

Product datasheet for **RN215278**

Drc1 (NM_001007009) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Drc1 (NM_001007009) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Drc1
Synonyms:	Ccdc164
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN215278 representing NM_001007009
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAATCCATCAGGAAGCATTGGGGTCTAGAGCAGAATGGGAAGAACAACCTTAGCTGCCCAATTCTCG
 GGCCCTCGGTGAATTCGATAACCCGCAGGAGCGAATCCAGGCCCGCGCCTTCGCATCGCTGCCGCCA
 GGAAGCCAGAAGGCGGGAAGCTCTGGGAGAGTATTTGGATGGCAAGAAGGAGAGTGAGGAGGAGCAAAGC
 AAGAGCTACAAACAGAAAGAAGAGAGCCGACTGAAACTGACTAAACTCCTGCTCTGTGGGACTGAGTTGG
 TGACAAATATTCAGGTGGCTGCAGACATAAGAGAGATCCACAGGAGGGTTGAGGAAGAGGAGACAAAGCG
 GCAGCGACTGGAAAAGTTGGAGAATGAAGTTAAGACCAGCCAGGACAAATTTGATGAAATCACGTGGAAG
 TGGGAAGAGGGCAGACAGAAGCGGATCCGCAGGAACTGTGGGAGATGCTCAACAACCAGCAGGTGCACT
 GTGCTGGGCTCGTAGAAGACAAGAACAAGCTGATCAGCGAGCTGCAGCAGGAGTTAAAAATAAAGGATGA
 CCAGTATGTGAAGGACTTGAAGAAACAGTCAGAAGACATCACCGTCTTCTGGAGAGGATGGAGGAGCAA
 GTGAAGAGCGTGATGAAGAACTCCGTCAAGAGCTCAATTACATCGAGAAGGCCCTTTGAGTCAGAGCGAC
 AAGAACTGCTAACCCTAATAAGAAGAAATGGGAGCGAGCCCTGCAGGCTCACAATGCCAAGGAGCTGGA
 GTACCTCATCAACCGCATGAAGAGGGTGGAGGACTACGAGAAACAGCTCAACAGGCAGCGGGTCTGGGAC
 TGCGAGGAGTACAACCGATCAAGATCAAGCTGGAGCAGGACGTACAGATTCTTGAGCAGCAGCTGCAGC
 AGATGAAGGCAACTTACCAGCTAAACCAGGAGAAGCTGGAGTACAACCTCCAGGTCTGAAGAAGAGAGA
 CGAAGAGAGCACGGTGATCAAGTCCCAGCAGAAGAGGAACTCAACCGCTGCACGATATCTCAACAAC
 CTGAGAACAAAATACAGCAAGCAGATAAAGCAGTTTCAGGAGGACAACCAGTCCCTGACCTCAGACTACA
 AACGGCTCGTGACGCAGTTCAAGGACCTACAGAAAGCCATAAGACACTTCATCATATTGACCAGGATAA
 GTTTCGGGAAAATTTGGCTGATGAATGAAGCTGAGGCGAAGGAAGTGGCGCAAAGAGCCTTCGATGTGGAC
 AAGATCATTTCATCCAGCACCTGGGGTGGCCCTGGAAGATTCCCAACTTCTGGTTCCTGAATAATGTGG
 GGCCGATCTCCCTGCAGCAGCAGCAGAAGTCAGTCACACAAATACTAGAAGAACTGCTGCTGCAGTCAGA
 AGATGAGGGGACAGAGACAGCCATGTCCGAAGACGAGTCTTACATGGACCTGCCCAATCAAGTTTCAGCA
 AAAACTACAAAAAGATCTTGGTCTCCTGTGTGATGAGTCGGGTTTCTCATAGAGAGCAAACACTACTGA
 GTCTGCTCCTCCCTGGAGAAGAGTGAAGTCTATCTGCTGAGGTTGGATGCCATCTTTTCTGCCCTGGG
 AATCGAGAGCGAGGATGACTTGTACAAGATGGTAACTTCTTCTTAGATTCAAAGCCCACCATTTGTCC
 TCTGCCAGGTGACATCTCCACTCACAGCAATGCGGAGCGCACAAAGCCTGGTGTGACGCTGCAGCATA
 TGAGCTTGATGTCCAGACAGACAGGAGAAGTTCAGCATCCAAATCAGATGGAGACCCACAGAGCTAGA
 GGACCAGCAGGGAAGTGACAATGGAAGCCTTATGGGCAGGGAGTTGGTAGAACAGGAGGACTTGTCTTCA
 CCCATGTTTCATCCACCCCAATGATGTTCTCAAGATTCTGGATGCCTTTGTACGGGGCTGAAGAAGCCCA
 AGGACGCTCGACCAGTACAGAGATTGAAGAAAGATACTCGAAATAACTTGAAGGACACAGAGTACTGGGA
 ATCGCTGGCTATGGTTATCCCTTTCTCCAAGCAGAACCTCTGGGATGCGCTGTTCAAGGCCTTGGAGAAA
 TACTACCTTGTGCTGACCCAGAGGGCAAGCTGCTGATGGAGAATGACTCCCTGGAGCAGCAGAATGCAG
 AGATGCAGTCCCTGCTGCAGCAGTATCTCCAGGCCAAGGTAATTTGGAAGTGCAGGTCCCTCCAACCTCA
 GGGCTTCGGATGCCCTCAAAA**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001007009
Insert Size: 2265 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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.
RefSeq:	NM_001007009.1 , NP_001007010.1
RefSeq Size:	2493 bp
RefSeq ORF:	2265 bp
Locus ID:	362712
UniProt ID:	Q5XI65
Cytogenetics:	6q14
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. Plays a critical role in the assembly of N-DRC and also stabilizes the assembly of multiple inner dynein arms and radial spokes. Coassembles with CCDC65/DRC2 to form a central scaffold needed for assembly of the N-DRC and its attachment to the outer doublet microtubules.[UniProtKB/Swiss-Prot Function]