

Product datasheet for **RG220793**

Chordin (CHRD) (NM_003741) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chordin (CHRD) (NM_003741) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Chordin
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG220793 representing NM_003741
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCGAGCCTCCCGGCCCGCCGGCCCGCTGCTGCTCCTCGGGCTGCTGCTGCTCGGCTCCCGGCCGG
 CCCGCGCGCCGGCCAGAGCCCCCGTGTGCCATCCGTTCTGAGAAGGAGCCGCTGCCGTTCCGGG
 AGCGGCAGGCTGCACCTTCGGCGGGAAGGTCTATGCCTTGACGAGACGTGGCACCCGGACCTAGGGGAG
 CCATTCGGGGTGTGCGCTGCGTGTGCGCCTGCGAGGCGCCTCAGTGGGGTCCGCGTACCAGGGGCC
 CTGGCAGGGTCACTGCAAGAACATCAAACCAGAGTGCCCAACCCGGCCTGTGGCAGCCGCGCCAGCT
 GCCGGGACTGCTGCCAGACTGCCCCAGGAGCGCAGCAGTTCGGAGCGGCAGCCGAGCGGCCTGTCC
 TTCGAGTATCCGCGGGACCCGGAGCATCGCAGTTATAGCGACCCGCGGGAGCCAGGCGTGAAGAGCGG
 CCCGTGGTGACGGCCACACGGACTTCGTGGCGTGTGACAGGGCCGAGGTGCGAGGCGGTGGCAGGAGC
 CCGAGTCTGCTGCTGCGCTCTAGCCTCCGCTTCTATCTCCTACAGGGCGCTGGACCGCCTACCAGG
 ATCCGCTTCTCAGACTCCAATGGCAGTGTCTGTTTGTAGCACCCGTCAGCCCCACCAAGATGGCCTGG
 TCTGTGGGGTGTGGCGGGCAGTGCCTCGGTTGTCTCTGCGGCTCCTTAGGGCAGAACAGTGCATGTGGC
 ACTTGTGACACTCACTCACCTTCAGGGGAGGTCTGGGGGCTCTCATCCGGCACCGGGCCCTGGCTGCA
 GAGACCTTCAGTGCCATCCTGACTCTAGAAGGCCCCCCACAGCAGGGCGTAGGGGGCATCACCTGCTCA
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 TGCTGCCAGGAAGAGCTGCGACGTCCTGCAAAAGTGTCTTTGTGGGGCTGATGCCCTGATCCCAGTCCAG
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 CGCTCTGCTCACTCTGCACCTGCCAGAGACGAACGGTGTCTGTGACCCGGTGGTGTGCCACCGCCAG
 CTGCCACACCCGGTGCAGGCTCCCGACCAGTGTGCCCTGTTTGGCCTGAGAAACAAGATGTCAGAGAC
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 GGGGGCACTGGAGAGGTGCACTGTGAGAAGGTGCAAGTGTCCCGGCTGGCCTGTGCCAGCCTGTGCGT
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 TGCAGGCTGATGGGCCCGGGCTGCCGTTTTGCTGGGAGTGGTTCAGAGAGTCAAGCTGGCACCC
 CTCAGTCCCCCTTTGGAGAGATGAGCTGTATCACCTGCAGATGTGGGGCAGGGGTGCCTCACTGTGAG
 CGGGATGACTGTTCACTGCCACTGTCTGTGGCTCGGGGAAGGAGAGTGCATGCTGTTCCGCTGCACGG
 CCCACCGCGGCCAGCCAGAGACCAGAACTGATCCAGAGCTGGAGAAAGAAGCCGAAGGCTCT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG220793 representing NM_003741
Red=Cloning site Green=Tags(s)

MPSLPAPPAPLLLLGLLLLGSRPARGAGPEPPVLPPIRSEKEPLPVRGAAGCTFGGKVVYALDETWHPDLGE
 PFGVMRCVLCACEAPQWRRTRGPGRVSCKNIKPECPTPACGQPRQLPGHCCQTCPQERSSSERQPSGLS
 FEYPRDPEHRSYSDRGEPGAEERARGDGHDFVALLTGPRSQAVARARVSLLRSSLRFSISYRRLDRPTR
 IRFSDSNGSVLFEHPAAPTQDGLVCGVWRAVPRLSLRLLRAEQLHVALVLTHTPSGEVWGPLIRHRALAA
 ETFSAILTLEGPQQGVGGITLLTLDSTEDSLHFLLLFRGLLEPRSGGLTQVPLRLQILHQGQLLRELQA
 NVSAQEPGFAEVLPNLTVQEMDWLVLGELQMALEWAGRPLRISGHIAARKSCDVLQSVLCGADALIPVQ
 TGAAGSASLTLLGNGSLIYQVQVVGTSSEVAMTLETKPQRDQRTVLCHMAGLQPGGHTAVGICPGLGA
 RGAHMLLQNELFLNVGTKDFPDGELRGHVAALPYCGHSARHDTLPVPLAGALVLPVKSQAAGHAWLSLD
 THCHLHYEVLLAGLGGSEQGTVAHLLGPPGTPGPRLLKGFYGSEAQGVVVDLEPELLRHLAKGMASLM
 ITTKGSPRGELRGQVHIANQCEVGLRLEAAGAEGVRALGAPDTASAAPPVVPGLPALAPAKPGGPRPR
 DPNTCFEFGQQRPHGARWAPNYDPLCSLCTCQRRTVICDPVVCPPSPCHPVQAPDQCCPVCPEKQDVVD
 LPGLPRSRDPGEGCYFDGDRSWRAAGTRWHPVVPFGLIKCAVCTCKGGTGEVHCEKVQCPRRLACAQPVV
 VNPTDCKQCPVGSAGHPQLGDPMQADGPRGCRFAGQWFPESSQSWHPSVPPFGEMSCITCRGAGVPHCE
 RDDCSLPLSCGSGKESRCCSRCTAHRRPAPETRTDPELEKEAEGS

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

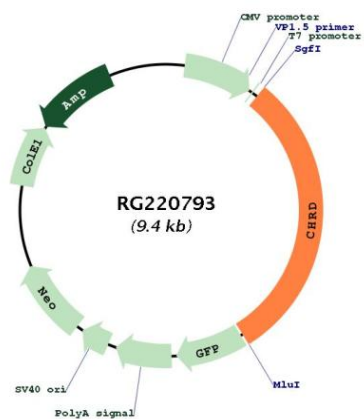
Cloning Scheme:



ACCN: NM_003741

ORF Size:	2865 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:	NM_003741.3
RefSeq Size:	3547 bp
RefSeq ORF:	2868 bp
Locus ID:	8646
UniProt ID:	Q9H2X0
Cytogenetics:	3q27.1
Protein Families:	Secreted Protein
Protein Pathways:	TGF-beta signaling pathway
Gene Summary:	This gene encodes a secreted protein that dorsalizes early vertebrate embryonic tissues by binding to ventralizing TGF-beta-like bone morphogenetic proteins and sequestering them in latent complexes. The encoded protein may also have roles in organogenesis and during adulthood. It has been suggested that this gene could be a candidate gene for Cornelia de Lange syndrome. Reduced expression of this gene results in enhanced bone regeneration. Alternative splicing results in multiple transcript variants. Other alternative splice variants have been described but their full length sequence has not been determined. [provided by RefSeq, Jan 2015]

Product images:



Circular map for RG220793