

## Product datasheet for **RG206168**

### **DRC7 (NM\_032269) Human Tagged ORF Clone**

#### **Product data:**

|                           |                                         |
|---------------------------|-----------------------------------------|
| Product Type:             | Expression Plasmids                     |
| Product Name:             | DRC7 (NM_032269) Human Tagged ORF Clone |
| Tag:                      | TurboGFP                                |
| Symbol:                   | DRC7                                    |
| Synonyms:                 | C16orf50; CCDC135; CFAP50; FAP50        |
| Mammalian Cell Selection: | Neomycin                                |
| Vector:                   | pCMV6-AC-GFP (PS100010)                 |
| E. coli Selection:        | Ampicillin (100 ug/mL)                  |



[View online »](#)

**ORF Nucleotide  
Sequence:**

>RG206168 representing NM\_032269  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGGTCTGAGGGAGAAGGTGGAGGAGGAGGAGGCCGAGCGGGAGGAGCGGCCGAGTGGGCTG  
 AATGGGCGAGGATGGAGAAAATGATGAGGCCAGTTGAGGTGCGGAAGGAGGAAATCACCTTAAAGCAGGA  
 GACGCTCAGAGACCTGGAGAAGAAGCTGTGAGAGATCCAGATCACTGTCTCAGCGGAGCTCCCGGCTTT  
 ACCAAGGACACTATTGACATCTCCAAGTGCCATTTCTACAAAACCAACACACCCAAGGAGGAACACC  
 TGCTGCAGGTGGCAGACAATTCTCCGCCAGTACAGCCATCTGTGCCGGACCGCTGCCCTCTTCTCT  
 GCACCCCTGAACGAGTGTGAAGTGCCCAAGTTCGTGAGCACAACCTCCGGCCCACTGATGCCCTAC  
 CCCGAGCTCTACAAGTGGGACAGCTGTGCCAGTTTGTCTCCGACTTCTCACCATGGTGCCCTGCCTG  
 ACCCTCTCAAGCCGCCCTCGCACCTGTACTCTCGACCACTGTGCTCAAGTACCAGAAGGGGAACCTCTT  
 TGACTTCAGTACGCTGCTCTGCTCCATGCTTATCGGCTCTGGCTATGATGCTTACTGCGTCAACGGCTAC  
 GGTCTGCTGGACCTGTGCCACATGGACCTGACGCGGGAGGTGTGCCCACTCACTGTGAAGCCCAAGGAGA  
 CCATCAAGAAGGAGGAAAAGGTGCTGCCTAAGAAGTATACCATCAAAACCCCAAGGACCTGTGCAGCAG  
 GTTTGAGCAGGAGCAAGAGGTGAAGAAGCAGCAGGAGATCAGAGCCCAGGAGAAGAAGCGGCTGAGGGAG  
