

## Product datasheet for **MC221349**

### **Drc1 (NM\_001033460) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Drc1 (NM_001033460) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Drc1
Synonyms:	b2b1654Clo; Ccdc164; Gm1060
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC221349 representing NM\_001033460  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAATCCCTCAGGAACCATTGGGGTCTAGAGCAGAATGGGAAGAACAACCTTAGCCACCCCGATTCTCG  
 GACCCCTCGGTGCATTTCGGATAACCCGCAGGAGCGGATCCAGGCCCGCGCCTGCGCATCGCTGCTCGTCA  
 GGAAGCCCGAAGGCGGGGAGCCCTGGGAGAGTATTTGGACGGGAAGAAGGAGAGTGAGGAGGAGCAGAGC  
 AAGAGCTACAAACAGAAAGAAGAGAGCCGCTGAAACTGACTAAACTCCTGCTCTGCGGGACCGAGTTGG  
 TGACAAATATTCAGGTGGCTGCAGAGCTCAGAGAGATCCACAGGAGGGTTGAAGAGGAGGAGACAAAGCG  
 GCAGAGACTGGAGAAGCTGGAGAATGAAGTTAAGACCAGCCAGGATAAATTTGATGAAATCACGGCGAAG  
 TGGGAGGAGGGCAGACGGAAGCGGATCCCCAGGAACTGTGGGAGATGCTCAACAGCCAGCAGGTGCACT  
 GTGCTGAGCTCATAGAAGACAAGAACAAGCTGGCCAACGAGCTGCAGCAGGAGTTAAAAATAAAGGATGA  
 CCAGTATGTGAAGGACTTGAAGAAACAGTCGGAAGACATCACCTGATTCTGGAGAGAATGGAGGAGCAG  
 GTGAAGAATGTGATGAAGAACTTCGCCAGGAGCTGATTCACATCGAGAAAGCCTTTGAGTCAGAACGGC  
 AAGAACTGCTATCCAGCAATAAGAAGAAATGGGAGCGAGCCCTGCAGGCTCACAATGCCAAGGAGCTGGA  
 GTACCTCACCAACCGCATGAAGAAGGTGGAGGACTACGAGAAGCAGCTCAACAAGCAGCGGGTCTGGGAC  
 TGTGAGGAGTACAACACAATCAAGATCAAGCTAGAGCAGGATGTGCAGATTCTTGAGCAACAGCTTCAGC  
 AGATGAAAGCAACTTACCAGCTAAACCAAGAGAAGCTGGAGTACAACCTTCAGGTCTGAAGAAGAGAGA  
 TGAAGAGAGCACAGTGATCAAGTCCCAGCAGAAGAGGAACTGAACCGCTGCACGATGTCGTCACAAT  
 CTGAGAACAAAATACACCAAGCAGATACGGCAGTTTCAGGATGACAACAGTCCCTGACCTCCGACTACA  
 AACGGCTTGTGACGCAATTCAGGACCTACAGAAAGCCTTGAGACACTTCATCATCATGAGGAGAA  
 GTTTCGGGAGATTTGGCTGATGAATGAAGCAGAGGCGAAGGAACCTGGCACAAAGAGCCTTTGATGTGGAC  
 AGGATCATCCATTCACAGCACCTGGGCTTACCCTGGAATATGCCTGACTTGTGGTTCTGAATAACGTGG  
 GGCCGATTTCCCTGCAGCAGCAGAAGTCAGTCACACAAATACTGGAGGAACTGCTGTTGCAGACAGAGGA  
 TGAGGCCACAGAGGCAGCCATGTCGGAAGACGAGGATTACATGGACCTGCCCAATCAAATTTTCAGCCAAA  
 ACCACCACAAAGGTCTGATGCTCCTGTGTGATGAGTCCGGTTTCTCATAGAGAGCAAACACTACTGAGTC  
 TGCTCCACCCCTGGAGAAGAGTGAATGCTATCTGCTGAGGTTGGACGCCATCTTCTCCGCCCTGGCAAT  
 CGAAGACGAGGATGACTTATAACAAGCTGGTAAACTTCTCCTTCGATACCGAGCCCACCGTCTATCCTCT  
 GCCCAGGCCAGTTCTCCATTATAGCAATGTGGAGCGTACAAGCCTGATGTCAGCACTAGAGCGTTTGA  
 GTCTGATGTCCCAGACAGACAAGGGAAGCATGGTGTCAAATCAGATCAGGAGCCACAGAGCAGGAGGA  
 CGAGCAGGAAGGTGACAACGCAAGCCTCTCGAGCAGGGAGTTGGAAGAGCAGGAGGACCTGTCATACCC  
 AGGTTATCCACCCCAATGATGTTCTCAAGATTCTGGAGGCCCTTGTACGGGGCTGAAGAAGCCTAAGG  
 ACGCTCAGCCAGTACTGAAATTGAAGAAAGAGACTCGAGATAACTCGAAGGACACGGAGTACTGGGAATC  
 CCTGGCTGCGGTTATTCCTTTCTCAAGCAGAACCTCTGGGATGCGCTGTACAAGGCTTGGAGAAATAC  
 TATCTCGTGTGACCGAGAGGGCCAAGCTGCTGATGGAGAATGAGTCTCTGGAGCAGCAGAATGCAGAGA  
 TGCAGTCCCTGCTGCAGCAGTATCTCCAGGCCAAGGTAACACAGAACTGCAGATCCCACCAACTCAGGG  
 CTTCCGGATGCCCTCAAAATGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001033460  
**Insert Size:** 2262 bp

<b>OTI Disclaimer:</b>	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).
<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>RefSeq:</b>	<a href="#">NM_001033460.3</a> , <a href="#">NP_001028632.1</a>
<b>RefSeq Size:</b>	2485 bp
<b>RefSeq ORF:</b>	2262 bp
<b>Locus ID:</b>	381738
<b>UniProt ID:</b>	<a href="#">Q3USS3</a>
<b>Cytogenetics:</b>	5 B1
<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. 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]