

## Product datasheet for **SC337368**

### DRP1 (DNM1L) (NM\_001278464) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DRP1 (DNM1L) (NM_001278464) Human Untagged Clone
Tag:	Tag Free
Symbol:	DNM1L
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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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001278464, the custom clone sequence may differ by one or more nucleotides

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ATGGAGGCGCTAATTCCTGTCATAAACAAGCTCCAGGACGCTTCAACACGGTGGGCGCCGACATCATCC
AGCTGCCTCAAATCGTCGTAGTGGGAACGCAGAGCAGCGGAAAGAGCTCAGTGCTAGAAAGCCTGGTGGG
GAGGGACCTGCTCCAGAGGACTGGAATTGTCACCCGGAGACCTCTCATTCTGCAACTGGTCCATGTT
TCACAAGAAGATAAACGGAAAACAACAGGAGAAGAAAATGACCCTGCTACATGGAAAAAACAAGACACC
TTTCTAAAGGGGTGGAAGCAGAAGAATGGGGTAAATTTCTCACACCAAAAATAAGCTTTACACGGATTT
TGATGAAATTCGACAAGAAATGAAAATGAAACAGAAAGAATTTCAAGAAATAAAGGGAGTAAGCCCT
GAACCAATTCATCTTAAGATTTTTTACCCAACGTTGTCAATTTGACACTTGTTGGATTTGCCAGGAATGA
CCAAGGTGCTGTAGGTGATCAACCTAAGGATATTGAGCTTCAAATCAGAGAGCTCATTCTCGTTTCAT
CAGTAATCCTAATTCATTATCCTCGTGTCACTGCTGTAATACAGATATGGCAACATCAGAGGCACTT
AAAATTTCAAGAGAGGTAGATCCAGATGGTCGCAGAACCTAGCTGTAATCACTAACTTGATCTCATGG
ATGCGGGTACTGATGCCATGGATGATTGATGGGAAGGGTTATTCCAGTCAAACCTTGGAAATAATTGGAGT
AGTTAACAGGAGCCAGCTAGATATTAACAACAAGAAGAGTGTAACCTGATTCAATCCGTGATGAGTATGCT
TTTCTTCAAAGAAATATCCATCTCTGGCCAATAGAAATGGAACAAAGTATCTTGCTAGGACTCTAAACA
GGTTACTGATGCATCACATCAGAGATTGTTTACCAGAGTTGAAAACAAGAATAAATGTTCTAGCTGCTCA
GTATCAGTCTCTTCTAAATAGCTACGGTGAACCCGTGGATGATAAAAGTCTACTTTACTCCAACCTATT
ACCAAATTTGCCACAGAATATTGTAACACTATTGAAGGAACTGCAAAAATATATTGAACTTCGGAGCTAT
GCGGTGGTGTAGAAATTTGTTATATTTCCATGAGACTTTTGGGCGAACCTAGAATCTGTTGATCCACT
TGGTGGCCTTAACACTATTGACATTTTGACTGCCATTAGAAATGCTACTGGTCTCGTCTGCTTTATTT
GTGCCTGAGGTTTCAATTTGAGTTACTGGTGAAGCGGCAAAATCAAACGCTCTAGAAGAGCCACCTCCGCT
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GTTACGATTTCTAACTTCATGATGCCATAGTTGAAAGTGGTACTTGTCTTCTCGTAAAAGGTTGCTT
GTTACAAATGAAATGGTCCATACTTAGTGCAATTGAACTGGCTTATATCAACACAAAACATCCAGACT
TTGCTGATGCTTGGGCTAATGAACAATAATATAGAGGAACAAAGGAGAAACAGGCTAGCCAGAGAATT
ACCTTCAGCTGTATCACGAGACAAGTCTTCAAAGTTCCAAGTCTTGGCACCTGCCTCCAGGAGCCC
TCCCCCGTCTTCTGCTGAGGCTGATGGCAAGTTAATTCAGGACAGCAGAAGAGAACTAAAAATGTTG
CATCTGGAGTGGTGGGTTGGAGATGGTGTCAAGAACCAACCAGGCAACTGGAGAGGAATGCTGAA
AACTTCAAAGCTGAAGAGTTATTAGCAGAAGAAAATCAAACCCATTCCAATTATGCCAGCCAGTCCA
CAAAAAGTTCATGCCGTGAACCTGCTAGATGTGCCAGTCTCTGTTGCACGAAAACATCTGCTCGGGAAC
AGCGAGATTGTGAGGTTATTGAACGACTCATTAATCATATTTTCTCATTGTCAGAAAGAATATTCAAGA
CAGTGTGCCAAAGGCAGTAATGCATTTTTTGGTTAATCATGTGAAAGACTCTTTCAGAGTGAGCTAGTA
GGCCAGCTGTATAATCATCCTTATTGGATGATCTTCTGACAGAACTTGAGGACATGGCAGCAGCGCAGGA
AAGAAGCAGCTGATATGCTAAAGGCATTACAAGGAGCCAGTCAAATATTGCTGAAATCCGGGAGACTCA
TCTTTGGTGA
    
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**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001278464

**OTI Disclaimer:** 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).

**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\\_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

**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]  
Transcript Variant: This variant (5) contains an alternate in-frame exon in the 5' coding region, compared to variant 1. The encoded isoform (5) is longer, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.