

## Product datasheet for **RG218506**

### DCC (NM\_005215) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DCC (NM_005215) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DCC
Synonyms:	CRC18; CRCR1; HGPPS2; IGDCC1; MRMV1; NTN1R1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG218506 representing NM_005215 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGAATAGTCTTAGATGTGTTGGGTACCCAAGCTGGCTTTTGTACTCTTCGGAGCTTCCTTGCTCA  
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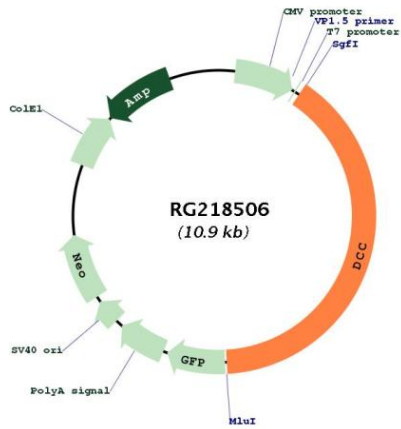
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ATCTGAGTGAACAAATGGCAAGTTTGAAGGACTCATGAAGCAGCTTAATGCCATCACAGGCTCAGCCTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_005215.1</a> , <a href="#">NP_005206.1</a>
<b>RefSeq Size:</b>	4608 bp
<b>RefSeq ORF:</b>	4344 bp
<b>Locus ID:</b>	1630
<b>UniProt ID:</b>	<a href="#">P43146</a>
<b>Cytogenetics:</b>	18q21.2
<b>Domains:</b>	ig, IGc2, IG, FN3
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Axon guidance, Colorectal cancer, Pathways in cancer
<b>Gene Summary:</b>	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]

Product images:



Circular map for RG218506