

Product datasheet for **RG208721**

DCDC2 (NM_016356) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DCDC2 (NM_016356) Human Tagged ORF Clone
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:

>RG208721 representing NM_016356
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGCGGCAGCAGCGCCAGGTCCAGCCACCTGTCTCAGCCCGTCGTGAAGAGCGTGCTTGTGTACCGCA
 ACGGGGACCCCTTCTACGCGGGCGCCCGTCGTCATCCATGAGAAGAAGGTGTCCAGCTTCGAAGTCTT
 CCTGAAGGAGGTGACCGGCGCGTTCAGGCACCCTTTGGGGCCGTCAGGAACATCTACACCCCGCGGACT
 GACCACCGAATCCGGAAGCTAGACCAGATCCAGAGCGGGGCAATTACGTGGCTGGAGGCCAGGAAGCCT
 TCAAGAACTCAATTACTTGGACATAGGAGAAATCAAGAAAAGACCAATGGAAGTTGTTAATACAGAGGT
 AAAACCAGTAATCCATAGCAGGATCAACGTGTCAGCTCGCTTTAGAAAACCGCTTCAGGAGCCGTGCACT
 ATCTTCTTGATTGCAAAATGGAGACCTATAAACCAGCTTCTCGCTCCTTATCCCCGAAAAACCTTGA
 ATCAGTGGGATCATGTACTACAAATGGTCACAGAAAAAATCACTCTGAGGAGCGGGCTGTTACAGGCT
 TTATACTTTAGAAGGAAAACCTTGTGAGAGTGGAGCAGAGTTGGAGAATGGGCAGTTTTATGTGGCTGTT
 GGCAGAGATAAGTTTAAAGAACTGCCTTACGGTGAAGTACTTTTTGACAAGTCAACGATGAGAAGGCCTT
 TTGGTCAGAAAAGCTTCTCACTACCTCCTATTGTAGGATCCAGAAAGTCTAAAGGGAGTGAAAATGATCG
 CCACTCTAAGTCAACAGTTGGATCCAGTGACAACCTCATCTCCTCAGCCCTGAAGAGGAAAAGGAAAAA
 GAAGACGTGAATTCAGAAAACTGACGAAATGAAACAAAATGTAATAAAGAATTCACAAGAAACCA
 TTCCAAATAGTGATGAAGGCATTTTCAAAGCTGGAGCAGAGAGGTCTGAAACACGGGGGGCAGCAGAAGT
 CCAAGAAGATGAAGATACTCAGGTTGAGGTTCCAGTCGATCAGAGGCCAGCAGAAATAGTAGACGAGGAA
 GAAGATGGAGAGAAGGCAACAAGGATGCAGAACAGAAAGAAGACTTTTCAGGAATGAATGGTGACCTTG
 AAGAGGAAGGAGGTAGGAGGCTACAGATGCCCTGAGCAAGTCGAGGAGATTCTGGATCACAGTGAGCA
 GCAGGCACGCCCTGCTCGTGTAATGGAGGCACCGATGAGGAGAATGGTGAGGAGCTGCAGCAGGTTAAT
 AATGAGCTTCAACTGGTCTAGACAAGGAAAGAAAGTCTCAAGGAGCTGGCAGTGACAAGATGAGGCTG
 ATGTAGACCCTCAAAGACCACCAAGGCCAGAAGTAAAAATTACCAGTCCAGAAAATGAAAACAACCA
 ACAAACAAGGACTATGCTGCCGTGGCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG208721 representing NM_016356
 Red=Cloning site Green=Tags(s)

MSGSSARSSHLSPVVKSVLVYRNGDPFYAGRRIHEKKVSSFEVFLKEVTGGVQAPFGAVRNIYTPRT
 DHRIRKLDQIQSGGNYVAGGQEAFFKKNLYLDIGEIKRPMEEVNTVEKPIVHSRINVSARFRKPLQEPCT
 IFLIANGDLINPASRLLIPRKTNLQWDHVLQMVTEKITLRSGAVHRLYTLLEGKLVESGAELENGQFYVAV
 GRDKFKKLPYGEELLFDKSTMRRPFGQKASSLPPIVGSRKSKGSGNDRHSKSTVGSNDSSPQLKRKGGK
 EDVNSEKLTCLKQNVKLNKNSQETIPNSDEGIFKAGAERSETRGAAEVQEDEDTQVEVPVDQRPAEIVDEE
 EDGEKANKDAEQKEDFSGMNGDLEEEGGREATDAPEQVEEILDHSEQQARPARVNGGTDEENGEELQQVN
 NELQLVLDKERKSQGAGSQDEADVDPQRPPRPEVKITSPEENENNQQNKDYAAVA

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_016356

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.

RefSeq: [NM_016356.3](#), [NP_057440.2](#)

RefSeq Size: 4708 bp

RefSeq ORF: 1431 bp

Locus ID: 51473

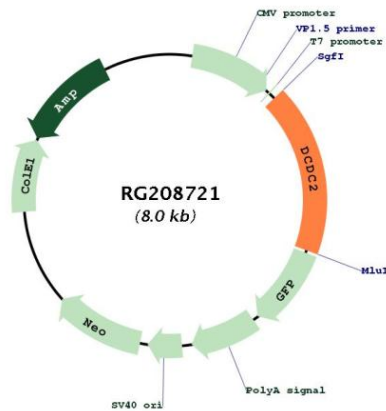
UniProt ID: [Q9UHG0](#)

Cytogenetics: 6p22.3

Domains: DCX

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 RG208721