

Product datasheet for **RG218997**

DRC1 (NM_145038) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DRC1 (NM_145038) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DRC1
Synonyms:	C2orf39; CCDC164; CILD21
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG218997 representing NM_145038
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAATCCGCGGGTCCCTAGAGGCCCTGGACCCGAACGTGGACGAGCACTTGTCCACCCAGATTCTCG
 CGCCCTCGGTCCACTCCGACAACCTCTCAGGAGCGCATCCAGGCCGCGCCTCCGCATCGCTGCGCGCTT
 AGAAGCCCGGAGGCGGGAAGCACTTGGAGAATATTTAGATGGGAAGAAGGAGAGTGAGGAGGATCAAAGC
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 GGATGCCCTCTACACAGCCTTGGAAGTACCACCTTGTCTGACCCAGAGGGCCAAGCTGCTGCTGGAA
 AACAGTTCTCTGGAGCAGCAGAACACAGAGCTGCAGGCGCTACTGCAGCAGTATCTGAACTCCAAGATCA
 ACTCTGAACTGCAAGTTCTCCCACTCAGGTGTTGCGGGTACCCACAAAA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG218997 representing NM_145038
 Red=Cloning site Green=Tags(s)

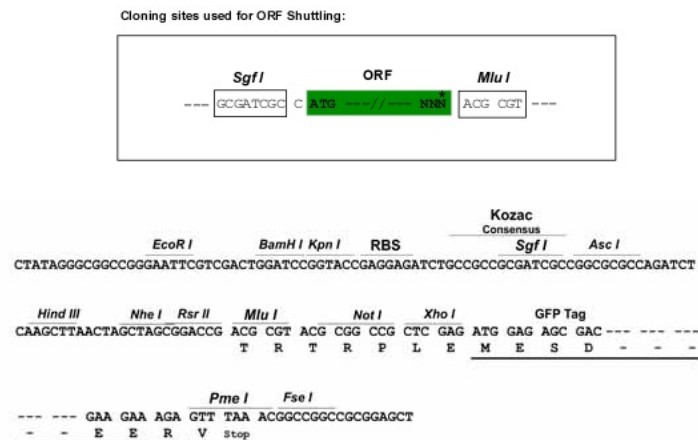
MNPPGSLEALDPNVDEHLSTQILAPSVHSDNSQERIQARRLRIARLEARREALGEYLDGKKKESEEDQS
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 LRSKYAKQIKQFQEQSLTSDYKRLVMQFKELQKAMRHFAIDDEKFREIWLMEEEAKDLIARAFDND
 RIIHTHHLGLPWAAPDFWFLNNVGPISSQPPQSATQIVEEMLMRSEEEAEAEAAEPESYLDLPKQISEK
 TTKRILMLLCDESGFLIESKLLSLLPLEQNECYLLRLDAIFSALGIESEDDLKLVNFFLKRAHRLSS
 SLQIKPCSQASMEKASMEETSTRSELEAEQTEMEGEKEESLVEGEKEEEETPPSPWVIHPNDVLKILE
 AFVGMGLKKPRDSRAPLRVQKNVRDNSKDSEYQALTTVIPSSKQNLWDALYALEKYHLVLTQRAKLLLE
 NSSLEQQNTELQALLQQYLSKINSELQVPPTQVLRVPTK

TRTRPLE – GFP Tag – V

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.

RefSeq: [NM_145038.1](#), [NP_659475.1](#)

RefSeq Size: 2490 bp

RefSeq ORF: 2223 bp

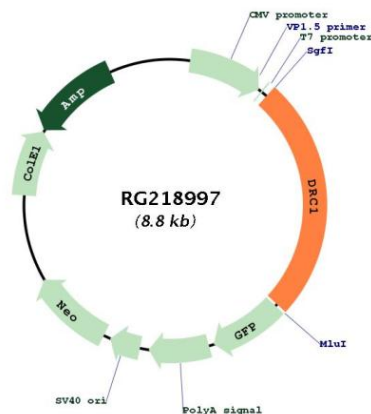
Locus ID: 92749

UniProt ID: [Q96MC2](#)

Cytogenetics: 2p23.3

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 RG218997