

Product datasheet for **RC218997**

DRC1 (NM_145038) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DRC1 (NM_145038) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DRC1
Synonyms:	C2orf39; CCDC164; CILD21
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC218997 representing NM_145038
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAATCCGCCGGGTCCCTAGAGGCCCTGGACCCGAACGTGGACGAGCACTTGTCACCCAGATTCTCG
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Protein Sequence: >RC218997 representing NM_145038
 Red=Cloning site Green=Tags(s)

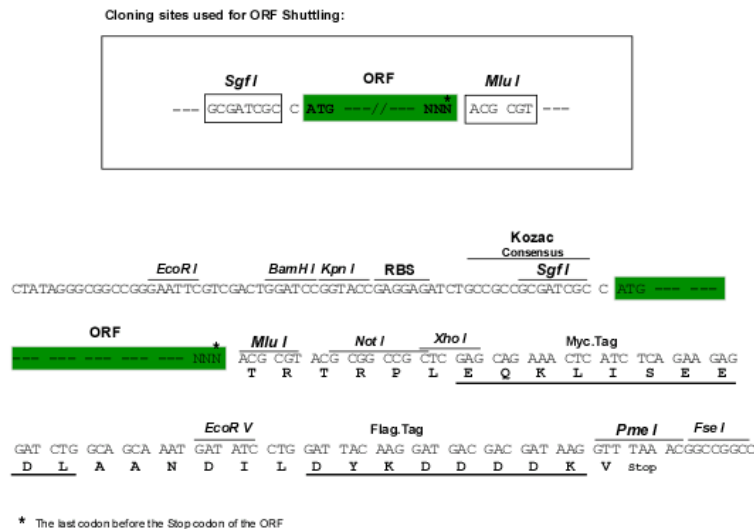
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Chromatograms: https://cdn.origene.com/chromatograms/mk8022_g01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_145038

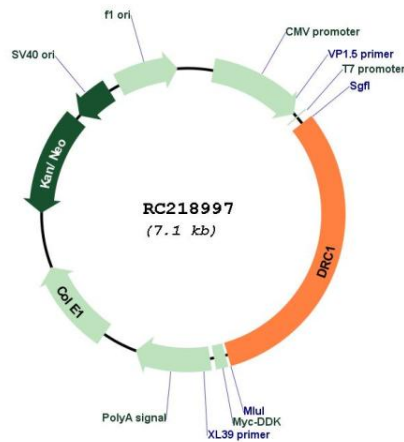
ORF Size: 2220 bp

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](#)

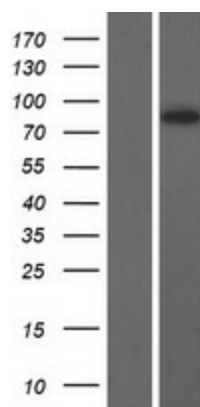
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_145038.2</u>
RefSeq Size:	2490 bp
RefSeq ORF:	2223 bp
Locus ID:	92749
UniProt ID:	<u>Q96MC2</u>
Cytogenetics:	2p23.3
MW:	87 kDa
Gene Summary:	This gene encodes a central component of the nexin-dynein complex (N-DRC), which regulates the assembly of ciliary dynein. Mutations in this gene can cause ciliary dyskinesia. [provided by RefSeq, Aug 2015]

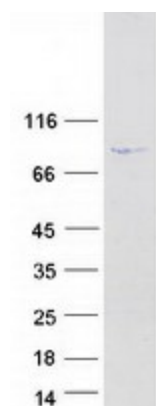
Product images:



Circular map for RC218997



Western blot validation of overexpression lysate (Cat# [LY408072]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC218997 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified DRC1 protein (Cat# [TP318997]). The protein was produced from HEK293T cells transfected with DRC1 cDNA clone (Cat# RC218997) using MegaTran 2.0 (Cat# [TT210002]).