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Product datasheet for RC239474

DRP1 (DNM1L) (NM_001278464) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DRP1 (DNM1L) (NM_001278464) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DRP1
Synonyms:	DLP1; DRP1; DVLP; DYMPLE; EMPF; EMPF1; HDYNIV; OPA5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>RC239474 representing NM_001278464
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGGCGCTAATTCCTGTCATAAACAAGCTCCAGGACGTCTTCAACACGGTGGGCGCCGACATCATCC
AGCTGCCTCAAATCGTCGTAGTGGGAACGCAGAGCAGCGGAAAGAGCTCAGTGCTAGAAAGCCTGGTGGG
GAGGGACCTGCTTCCCAGAGGTACTGGAATTGTCACCCGGAGACCTCTCATTCTGCAACTGGTCCATGTT
TCACAAGAAGATAAACGGAAAACAACAGGAGAAGAAAATGACCCTGCTACATGGAAAAACTCAAGACACC
TTTCTAAAGGGGTGGAAGCAGAAGAATGGGGTAAATTTCTTCACACCAAAAATAAGCTTTACACGGATTT
TGATGAAATTCGACAAGAAATTGAAAATGAAACAGAAAGAATTTCAGGAAATAATAAGGGAGTAAGCCCT
GAACCAATTCATCTTAAGATTTTTTCACCCAACGTTGTCAATTTGACACTTGTGGATTTGCCAGGAATGA
CCAAGGTGCCTGTAGGTGATCAACCTAAGGATATTGAGCTTCAAATCAGAGAGCTCATTCTTCGGTTCAT
CAGTAATCCTAATTCCATTATCCTCGCTGTCACTGCTGCTAATACAGATATGGCAACATCAGAGGCACTT
AAAATTTCAAGAGAGGTAGATCCAGATGGTCGCAGAACCCTAGCTGTAATCACTAAACTTGATCTCATGG
ATGCGGGTACTGATGCCATGGATGTATTGATGGGAAGGGTTATTCCAGTCAAACTTGGAATAATTGGAGT
AGTTAACAGGAGCCAGCTAGATATTAACAACAAGAAGAGTGTAACTGATTCAATCCGTGATGAGTATGCT
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GGTTACTGATGCATCACATCAGAGATTGTTTACCAGAGTTGAAAACAAGAATAAATGTTCTAGCTGCTCA
GTATCAGTCTCTTCTAAATAGCTACGGTGAACCCGTGGATGATAAAAGTGCTACTTTACTCCAACTTATT
ACCAAATTTGCCACAGAATATTGTAACACTATTGAAGGAACTGCAAAATATATTGAAACTTCGGAGCTAT
GCGGTGGTGCTAGAATTTGTTATATTTTCCATGAGACTTTTGGGCGAACCTTAGAATCTGTTGATCCACT
TGGTGGCCTTAACACTATTGACATTTTGACTGCCATTAGAAATGCTACTGGTCCTCGTCCTGCTTTATTT
GTGCCTGAGGTTTCATTTGAGTTACTGGTGAAGCGGCAAATCAAACGTCTAGAAGAGCCCAGCCTCCGCT
GTGTGGAACTGGTTCATGAGGAAATGCAAAGGATCATTCAGCACTGTAGCAATTACAGTACACAGGAATT
GTTACGATTTCCTAAACTTCATGATGCCATAGTTGAAGTGGTGACTTGTCTTCTTCGTAAAAGGTTGCCT
GTTACAAATGAAATGGTCCATAACTTAGTGGCAATTGAACTGGCTTATATCAACACAAAACATCCAGACT
TTGCTGATGCTTGTGGGCTAATGAACAATAATATAGAGGAACAAAGGAGAAACAGGCTAGCCAGAGAATT
ACCTTCAGCTGTATCACGAGACAAGTCTTCTAAAGTTCCAAGTGCTTTGGCACCTGCCTCCCAGGAGCCC
TCCCCCGCTGCTTCTGCTGAGGCTGATGGCAAGTTAATTCAGGACAGCAGAAGAGAAACTAAAAATGTTG
CATCTGGAGGTGGTGGGGTTGGAGATGGTGTTCAAGAACCAACCACAGGCAACTGGAGAGGAATGCTGAA
AACTTCAAAAGCTGAAGAGTTATTAGCAGAAGAAAAATCAAAACCCATTCCAATTATGCCAGCCAGTCCA
CAAAAAGGTCATGCCGTGAACCTGCTAGATGTGCCAGTTCCTGTTGCACGAAAACTATCTGCTCGGGAAC
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CAGTGTGCCAAAGGCAGTAATGCATTTTTTGGTTAATCATGTGAAAGACACTCTTCAGAGTGAGCTAGTA
GGCCAGCTGTATAAATCATCCTTATTGGATGATCTTCTGACAGAATCTGAGGACATGGCACAGCGCAGGA
AAGAAGCAGCTGATATGCTAAAGGCATTACAAGGAGCCAGTCAAATTATTGCTGAAATCCGGGAGACTCA
TCTTTGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

