

Product datasheet for **MG204928**

Chrdl1 (NM_031258) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Chrdl1 (NM_031258) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Chrdl1
Synonyms: CHL; CHL1; Nrln1; VOPT
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG204928 representing NM_031258
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGATGGCATGAAATACATCATTTCTTATTTTTTCATCTTTGTTTTCTAGAAGGAAGCAAACAGAAC
 AAGTAAACACTCAGACACATATTGCGTGTTCAGACAAGAAGTATAGAGTGGGTGAGAAATGGCATCC
 CTACCTGGAACCGTATGGACTGGTTACTGTGTGAAGTGCATCTGCTCTGAGAATGGGAATGTGCTTTGC
 AGCCGAGTCAGATGTCCAAGTCTTCATTGCCTTTCACCCGTGCATATTCCTCATCTCTGTTGCCCCCGT
 GCCCAGACTCCTTACCACCAGTGAACAATAAGGTGACCAGCAAGTCATGCGAATACAATGGAACCACTTA
 CCAACATGGGAACTGTTTCATAGCTGAAGGGCTCTTTCAGAACCAGCAACCAATCAGTGCAGTCAGTGT
 AGCTGCTCGGAGGGGAATGTATACTGTGGTCTCAAGACTTGCCCCAAACTGACCTGTGCATTTCCAGTCT
 CTGTTCCAGATTCTTGTGCTGCCGAGTATGCAGAGGGGATGCAGAATTATCGTGGGAACATGCCGGATGGTGA
 TATCTTCCGGCAACCTGCCAACAGAGAAGCAAGACATTCTTACCTCCGTTCCCCCTACGATCCTCCACCA
 AGCAGACAAGCTGGAGGTCTTCCCGCTTCTGGGAGCAGAAGTACCAGGGGAGCTGTTATAGATTCCC
 AGCAAGCATCCGGGACCATCGTGCAGATTGTCAATAACAAGCACAACATGGACAAGTGTGTGTTTC
 CAATGGAAGACCTACTCTCATGGAGAGTCTGGCACCCAAATCTACGAGCATTGGCATTGTGGAATGT
 GACTACTGCACCTTGTAATGTCACCAAGCAAGAATGTAAGAAAATCCAAGTCCCAATCGATACCCCTGCA
 AGTATCCTCAAAAATAGATGGAAAGTGTGCAGGGTGTGCCAGGTAAGGCAAGGCAAGGTCATTGGC
 TGGAGGCCTGCCTTTGGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204928 representing NM_031258
 Red=Cloning site Green=Tags(s)

MDGMKYIISLFFIFVFLGSKTEQVKHSDTYCVFQDKKYRVGEKWHYPYLEPYGLVYCVNCICSENGNVLC
 SRVRCPSLHCLSPVHIPLCCPRCPDLSPPVNNKVTSKSCEYNGTTYQHGFLEFIAEGLFQNRQPNQCSQC
 SCSEGNVYCGLKTCPKLTCAFPVSVDPDSCCRVCRGDAELSWHADGDIRQPANREARHSYLRSFYDPPP
 SRQAGGLPRFPGSRSHRGAVIDSQASGTIVQIVINNKHKHGQVCVSNKTYSHGESWHPNLRAFGIVEC
 VLCTCNVTKQECKKIHCNRYPCCKYPQKIDGKCCRVC PGKKAKGALAGGPAFG

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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_031258.2](#), [NP_112548.2](#)

RefSeq Size: 3291 bp

RefSeq ORF: 1002 bp

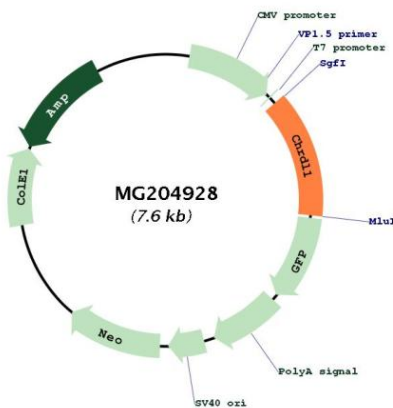
Locus ID: 83453

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]

Product images:



Circular map for MG204928