

Product datasheet for **MG216466**

Chrdl1 (NM_001114385) Mouse Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>MG216466 representing NM_001114385
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGATGGCATGAAATACATCATTTCCTTATTTTTTCATCTTTGTTTTCTAGAAGGAAGCAAACAGAAC
 AAGTAAAACACTCAGACACATATTGCGTGTTCAGACAAGAAGTATAGAGTGGGTGAGAAATGGCATCC
 CTACCTGGAACCGTATGGACTGGTTTACTGTGTGAACTGCATCTGCTCTGAGAATGGGAATGTGCTTTGC
 AGCCGAGTCAGATGTCCAAGTCTTCATTGCCTTTCACCCGTGCATATTCCTCATCTCTGTTGCCCCCGCT
 GCCCAGACTCCTTACCACCAGTGAACAATAAGGTGACCAGCAAGTCATGCGAATAACAATGGAACCACTTA
 CCAACATGGAGAAGTGTTCATAGCTGAAGGGCTCTTTCAGAACCAGCAACCAATCAGTGCAGTCAGTGT
 AGCTGCTCGGAGGGGAATGTATACTGTGGTCTCAAGACTTGCCCCAAACTGACCTGTGCATTCCCAGTCT
 CTGTTCCAGATTCTTGCTGCCGAGTATGCAGAGGGGATGCAGAATTATCGTGGGAACATGCGGATGGTGA
 TATCTTCCGGCAACCTGCCAACAGAGAAGCAAGACATTCTACCTCCGTTCCCCCTACGATCCTCCACCA
 AACAGACAAGCTGGAGGTCTTCCCGCTTTCCTGGGAGCAGAAGTCACCGGGGAGCTGTTATAGATTCCC
 AGCAAGCATCCGGGACCATCGTGCAGATTGTCATCAATAACAAGCACAAACATGGACAAGTGTGTGTTTT
 CAATGGAAAGACCTACTCTCATGGAGAGTCTGGCACCCAAATCTACGAGCATTGGCATTGTGGAAATGT
 GTACTATGCACCTGTAATGTCACCAAGCAAGAATGTAAGAAAAATCCACTGCCCAATCGATACCCCTGCA
 AGTATCCTCAAAAAATAGATGGAAAGTGTGCAAGGTGTGCCAGAAAGCAACCTCAAGCCAAAATTTGA
 CAGCAAAGGTTCCCTTTTGTGGAGAAGAAACCATGCCTGTATATGAGTCTGTGTTTCATGGAGGATGGAGAG
 ACAACCAGAAAAGTAGCACTGGAGACCGAGAGACCACCTCAAGTAGAGGTCCACGTTTGGACTATTCAA
 AGGGCATTCTCCAGCACTTCCACATTGAGAAGATTTCCAAGAGGATGTTTGGGGAGCTCCATCATTCAA
 GCTAGTTACTCGGACCACCTTGAACCAAGTGAAGCTCTTCACTGAAGGAGAAGCTCAGCTCAGCCAGATG
 TGCTCAAGTCAGGTGTGCAAGCAGAGCTGGAAGATTTAGTCCAGTTTTGTACCTGGGAGACCTGAAA
 AGGACCACTGT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG216466 representing NM_001114385
 Red=Cloning site Green=Tags(s)

MDGMKYIISLFFIFVFLGSKTEQVKHSDTYCVFQDKKYRVGKWHYPYGLVYVCNVCISEGNVLC
 SRVRCPSLHCLSPVHIPHLCCPRCPDSLPPVNNKVTSKSCEYNGTTYQHGFIAEGLFQNRQPNQCSQC
 SCSEGNVYCGLKTCPKLTCAFPVSVDPDSCCRVCRGDAELSWEHADGDI FRQPANREARHSYLRSPYDPPP
 NRQAGGLPRFPGSRSHRGAVIDSQQASGTIVQIVINNKHKHGQVCVSNKTYSHGESWHPNLRAFGIVEC
 VLCTCNVTKQECKKIHCNRYPCYPQKIDGKCKVCPEEPPSQNFDSKGSFCGEETMPVYESVFMEDGE
 TTRKVALETERRPPQVEVHVWTIQKILQHFHIEKISKRMFGELHHFKLVTRTTLNQWKLFTEGEAQLSQM
 CSSQVCRTELEDLVQVLYLGRPEKDHC

TRTRPLE – GFP Tag – V

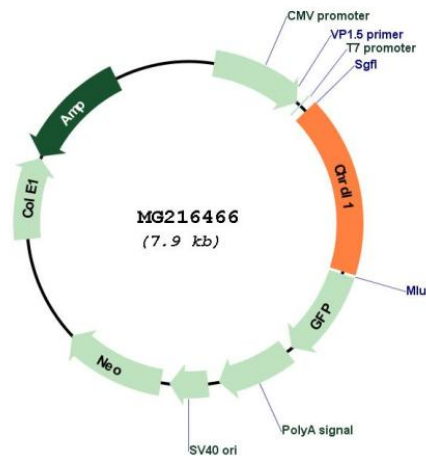
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



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:	<ol style="list-style-type: none">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:	<u>NM_001114385.1</u> , <u>NP_001107857.1</u>
RefSeq Size:	4060 bp
RefSeq ORF:	1344 bp
Locus ID:	83453
UniProt ID:	<u>Q920C1</u>
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]