

Product datasheet for **SC321766**

DRP1 (DNM1L) (NM_012063) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DRP1 (DNM1L) (NM_012063) Human Untagged Clone
Tag:	Tag Free
Symbol:	DRP1
Synonyms:	DLP1; DRP1; DVLP; DYMPLE; EMPF; EMPF1; HDYNIV; OPA5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_012063.1
 CCGGCGGGCACTGGGCCCCGTGTTTTTCAGAGTCATGGAGGCGCTAATTCCTGTCATAAA
 CAAGCTCCAGGACGTCTTCAACACGGTGGGCGCCGACATCATCCAGCTGCCTCAAATCGT
 CGTAGTGGGAACGCAGAGCAGCGGAAAGAGCTCAGTGCTAGAAAGCCTGGTGGGAGGGA
 CCTGCTTCCCAGAGGTACTGGAATTGTCACCCGGAGACCTCTCATTCTGCAACTGGTCCA
 TGTTTTACAAGAAGATAAACGGAAAAACAACAGGAGAAGAAAATGGGGTGAAGCAGAAGA
 ATGGGGTAAATTTCTTCCACACAAAAAATAGCTTTACACGGATTTTGATGAAATTCGACA
 AGAAATTGAAAAAGAAACAGAAAGAAATTCAGGAAATAATAAGGGAGTAAGCCCTGAACC
 AATTCATCTTAAGATTTTTTACCCAACGTTGTCAATTTGACACTTGTGGATTTGCCAGG
 AATGACCAAGGTGCCTGTAGGTGATCAACCTAAGGATATTGAGCTTCAAATCAGAGAGCT
 CATTCTTCGGTTCATCAGTAATCCTAATTCATTATCCTCGTGTCACTGCTGCTAATAC
 AGATATGGCAACATCAGAGGCACCTAAAATTTCAAGAGAGGTAGATCCAGATGGTCGCAG
 AACCTAGCTGTAATCACTAACTTGATCTCATGGATGCGGGTACTGATGCCATGGATGT
 ATTGATGGGAAGGGTTATCCAGTCAAACCTGGAATAATTGGAGTAGTTAACAGGAGCCA
 GCTAGATATTAACAACAAGAAGAGTGAACCTGATTCAATCCGTGATGAGTATGCTTTTCT
 TCAAAAGAAATATCCATCTCTGGCCAATAGAAATGGAACAAAGTATCTTGCTAGGACTCT
 AAACAGGTTACTGATGCATCACATCAGAGATTGTTTACCAGAGTTGAAAAACAAGAATAAA
 TGTTCTAGCTGCTCAGTATCAGTCTCTTCTAAATAGCTACGGTGAACCCGTGGATGATAA
 AAGTGCTACTTTACTCCAATTATTACCAAATTTGCCACAGAATATTGTAACACTATTGA
 AGGAACTGCAAAATATATTGAACTTCCGAGCTATGCGGTGGTGTAGAAATTTGTTATAT
 TTTCCATGAGACTTTTGGCGAACCTTAGAATCTGTTGATCCACTTGGTGGCCTTAACAC
 TATTGACATTTTACTGCCATTAGAAATGCTACTGGTCCCTCGTCTGCTTTATTTGTGCC
 TGAGGTTTCATTTGAGTTACTGGTGAAGCGGCAAAATCAAACGTCTAGAAGAGCCAGCCT
 CCGCTGTGTGAACTGGTTCATGAGGAAATGCAAAGGATCATTCAGCACTGTAGCAATTA
 CAGTACACAGGAATTGTTACGATTTCTAACTTCATGATGCCATAGTTGAAGTGGTGAC
 TTGCTCTTCTCGTAAAAGGTTGCCTGTTACAAATGAAATGGTCCATAACTAGTGCCAAT
 TGAAGTGGCTTATATCAACACAAAAACATCCAGACTTTGCTGATGCTTGTGGGCTAATGAA
 CAATAATATAGAGGAACAAAGGAGAAACAGGCTAGCCAGAGAATTACCTTCAGCTGTATC
 ACGAGACAAGTTAATTCAGGACAGCAGAAGAGAACTAAAAATGTTGCATCTGGAGGTGG
 TGGGGTTGGAGATGGTGTCAAGAACCAACCACAGGCAACTGGAGAGGAATGCTGAAAAC
 TTCAAAGCTGAAGAGTTATTAGCAGAAGAAAAATCAAACCCATTCCAATTATGCCAGC
 CAGTCCACAAAAAGGTATGCCGTGAACCTGCTAGATGTGCCAGTTCCTGTTGCACGAAA
 ACTATCTGCTCGGGAACAGCGAGATTGTGAGGTTATTGAACGACTCATTAAATCATATTT
 TCTCATTGTGAGAAAGAATATTCAAGACAGTGTGCCAAAGGCAGTAATGCATTTTTTGGT
 TAATCATGTGAAAGACACTCTTCAGAGTGAGCTAGTAGCCAGCTGTATAAATCATCCTT
 ATGGATGATCTTCTGACAGAATCTGAGGACATGGCACAGCGCAGGAAAGAAGCAGCTGA
 TATGCTAAAGGCATTACAAGGAGCCAGTCAAATATTGCTGAAATCCGGGAGACTCATCT
 TTGGTGAAGAGAACTATGTAATACTGAGACTTTGTTGACTCAAACCTTGCTAGTTACTGC
 CTACCTGAGTAGAATCTTATTTATGAACCTCCTGTGATTGCAATGGTATGAATCTGCTCA
 TGTGGAGACTGGCTATAAACTGAAAAGTATTCCAATTCAGAACACATCACACATTT
 AATCCAAATAATAAATGGCTGTTTCTAAAGTTCCAGTAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire
ACCN: NM_012063
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).

OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_012063.1 , NP_036193.1
RefSeq Size:	2415 bp
RefSeq ORF:	2133 bp
Locus ID:	10059
UniProt ID:	O00429
Cytogenetics:	12p11.21
Domains:	dynamamin_2, dynamamin, GED
Protein Pathways:	Endocytosis, Fc gamma R-mediated phagocytosis
Gene Summary:	<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 (2) lacks an in-frame exon in the 3' coding region, compared to variant 1. The encoded isoform (2) is shorter, 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>