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Product datasheet for MR214733

Drc1 (NM_001033460) Mouse Tagged ORF Clone

Product data:

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

ORF Nucleotide Sequence:

>MR214733 representing NM_001033460
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAATCCCTCAGGAACCATTGGGGTCCTAGAGCAGAATGGGGAAGAACACTTAGCCACCCCGATTCTCG
GACCCTCGGTGCATTCGGATAACCCGCAGGAGCGGATCCAGGCCCGGCGCCTGCGCATCGCTGCTCGTCA
GGAAGCCCGAAGGCGGGAAGCCCTGGGAGAGTATTTGGACGGGAAGAAGGAGAGTGAGGAGGAGCAGAGC
AAGAGCTACAAACAGAAAGAAGAGAGCCGCCTGAAACTGACTAAACTCCTGCTCTGCGGGACCGAGTTGG
TGACAAATATTCAGGTGGCTGCAGACGTCAGAGAGATCCACAGGAGGGTTGAAGAGGAGGAGACAAAGCG
GCAGAGACTGGAGAAGCTGGAGAATGAAGTTAAGACCAGCCAGGATAAATTTGATGAAATCACGGCGAAG
TGGGAGGAGGGCAGACGGAAGCGGATTCCCCAGGAACTGTGGGAGATGCTCAACAGCCAGCAGGTGCACT
GTGCTGAGCTCATAGAAGACAAGAACAAGCTGGCCAACGAGCTGCAGCAGGAGTTAAAAATAAAGGATGA
CCAGTATGTGAAGGACTTGAAGAAACAGTCGGAAGACATCACCCTGATTCTGGAGAGAATGGAGGAGCAG
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AAGAACTGCTATCCAGCAATAAGAAGAAATGGGAGCGAGCCCTGCAGGCTCACAATGCCAAGGAGCTGGA
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TGTGAGGAGTACAACACAATCAAGATCAAGCTAGAGCAGGATGTGCAGATTCTTGAGCAACAGCTTCAGC
AGATGAAAGCAACTTACCAGCTAAACCAAGAGAAGCTGGAGTACAACTTTCAGGTCCTGAAGAAGAGAGA
TGAAGAGAGCACAGTGATCAAGTCCCAGCAGAAGAGGAAACTGAACCGCCTGCACGATGTCGTCAACAAT
CTGAGAACAAAATACACCAAGCAGATACGGCAGTTTCAGGATGACAACCAGTCCCTGACCTCCGACTACA
AACGGCTTGTGACGCAATTCAAGGACCTACAGAAAGCCTTGAGACACTTCATCATCATCGATGAGGAGAA
GTTTCGGGAGATTTGGCTGATGAATGAAGCAGAGGCGAAGGAACTGGCACAAAGAGCCTTTGATGTGGAC
AGGATCATCCATTCCCAGCACCTGGGCTTACCCTGGAATATGCCTGACTTGTGGTTCCTGAATAACGTGG
GGCCGATTTCCCTGCAGCAGCAGAAGTCAGTCACACAAATACTGGAGGAACTGCTGTTGCAGACAGAGGA
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ACCACCACAAAGGTCCTGATGCTCCTGTGTGATGAGTCGGGTTTCCTCATAGAGAGCAAACTACTGAGTC
TGCTCCACCCCCTGGAGAAGAGTGAATGCTATCTGCTGAGGTTGGACGCCATCTTCTCCGCCCTGGCAAT
CGAAGACGAGGATGACTTATACAAGCTGGTAAACTTCTTCCTTCGATACCGAGCCCACCGTCTATCCTCT
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GTCTGATGTCCCAGACAGACAAGGGAAGCATGGTGTCCAAATCAGATCAGGAGCCCACAGAGCAGGAGGA
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AGGTTCATCCACCCCAATGATGTTCTCAAGATTCTGGAGGCCTTTGTCACGGGGCTGAAGAAGCCTAAGG
ACGCTCAGCCAGTACTGAAATTGAAGAAAGAGACTCGAGATAACTCGAAGGACACGGAGTACTGGGAATC
CCTGGCTGCGGTTATTCCTTTCTTCAAGCAGAACCTCTGGGATGCGCTGTACAAGGCCTTGGAGAAATAC
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TGCAGTCCCTGCTGCAGCAGTATCTCCAGGCCAAGGTAAACACAGAACTGCAGATCCCACCAACTCAGGG
CTTCCGGATGCCCTCAAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR214733 representing NM_001033460
Red=Cloning site Green=Tags(s)

