

Product datasheet for **RC230557**

DRP2 (NM_001171184) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DRP2 (NM_001171184) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DRP2
Synonyms:	DRP-2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

**ORF Nucleotide
Sequence:**

>RC230557 representing NM_001171184
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTCATGCAGGGATGCCCTTACACCCTCCACGATGTCATGACTGGCAGGCAGCTGACCAGTTCATC
 ATAGCAGCAGCCTCCGAAGCACCTGCCCCACCCTCAGGTTAGAGCTGCTGTACCAGCCCTGCACCTCC
 TCAAGATGGTGTGGGGTCCCTGCCTAAGCCTAAAGCTGTTGAACGGGTCTGTTGGTGCCTCTGGACCC
 CTGGAACCACCAGCCATGAATCTGTGTTGGAATGAAATAAAAAAGAAAGTCTCACAACTCCGCGCTCGCC
 TAGAGGCTTCTCAGACCACAGTGGAAAGCTTACAGCTCCCTTTCAAGAGATTATTGACTGGCTCAGCCA
 AAAGGATGAGGAGTTGTCAGCTCAGTGCCCTACAGGGGGATGTGGCCCTGGTGAACAGGAGAAGGAG
 ACACATGCGGCCCTTATGGAAGAAGTCAAGTCTCGGGGCCCTACATCTATTCTGTGCTGGAGTCAGCTC
 AGGCTTCTGTCCAGCACCCATTTGAGGAGTTAGAGGAGCCTCATTCTGAGAGCAAAGATACCTCCCC
 GAAACAGCGGATCCAGAATCTCAGCCGCTTTGTATGGAAGCAGGGCAGCGTGGCCAGTGAAGTGTGGGAG
 AAGTTGACAGCCCGCTGTGTGGACCAGCACCGTACATTGAGCGGACTCTGGAGCAGCTCTTGGAGATTC
 AAGGGGAATGGAGGAATAAGCACTACTCTGAGCCAAGCTGAGGGAGTCCGAGCCACTTGGGAGCCAT
 TGGGGATCTTTCATTGATTCACTCCCAGAGCACATCCAGGCTATTAAGCTGTTCAAAGAAGAATTTCC
 CCCATGAAAGATGGAGTAAAGTTGGTGAATGATCTGGCCACCAACTTGCATTCTGATGTGCATTGT
 CAATGGAGAATCCCAGGCCCTGGAACAGATCAACGTCCGATGGAACAACACTACAGGCGTCAGTTAGTGA
 GAGGCTTAAGCAGCTCCAGGATGCCACCGGGACTTTGGGCTGGGTACAGCACTTTCTCTCTCTCTCT
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 CTCAGCTTATCGCACTGCCATGAAACTCCGAGAGTCCAGAAAGCCCTGCGCTTGGACCTGGTAACCTTTA
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 GGTGCCCGCTCAGCTGGGTGAAGTGGCAGCCTTTGGGGCAGCAATGTGGAGCCAGTGTCCGTAGTTGC
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 AGTCCATGGTGTGGCTGGCTGTTCTGCATCGGGTACCATTGCTGAGCAAGTGAAGCATCAGACCAAGTG
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 ACACACCAGCCACATCCAGTGAGAACATGAGGGACTTTGCCACAACCTTAAAGAACAATTCGCTCCAA
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 GAGACGCCGGCTTCTTCCCGATGTGGCCACACGCCGACACACTCCCGAATTGAGCATTTTGGCAGCA
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC230557 representing NM_001171184
 Red=Cloning site Green=Tags(s)

MVMQGCPYTLPRCHDWQAADQFHSSSLRSTCPHPQVRAAVTSPAPPQDGAGVPCLSLKLLNGSVGASGP
 LEPPAMNLCWNEIKKSHNLRARLEAFSDHSGKLQLPLQEIIDWL S QKDEELSAQLPLQGDVALVQQEKE
 THAAFMEEVKSRGPYIYVLESAQAFLSQHPFEELEEPHSESKDTPKQRIQNL SRFVWKQATVASELWE
 KLTARCVDQHRHIERTLEQLLEIQGAMEELSTTLSQAEGVRATWEPIGDLFIDSLPEHIQAIKLFKEEFS
 PMKDGVKLVNDLAHQLAISDVHLSMENSQALEQINVRWKQLQASVSRERLQQLQDAHRDFGPGSQHFLSSS
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 LSFKTGIACLCGTEVKEKLQYLF SQVANSQSQCQRHLGVLLHEAIQVPRQLGEVAAFGGSNVEPSVRSC
 FRFSTGKPVIEASQFLEWVNLQPQSMVWLAHLRVITIAEQVKHQTKCSICRQCPKGFYRSLKQFNVDI
 CQTCFLTGRASKGNKLHYPIMEYYTPTTSENMRDFATTLKKNFRSKHYFSKHPQRGYLPVQSVLEADYS
 ETPASSPMWPHADTHSRIEHFASRLAEMESQNCFFNDSLSPDDSIDEDQYLLRHSSPITDREPAFGQQA
 PCSVATESKGELQKILAHLEDENRILQGELRRLKWQHEEAAEAPSLADGSTEATDHRNEELLAEARILR
 QHKSRLERMQILEDHNKQLESQQLRELLLPPTESDGSAGSSLASPPQSQSEGSHPREKGGTTPDT
 EAADDVGSKSQDVSLCLEDIMEKLRHAFPSVRSSDVTANTLLAS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

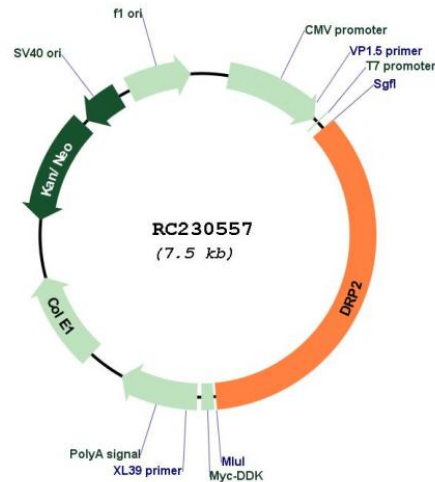
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001171184

ORF Size: 2865 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.

RefSeq: [NM_001171184.1](#), [NP_001164655.1](#)

RefSeq Size: 6835 bp

RefSeq ORF: 2640 bp

Locus ID: 1821

UniProt ID: [Q13474](#)

Cytogenetics: Xq22.1

MW: 107.6 kDa

Gene Summary: Members of the dystrophin family of proteins perform a critical role in the maintenance of membrane-associated complexes at points of intercellular contact in vertebrate cells. The protein encoded by this gene is predicted to resemble certain short C-terminal isoforms of dystrophin and dystrophin-related protein 1 (DRP1 or utrophin). DRP2 is expressed principally in the brain and spinal cord. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2010]