

Product datasheet for **RC238754**

DRP1 (DNM1L) (NM_001278466) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DRP1 (DNM1L) (NM_001278466) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DNM1L
Synonyms:	DLP1; DRP1; DVLP; DYMPLE; EMPF; EMPF1; HDYNIV; OPA5
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC238754 representing NM_001278466
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTTCAACAAGAAGATAAACCGAAAACAACAGGAGAAGAAAATGACCCTGCTACATGAAAAACTCAAG
 ACACCTTTCTAAAGGGTGAAGCAGAAGAATGGGGTAAATTTCTTACACCAAAAAATAAGGAGCCAGCT
 AGATATTAACAACAAGAAGAGTGAAGTCAATCCGTGATGAGTATGCTTTTCTTCAAAGAATAT
 CCATCTCTGGCCAATAGAAATGGAACAAAGTATCTTGCTAGGACTCTAACAGGTTACTGATGCATCACA
 TCAGAGATTGTTTACCAGAGTTGAAAACAAGAATAAATGTTCTAGCTGCTCAGTATCAGTCTCTTCTAAA
 TAGCTACGGTGAACCCGTGGATGATAAAAGTGCTACTTTACTCCAATTATTACCAAATTTGCCACAGAA
 TATTGTAACACTATTGAAGGAAGTGCAAAATATATTGAACTTCGGAGCTATGCGGTGGTCTAGAATTT
 GTTATATTTTCCATGAGACTTTTGGCGAACCTTAGAATCTGTTGATCCACTTGGTGGCCTAACACTAT
 TGACATTTGACTGCCATTAGAAATGCTACTGGTCTCGTCTGCTTTATTTGTGCTGAGGTTTCATTT
 GAGTTACTGGTGAAGCGCAAAATCAAACGCTTAGAAGAGCCAGCCTCCGCTGTGTGGAAGTGGTTCATG
 AGGAAATGCAAAGGATCATTACGACTGTAGCAATTACAGTACACAGGAATTGTTACGATTTCTAAACT
 TCATGATGCCATAGTTGAAGTGGTACTTGTCTTCTCGTAAAAGGTTGCCTGTTACAAATGAAATGGTC
 CATAACTAGTGGCAATTGAACTGGCTTATCAACACAAAACATCCAGACTTTGCTGATGCTTGTGGGC
 TAATGAACAATAATAGAGGAACAAAGGAGAAACAGGCTAGCCAGAGAATTACCTTCAGCTGTATCAGC
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 GAGGCTGATGGCAAGTTAATTCAGGACAGCAGAAGAGAAAATAAAAATGTTGCATCTGGAGGTGGTGGG
 TTGGAGATGGTGTCAAGAACCAACCACAGGCAACTGGAGAGGAATGCTGAAAACCTCAAAGTGGTGAAGA
 GTTATTAGCAGAAGAAAATCAAAACCCATTCCAATTATGCCAGCCAGTCCAAAAAAGGTCATGCCGTG
 AACCTGCTAGATGTGCCAGTTCCTGTTGCACGAAAATCTGCTCGGGAACAGCGAGATTGTGAGGTTA
 TTGAACGACTCATTAAATCATATTTTCTCATTGTGAGAAAGAATATTCAAGACAGTGTGCCAAAGGCAGT
 AATGCATTTTTTGGTAAATCATGTGAAAGACACTTTCAGAGTGAAGTGTAGGCCAGCTGTATAAATCA
 TCCTTATTGGATGATCTTCTGACAGAATCTGAGGACATGGCACAGCGCAGGAAAGAAGCAGCTGATATGC
 TAAAGGCATTACAAGGAGCCAGTCAAATTATTGCTGAAATCCGGGAGACTCATCTTTGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238754 representing NM_001278466
 Red=Cloning site Green=Tags(s)

MFHKKINGKQEQKMTLLHGKTQDTFLKGWKQKNGVNFPTPKIRSQLDINNKKSVTDSIRDEYAFLLQKKY
 PSLANRNGTKYLARTLNRLMHHIRDCLPELKRINVLAAQYQSLNLSYGEVDDKATLLQLITKFATE
 YCNTIEGTAKYIETSELGGARICYIFHETFGRTLESVDPLGGLNTIDILTAIRNATGPRPALFVPEVSV
 ELLVKRQIKRLEEPSLRCVELVHEEMQRIIQHCSNYSTQELLRFPKLHDAIVEVVTCLLRKRLPVTNEMV
 HNLVAIELAYINTKHPDFADACGLMNNNIEEQRRNRLARELPSAVSRDKSSKVPSALAPASQEPSPAASA
 EADGKLIQDSRRETKNVASGGGGVGDGVQEPPTGNWRGMLKTSKAEELLAEKSKPIPIMPASPQKGHAV
 NLLDVPVPVARKLSAREQRDCEVIERLIKSYFLIVRKNIQDSVPKAVMHFLVNHVKDTLQSELVGQLYKS
 SLLDDLLTESEDMAQRRKEAADMLKALQASQIIAEIRETHLW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

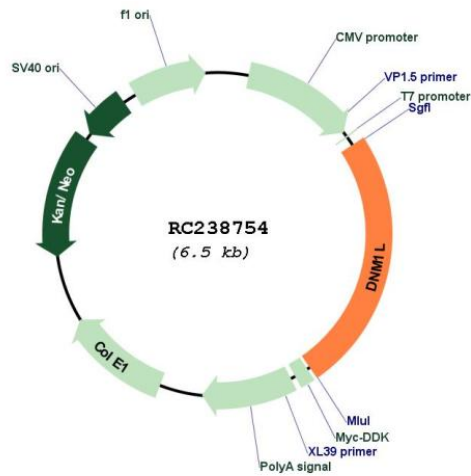
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001278466
ORF Size:	1599 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:	<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_001278466.1 , NP_001265395.1
RefSeq Size:	4211 bp
RefSeq ORF:	1602 bp
Locus ID:	10059
UniProt ID:	O00429
Cytogenetics:	12p11.21
Protein Pathways:	Endocytosis, Fc gamma R-mediated phagocytosis
MW:	60.5 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]