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Product datasheet for RC218506

DCC (NM_005215) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DCC (NM_005215) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DCC
Synonyms:	CRC18; CRCR1; HGPPS2; IGDCC1; MRMV1; NTN1R1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

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>RC218506 representing NM_005215
Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence:

>RC218506 representing NM_005215
Red=Cloning site Green=Tags(s)

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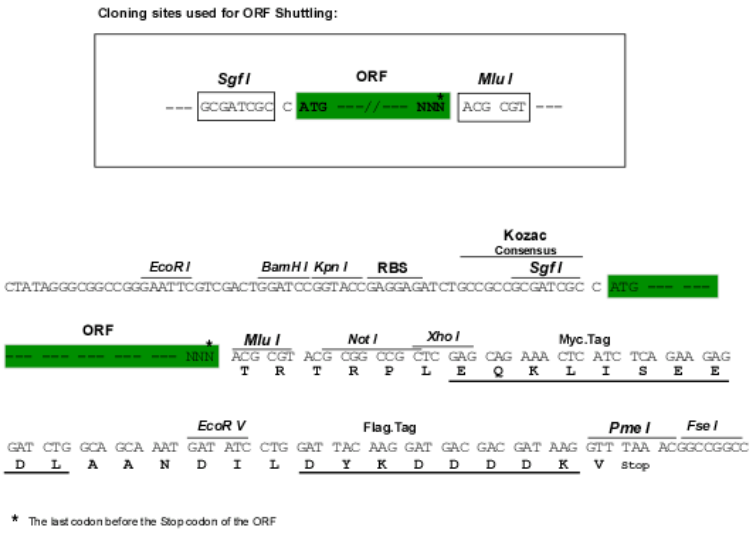
Chromatograms: https://cdn.origene.com/chromatograms/mg2867_h05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005215

ORF Size: 4341 bp

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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_005215.4
RefSeq Size:	4608 bp
RefSeq ORF:	4344 bp
Locus ID:	1630
UniProt ID:	P43146
Cytogenetics:	18q21.2
Domains:	ig, IGc2, IG, FN3
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Axon guidance, Colorectal cancer, Pathways in cancer
MW:	158.3 kDa
Gene Summary:	This gene encodes a netrin 1 receptor. The transmembrane protein is a member of the immunoglobulin superfamily of cell adhesion molecules, and mediates axon guidance of neuronal growth cones towards sources of netrin 1 ligand. The cytoplasmic tail interacts with the tyrosine kinases Src and focal adhesion kinase (FAK, also known as PTK2) to mediate axon attraction. The protein partially localizes to lipid rafts, and induces apoptosis in the absence of ligand. The protein functions as a tumor suppressor, and is frequently mutated or downregulated in colorectal cancer and esophageal carcinoma. [provided by RefSeq, Oct 2009]

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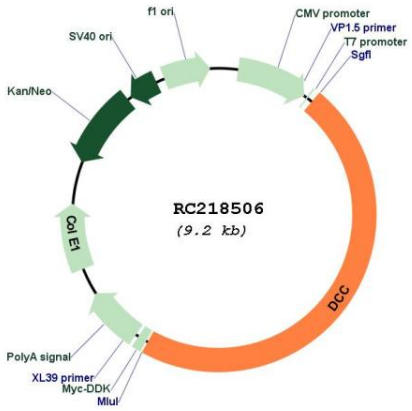
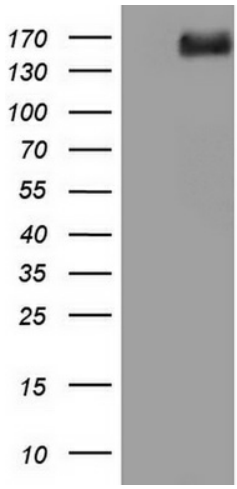
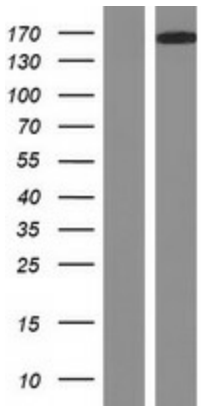
Product images:



Circular map for RC218506



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY DCC (Cat# RC218506, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-DCC(Cat# [TA804515]). Positive lysates [LY417439] (100ug) and [LC417439] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY417439]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC218506 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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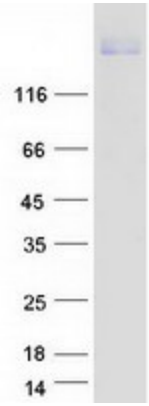

Coomassie blue staining of purified DCC protein (Cat# [TP318506]). The protein was produced from HEK293T cells transfected with DCC cDNA clone (Cat# RC218506) using MegaTran 2.0 (Cat# [TT210002]).

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