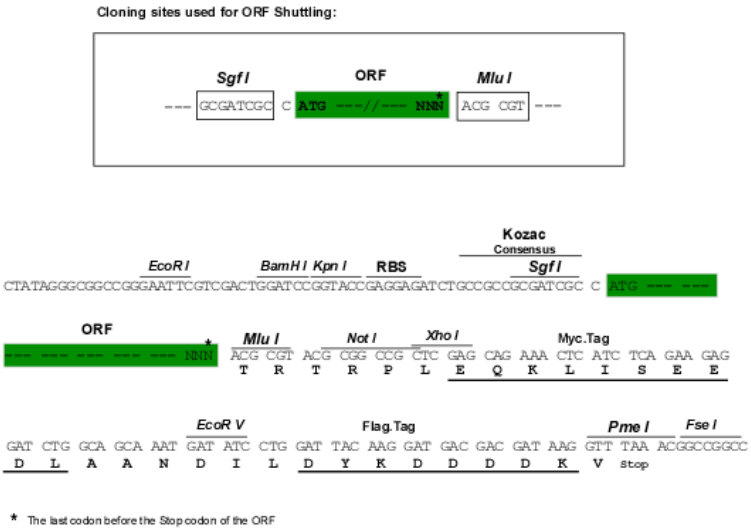
MNPSGTIGVLEQNGEEHLATPILGPSVHSDNPQERIQARRLRIAARQEARRREALGEYLDGKKESEEEQS
KSYKQKEESRLKLTKLLLCGTELVTNIQVAADVREIHRRVEEEETKRQRLEKLENEVKTSQDKFDEITAK
WEEGRRKRIPQELWEMLNSQQVHCAELIEDKNKLANELQQELKIKDDQYVKDLKKQSEDITLILERMEEQ
VKNVMKNFRQELIHIEKAFESERQELLSSNKKKWERALQAHNAKELEYLTNRMKKVEDYEKQLNKQRVWD
CEEYNTIKIKLEQDVQILEQQLQQMKATYQLNQEKLEYNFQVLKKRDEESTVIKSQQKRKLNRLHDVVNN
LRTKYTKQIRQFQDDNQSLTSDYKRLVTQFKDLQKALRHFIIIDEEKFREIWLMNEAEAKELAQRAFDVD
RIIHSQHLGLPWNMPDLWFLNNVGPISLQQQKSVTQILEELLLQTEDEATEAAMSEDEDYMDLPNQISAK
TTTKVLMLLCDESGFLIESKLLSLLHPLEKSECYLLRLDAIFSALAIEDEDDLYKLVNFFLRYRAHRLSS
AQASSSIHSNVERTSLMSALERLSLMSQTDKGSMVSKSDQEPTEQEDEQEGDNASLSSRELEEQEDLSSP
RFIHPNDVLKILEAFVTGLKKPKDAQPVLKLKKETRDNSKDTEYWESLAAVIPFFKQNLWDALYKALEKY
YLVLTERAKLLMENESLEQQNAEMQSLLQQYLQAKVNTELQIPPTQGFRMPSK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9100_c04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001033460

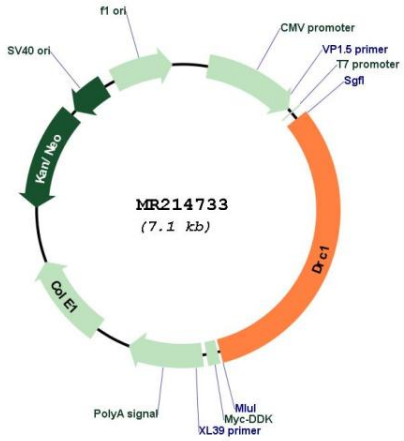
ORF Size: 2259 bp

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001033460.4
RefSeq Size:	2485 bp
RefSeq ORF:	2262 bp
Locus ID:	381738
UniProt ID:	Q3USS3
Cytogenetics:	5 B1
MW:	88.5 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. 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]

Product images:



Circular map for MR214733