 GAGGAGGAGCGCCTCATGGAAGCGGAGAAGGCAAGCCGATGCCCTGCACGGCTGCGGGTGCCTCTCT  
 GGGTCTTGTGCTATCGGGGAAGCGCGAGGTGCCTGAGAACTTCTTCATCGACCCATTACAGGACATAG  
 CTACAGCAGCCAGGATGAGCACTTCTGGGCATCGAAAGCCTGTGGAACCAAGAAGTACTGGATCAAC  
 ATGCAGGATTGCTGGAAGTGTGCAAGGACTTGATCTTTGACCTGGGTGACCCTGTGAGATGGGAGTACA  
 TGCTCTGGGGACTGATAAGTCTCAGCTGTCTTGACTGAAGAAGACGACAGTGGGATAAACGATGAGGA  
 TGATGTGGAAAATCTGGGCAAGGAGGATGAGGATAAGAGCTTCGACATGCCCCACTCGTGGGTGGAGCAG  
 ATTGAGATCTCCCGGAAGCATTGTGAGACCCGCTGCCTGAACGGGAAGAAGGTGATTCACTACAAGAGGG  
 CAAAGCTGGAGAAGTGGGCCCGTACCTCAATAGCAATGGCCTTGTGAGCCGCTCACCACCTATGAGGA  
 CTTGCACTGTACCAATATTTGGAGATAAAGGAGTGGTACCAGAACCGGGAAGACATGCTGGAGCTGAAA  
 CACATAACAAGACCACAGACCTGAAGACAGACTACTTCAAGCCTGGCCACCCCAAGGCTCTGCGCGTGC  
 ACTCGTACAAGTCCATGCAACATGAGATGGACCGTGTCTTGAAGTTTATGAAACGGCCCGTGTGGATGG  
 CCTGATGAAGCGGAGGAGACACCCAGGACAATGACAGAGTACTATCAAGGACGCCAGACTTCTCTCC  
 TACCGCCATGCCAGTTCGGACCCGAGTCAAGAAGCTCACTCTGAGCAGTGCAGAGTCAAACCCCGGC  
 CCATTGTGAAAATCACAGAGCGGTTCTTCGCAACCCAGCGAAGCCCGCGGAGGAGGACGTGGCAGAGCG  
 CGTGTCTCTGGTGCAGGAGGAGCGCATCCAGCTGCGCTACCACTGCCGTGAGGACCATCACGGCTCC  
 AAGCGCGAGTTCTCTGCGGCGACCGAGGTGGACAGCAAAGGCAACAAGATCATATGACGCCCGACATGT  
 GCATCAGCTTCGAGGTGGAGCCCATGGAGCACACCAAGAAGCTGCTCTACCACTACGAGGCCATGATGCA  
 CCTGAAGAGGGAGGAGAAGCTGTCCAGACATCAGGTCTGGGAGTCAGAGCTGGAGGTGCTGGAGATTCTG  
 AAGCTTCGAGAGGAAGAGGAGGCGGCACACACTGACCATCTCCATCTATGACACCAAGCGGAATGAGA  
 AGAGCAAGGAATATCGGGAGGCCATGGAGCGCATGATGCACGAAGAGCACCTGCGGCAGGTGGAGACCCA  
 GCTGGACTACCTGGCCCCATTCTGGCCAGCTCCCGCCAGGAGAGAACTAACATGCTGGCAGGCGGTG  
 CGCCTCAAGGATGAGTGCTCAGCGACTTCAAGCAGCGGCTCATCAACAAGGCCAACCTCATCCAGGCCC  
 GCTTTGAGAAGGAGACCCAGGAGCTGCAAAAGAAGCAGCAGTGGTACCAGGAGAACCAGGTGACGCTGAC  
 ACCCGAGGATGAAGACCTGTACCTGAGTTACTGCTCTCAGGCCATGTTCCGCATCCGCATCCTGGAGCAG  
 CGCCTCAATCGACACAAGGAAGTGGCCCACTGAAGTACCTGGCTCTGGAGGAAAAGCTCTACAAGGACC  
 CACGCTGGGGGAGCTCCAGAAAATATTCGCT

