

Product datasheet for **RG205744**

DCLREIB (NM_022836) Human Tagged ORF Clone

Product data:

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



ORF Nucleotide Sequence: >RG205744 representing NM_022836
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGAATGGGGTCTGATCCCCATACGCCATCGCAGTGGACTTCTGGAGCCTGCGCCGGGCTGGCACC
 CACGTCTCTTCTTCTGTCTACATGCACTCGGACCACACCGTGGGCTGTCTAGCACCTGGGCCCGGCC
 CCTCTACTGCTCCCAATTACAGCCACCTCTTGCATCGTCACCTACAGGTATCTAAGCAATGGATCCAA
 GCCCTGGAGGTTGGTGAGAGCCATGTATTACCCTAGATGAAATTGGACAAGAGACCATGACCGTAACCC
 TCCTCGATGCCAATCACTGTCTGGTTCTGTCTGTTCTCTTTGAAGGATATTTTGAACCATCCTCTA
 CACAGGTGATTTTCGATACACACCATCCATGCTAAAGGAGCCAGCCCTGACACTGGGGAACAGATCCAT
 ACTTTATACCTAGACAACCAATTGCAATCCAGCCCTGGTTCTTCTCTCCGACAAGAAGCTGCCACC
 AGATTGTCCAGCTCATTGAAAACACCCACAACATAACATAAAGATTGGACTCTACAGCCTGGGAAAGGA
 ATCACTGCTGGAGCAGTGGCCCTGGAGTTTCAGACCTGGGTGGTATTGAGTCTCGGCCCTGGAGTTG
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 GAGTTCTTCTCTAGAAAACCAAGCCTTCTGCTGTTAGAAAGGAGGCTAAAGAGCCGAGAACCCTAA
 GGTGTTGTGTTGAATCCCTGAGGAAAGTGTGATCAATCTCAAGCTGACAGAGACTCAAAGAAGGCCA
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 GAAGCAGTTGTTCCAGATCTCTATAGCAAAGAATGGAACAAGGCAGTGCCTTTCTGTGAGTCTCAAAAG
 AGGGTGACTATGTTGACGGCCCACTGGGATTTTCAGTGCCTTAAGGTCTACAGATGAGGAGTTTATTT
 CTCAAAAAACAGGAGGAAATTTGGTTAGGGTCCCCCTTGGTACCATGGGAGATGATGATGGAGGTCC
 AGAAGCCACAGGAATCAGAGTGCCTGGATGGGCCATGGTTCTCCCTGTCCACAGCAGCAAGGCGACC
 CCTCTTCTAGCTACTGAATTCAGGGGTCTAGCACTCAAATATCTTCTGACTCCAGTGAACCTTTTCCAGG
 CAGGTATTCTTCCAGGAGATTGACCAGCAAGTGAAAAATACCATAAACCTGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

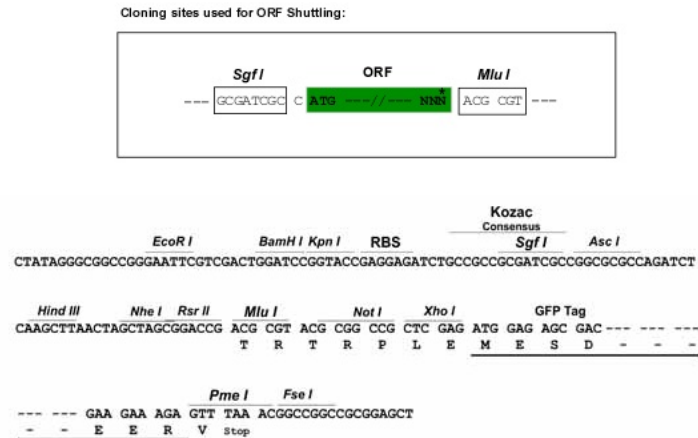
Protein Sequence: >RG205744 representing NM_022836
 Red=Cloning site Green=Tags(s)

MNGVLIPHTPIAVDFWSLRAGTARLFFLSHMHS DHTVGLSSTWARPLYCSPITAHLLHRHLQVSKQWIIQ
 ALEVGESHLPLDEIGQETMTVTLLDANHCPSVMFLFEGYFGTILYTGFRTYTPSMLKEPALTLGKQIH
 TLYLDNTNCNPALVLP SRQEAHQIVQLIRKHPQHNIKIGLYSLGKESLLEQLALEFQTWVVLSPRRLEL
 VQLLGLADVFTVEEKAGRIHVDHMEICHSNMLRWNTHTPTIAILPTSRKIHSSHPDIHVIPYSDHSSYS
 ELRAFVAALKPCQVPIVSRPCGGFQDSLSPRISVPLIPDSVQYQYMSSSSRKPSLLWLLERRLRKPRQTQ
 GVVFPESPEESADQSQADRDSSKAKKEKLSWPADLEKQPSHHPLRIKKQLFPDLYSKEWNKAVPFCESSQK
 RVTMLTAPLGFVHLRSTDEEFISQKTREEIIGLSPLVPMGDDGGPEATGNQSAWMGHGSPLSHSSKGT
 PLLATEFRGLALKYLLTPVNFQAGYSSRRFDQVQVEKYHKPC

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_022836

ORF Size: 1596 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.

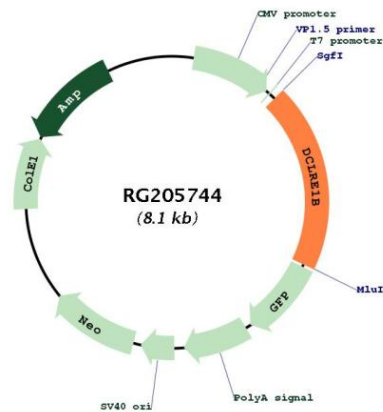
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_022836.4](#)

RefSeq Size: 3664 bp

RefSeq ORF:	1599 bp
Locus ID:	64858
UniProt ID:	Q9H816
Cytogenetics:	1p13.2
Protein Families:	Druggable Genome
Gene Summary:	DNA interstrand cross-links prevent strand separation, thereby physically blocking transcription, replication, and segregation of DNA. DCLRE1B is one of several evolutionarily conserved genes involved in repair of interstrand cross-links (Dronkert et al., 2000 [PubMed 10848582]).[supplied by OMIM, Mar 2008]

Product images:



Circular map for RG205744