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Product datasheet for SC337346

DRP1 (DNM1L) (NM_001278465) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DRP1 (DNM1L) (NM_001278465) Human Untagged Clone
Tag:	Tag Free
Symbol:	DRP1
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_001278465, the custom clone sequence may differ by one or more nucleotides

ATGGAGGCGCTAATTCCTGTCATAAACAAGCTCCAGGACGTCTTCAACACGGTGGGCGCCGACATCATCC
AGCTGCCTCAAATCGTCGTAGTGGGAACGCAGAGCAGCGGAAAGAGCTCAGTGCTAGAAAGCCTGGTGGG
GAGGGACCTGCTTCCCAGAGGTACTGGAATTGTCACCCGGAGACCTCTCATTCTGCAACTGGTCCATGTT
TCACAAGAAGATAAACGGAAAACAACAGGAGAAGAAAATGACCCTGCTACATGGAAAAACTCAAGACACC
TTTCTAAAGGGGTGGAAGCAGAAGAATGGGGTAAATTTCTTCACACCAAAAATAAGCTTTACACGGATTT
TGATGAAATTCGACAAGAAATTGAAAATGAAACAGAAAGAATTTCAGGAAATAATAAGGGAGTAAGCCCT
GAACCAATTCATCTTAAGATTTTTTCACCCAACGTTGTCAATTTGACACTTGTGGATTTGCCAGGAATGA
CCAAGGTGCCTGTAGGTGATCAACCTAAGGATATTGAGCTTCAAATCAGAGAGCTCATTCTTCGGTTCAT
CAGTAATCCTAATTCCATTATCCTCGCTGTCACTGCTGCTAATACAGATATGGCAACATCAGAGGCACTT
AAAATTTCAAGAGAGGTAGATCCAGATGGTCGCAGAACCCTAGCTGTAATCACTAAACTTGATCTCATGG
ATGCGGGTACTGATGCCATGGATGTATTGATGGGAAGGGTTATTCCAGTCAAACTTGGAATAATTGGAGT
AGTTAACAGGAGCCAGCTAGATATTAACAACAAGAAGAGTGTAACTGATTCAATCCGTGATGAGTATGCT
TTTCTTCAAAAGAAATATCCATCTCTGGCCAATAGAAATGGAACAAAGTATCTTGCTAGGACTCTAAACA
GGTTACTGATGCATCACATCAGAGATTGTTTACCAGAGTTGAAAACAAGAATAAATGTTCTAGCTGCTCA
GTATCAGTCTCTTCTAAATAGCTACGGTGAACCCGTGGATGATAAAAGTGCTACTTTACTCCAACTTATT
ACCAAATTTGCCACAGAATATTGTAACACTATTGAAGGAACTGCAAAATATATTGAAACTTCGGAGCTAT
GCGGTGGTGCTAGAATTTGTTATATTTTCCATGAGACTTTTGGGCGAACCTTAGAATCTGTTGATCCACT
TGGTGGCCTTAACACTATTGACATTTTGACTGCCATTAGAAATGCTACTGGTCCTCGTCCTGCTTTATTT
GTGCCTGAGGTTTCATTTGAGTTACTGGTGAAGCGGCAAATCAAACGTCTAGAAGAGCCCAGCCTCCGCT
GTGTGGAACTGGTTCATGAGGAAATGCAAAGGATCATTCAGCACTGTAGCAATTACAGTACACAGGAATT
GTTACGATTTCCTAAACTTCATGATGCCATAGTTGAAGTGGTGACTTGTCTTCTTCGTAAAAGGTTGCCT
GTTACAAATGAAATGGTCCATAACTTAGTGGCAATTGAACTGGCTTATATCAACACAAAACATCCAGACT
TTGCTGATGCTTGTGGGCTAATGAACAATAATATAGAGGAACAAAGGAGAAACAGGCTAGCCAGAGAATT
ACCTTCAGCTGTATCACGAGACAAGTCTTCTAAAGTTCCAAGTGCTTTGGCACCTGCCTCCCAGGAGCCC
TCCCCCGCTGCTTCTGCTGAGGCTGATGGCAAGGTTGCATCTGGAGGTGGTGGGGTTGGAGATGGTGTTC
AAGAACCAACCACAGGCAACTGGAGAGGAATGCTGAAAACTTCAAAAGCTGAAGAGTTATTAGCAGAAGA
AAAATCAAAACCCATTCCAATTATGCCAGCCAGTCCACAAAAAGGTCATGCCGTGAACCTGCTAGATGTG
CCAGTTCCTGTTGCACGAAAACTATCTGCTCGGGAACAGCGAGATTGTGAGGTTATTGAACGACTCATTA
AATCATATTTTCTCATTGTCAGAAAGAATATTCAAGACAGTGTGCCAAAGGCAGTAATGCATTTTTTGGT
TAATCATGTGAAAGACACTCTTCAGAGTGAGCTAGTAGGCCAGCTGTATAAATCATCCTTATTGGATGAT
CTTCTGACAGAATCTGAGGACATGGCACAGCGCAGGAAAGAAGCAGCTGATATGCTAAAGGCATTACAAG
GAGCCAGTCAAATTATTGCTGAAATCCGGGAGACTCATCTTTGGTGA

Restriction Sites: SgfI-MluI

ACCN: NM_001278465

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).

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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_001278465.1, NP_001265394.1
RefSeq Size:	4621 bp
RefSeq ORF:	2217 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 (6) contains an alternate in-frame exon in the 5' coding region and lacks an in-frame exon in the 3' coding region, compared to variant 1. The encoded isoform (6) 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.

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