**ACGCGT**ACGCGGCGGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG206168 representing NM\_032269  
Red=Cloning site Green=Tags(s)

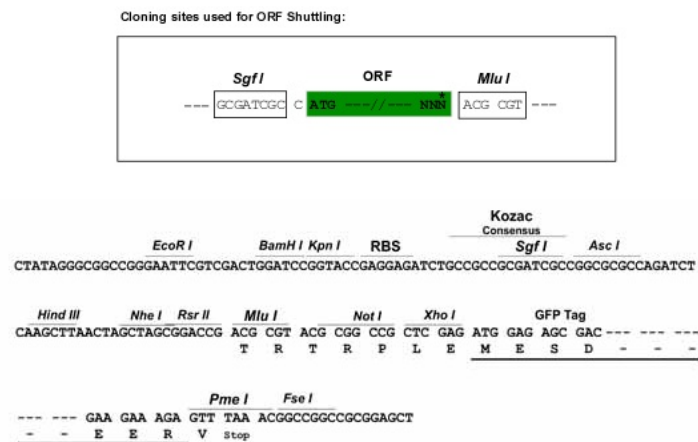
MEVLREKVEEEEEAEEREEAAEWAEMKMRPVEVRKEEITLKQETLRDLEKKLSEIQITVSAPAF  
TKDTIDISKLPISYKTNTPKEEHLQVADNFSRQYSHLCPDRVPLFLHPLNECEVPKFVSTTLRPTLMPY  
PELYNWDSCAQFVSDFLTMVPLPDLKPPSHLYSSTTVLKYQKGNSTDFSTLLCSMLIGSGYDAYCVNGY  
GSLDLCHMDLTREVCPLTVKPKETIKKEEKVLPKKYTIKPPRDLCSRFEQEVEVKKQQEIRAQEKRLRE  
EEERLMEAEKAKPDALHGLRVHSWVLVLSGKREVPENFFIDPFTGHSYSTQDEHFLGIESLWNHKNYWIN  
MQDCWNCCKDLIFDLGDPVRWEYMLLGTDKSQLSLTEEDDSGINDEDDVENLGKEDEDKSFDMPSWVEQ  
IEISPEAFETRCLNGKKVIQYKRAKLEKWAPYLSNGLVSRLTTYEDLQCTNILEIKEWYQNREDMLELK  
HINKTTDLKTDYFKPGHPQALRVHSYKSMQHEMDRVIEFYETARVDGLMKREETPRMTTEYYQGRPDFLS  
YRHASFGPRVKKLTLSSAESNRPPIVKITERFFRNPAPAEEDVAERFVLAEEIRQLRYHCREDHITAS  
KREFLRTEVDSKGNKIIMTPDMCISFEVEPMEHTKKLLYQYEAMMHLKREEKLSRHQVWESELEVLIL  
KLREEEAAHTLTISIYDKRNEKSKEYREAMERMHEHLRQVETQLDYLAFLAQLPPGEKLTWCQAV  
RLKDECLSDFKQRLINKANLIQARFEKETQELQKKQWYQENQVLTPEDEDLYLSYCSQAMFRIRILEQ  
RLNRHKELAPLKYLALEEKLYKDPRLGELQKIFA

TRTRPLE – GFP Tag – V

Restriction Sites:

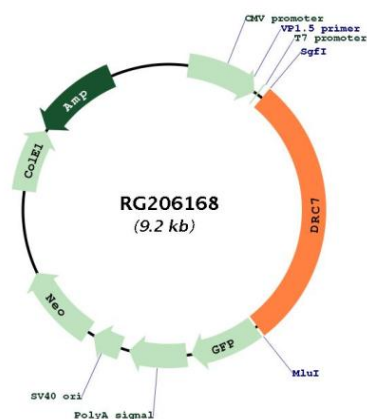
SgfI-MluI

Cloning Scheme:



|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ACCN:</b>                  | NM_032269                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>ORF Size:</b>              | 2622 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <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>Note:</b>                  | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>RefSeq:</b>                | <a href="#">NM_032269.4</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>RefSeq Size:</b>           | 2916 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>RefSeq ORF:</b>            | 2625 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Locus ID:</b>              | 84229                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>UniProt ID:</b>            | <a href="#">Q8IY82</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Cytogenetics:</b>          | 16q21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Gene Summary:</b>          | Component of the nexin-dynein regulatory complex (N-DRC) a key regulator of ciliary/flagellar motility which maintains the alignment and integrity of the distal axoneme and regulates microtubule sliding in motile axonemes. Involved in the regulation of flagellar motility. [UniProtKB/Swiss-Prot Function]                                                                                                                                                                                                        |

## Product images:



Circular map for RG206168