGCTCCCCTCTGGGCTTCATCCCTCGCCACTTCC AGTCAGTAGGAATGGGCAGCACAACCATCAAGATTATCTTGAAGGAGAAACATAAAAAAGCTTGCACACA CAATGGGAAGACATACTCCCATGGGGAGGTGTGGCACCCCACTGTGCTCTCCTTTGGCCCCATGCCCTGC ATCCTGTGCACATGTATCGATGGCTACCAGGACTGCCACCGTGTGACCTGCCCCACCCAATATCCCTGCA GTCAACCCAAGAAAGTGGCTGGGAAGTGCTGCAAGATCTGCCCAGAGGACGAGGCGGAAGATGACCACAG TGAGGTCATTTCCACCCGGTGTCCCAAGGTACCAGGCCAGTTCCAGGTGTACACGTTGGCATCTCCAAGC CCAGACAGCCTACACCGCTTTGTCCTGGAGCATGAAGCCTCTGACCAGGTAGAGATGTACATTTGGAAGC TGGTGAAAGGAATCTACCACTTGGTTCAGATCAAGAGAGTCAGGAAGCAAGATTTCCAGAAAGAGGCTCA GAACTTCCGGCTGCTCACCGGCACCCATGAAGGTTACTGGACCGTCTTCCTAGCCCAGACTCCAGAGCTG AAAGTTACAGCCAGCCCAGACAAAGTGACCAAGACATTA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

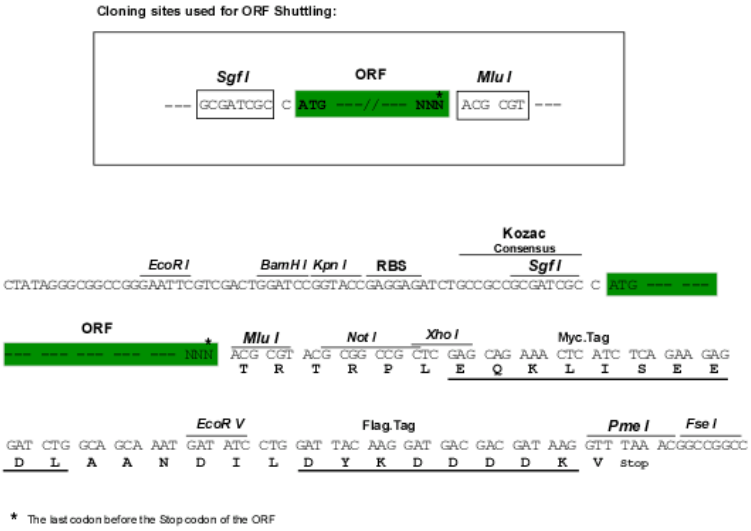
>MR229880 representing NM_001291320
Red=Cloning site Green=Tags(s)

MRHKDQTPLWVGPEPVAHSCIQEFFIVSQPSLFARSGKVCLFGEKIYTPGQSWHPYLEPQGTIYCVRCTC
SENGHVNCYRLRCPPLHCSQPVMEPQQCCPRCVDPHVPSGLRVPLKSCQLNETTYQHGEIFSAQELFPAR
LSNQCVLCSCIEGHTYCGLMTCPEPSCPTTLPLPDSCCQTCKDRTTESSTEENLTQLQHGERHSQDPCSE
RRGPSTPAPTSLSSPLGFIPRHFQSVGMGSTTIKIILKEKHKKACTHNGKTYSHGEVWHPTVLSFGPMPC
ILCTCIDGYQDCHRVTCPTQYPCSQPKKVAGKCCKICPEDEAEDDHSEVISTRCPKVPGQFQVYTLASPS
PDSLHRFVLEHEASDQVEMYIWKLVKGIYHLVQIKRVRKQDFQKEAQNFRLLTGTHEGYWTVFLAQTPEL
KVTASPDKVTKTL

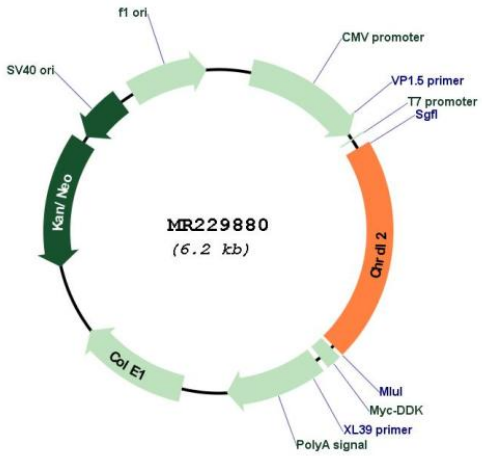
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001291320

ORF Size:	1299 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_001291320.1, NP_001278249.1
RefSeq Size:	1478 bp
RefSeq ORF:	1302 bp
Locus ID:	69121
UniProt ID:	Q8VEA6
Cytogenetics:	7 E2
MW:	49.1 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]