

Product datasheet for **MG225319**

Chrd (NM_009893) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chrd (NM_009893) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Chrd
Synonyms:	Chd
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG225319 representing NM_009893
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGCCGAGCCTCCCGGCCCGCCGGCCCGCGGCTGCTCCTCGGGCTGCTGCTGCTCGGCTCGCGGCCGG
 CCAGTGGCACTGGCCCTGAGCCCCAGCACTGCCCATCCGTTCCGAGAAGGAGCCGCTGCCTGTCCGGGG
 AGCGGCAGGCTGCTCCTTCGGCGGGAAGGTCTATGCCTTGGACGAGACGTGGCACCCGGACCTGGGGGAG
 CCTTTTGGGGTGTGCGCTGCGTGTGCGCCTGTGAAGCGCCTCAGTGGGCTCGCCGTGGGAGGGGTC
 CTGGCAGGGTCAGCTGCAAGAACATCAAACCTCAGTCCCCACCCTGGCCTGCAGGCAGCCGCGCCAGCT
 GCCAGGACTGCTGCCAGACCTGCCCGCAGGAGCGCAGCAATCTAGATCCACAGCCCGCTGGCCTGGTC
 TTCGAGTATCCAAGGGATCCAGAGCATCGCAGTTACAGTATCGAGGGGAACCCGGCGTTGGGGAGCGGA
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 TCTGTGGGGTGTGGCGGGCAGTGCCTCGGCTGTCTGTGAGGCTCCTGAGGGCAGAGCAGCTTCGGGTAGC
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 GAGACCTTCAGTGCCATCCTGACCCTGGAAGACCCACTGCAGCGGGGTGTGGGGGCATAGCCCTGCTCA
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 CAGGAGCCAGGTTTTGCTGAGGTGCTGCCAGCCTTACAGACCAAGAGATGGACTGGTTGGAGCTGGGG
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 GAGCTGTGATGTCTTCAAAGTGTCTTTGTGGGGTGTGACCCTGATCCAGTCCAGACGGGTGCTGCT
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 GGCTGGACTCCAGCCGGGAGGACACATGGCTGTGGGTATGTGCTCTGGGCTGGGTGCCCGAGGGGCTCAT
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 GGCTCCTGGGATGCCAGGGCCCCAGCGGCTGCTGAAGGGATTCTATGGCTCAGAGGCTCAGGGCGTGGT
 AAAAGATCTGGAGCCTGTGCTGTGCGGCACCTGGCACAGGGCACTGCCTCCCTGCTCATACCACCAAG
 AGTAGCCCCAGAGGAGAACTACGTGGGCAGGTGCACATTGCCAGTCAAGTGTGAGGCGGGAGGCTGCGTC
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 TGGGGAGATGAGCTGTATTACCTGCAGATGTGGGCAGGGGTACCCACTGTGAGCGGGACGATTGTTCA
 CCGCCGCTATCCTGTGGCTCAGGGAAGGAGAGTGCATGCTGTTCCACTGCACAGCCAAAGTCTCTG
 AGACTAGAACCCTTCAGAGCTGGAGAAAGAAGCGGAGCACTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG225319 representing NM_009893
 Red=Cloning site Green=Tags(s)

MPSLPAPPAPRLLLGLLLLGSRPASGTGPEPPALPIRSEKEPLPVRGAAGCSFGGKVVYALDETWHPDLGE
 PFGVMRCVLCACEAPQWARRGRGPGRVSCKNIKPQCPTLACRQPRQLPGHCCQTCPQERSNLDQPAGLV
 FEYPRDPEHRSYSDRGEVGERTRADGHTDFVALLTGPRSQAVARARVSLLRSSLRFVSVYQRLDRPSR
 VRFTDPTGNILFEHPATPTQDGLVCGVWRAVPRLSVRLRLRAEQLRVALVSTHPSGEVWGPLIWQALAA
 ETFSAILTLEDPLQRGVGGIALLLTSDTEDSLHFLLLFRGLLGGLAQAPLKLQILHQGQLLRELQANTSA
 QEPGFAEVLPSLTDQEMDWLELGELQMVLEKAGGPELRI SGYITTRQSCDVLQSVLVCADALIPVQTGAA
 GSASFILLGNGLIYQVQVVGTSSEVAMTLETKPQRKNQRTVLCHMAGLQPGGHMAVGMCSGLGARGAH
 MLLQNELFLNVGTDKDFPDGELRGHVTALCYSGHSARYDRLPVPLAGALVLPVRSQAAGHAWLSLDTHCH
 LHYEVLLAGLGGSEQGTVAHLLGPPGMPGPQRLKGFYGEAQGVVKDLEPVLLRHLAQGTASLLITTK
 SSPRGELRGQVHIASQCEAGGLRLASEGVQMLAPNGEAATSPMLPAGPGPEAPVPAKHGSPGRPRDPT
 CFFEGQQRPHGARWAPNYDPLCSLCICQRRTVICDPVVCPPPSCPHPVQALDQCCPVCPEKQRSRDLPSL
 PNLEPGEGCYFDGDRSWRAAGTRWHPVPPFGLIKCAVCTCKGATGEVHCEKVQCPRLACAQPVVRANPTD
 CCKQCPVGSGTNAKLGDPMQADGPRGCRFAGQWFPENQSWHPSVPPFGEMSCITCRGAGVPHCERDDCS
 PPLSCGSGKESRCCSHCTAQRSSETRRTLEPELEKAEHS

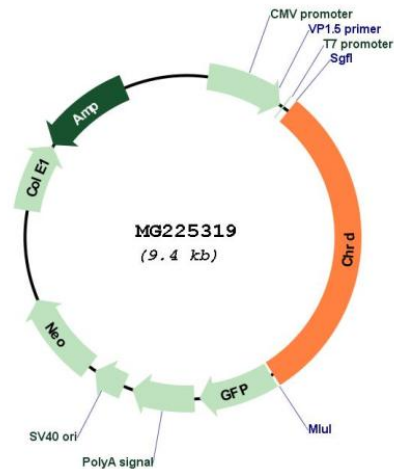
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_009893

ORF Size: 2844 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_009893.2](#), [NP_034023.1](#)

RefSeq Size: 3292 bp

RefSeq ORF: 2847 bp

Locus ID: 12667

UniProt ID: [Q9Z0E2](#)

Cytogenetics: 16 12.51 cM

Gene Summary:

Dorsalizing factor. Key developmental protein that dorsalizes early vertebrate embryonic tissues by binding to ventralizing TGF-beta family bone morphogenetic proteins (BMPs) and sequestering them in latent complexes.[UniProtKB/Swiss-Prot Function]