

## Product datasheet for **MR216466**

### Chrdl1 (NM\_001114385) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Chrdl1 (NM_001114385) 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)



[View online »](#)

**ORF Nucleotide Sequence:**

>MR216466 representing NM\_001114385  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGATGGCATGAAATACATCATTTCCTTATTTTTTCATCTTTGTTTTCTAGAAGGAAGCAAACAGAAC  
 AAGTAAAACACTCAGACACATATTGCGTGTTCAGACAAGAAGTATAGAGTGGGTGAGAAATGGCATCC  
 CTACCTGGAACCGTATGGACTGGTTTACTGTGTGAACTGCATCTGCTCTGAGAATGGGAATGTGCTTTGC  
 AGCCGAGTCAGATGTCCAAGTCTTCATTGCCTTTCACCCGTGCATATTCCTCATCTCTGTTGCCCCGCT  
 GCCCAGACTCCTTACCACCAGTGAACAATAAGGTGACCAGCAAGTCATGCGAATACAATGGAACCACTTA  
 CCAACATGGAGAAGTGTTCATAGCTGAAGGGCTCTTTCAGAACCAGCAACCAATCAGTGCAGTCAGTGT  
 AGCTGCTCGGAGGGGAATGTATACTGTGGTCTCAAGACTTGCCCCAACTGACCTGTGCATTCCCAGTCT  
 CTGTTCCAGATTCTTGCTGCCGAGTATGCAGAGGGGATGCAGAATTATCGTGGGAACATGCGGATGGTGA  
 TATCTTCCGGCAACCTGCCAACAGAGAAGCAAGACATTCTACCTCCGTTCCCCCTACGATCCTCCACCA  
 AACAGACAAGCTGGAGGTCTTCCCGCTTTCCTGGGAGCAGAAGTCACCGGGGAGCTGTTATAGATTCCC  
 AGCAAGCATCCGGGACCATCGTGCAGATTGTCATCAATAACAAGCACAAACATGGACAAGTGTGTGTTTC  
 CAATGGAAAGACCTACTCTCATGGAGAGTCTGGCACCCAAATCTACGAGCATTGGCATTGTGGAATGT  
 GTACTATGCACCTGTAATGTCAACAAGCAAGAATGTAAGAAAAATCCACTGCCCAATCGATACCCCTGCA  
 AGTATCCTCAAAAAATAGATGGAAAGTGTGCAAGGTGTGCCAGAAAGCACTCAAGCCAAAATTTGA  
 CAGCAAAGGTTCCCTTTTGTGGAGAAGAAACCATGCCTGTATATGAGTCTGTGTTTCATGGAGGATGGAGAG  
 ACAACCAGAAAAGTAGCACTGGAGACCGAGAGACCACCTCAAGTAGAGGTCCACGTTTGGACTATTCAA  
 AGGGCATTCTCCAGCACTCCACATTGAGAAGATTTCCAAGAGGATGTTTGGGGAGCTCCATCATTCAA  
 GCTAGTTACTCGGACCACCTTGAACCAGTGAAGCTCTTCACTGAAGGAGAAGCTCAGCTCAGCCAGATG  
 TGCTCAAGTCAGGTGTGCAAGCAGAGCTGGAAGATTTAGTCCAGGTTTTGTACCTGGGAGACCTGAAA  
 AGGACCACTGT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR216466 representing NM\_001114385  
 Red=Cloning site Green=Tags(s)

MDGMKYIISLFFIFVFLEGSKTEQVKHSDTYCVFQDKKYRVGEKWHPYLEPYGLVYCVNCICSENGNVLC  
 SRVRCPSLHCLSPVHIPHLCCPRCPDSLPPVNNKVTSKSCEYNGTTYQHGFIAEGLFQNRQPNQCSQC  
 SCSEGNVYCGLKTCPKLTCAFPVSVDPDSCCRVCRGDAELSWEHADGDI FRQPANREARHSYLRSYDPPP  
 NRQAGGLPRFPGSRSHRGAVIDSQASGTIVQIVINNKHKHGQVCVSNKTYSHGESWHPNLRFAFGIVEC  
 VLCTCNVTKQECKKIHCNRYPCYPQKIDGKCKVCPEEPPSQNFDSKGSFCGEETMPVYESVFMEDGE  
 TTRKVALETERPPQVEVHVWTIQKILQHFHIEKISKRMFGELHHFKLVTRTTLNQWKLFTGEAQLSQM  
 CSSQVCRTELEDLVQVLYLGRPEKDHC

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/ja1264\\_b02.zip](https://cdn.origene.com/chromatograms/ja1264_b02.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_001114385

**ORF Size:** 1341 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\\_001114385.1](#), [NP\\_001107857.1](#)

**RefSeq Size:** 4060 bp

**RefSeq ORF:** 1344 bp

**Locus ID:** 83453

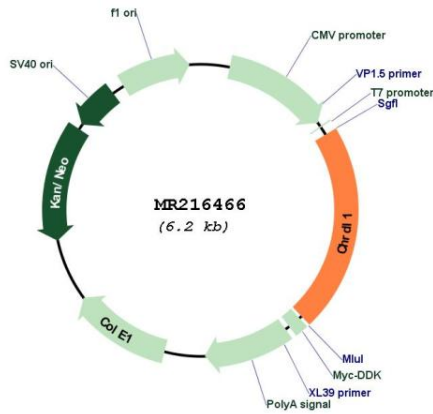
**UniProt ID:** [Q920C1](#)

**Cytogenetics:** X F2

**MW:** 51.2 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 MR216466