

Product datasheet for **MC222826**

Drp2 (NM_010078) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Drp2 (NM_010078) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Drp2
Synonyms:	AW495265; DRP-2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC222826 representing NM_010078
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGCAACCTTTGGTCATGCAGGGATGCCCTTACACCCCTCCACGATGTCATGAGTGGCATGCTGCTGACC
GGTTTCATCACAGCAGCAGCCTCCGAAACACCTGTCCCCAGCCTCAGGTTAGAGCTGCGGTACCATCCC
TGCTCCACCTTGGGATGGTGCCGGGGATCCCTGCCTAAGTCCAAAGCTCTTGAACGGGACTGTTGGAGCC
ACCGGGCCCTGGAGCCATCAGCCATGAATCTGTGTTGGAATGAAATAAAAAAGAAGTCTCACAACTCC
GCGCTCGCTAGAGGCCCTTCTCAGACCTCAGTGGAAAACCTCAGCTCCCGCTCCGAGAGATTATTGACTG
GCTCAGCCAAAAGGATGAGGAGTTGTGAGCTCAGCTCCCCTTGAAGGGGATGTGGCCCTGGTACAACAG
GAGAAGGAGACACATGCAGCCTTATGGAAGAAGTCAAGTCTAAGGGCCCTACATCTCCTCTGTGCTTG
AATCCGCCAGGCTTTTCTGTCCAGCATCCATTTGAAGAATTAGAGGAGTCTCAATCTGAGAGTAAAGA
TACCTCCCCAGACAGCGGATTCAAAACCTTAGTCGCTTTGTATGGAAGCAGGCAACAGTGGCCAGTGAG
CTGTGGGAGAAGCTGACAGCCCGCTGTGTAGATCAGCATCGCCACATTGAGCATACTCTGGAACATCTAT
TGGAGATCCAAGGGGAATGGAGGAATTGAGCAGTACTTTGACCCAAGCAGAGGGAGTCCGAGCCACGTG
GGAGCCATAGGAGATCTCTTTATTGATTCCCTCCCAGAGCATATCCAAGCCATCAAGCTATTCAAAGAA
GAATTCCTCCTGTGAAAGATGGGGTGAAGTTAGTGAATGATCTGGCCCACCAGCTTGCCATCTCTGATG
TGCACTTGTCAATGGAGAATCCAGGGCTCTGGAACAGATCAACATCCGGTGGAAACAGCTCCAGGTGTC
AGTGGCTGAGAGGCTTAAGCAACTCCAGGATGCCACCCGGACTTTGGCCCTGGTCCAGCACTTCCTC
TCCACTTCTGTCCAAGTCCCTGGGAAAGAGCAATTTCTCCAATAAAGTCCCTACTACATCAACCACC
AGGCTCAGACCACATGCTGGGACCCTAAGATGACTGAGTTATACCAAACCTAGCCGATCTGAACAA
CATTAAAGTCTCAGCTTACCGCACTGCCATGAAGCTCCGACAGTCCAGAAGGCCCTGCGCTGGATCTG
GTAACCTTAACACTACAGCTCTGGAGATCTTCAATGAGCATGACTTGCAGGCCAGTGAACATGTGATGGATG
TGGTGGAGGTCATCACTGCTTACTGCTTGTATGAACGACTGGAGGAGAAAGAGGCATCCTGGTCAA
TGTGCCACTGTGTAGACATGAGCCTCAACTGGCTCCTCAATGTTTTTGTAGTGGTCCGAGTGGAAAAG
ATGCGAGCATTGCTTTAAGACTGGCATCGCATGCCTGTGTGGCACGGAAGTAAAAGAAAAACTTCAGT
ATCTCTCAGCCAAGTAGCCAATTCAGGACCCAGTGTGATCAACGCCATCTCGGTGCCCTGCTTCATGA
AGCCATTCAAGTCCCCGTGAGTGGGTGAAGTGGCAGCATTGGGGGCAGCAATGTGGAGCCCAGTGTG
CGTAGCTGCTTTGCTTTAGCACTGGCAAGCCAGTCATTGAAGCTTCCAATTCCTGGAGTGGGTCAACT
TGGAGCCCCAGTCTATGGTGTGGCTGGCTGTTCTGCATCGGGTACCATCGCTGAGCAAGTGAAGCATCA
AACCAAGTGTCTATCTGTAGACAGTGGCCCATCAAAGGGTTCAGGTACCGGAGTCTGAAACAGTTTAAAC
GTGGATATCTGCCAGACCTGCTTCTTGACCGGCAGGGCCAGCAAAGGCAACAAGCTCCACTATCCCATCA
TGGAGTATTACACACCGACCACATCTAGTGAACATGAGGGACTTTGCCACAACCTTAAAGAATAAATT
CCGCTCCAAGCAGTATTCAGCAAAACCCCTCAGCGAGGTTATCTGCCCGTGCAGTCAAGTCTGGAGAGC
GACTGCAGTGAGACACCTGCTTCTTCCCGATGTTGCCACACGCTGACACACACTCTCGAATTGAACATT
TTGCCAGCAGGCTTGTGAGATGGAAAGTCAAAATGTTCTTTTTTAAAGACAGCCTGTCCCGGATGA
TAGCATCGATGAGGACCAGTACCTGTTGGCGCACTCCAGCCCCATCACAGACCCGAGAGCCGGCCTTTGGA
CAGCAGGCTCCATGCAGCATGGCCACAGAAAGCAAGGGGGAGCTAGAGAAGATCTTGGCCATTTAGAAG
ATGAGAACCGGATTCTCCAGGGAGAGCTGAGGCGCCTGAAATGGCAGCACGAGGAGGCGAGCCGAGGACC
TACCCTGGTTGAGGGCTCTGCTGAAGCCACCCAGACCACCGCAATGAAGAACTTCTGGCTGAAGCCAGG
ATCCTGCGGCAGCACAAAAGCCGCTGGAGACGCGCATGCAGATCCTTGAAGACCACAACAAGCAGCTCG
AGTCTCAGCTGCAACGCCTGAGGGAGTCTCCTGCAGCCACCCAGTGAATCAGATGGCAATGGCTCTGC
AGGCTCCTCCCTAGCTTCTCCTCCAGCCAGTCAAGAGCAGTCAATCCCCGGGAGAAGGGACAGACTACT
CCAGACACTGAGGTTGCAGATGATGTGGGGTCAAAGAGTCAGGATGTCAGCCTATGCTTAGAAGACATCA
TGGAGAAGCTCCGCCATGCCTTCCCAGTGTGCGAAGCTCTGATGTGACTGCAAACACTCTGCTGGCCTC
TTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-Mlul
ACCN:	NM_010078
Insert Size:	2874 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).
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_010078.3 , NP_034208.2
RefSeq Size:	6983 bp
RefSeq ORF:	2874 bp
Locus ID:	13497
UniProt ID:	Q05AA6
Cytogenetics:	X E3
Gene Summary:	Required for normal myelination and for normal organization of the cytoplasm and the formation of Cajal bands in myelinating Schwann cells (PubMed:22764250). Required for normal PRX location at appositions between the abaxonal surface of the myelin sheath and the Schwann cell plasma membrane (PubMed:22764250). Possibly involved in membrane-cytoskeleton interactions of the central nervous system.[UniProtKB/Swiss-Prot Function]