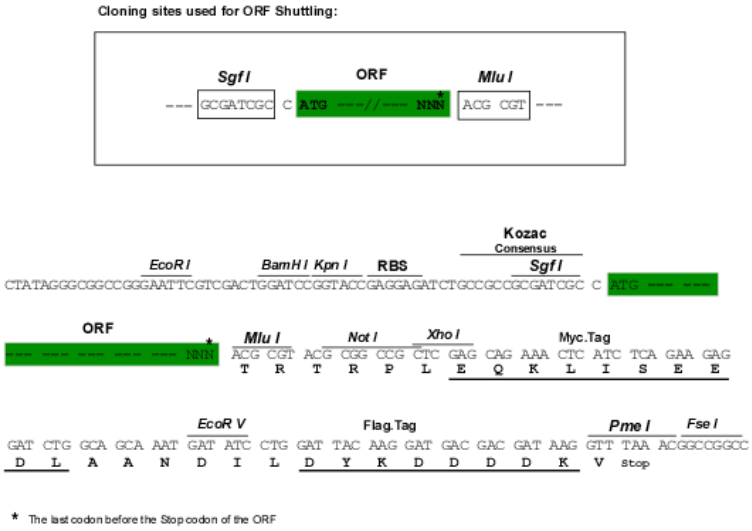
>RC239474 representing NM_001278464
Red=Cloning site Green=Tags(s)

MEALIPVINKLQDVFNTVGADIIQLPQIVVVGTQSSGKSSVLESLVGRDLLPRGTGIVTRRPLILQLVHV
SQEDKRKTTGEENDPATWKNSRHLSKGVEAEEWGKFLHTKNKLYTDFDEIRQEIENETERISGNNKGVSP
EPIHLKIFSPNVVNLTLVDLPGMTKVPVGDQPKDIELQIRELILRFISNPNSIILAVTAANTDMATSEAL
KISREVDPDGRRTLAVITKLDLMDAGTDAMDVLMGRVIPVKLGIIGVVNRSQLDINNKKSVTDSIRDEYA
FLQKKYPSLANRNGTKYLARTLNRLLMHHIRDCLPELKTRINVLAAQYQSLLNSYGEPVDDKSATLLQLI
TKFATEYCNTIEGTAKYIETSELCGGARICYIFHETFGRTLESVDPLGGLNTIDILTAIRNATGPRPALF
VPEVSFELLVKRQIKRLEEPSLRCVELVHEEMQRIIQHCSNYSTQELLRFPKLHDAIVEVVTCLLRKRLP
VTNEMVHNLVAIELAYINTKHPDFADACGLMNNNIEEQRRNRLARELPSAVSRDKSSKVPSALAPASQEP
SPAASAEADGKLIQDSRRETKNVASGGGGVGDGVQEPTTGNWRGMLKTSKAEELLAEEKSKPIPIMPASP
QKGHAVNLLDVPVPVARKLSAREQRDCEVIERLIKSYFLIVRKNIQDSVPKAVMHFLVNHVKDTLQSELV
GQLYKSSLLDDLLTESEDMAQRRKEAADMLKALQGASQIIAEIRETHLW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001278464

ORF Size: 2247 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).

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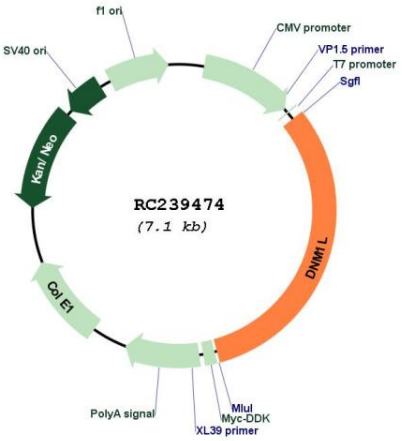
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid 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_001278464.1, NP_001265393.1
RefSeq Size:	4654 bp
RefSeq ORF:	2250 bp
Locus ID:	10059
UniProt ID:	O00429
Cytogenetics:	12p11.21
Protein Pathways:	Endocytosis, Fc gamma R-mediated phagocytosis
MW:	83.8 kDa
Gene Summary:	This gene encodes a member of the dynamin superfamily of GTPases. The encoded protein mediates mitochondrial and peroxisomal division, and is involved in developmentally regulated apoptosis and programmed necrosis. Dysfunction of this gene is implicated in several neurological disorders, including Alzheimer's disease. Mutations in this gene are associated with the autosomal dominant disorder, encephalopathy, lethal, due to defective mitochondrial and peroxisomal fission (EMPF). Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jun 2013]

Product images:



Circular map for RC239474

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