

Product datasheet for **RC206168**

DRC7 (NM_032269) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DRC7 (NM_032269) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DRC7
Synonyms:	C16orf50; CCDC135; CFAP50; FAP50
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC206168 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGAGTCTGAGGAGAAGGTGGAGGAGGAGGAGGCCAGCGGGAGGAGCGGCCGAGTGGGCTG
AATGGGCCAGGATGGAGAAAATGATGAGGCCAGTTGAGGTGCGGAAGGAGGAAATCACCTTAAAGCAGGA
GACGCTCAGAGACCTGGAGAAGAAGCTGTGAGAGATCCAGATCACTGTCTCAGCGGAGCTCCCGCCCTT
ACCAAGGACACTATTGACATCTCCAAGTGCCATTTCTACAAAACCAACACACCCAAGGAGGAACACC
TGCTGCAGGTGGCAGACAATTCTCCGCCAGTACAGCCATCTGTGCCGGACCGCGTGCCTCTTCTCT
GCACCCCTGAACGAGTGTGAAGTGCCCAAGTTCGTGAGCACAACCTCCGGCCCACTGATGCCCTAC
CCCGAGCTCTACAAGTGGACAGCTGTGCCAGTTTGTCTCCGACTTCTCACCATGGTGCCTGCTG
ACCCTCTCAAGCCGCCCTCGCACCTGTACTCCTCGACCACTGTGCTCAAGTACCAGAAGGGGAACCTT
TGACTTCAGTACGCTGCTGCTCCATGCTTATCGGCTCTGGCTATGATGCTTACTGCGTCAACGGCTAC
GGCTCGCTGGACCTGTGCCACATGGACCTGACCGGGAGGTGTGCCCACTCACTGTGAAGCCCAAGGAGA
CCATCAAGAAGGAGGAAAAGGTGCTGCCTAAGAAGTATACCATCAAAACCCCAAGGACCTGTGCAGCAG
GTTTGAAGCAGGAGCAAGAGGTGAAGAAGCAGCAGGAGATCAGAGCCCAAGGAGAAGAGCGGCTGAGGGAG
GAGGAGGAGCGCCTCATGGAAGCGGAGAAGGCAAGCCGATGCCCTGCACGGCTGCGGGTGCCTCTCT
GGTCTTGTGCTATCGGGGAAGCGGAGGTGCCTGAGAACTTCTTATCGACCCATTACAGGACATAG
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CCTGATGAAGCGGAGGAGACACCCAGGACAATGACAGAGTACTATCAAGGACGCCCAAGACTTCTCTCC
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CGTGTCTTCTGGTGGGAGGAGCGCATCCAGCTGCGCTACCCTGCCGTGAGGACCACATCACGGCTCC
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CCTGAAGAGGGAGGAGAAGCTGTCCAGACATCAGGTCTGGGAGTCAAGCTGGAGGTGCTGGAGATTCTG
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ACCCGAGGATGAAGACCTGTACCTGAGTTACTGCTCTCAGGCCATGTTCCGCATCCGCATCCTGGAGCAG
CGCTCAATCGACACAAGGAAGTGGCCCACTGAAGTACCTGGCTCTGGAGGAAAAGCTCTACAAGGACC
CACGCCTGGGGAGCTCCAGAAAATATTCGCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC206168 protein sequence
 Red=Cloning site Green=Tags(s)

