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Product datasheet for SC115574

DRP1 (DNM1L) (NM_012062) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DRP1 (DNM1L) (NM_012062) Human Untagged Clone
Tag:	Tag Free
Symbol:	DRP1
Synonyms:	DLP1; DRP1; DVLP; DYMPLE; EMPF; EMPF1; HDYNIV; OPA5
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

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Fully Sequenced ORF:

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>OriGene ORF sequence for NM_012062 edited
GGCGAACTGTGGGCCCCGGCCCCATTCATTGCCGTGGCCGGCGGGCACTGGGGCCCCGTG
TTTTCAGAGTCATGGAGGCGCTAATTCCTGTCATAAACAAGCTCCAGGACGTCTTCAACA
CGGTGGGCGCCGACATCATCCAGCTGCCTCAAATCGTCGTAGTGGGAACGCAGAGCAGCG
GAAAGAGCTCAGTGCTAGAAAGCCTGGTGGGGAGGGACCTGCTTCCCAGAGGTACTGGAA
TTGTCACCCGGAGACCTCTCATTCTGCAACTGGTCCATGTTTCACAAGAAGATAAACGGA
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CCAACGTTGTCAATTTGACACTTGTGGATTTGCCAGGAATGACCAAGGTGCCTGTAGGTG
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_012062 unedited
NNNAACGTTCAAATTTTGTAATACGAACTCACTATAGGGCGGCCGCGAATTCGCACGAGG
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TTTCAGAGTCATGGAGGCGCTAATTCCTGTCATAAACAAGCTCCAGGACGTCTTCAACAC
GGTGGGCGCCGACATCATCCAGCTGCCTCAAATCGTCGTAGTGGGAACGCAGAGCAGCGG
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TGATCTCATGGATGCGGGTACTGATGCCATGGATGTATTGATGGGGAAGGGTTATTCCAG
TCAAACTTGGAATAATTGGNAGTAGTTAACAGGNAGCCAGCTAGATATTAACAACAGNAA
AAGAGTGTACTGANTNCAATCCCGGGATGAGTATGGCTTTT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_012062 unedited
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ACACTTTTCAGTTTATAGCCAGTCTCCACATGAGCAGATTCATACCATTGCAATACACAG
GAGTTCATAAATAAGATTCTACTCAGGTAGGCAGTAACTAGCAAGTTTTGAGTCAACAAA
GTCTCAGTATTACATAGTTCTCTTCACCAAAGATGAGTCTCCCGGATTTCAGCAATAATT
TGACTGGCTCCTTGTAATGCCTTTAGCATATCAGCTGCTTCTTTCCTGCGCTGTGCCATG
TCCTCAGATTCTGTCAGAAGATCATCCAATAAGGATGATTTATACAGCTGGCCTACTAGC
TCACTCTGAAGAGTGTCTTTCACATGATTAACCAAAAAATGCATTACTGCCTTTGGCACA
CTGTCTTGAATATTCTTTCTGACAATGAGAAAATATGATTTAATGAGTCGTTCAATAACC
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AGGTTCACGGCATGACCTTTTTGTGGACTGGCTGGCATAATTGGAATGGGTTTTGATTTT
TCTTCTGCTAATAACTCTTCAGCTTTTGGAGTTTTCAGCATTCCTCCTCAGNTGCCTGTG
GGNTGGTTCTTGGACACCATCTCCAACCCCACCACCTCCAGATGCACATTTTTAGCTTCT
CTCCTGCTGTCCTGAATTACCTTGCATCAGCCTCAGCCAACCACCGGGGGGGGGCTCCCG
CAAGCAGGTGGCCCACCTTGGGACTTAAAAGACCGGCCCGGACCAGCTGAGGCATTTTGG
CCCGCCGGCCCCCTGGTCTTTATCATGGCCACACCCCAGCTTCCCGCCGGGCGTCTGGCC
CGCCAGCCCCCCTTCCCT

Restriction Sites: NotI-NotI

ACCN: NM_012062

Insert Size: 2500 bp

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:	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_012062.2, NP_036192.1
RefSeq Size:	3293 bp
RefSeq ORF:	2211 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 (1) encodes 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.