

Product datasheet for **RG225383**

CDIN1 (NM_001130010) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	CDIN1
Synonyms:	C15orf41; HH114
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG225383 representing NM_001130010
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATACTGACAAAGCTCAGTACGACGAGATAGCCCAGTGCCTAGTGTCTGTGCCGCTACCAGGCAGA
GCCTGAGGAAGCTGAAGCAGAGGTTTCCCAGTCAATCGCAGGCCACTCTGCTGAGCATCTTCTCCCAGGA
GTACCAGAAACACATTAAAGAACACATGCCAAACATCATACTTCGGAAGCAATTGAAAGTTATTACCAG
AGGTACCTGAATGGAGTGGTGAATAATGGAGCTGCCCCAGTGCCTGGACCTGGCCAATGAGGTGGACT
ATGCGCCCTCATTAAATGGCTCGGCTTATACTGGAGAGGTTTCTACAGGAACACGAGGAACTCCACCCTC
CAAGTCTATTATAAATAGTATGCTACGGGACCCTTCTCAGATTCCAGATGGAGTTCTAGCAAATCAGGTC
TATCAGTGCATTGTGAACGACTGCTGTACGGACCACTAGTGGACTGCATCAAGCATGCCATTGGTCATG
AGCATGAGGTCTGCTGAGAGACTTGCTTCTAGAGAAAACCTGTCCTTCTAGATGAAGATCAGCTTCG
TGCAAAGGGTTATGACAAAACACCAGACTTCATTTTACAAGTACCAGTTGCTGTAGAAGGGCACATAATT
CACTGGATTGAAAGCAAAGCCTCATTTGGTGATGAATGTAGCCACCACGCCTACCTGCATGACCAGTTCT
GGAGCTACTGGAATAGATTTGGGCCAGGCTTAGTCATCTATTGGTATGGATTTATCCAGGAGCTGGAGTG
CAACCGGAAAGGGGCATCCTGCTCAAAGCCTGTTTCCCCACGAACATTGCACCTTATGCCACAGCATA
GCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence:

>RG225383 representing NM_001130010

Red=Cloning site Green=Tags(s)

MILTKAQYDEIAQCLVSPPTRQSLRKLKQRFPSQSQATLLSIFSQEYQKHKRTHAKHHTSEAIESYYQ
RYLNGVVKNGAAPVLLDLANEVDYAPSLMARLILERFLQEHEETPPSKSIINSMRDPSPQIPDGVLANQV
YQCIVNDCCYGPLVDCIKHAIGHEHEVLLRDLLLEKNLSFLDEDLRAKGYDKTPDFILQVPVAVEGHII
HWIESKASFGDECSSHAYLHDQFWSYWNRFGLVIYWYGFIEQLDCNRERGILLKACFPTNIVTLCHSI
A

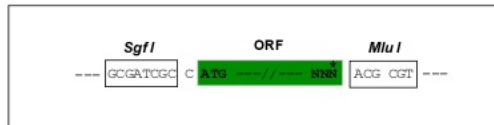
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



CTATAGGGCGGCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCGCCAGATCT

EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI

CAAGCTTAAGTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC ---

HindIII NheI RsrII MluI NotI XhoI GFP Tag

T R T R P L E M E S D - - -

--- GAA GAA AGA GTT TAA ACGGCCGCCCGGAGCT

- - E E R V Stop

ACCN:

NM_001130010

ORF Size:

843 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001130010.3](#)

RefSeq Size: 2477 bp

RefSeq ORF: 846 bp

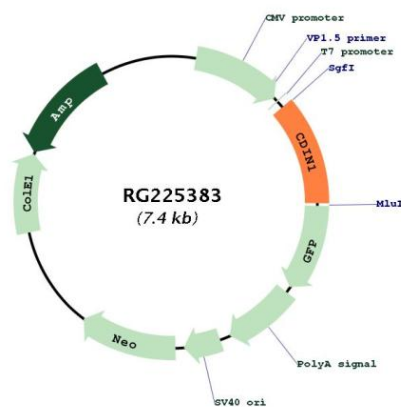
Locus ID: 84529

UniProt ID: [Q9Y2V0](#)

Cytogenetics: 15q14

Gene Summary: This gene encodes a protein with two predicted helix-turn-helix domains. Mutations in this gene were found in families with congenital dyserythropoietic anemia type Ib. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Mar 2014]

Product images:



Circular map for RG225383