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Product datasheet for SC114336

DCDC2 (NM_016356) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DCDC2 (NM_016356) Human Untagged Clone
Tag:	Tag Free
Symbol:	DCDC2
Synonyms:	DCDC2A; DFNB66; NPHP19; NSC; RU2; RU2S
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

>OriGene ORF within SC114336 sequence for NM_016356 edited (data generated by NextGen Sequencing)

ATGAGCGGCAGCAGCGCCAGGTCCAGCCACCTGTCTCAGCCCGTCGTGAAGAGCGTGCTT
GTGTACCGCAACGGGGACCCCTTCTACGCGGGGCGCCGCGTCGTCATCCATGAGAAGAAG
GTGTCCAGCTTCGAAGTCTTCCTGAAGGAGGTGACCGGCGGCGTTCAGGCACCCTTTGGG
GCCGTCAGGAACATCTACACCCCGCGGACTGGCCACCGAATCCGGAAGCTAGACCAGATC
CAGAGCGGGGGCAATTACGTGGCTGGAGGCCAGGAAGCCTTCAAGAAACTCAATTACTTG
GACATAGGAGAAATCAAGAAAAGACCAATGGAAGTTGTTAATACAGAGGTAAAACCAGTA
ATCCATAGCAGGATCAACGTGTCAGCTCGCTTTAGAAAACCGCTTCAGGAGCCGTGCACT
ATCTTCTTGATTGCAAATGGAGACCTCATAAACCCAGCTTCTCGCCTCCTTATCCCCAGA
AAAACCTTGAATCAGTGGGATCATGTACTACAAATGGTCACAGAAAAAATCACTCTGAGG
AGCGGGGCTGTTCACAGGCTTTATACTTTAGAAGGAAAACTTGTTGAGAGTGGAGCAGAG
TTGGAGAATGGGCAGTTTTATGTGGCTGTTGGCAGAGATAAGTTTAAGAAACTGCCTTAC
GGTGAGTTACTTTTTGACAAGTCAACGATGAGAAGGCCTTTTGGTCAGAAAGCTTCTTCA
CTACCTCCTATTGTAGGATCCAGAAAGTCTAAAGGGAGTGGAAATGATCGCCACTCTAAG
TCAACAGTTGGATCCAGTGACAACTCATCTCCTCAGCCCCTGAAGAGGAAAGGGAAAAAA
GAAGACGTGAATTCAGAAAAACTGACGAAATTGAAACAAAATGTAAAATTAAAGAATTCA
CAAGAAACCATTCCAAATAGTGATGAAGGCATTTTCAAAGCTGGAGCAGAGAGGTCTGAA
ACACGGGGGGCAGCAGAAGTCCAAGAAGATGAAGATACTCAGGTTGAGGTTCCAGTCGAT
CAGAGGCCAGCAGAAATAGTAGACGAGGAAGAAGATGGAGAGAAGGCAAACAAGGATGCA
GAACAGAAAGAAGACTTTTCAGGAATGAATGGTGACCTTGAAGAGGAAGGAGGTAGGGAG
GCTACAGATGCCCCTGAGCAAGTCGAGGAGATTCTGGATCACAGTGAGCAGCAGGCACGC
CCTGCTCGTGTAAATGGAGGCACCGATGAGGAGAATGGTGAGGAGCTGCAGCAGGTTAAT
AATGAGCTTCAACTGGTCCTAGACAAGGAAAGAAAGTCTCAAGGAGCTGGCAGTGGACAA
GATGAGGCTGATGTAGACCCTCAAAGACCACCAAGGCCAGAAGTAAAAATTACCAGTCCA
GAAGAAAATGAAAACAACCAACAAAACAAGGACTATGCTGCCGTGGCTTAG

