

## Product datasheet for **SC336648**

### DRP1 (DNM1L) (NM\_001278466) Human Untagged Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                                 |
| Product Name:             | DRP1 (DNM1L) (NM_001278466) 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:**

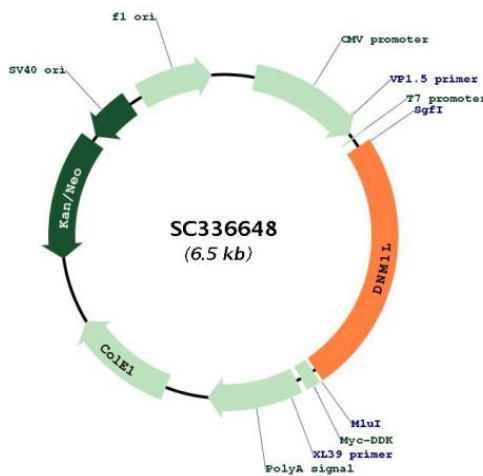
>SC336648 representing NM\_001278466.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTTTCACAAGAAGATAAACGGAAAAACAACAGGAGAAGAAAATGACCCTGCTACATGGAAAACTCAA
GACACCTTTCTAAAGGGGTGGAAGCAGAAGAATGGGGTAAATTTCTTACACAAAAATAAGGAGCCAG
CTAGATATTAACAACAAGAAGAGTGAACTGATTCGAATCCGTGATGAGTATGCTTTTCTCAAAGAAA
TATCCATCTCTGGCCAATAGAAATGGAACAAAGTATCTTGCTAGGACTCTAAACAGGTTACTGATGCAT
CACATCAGAGATTGTTTACCAGAGTTGAAAAACAAGAATAAATGTTCTAGCTGCTCAGTATCAGTCTCTT
CTAAATAGCTACGGTGAACCCGTGGATGATAAAAGTGCTACTTTACTCCAATTATTACCAAATTTGCC
ACAGAATATTGTAACACTATTGAAGGAAGTCAAAATATATTGAACTTCGGAGCTATGCGGTGGTGTCT
AGAATTTGTTATATTTCCATGAGACTTTGGGCGAACCTAGAATCTGTTGATCCACTTGGTGGCCTT
AACACTATTGACATTTTACTGCCATTAGAAATGCTACTGGTCTCGTCTGCTTTATTTGTGCCTGAG
GTTTCATTTGAGTTACTGGTGAAGCGGCAATCAAACGTCTAGAAGAGCCAGCCTCCGCTGTGTGGAA
CTGTTTCATGAGGAAATGCAAAGGATCATTGAGCACTGTAGCAATTACAGTACACAGGAATTGTTACGA
TTTCTAAACTTCATGATGCCATAGTTGAAGTGGTACTTGTCTTCTCGTAAAAGTTGCCTGTTACA
AATGAAATGGTCCATAACTTAGTGGCAATTGAACTGGCTTATATCAACACAAAACATCCAGACTTTGCT
GATGCTTGTGGGCTAATGAACAATAATATAGAGGAACAAAGGAGAAACAGGCTAGCCAGAGAATTACCT
TCAGCTGTATCACGAGACAAGTCTTCTAAAGTTCCAAGTCTTTGGCACCTGCCTCCAGGAGCCCTCC
CCCCTGCTTCTGCTGAGGCTGATGGCAAGTTAATTCAGGACAGCAGAAGAGAACTAAAAATGTTGCA
TCTGGAGGTGGTGGGTTGGAGATGGTGTCAAGAACCAACCACAGGCAACTGGAGAGGAATGCTGAAA
ACTTCAAAGCTGAAGAGTTATTAGCAGAAGAAAAATCAAACCCATTCCAATTATGCCAGCCAGTCCA
CAAAAAGGTCATGCCGTGAACCTGCTAGATGTGCCAGTTCTCTGTTGCACGAAAACTATCTGCTCGGGAA
CAGCGAGATTGTGAGTTATTGAACGACTCATTAAATCATATTTTCTCATTGTCAGAAAAGATATTCAA
GACAGTGTGCCAAGGCAGTAATGCATTTTTTGGTTAATCATGTGAAAGACACTTTCAGAGTGAGCTA
GTAGGCCAGCTGTATAAATCATCCTTATTGGATGATCTTCTGACAGAATCTGAGGACATGGCACAGCGC
AGGAAAGAAGCAGCTGATATGCTAAAGGCATTACAAGGAGCCAGTCAAATTATTGCTGAAATCCGGGAG
ACTCATCTTTGGTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
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**Restriction Sites:**

Sgfl-Mlul

**Plasmid Map:**



|                               |  |
|-------------------------------|--|
| <b>ACCN:</b>                  | NM_001278466   |
| <b>Insert Size:</b>           | 1602 bp  |
| <b>OTI Disclaimer:</b>        | 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).   |
| <b>Components:</b>            | 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).   |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>  |
| <b>RefSeq:</b>                | <a href="#">NM_001278466.1</a>   |
| <b>RefSeq Size:</b>           | 4211 bp  |
| <b>RefSeq ORF:</b>            | 1602 bp  |
| <b>Locus ID:</b>              | 10059  |
| <b>UniProt ID:</b>            | <a href="#">O00429</a>   |
| <b>Cytogenetics:</b>          | 12p11.21   |
| <b>Protein Pathways:</b>      | Endocytosis, Fc gamma R-mediated phagocytosis  |
| <b>MW:</b>                    | 60 kDa   |
| <b>Gene Summary:</b>          | <p>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]</p> <p>Transcript Variant: This variant (7) contains an alternate exon in its 5' UTR, lacks four consecutive exons in the internal coding region, and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (7) has a shorter and distinct N-terminus, 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.</p> |