MEVLREKVEEEEEAREEEAAEWAEWARMEKMMRPVEVRKEEITLKQETLRDLEKKLSEIQITVSaelPAF
 TKDTIDISKLPISYKTNTPKEEHLQVADNFSRQYSHLCPDRVPLFLHPLNECEVPKFVSTTLRPTLMPY
 PELYNWDSCAQFVSDFLTMVPLPDLPKPPSHLYSSTTVLK YQKGN SDFSTLLCSMLIGSGYDAYCVNGY
 GSLDLCHMDLTREVCPLTVKPKETIKKEEKVLPKKYTIKPPRDLCSRFEQEQEVEKKQQEIRAQEKRLRE
 EEERLMEAEKAKPDALHGLRVHWSWVLSGKREVPENFFIDPFTGHSYSTQDEHFLGIESLWNHKNYWIN
 MQDCWNCCKDLIFDLGDPVRWEYMLLGTDKSQLSLTEEDDSGINDEDDVENL GKEDEDKSFDMPSHWVEQ
 IEISPEAFETRCLNGKKVIQYKRAKLEKWPYLN SGLVSRLTTYEDLQCTNILEIKEWYQNREDMLELK
 HINKTTDLKTDYFKPGHPQALRVHSYKSMQHEMDRVIEFYETARVDGLMKREETPRMTMEYYQGRPDFLS
 YRHASFGPRVKKLTLSSAESNRPPIVKITERFFRNPAPAEEDVAERVFLVAEERIQLRYHCREDHITAS
 KREFLRRETEVDSKGNKIIMTPDMCISFEVEPMEHTKLLYQYEAMHLKREEKLSRHQVWESELEVL EIL
 KLREEEAAHTL TISIYDTRNEKSKEYREAMERMHEEHLRQVETQLDYLAFLAQLPPGKELTCWQAV
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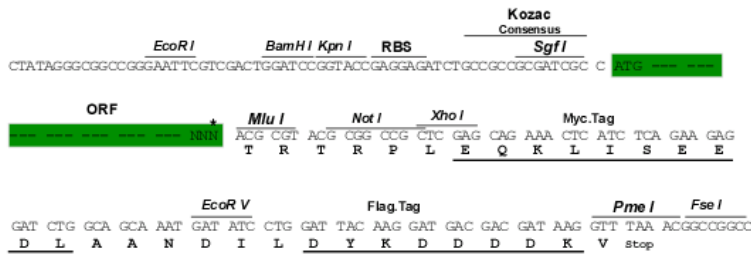
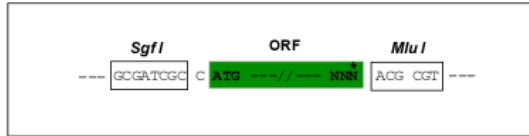
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6318_d08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

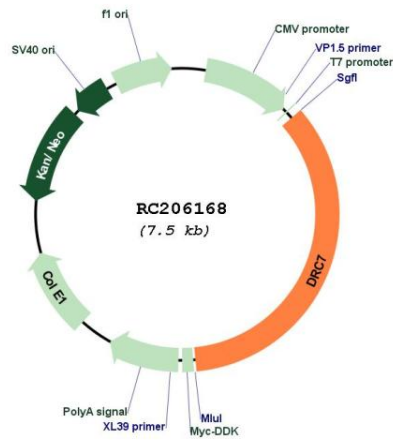
Cloning sites used for ORF Shuttling:



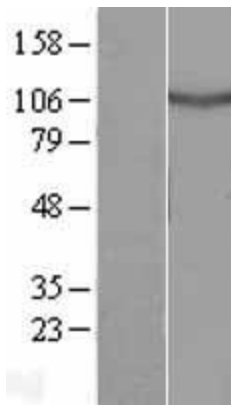
* The last codon before the Stop codon of the ORF

ACCN:	NM_032269
ORF Size:	2622 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:	<ol style="list-style-type: none">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_032269.4
RefSeq Size:	2926 bp
RefSeq ORF:	2625 bp
Locus ID:	84229
UniProt ID:	Q8IY82
Cytogenetics:	16q21
MW:	103.5 kDa
Gene Summary:	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]

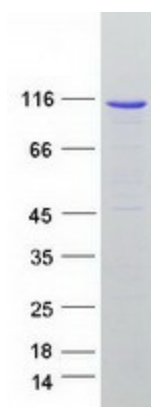
Product images:



Circular map for RC206168



Western blot validation of overexpression lysate (Cat# [LY410255]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206168 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified DRC7 protein (Cat# [TP306168]). The protein was produced from HEK293T cells transfected with DRC7 cDNA clone (Cat# RC206168) using MegaTran 2.0 (Cat# [TT210002]).