Clone variation with respect to NM_016356.3
661 a=>g

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_016356 unedited
GTGTTCANCATTTTGTNAATACGACTCACTATAGGGCGGCCGCGAATTCGCACGAGGAGC
GGAGGTGCCTCCCGACGCGAAGCAGCGAGCTGAGGCGGCGGCCAGCGGGGAAGATGAGCG
GCAGCAGCGCCAGGTCCAGCCACCTGTCTCAGCCCGTCGTGAAGAGCGTGCTTGTGTACC
GCAACGGGGACCCCTTCTACGCGGGGCGCCGCGTCGTCATCCATGAGAAGAAGGTGTCCA
GCTTCGAAGTCTTCCTGAAGGAGGTGACCGGCGGCGTTCAGGCACCCTTTGGGGCCGTCA
GGAACATCTACACCCCGCGGACTGGCCACCGAATCCGGAAGCTAGACCAGATCCAGAGCG
GGGGCAATTACGTGGCTGGAGGCCAGGAAGCCTTCAAGAAACTCAATTACTTGGACATAG
GAGAAATCAAGAAAAGACCAATGGAAGTTGTTAATACAGAGGTAAAACCAGTAATCCATA
GCAGGATCAACGTGTCAGCTCGCTTTAGAAAACCGCTTCAGGAGCCGTGCACTATCTTCT
TGATTGCAAATGGAGACCTCATAAACCCAGCTTCTCGCCTCCTTATCCCCAGAAAAACCT
TGAATCAGTGGGATCATGTACTACAAATGGTCACAGAAAAAATCACTCTGAGGAGCGGGG
CTGTTCACAGGCTTTATACTTTAGGAAGAAAACCTTGTGAGAGTGGAGCAGAGTTGGAGA
ATGGGCCAGTTTATGTGCCTGTTGGCAGAGATAAGTTTAAGAAACTGCCTTACCGTGAGT
TACTTTTTTGACAAGTCAACGATTGAGAAGCCTTTTGGTCAGAAAGCTTCTTCATACCTC
CTATTGTAGGACCAGAAAGTCTAAAGGGAGGGGAAATGATCGCCCTTTTAAGTCACAGGT
GGGTCCCGTGACAACTCT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_016356 unedited
NTTTAGCTATGGACCGGCGGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTCTTC
CTAAACACTTTTATTTTTGTTGAAAACTATTTGAAAATAATTTAATCTTTGGAATAGCCA
ATATCAGGTTCTCTAATAACATAAGGGAGAAGAGAGAGATACTATTGGTAAAGATAGACT
GGATCAGTGAAAATCCACAGGATTTCCATTATCTGCAAACCATACATCCAGGCTTTATAA
TATAACTGGGTGCTCCTTTACAATTCCTTCCTGAGTGTGCGCCATTGGAGCCACAAGCAT
GCAAGCCTGAAAGCATTTAAGTGACGGCATGGCGATACTAGTCACTAACACTCTGAACCA
ATGCTTCCTCCCACCAAAATGAACGCCTTGCTCTGTCTTTGTAGTTCAAAGGTGGATTTT
GGCTAAGGAGGAAGAAAGAAAGGCATGTTAACAAGTCATGGACACATTTTGATCTACTGC
CATCTCCAAATTATGTCTGAAAGTAAATCGCAATCTGTTCATTCAAGAGTTTATTGCTTT
AAGAAAATAGTACATGCTTTCCTATTACCAGTTCTTTAAAATTCTACGCCTTCCTAGAGA
AAAATTATTTAGAATAAACTGCCTTCTAAACTTATAATAAAGCGTACAATAAGAGTGATC
CTATTTTTCATCCTTTACAAGTGGCAATTGTCTTCCAGTGCAAATTCTCCTCTGTCCGTC
TTATTTATATTTCTATATGACTTTTAAACACATGCATTAAAGTACGTATTATCCTTTAGT
AGCCATTTAAAGGTATTTGGTNCTTTCCACTAGCTTTTATGTTATAATTCGGAGTAGTAT
TCGACCTAGTGCCCATTATATCAGCATACCTTGTGCTTACTTTCAGAATGATAACCTCTT
TTTCTGCGACCATTACTCCTTTTAA

Restriction Sites: NotI-NotI

ACCN: NM_016356

Insert Size: 2440 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_016356.1, NP_057440.1

RefSeq Size: 2167 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]
Transcript Variant: This variant (1) represents the shorter transcript. Both variants 1 and 2 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.