

Product datasheet for **RG234210**

DCDC2 (NM_001195610) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	DCDC2
Synonyms:	DCDC2A; DFNB66; NPHP19; NSC; RU2; RU2S
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence: >RG234210 representing NM_001195610
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGAGCGGCAGCAGCGCCAGGTCCAGCCACCTGTCTCAGCCCGTCGTGAAGAGCGTGCTTGTGTACCGCA
 ACGGGGACCCCTTCTACGCGGGCGCCGCGTCGTCCATGAGAAGAAGGTGTCCAGCTTCGAAGTCTT
 CCTGAAGGAGGTGACCGGCGCGGCTTCAAGCACCCTTTGGGGCCGTGAGAACATCTACACCCCGCGGACT
 GGCCACCGAATCCGGAAGCTAGACCAGATCCAGAGCGGGGCAATTACGTGGCTGGAGGCCAGGAAGCCT
 TCAAGAACTCAATTACTTGGACATAGGAGAAATCAAGAAAAGACCAATGGAAGTTGTTAATACAGAGGT
 AAAACCAGTAATCCATAGCAGGATCAACGTGTGAGTCTGCTTTAGAAAACCGCTTCAGGAGCCGTGCACT
 ATCTTCTTGATTGCAATGGAGACCTATAAACCCAGCTTCTCGCCTCCTTATCCCCAGAAAAACCTTGA
 ATCAGTGGGATCATGTACTACAAATGGTCACAGAAAAATCACTCTGAGGAGCGGGGCTGTTACAGGCT
 TTATACTTTAGAAGGAAACTTGTGAGAGTGGAGCAGAGTTGGAGAATGGGCAGTTTTATGTGGCTGTT
 GGCAGAGATAAGTTTAAGAACTGCCTTACAGTGAGTTACTTTTGAAGTCAACGATGAGAAGGCCTT
 TTGGTCAGAAAGCTTCTCACTACCTCCTATTGTAGGATCCAGAAAGTCTAAAGGGAGTGGAATGATCG
 CCACCTAAGTCAACAGTTGGATCCAGTGACAACCTCATCTCCTCAGCCCTGAAGAGGAAAGGAAAAA
 GAAGACGTGAATTCAGAAAACTGACGAAATTGAAACAAATGTAATTAAGAATTCACAAGAAACCA
 TTCCAAATAGTGATGAAGGCATTTTCAAAGCTGGAGCAGAGAGGTCTGAAACACGGGGGCGAGCAGAAGT
 CCAAGAAGATGAAGATACTCAGGTTGAGGTTCCAGTCGATCAGAGGCCAGCAGAAATAGTAGACGAGGAA
 GAAGATGGAGAGAAGGCAACAAAGGATGCAGAACAGAAAGAAGACTTTTCAGGAATGAATGGTGACCTTG
 AAGAGGAAGGAGGTAGGAGGCTACAGATGCCCTGAGCAAGTCGAGGAGATTCTGGATCACAGTGAGCA
 GCAGGCACGCCCTGCTCGTGTAAATGGAGGCACCGATGAGGAGAATGGTGAGGAGCTGCAGCAGGTTAAT
 AATGAGCTTCAACTGGTCTAGACAAGGAAAGAAAGTCTCAAGGAGCTGGCAGTGGACAAGATGAGGCTG
 ATGTAGACCCTCAAAGACCACCAAGGCCAGAAGTAAAAATTACAGTCCAGAAGAAATGAAACAACCA
 ACAAACAAGGACTATGCTGCCGTGGCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG234210 representing NM_001195610
 Red=Cloning site Green=Tags(s)

MSGSSARSSHLSQPVVKSVLVYRNGDPFYAGRRVVIHEKKVSSFEVFLKEVTGGVQAPFGAVRNIYTPRT
 GHRIRKLDQIQSGGNYVAGGQEAFFKLNYLDIGEIKRPMEEVNTVEKPVIIHSRINVSARFRKPLQEPCT
 IFLIANGDLINPASRLIPRKTLNQWDHVLQMVTEKITLRSGAVHRLYTLLEGKLVESGAELENGQFYVAV
 GRDKFKKLPYSELLFDKSTMRRPFGQKASSLPPIVGSRSKSGSGNDRHSKSTVGSSDNSSPQLKRKGKK
 EDVNSEKLTKLKQNVKLKNSQETIPNSDEGIFKAGAERSETRGAAEVQEDEDTQVEVPVDQRP AEIVDEE
 EDGEKANKDAEQKEDFSGMNGDLEEEGGREATDAPEQVEEILDHSEQQARPARVNGGTDEENGELQQVN
 NELQLVLDKERKSQGAGSGQDEADVDPQRPPRPEVKITSPEENENNQNKDYAAYA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001195610

ORF Size: 1428 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.

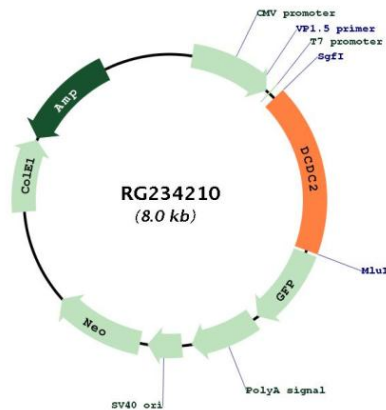
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001195610.1](#), [NP_001182539.1](#)

RefSeq Size: 4623 bp
RefSeq ORF: 1431 bp
Locus ID: 51473
UniProt ID: [Q9UHG0](#)
Cytogenetics: 6p22.3

Gene Summary: This gene encodes a doublecortin domain-containing family member. The doublecortin domain has been demonstrated to bind tubulin and enhance microtubule polymerization. This family member is thought to function in neuronal migration where it may affect the signaling of primary cilia. Mutations in this gene have been associated with reading disability (RD) type 2, also referred to as developmental dyslexia. Alternatively spliced transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jan 2013]

Product images:



Circular map for RG234210