

Product datasheet for **RG227582**

CHRD1 (NM_001143982) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CHRD1 (NM_001143982) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CHRD1
Synonyms:	CHL; dA141H5.1; MGC1; MGCN; 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:

>RG227582 representing NM_001143982
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGAAAAAAGTGGAAATGGGAGGCATGAAATACATCTTTTCGTTGTTGTTCTTTCTTTTGTAGAAAG
 GAGGCAAAACAGAGCAAGTAAACATTCAGAGACATATTGCATGTTTCAAGACAAGAAGTACAGAGTGGG
 TGAGAGATGGCATCCTTACCTGGAACCTTATGGGTTGGTTTACTGCGTGAAGTGCATCTGCTCAGAGAAT
 GGGAAATGTGCTTTCAGCCGAGTCAAGTGTCCAAATGTTTCATTGCCTTTCTCCTGTGCATATTCCTCATC
 TGTGCTGCCCTCGCTGCCAGACTCCTTACCCCAAGTGAACAATAAGGTGACCAGCAAGTCTTGCAGTA
 CAATGGGACAACCTACCAACATGGAGAGCTGTTTCGTAGCTGAAGGGCTCTTTCAGAATCGCAACCCCAAT
 CAATGCACCCAGTGCAGCTGTTCCGAGGAAACGTGTATTGTGGTCTCAAGACTTGCCCAAAATTAACCT
 GTGCCCTCCAGTCTCTGTTCCAGATTCCTGCTGCCGGGTATGCAGAGGAGATGGAGAAGTGCATGGGA
 ACATTCTGATGGTGATATCTTCCGGCAACCTGCCAACAGAGAAGCAAGACATTCTTACCACCGCTCTCAC
 TATGATCCTCCACCAAGCCGACAGGCTGGAGGTCTGTCCCGCTTTCCTGGGGCCAGAAGTACCCGGGGAG
 CTCTTATGGATCCCAGCAAGCATCAGGAACATTGTGCAAAATTGCATCAATAACAAACACAAGCATGG
 ACAAGTGTGTGTTTCCAATGAAAGACCTATTCTCATGGCGAGTCTGGCACCCAAACCTCCGGGCATTT
 GGCATTGTGGAGTGTGTGCTATGTACTTGTAAATGTCACCAAGCAAGAGTGTAAAGAAAATCCACTGCCCA
 ATCGATACCCCTGCAAGTATCCTCAAAAATAGACGAAAATGCTGCAAGGTGTGTCCAGGTAAGAAAAGC
 AAAAGAAGTCCAGGCCAAAGCTTTGACAATAAAGGCTACTTCTGCGGGGAAGAAACGATGCCTGTGTAT
 GAGTCTGTATTTCATGGAGATGGGAGACAACCCAGAAAATAGCACTGGAGACTGAGAGACCACCTCAGG
 TAGAGGTTCCACGTTTGGACTATTCGAAAGGGCATTCTCCAGCACTTCCATATTGAGAAGATCTCCAAGAG
 GATGTTTGGAGGACTTCTCACTCAAGCTGGTGACCAGAACACCCTGAGCCAGTGAAGATCTTCAACC
 GAAGGAGAAGCTCAGATCAGCCAGATGTGTTCAAGTCGTGTATGCAGAACAGAGCTTGAAGATTTAGTCA
 AGGTTTTGTACCTGGAGAGATCTGAAAAGGGCCACTGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG227582 representing NM_001143982
 Red=Cloning site Green=Tags(s)

MRKKWKMGGMKYIFSLFFLLLEGGKTEQVKHSETYCMFQDKKYRVGERWHPYLEPYGLVYCVNCICSEN
 GNVLCRSVRCPNVHCLSPVHIPHLCCPRCPDSLPPVNNKVTSKSCEYNGTTYQHGLFVAEGLFQNRQPN
 QCTQCSCSEGNVYCGLKTCPKLTCAFPVSVDPDSCCRVCRGDGELSWEHSDGDI FRQPANREARHSYHRSH
 YDPPPSRQAGGLSRFPGARSHRGALMDSQQASGTIVQIVINNKHKHGQVCVSNKTYSHGESWHPNLRAF
 GIVECVLCTCNVTKQECKKIHCPNRYPCYPQKIDGKCKVCPGKKAKELPGQSF DNKGYFCGEETMPVY
 ESVMEDGETTRKIALETERPPQVEVHVWTIRKGILQHFHIEKISKRMFEELPHFKLVTRTTL SQWKIFT
 EGEAQISQMCSSRVCRTLEDLVKVL YLERSEKGHC

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

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_001143982.1</u> , <u>NP_001137454.1</u>
RefSeq Size:	4098 bp
RefSeq ORF:	1374 bp
Locus ID:	91851
UniProt ID:	<u>Q9BU40</u>
Cytogenetics:	Xq23
Protein Families:	ES Cell Differentiation/IPS, Secreted Protein
Gene Summary:	This gene encodes an antagonist of bone morphogenetic protein 4. The encoded protein may play a role in topographic retinotectal projection and in the regulation of retinal angiogenesis in response to hypoxia. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Jan 2009]