

Product datasheet for SC317722

Doublecortin (DCX) (NM_000555) Human Untagged Clone

Product data:

Product Type: Expression Plasmids Product Name: Doublecortin (DCX) (NM_000555) Human Untagged Clone Tag: Tag Free Doublecortin Symbol: DBCN; DC; LISX; SCLH; XLIS Synonyms: Mammalian Cell Neomycin Selection: Vector: pCMV6-Entry (PS100001) E. coli Selection: Kanamycin (25 ug/mL) >NCBI ORF sequence for NM_000555, the custom clone sequence may differ by one or more **Fully Sequenced ORF:** nucleotides

ATGAAAACACTCCCCCTTCATAGTCATTGTACTGAAATGCAAAGACTGCTTCCTAAGCTGGAGATGCTAA CCTTGGGTAGCTCCTTCTGTTCTCTCAAGGGGAATTTTGTCAGGCTATGGATTCATTTACAACTGTTAG TCATGTGGGCATGTGTGAGGAAACAGATGCCAGTTTTAATGTATTTAGCCCGAAGTTCCAATTTGATAGG AGCCACTGTCAGTCTCTGAGGTTCCACCAAAATATGGAACTTGATTTTGGACACTTTGACGAAAGAGATA AGACATCCAGGAACATGCGAGGCTCCCGGATGAATGGGTTGCCTAGCCCCACTCACAGCGCCCACTGTAG CTTCTACCGAACCAGAACCTTGCAGGCACTGAGTAATGAGAAGAAAGCCAAGAAGGTACGTTTCTACCGC AATGGGGACCGCTACTTCAAGGGGATTGTGTGTGCGCTGTGTCCTCTGACCGTTTTCGCAGCTTTGACGCCT TGCTGGCTGACCTGACGCGATCTCTGTCTGACAACATCAACCTGCCTCAGGGAGTGCGTTACATTTACAC CATTGATGGATCCAGGAAGATCGGAAGCATGGATGAACTGGAGGAAAGGGAAAGCTATGTCTGTTCCTCA GACAACTTCTTTAAAAAGGTGGAGTACACCAAGAATGTCAATCCCAACTGGTCTGTCAACGTAAAAACAT CTGCCAATATGAAAGCCCCCCAGTCCTTGGCTAGCAGCAACAGTGCACAGGCCAGGGAGAACAAGGACTT TGTGCGCCCCAAGCTGGTTACCATCATCCGCAGTGGGGTGAAGCCTCGGAAGGCTGTGCGTGTGCTTCTG AACAAGAAGACAGCCCACTCTTTTGAGCAAGTCCTCACTGATATCACAGAAGCCATCAAACTGGAGACCG GGGTTGTCAAAAAACTCTACACTCTGGATGGAAAACAGGTAACTTGTCTCCATGATTTCTTTGGTGATGA TGATGTGTTTATTGCCTGTGGTCCTGAAAAATTTCGCTATGCTCAGGATGATTTTTCTCTGGATGAAAAT GAATGCCGAGTCATGAAGGGAAACCCATCAGCCACAGCTGGCCCCAAAGGCATCCCCCAACACCTCAGAAGA CTTCAGCCAAGAGCCCTGGTCCTATGCGCCGAAGCAAGTCTCCAGCTGACTCAGCAAACGGAACCTCCAG CAGCCAGCTCTCTACCCCCAAGTCTAAGCAGTCTCCCATCTCTACGCCCACCAGTCCTGGCAGCCTCCGG AAGCACAAGGACCTGTACCTGCCTCTGTCCTTGGATGACTCGGACTCGCTTGGTGATTCCATGTAA

Restriction Sites:

Please inquire

OriGene Technologies, Inc.

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	Ooublecortin (DCX) (NM_000555) Human Untagged Clone – SC317722
ACCN:	NM_000555
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <u>custsupport@origene.com</u> or by calling 301.340.3188 option 3 for pricing and delivery.
	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. <u>More info</u>
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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 Me	 thod: 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:	<u>NM 000555.2, NP 000546.2</u>
RefSeq Size:	9433 bp
RefSeq ORF:	1326 bp
Locus ID:	1641
UniProt ID:	<u>043602</u>
Cytogenetics:	Xq23
Domains:	DCX
Protein Families:	Druggable Genome

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GRIGENE Doublecortin (DCX) (NM_000555) Human Untagged Clone – SC317722

Gene Summary:This gene encodes a member of the doublecortin family. The protein encoded by this gene is
a cytoplasmic protein and contains two doublecortin domains, which bind microtubules. In
the developing cortex, cortical neurons must migrate over long distances to reach the site of
their final differentiation. The encoded protein appears to direct neuronal migration by
regulating the organization and stability of microtubules. In addition, the encoded protein
interacts with LIS1, the regulatory gamma subunit of platelet activating factor acetylhydrolase,
and this interaction is important to proper microtubule function in the development and disrupt
the layering of the cortex, leading to epilepsy, cognitive disability, subcortical band
heterotopia ("double cortex" syndrome) in females and lissencephaly ("smooth brain"
syndrome) in males. Multiple transcript variants encoding different isoforms have been found
for this gene. [provided by RefSeq, Sep 2010]
Transcript Variant: This variant (1) encodes the longest isoform (a). 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.

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