

Product datasheet for **MR231446**

Chrd (NM_001278041) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chrd (NM_001278041) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Chrd
Synonyms:	Chd
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR231446 representing NM_001278041
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCGAGCCTCCCGGCCCGCCGGCCCGCGGCTGCTCCTCGGGCTGCTGCTGCTCGGCTCGCGGCCGG
 CCAGTGGCACTGGCCCTGAGCCCCAGCACTGCCCATCCGTTCCGAGAAGGAGCCGCTGCCTGTCCGGGG
 AGCGGCAGAGCCCGGAGCAGGCATTACGACAGCAACCGGACAGCGGCCGCCAGCAAGCCCGTCCCC
 GCAGGCTGCTCCTTCGGCGGGAAGGTCTATGCCTTGACGAGACGTGGCACCCGGACCTGGGGGAGCCTT
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 CAGGGTCACTGCAAGAACATCAAACCTCAGTCCCCACCCTGGCCTGCAGGCAGCCGCCAGCTGCCA
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 GTTTCACAGATCCCACAGGAACATCCTGTTTGAACACCCTGCAACCCCAACCCAGGATGGCCTGGTCTG
 TGGGGTGTGGCGGCAGTGCCTCGGCTGTCTGTGAGGCTCCTGAGGGCAGAGCAGCTTCGGGTAGCCCTT
 GTGACATCCACTCACCTTCAGGAGAAGTCTGGGGCCTCTCATTTGGCAGGGTGTCTCGCTGCAGAGA
 CCTTCAGTGCCATCCTGACCCTGGAAGACCCACTGCAGCGGGGTGTGGGGGCATAGCCCTGTCAACCT
 CAGTGACACAGAAGATTCCTTGCATTTTTGCTGCTCTCCGGGTCTGCTGGGAGGACTAGCTCAGGCT
 CCCTTGAAGTTCAGATTCTCCACCAGGACAGCTACTTCGGGAGCTCCAGGCCAACACCTCCGCTCAGG
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 GCAAACAGTGTCCAGTAGGGTCAAGGACTAATGCCAAGCTGGGAGACCCATGCAGGCTGATGGGCTCG
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR231446 representing NM_001278041
 Red=Cloning site Green=Tags(s)

MPSLPAPPAPRLLLGLLLGSRPASGTGPEPPALPIRSEKEPLPVRGAAEPGAGITARATGQRPPAKPVP
 AGCSFGGKVVYALDETHWPDLGEPFGVMRCVLCACEAPQWARRGRGPRVSCNLIKQCPTLACRQPRQLP
 GHCCQTCPQERSNLDQPAGLVFEYPRDPEHRSYSDRGEPEGVGERTRADGHTDFVALLTGPRSQAVARAR
 VSLLRSSLRFVSVYQRLDRPSRVRFDPDTGNILFEHPATPTQDGLVCGVWRAPRLSVRLLRAEQLRVAL
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 CDVLQSVL CGADALIPVQTGAAGSASFILLGNGLIYQVQVVTGSEVVAMTLETKPQRKNQRTVLCHMA
 GLQPGGHMAVGMCSGLGARGAHMLLQNELFLNVGTDKDFPDGELRGHVTALCYSGHSARYDRLPVPLAGAL
 VLPPVRSQAAGHAWLSLDTHCHLHYEVLLAGLGGSEQGTVAHLLGPPGMPGPQRLKGFYGEAQGVVK
 DLEPVLRLRHLAQGTASLLITTKSSPRGELRGQVHIASQCEAGGLRLASEGVQMP LAPNGEATSPMLPAG
 PGPEAPVPAKHGSPGRPRDPNTCFEFGQQRPHGARWAPNYDPLCSLCICQRRTVICDPVVCPPSPHPV
 QALDQCCPVCPEKQRSRDLPSLNLNLEPGEFCYFDGDRSWRAAGTRWHPVPPFGLIKCAVCTCKGATGEV
 HCEKVQCPRLACAQPVRANPTDCCKQCPVGSNTAKLGDPMQADGPRGCRFAGQWFPENQSWHPSVPPFG
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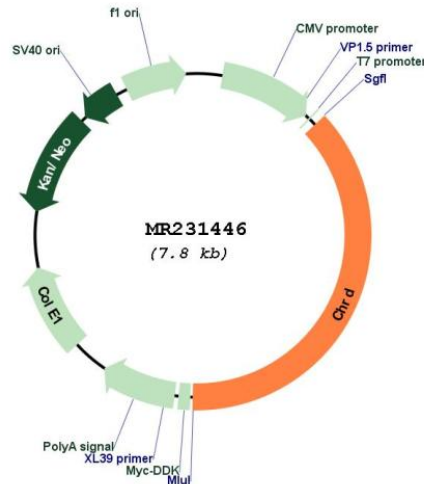
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001278041

ORF Size: 2910 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_001278041.1](#), [NP_001264970.1](#)

RefSeq Size: 3358 bp

RefSeq ORF: 2913 bp

Locus ID: 12667

UniProt ID: [Q9Z0E2](#)

Cytogenetics: 16 12.51 cM

MW: 104.1 kDa

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]