

Product datasheet for **RG227604**

CHRD1 (NM_001143983) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CHRD1 (NM_001143983) 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)
ORF Nucleotide Sequence:	>RG227604 representing NM_001143983 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGAAAAAGTGGAAAATGGGAGGCATGAAATACATCTTTTCGTTGTTGTTCTTTCTTTGCTAGAAG
GAGGCAAAACAGAGCAAGTAAAACATTCAGAGACATATTGCATGTTTCAAGACAAGAAGTACAGAGTGGG
TGAGAGATGGCATCCTTACCTGGAACCTTATGGGTTGGTTTACTGCGTGAAGTGCATCTGCTCAGAGAAT
GGGAATGTGCTTTCAGCCGAGTCAGATGTCCAAATGTTCAATGCCTTTCTCCTGTGCATATTCCTCATC
TGTGCTGCCCTCGCTGCCAGGAGATGGAGAAGTGCATGGGAACATTCTGATGGTGATATCTTCGGCA
ACCTGCCAACAGAGAAGCAAGACATTCTTACCACCGCTCTCACTATGATCCTCCACCAAGCCGACAGGCT
GGAGGTCTGTCCCGCTTTCCTGGGGCCAGAAGTCAACGGGGAGCTCTTATGGATCCAGCAAGCATCAG
GAACCATGTGCAAAATTGTCATCAATAACAACAAGCATGGACAAGTGTGTTTCCAATGAAAAGAC
CTATTCTCATGGCGAGTCTTGGCACCCAAACCTCCGGGCATTTGGCATTGTGGAGTGTGTGCTATGACT
TGTAATGTCACCAAGCAAGAGTGTAAAGAAAATCCACTGCCCAATCGATACCCCTGCAAGTATCCTCAA
AAATAGACGAAAATGCTGCAAGGTGTCCAGGTAAGAAAAGCAAGAACTCCAGGCCAAAGCTTTGA
CAATAAAGGCTACTTCTGCGGGGAAGAAACGATGCCTGTGTATGAGTCTGTATTTCATGGAGGATGGGGAG
ACAACCAGAAAAATAGCACTGGAGACTGAGAGACCACCTCAGGTAGAGGTCCAGTTCAGTATTCGAA
AGGGCATTCTCCAGCACTTCCATATTGAGAAGATCTCCAAGAGGATGTTTGAGGAGCTTCCCTCACTTCAA
GCTGGTGACCAGAACAACCTGAGCCAGTGAAGATCTTACCAGGAGAGAAGCTCAGATCAGCCAGATG
TGTTCAAGTCGTGTATGCAGAACAGAGCTTGAAGATTTAGTCAAGGTTTTGTACCTGGAGAGATCTGAAA
AGGGCCACTGT

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG227604 representing NM_001143983
 Red=Cloning site Green=Tags(s)

MRKKWKMGGMKYIFSLFFLLLEGGKTEQVKHSETYCMFQDKKYRVGERWHPYLEPYGLVYCVNCISEN
 GNVLCRSVRPCPNVHCLSPVHIPHLCCPRCPGDGELSWEHSDGDI FRQPANREARHSYHRSHYDPPPSRQA
 GGLSRFPGARSHRGALMDSQQA SGTIVQIVINNKHKHGQVCVSNKTYSHGESWHPNLRAFGIVECVLCT
 CNVTKQECKKIHCNRYPCYPQKIDGKCKVCVPGKKAKELPGQSF DNKGYFCGEETMPVYESVFMEDGE
 TTRKIALETERRPPQVEVHWITIRKGILQHFHIEKISKRMFEELPHFKLVTRTTLSQWKIFTEGEAQISQM
 CSSRVCRTLEDLVKVL YL ERSEKGH C

TRTRPLE - GFP Tag - V

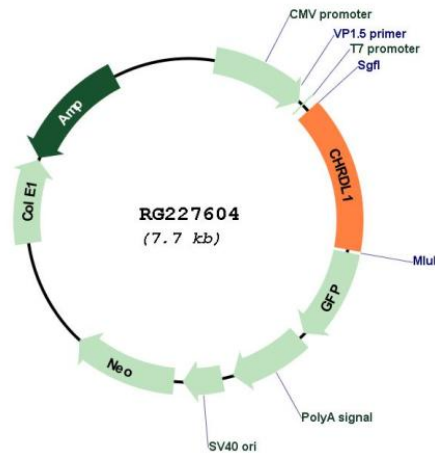
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_001143983

ORF Size:	1131 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_001143983.1 , NP_001137455.1
RefSeq Size:	3858 bp
RefSeq ORF:	1137 bp
Locus ID:	91851
UniProt ID:	Q9BU40
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]