

Product datasheet for **MC216023**

Chrdl1 (NM_001114385) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chrdl1 (NM_001114385) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Chrdl1
Synonyms:	CHL; CHL1; Nrln1; VOPT
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC216023 representing NM_001114385
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGATGGCATGAAATACATCATTTCCTTATTTTTTCATCTTTGTTTTCTAGAAGGAAGCAAACAGAAC
 AAGTAAAACACTCAGACACATATTGCGTGTTCAGACAAGAAGTATAGAGTGGGTGAGAAATGGCATCC
 CTACCTGGAACCGTATGGACTGGTTACTGTGTGAACTGCATCTGCTCTGAGAATGGGAATGTGCTTTGC
 AGCCGAGTCAGATGTCCAAGTCTTCATTGCCTTTCACCCGTGCATATTCCTCATCTCTGTTGCCCCGCT
 GCCCAGACTCCTTACCACCAGTGAACAATAAGGTGACCAGCAAGTCATGCGAATAACAATGGAACCACTTA
 CCAACATGGAGAAGTGTTCATAGCTGAAGGGCTTTTCAGAACCAGCAACCAATCAGTGCAGTCAGTGT
 AGCTGCTCGGAGGGGAATGTATACTGTGGTCTCAAGACTTGCCCCAACTGACCTGTGCATTCCCAGTCT
 CTGTTCCAGATTCTTGCTGCCGAGTATGCAGAGGGGATGCAGAATTATCGTGGGAACATGCGGATGGTGA
 TATCTTCCGGCAACCTGCCAACAGAGAAGCAAGACATTCTACCTCCGTTCCCCCTACGATCCTCCACCA
 AACAGACAAGCTGGAGGTCTTCCCGCTTCTCTGGGAGCAGAAGTCACCGGGGAGCTGTTATAGATTCCC
 AGCAAGCATCCGGGACCATCGTGCAGATTGTCATCAATAACAAGCACAAACATGGACAAGTGTGTGTTTT
 CAATGGAAAGACCTACTCTCATGGAGAGTCTGGCACCCAAATCTACGAGCATTTGGCATTGTGGAATGT
 GTACTATGCACCTGTAATGTCCCAAGCAAGAATGTAAGAAAAATCCACTGCCCAATCGATACCCCTGCA
 AGTATCTCAAAAAATAGATGGAAAGTGTGCAAGGTGTGCCAGAAAGCAACCTCAAGCCAAAACCTTTGA
 CAGCAAAGGTTCCCTTTGTGGAGAAGAAACCATGCCTGTATATGAGTCTGTGTTTCATGGAGGATGGAGAG
 ACAACCAGAAAAGTAGCACTGGAGACCGAGAGACCACCTCAAGTAGAGGTCCACGTTTGGACTATTCAA
 AGGGCATTCTCCAGCACTTCCACATTGAGAAGATTTCCAAGAGGATGTTTGGGGAGCTCCATCATTCAA
 GCTAGTTACTCGGACCACCTTGAACCAGTGAAGCTCTTCACTGAAGGAGAAGCTCAGCTCAGCCAGATG
 TGCTCAAGTCAGGTGTGCAAGCAGAGCTGGAAGATTTAGTCCAGTTTTGTACCTGGGAGACCTGAAA
 AGGACCACTGT**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001114385

Insert Size: 1344 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.

RefSeq: [NM_001114385.1](#), [NP_001107857.1](#)

RefSeq Size: 4060 bp

RefSeq ORF: 1344 bp

Locus ID: 83453

UniProt ID: [Q920C1](#)

Cytogenetics: X F2

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] Transcript Variant: This variant (1) represents the shorter transcript and encodes the longer isoform (1).