

Product datasheet for MR204928

Chrdl1 (NM_031258) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chrdl1 (NM_031258) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Chrdl1
Synonyms:	CHL; CHL1; Nrln1; VOPT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204928 representing NM_031258 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATGGCATGAAATACATCATTTCTTATTTTTTCATCTTTGTTTTCTAGAAGGAAGCAAACAGAAC
AAGTAAACACTCAGACACATATTGCGTGTTCAGACAAGAAGTATAGAGTGGGTGAGAAATGGCATCC
CTACCTGGAACCGTATGGACTGGTTACTGTGTGAAGTGCATCTGCTCTGAGAATGGGAATGTGCTTTGC
AGCCGAGTCAGATGTCCAAGTCTTCATTGCCTTTCACCCGTGCATATTCCTCATCTCTGTTGCCCCCGCT
GCCCAGACTCCTTACCACCAGTGAACAATAAGGTGACCAGCAAGTGCATGCGAATACAATGGAACCACTTA
CCAACATGGAGAAGTGTTCATAGCTGAAGGGCTCTTTCAGAACCAGCAACCAATCAGTGCAGTCAGTGT
AGCTGCTCGGAGGGGAATGTATACTGTGGTCTCAAGACTTGCCCCAAACTGACCTGTGCATTTCCAGTCT
CTGTTCCAGATTCTTGTGCTGCCGAGTATGCAGAGGGGATGCAGAATTATCGTGGGAACATGCCGGATGGTGA
TATCTTCCGGCAACCTGCCAACAGAGAAGCAAGACATTCTTACCTCCGTTCCCCCTACGATCCTCCACCA
AGCAGACAAGCTGGAGGTCTTCCCGCTTTCCTGGGAGCAGAAGTCAACGGGGAGCTGTTATAGATTCCC
AGCAAGCATCCGGGACCATCGTGCAGATTGTCAATAACAAGCACAACATGGACAAGTGTGTGTTTC
CAATGGAAGACCTACTCTCATGGAGAGTCTGGCACCCAAATCTACGAGCATTTGGCATTGTGGAATGT
GTACTATGCACCTTGTAATGTCACCAAGCAAGAATGTAAGAAAATCCAATGCCCAATCGATACCCCTGCA
AGTATCCTCAAAAATAGATGGAAAGTGTGCAGGGTGTGCCAGGTAAGGCAAGGTAAGGTCATTGGC
TGGAGGCCCTGCCTTTGGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204928 representing NM_031258
Red=Cloning site Green=Tags(s)

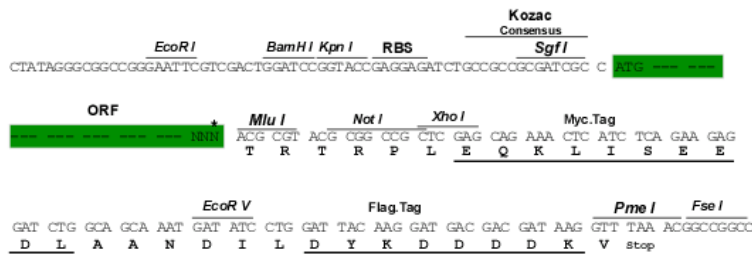
MDGMKYIISLFFIFVFLGSKTEQVKHSDTYCVFQDKKYRVGKWHYPYLEPYGLVYVCNVCISEGNVLC
 SRVRCPSLHCLSPVHIPLCCPRCPDLSPPVNNKVTSKSCEYNGTTYQHGFIAEGLFQNRQPNQCSQC
 SCSEGNVYCGLKTCPKLTCAFPVSVDPDSCCRVCRGDAELSWEHADGDIRQPANREARHSYLRSYDPPP
 SRQAGGLPRFPGSRSHRGAVIDSQQASGTIVQIVINNKHKHGQVCVSNKTYSHGESWHPNLRAFGIVEC
 VLCTCNVTKQECKIHCNRYPCYQKIDGKCCRVCYCGKKAKGALAGGPAFG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_031258

ORF Size: 999 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_031258.1](#), [NM_031258.2](#), [NM_031258.3](#), [NP_112548.2](#)

RefSeq Size: 3291 bp

RefSeq ORF: 1002 bp

Locus ID: 83453

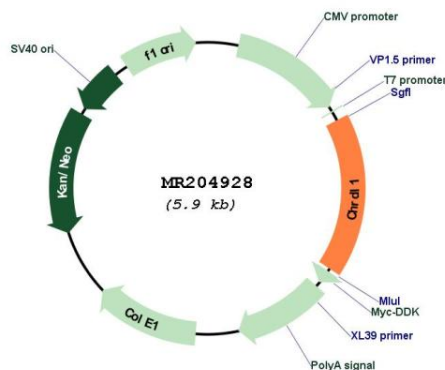
UniProt ID: [Q920C1](#)

Cytogenetics: X F2

MW: 37.5 kDa

Gene Summary: Seems to antagonize the function of BMP4 by binding to it and preventing its interaction with receptors. Alters the fate commitment of neural stem cells from gliogenesis to neurogenesis. Contributes to neuronal differentiation of neural stem cells in the brain by preventing the adoption of a glial fate. May play a crucial role in dorsoventral axis formation (By similarity). Antagonizes the function of BMP7 and may thus play an important role in the embryonic bone formation. Shows no inhibitory effect on the inducing activity of BMP2. Plays a role during anterior segment eye development (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204928