

Product datasheet for **SC318413**

DRP2 (NM_001939) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	DRP2
Synonyms:	DRP-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



Fully Sequenced ORF:

>SC318413 representing NM_001939.

Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAAATTTTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCAACCTATGGTCATGCAGGGATGCCCTTACACCCTCCACGATGTCATGACTGGCAGGCAGCTGAC
CAGTTCCATCATAGCAGCAGCCTCCGAAGCACCTGCCCCACCCTCAGGTTAGAGCTGCTGTACCAGC
CCTGCACCTCCTCAAGATGGTGTGGGGTTCCCTGCCTAAGCCTAAAGCTGTTGAACGGGTCTGTTGGT
GCCTCTGGACCCCTGGAACACCAGCCATGAATCTGTGTTGGAATGAAATAAAAAAGAAGTCTCACAAC
CTCCGCGCTCGCCTAGAGGCCCTTCTCAGACCACAGTGGAAAGCTTCAGCTCCCTCTTCAAGAGATTATT
GACTGGCTCAGCCAAAAGGATGAGGAGTTGTGAGTCACTGCCCCACAGGGGATGTGGCCCTGGTG
CAACAGGAGAAGGAGACACATCGCGCTTTATGGAAGAAGTCAAGTCTCGGGGCCCTACATCTATTCT
GTGCTGGAGTCAGCTCAGGCCCTTCTGTCCAGCACCCATTGAGGAGTTAGAGGAGCCTCATTCTGAG
AGCAAAGATACCTCCCGAAACAGCGGATCCAGAATCTCAGCCGCTTTGTATGGAAGCAGGCAGCGGTG
GCCAGTGAAGTGTGGGAGAAGTTGACAGCCGCTGTGTGGACCAGCACCGTCACATTGAGCGGACTCTG
GAGCAGCTCTTGGAGATTCAAGGGGCAATGGAGAACTAAGCACTACTCTGAGCCAAGCTGAGGGAGTC
CGAGCCACTTGGGAGCCATTGGGGATCTCTTATTGATTCACTCCAGAGCACATCCAGGCTATTAAG
CTGTTCAAAGAAGAATTCTCCCCATGAAAGATGGAGTAAAGTTGGTGAATGATCTGGCCCACTAATT
GCCATTTCTGATGTGCACTTGTCAATGGAGAATTCCAGGCCCTGGAACAGATCAACGTCCGATGGAAA
CAACTACAGGCGTCAGTTAGTGAGAGGCTTAAGCAGCTCCAGGATGCCACCGGGACTTTGGGCCTGGG
TCACAGCACTTTCTCTCTCTCTGTCCAGGTTCCCTGGGAAAGAGCAATTTACCCAATAAAGTTCCC
TACTACATCAACCACAGGCTCAGACCACATGCTGGGACCATCCAAGATGACAGAGTTATACCAAACC
CTAGCTGATCTGAACAACATTAAGTTCTCAGCTTATCGCACTGCCATGAACTCCGAGAGTCCAGAAA
GCCCTGCGCTTGGACCTGGTAACTTTAACCACAGCCCTGGAAATCTTCAATGAGCATGATCTGCAGGCC
AGTGAGCACGTGATGGATGTGGTAGAGGTCACTGCCTGACTGCCTTATATGAACGTTTGGAGGAG
GAAAGAGGCATCCTGGTCAACGTGCCACTCTGTGTGGACATGAGCCTCAATTGGCTCCTCAATGTTTT
GATAGTGGTCGACGGGAAAGATGCGGGCATTGTCTTTAAGACTGGCATTGCATGCTTGTGTGGCAGC
GAAGTGAAGGAAAACTTCAGTACCTCTTACGCCAAGTGCCCAACTCAGGCAGCCAGTGTGACCAAGCGC
CACCTTGGTGTCTGCTTCATGAGGCCATTGAGGTGCCCGTCAGCTGGGTGAAGTGGCAGCCTTTGGG
GGCAGCAATGTGGAGCCAGTGTCCGTAGTTGCTTCCGTTTTAGCACCGGGAAGCCAGTCATTGAAGCA
TCCAGTTCTGGAGTGGGTCAACCTGGAGCCCAAGTCCATGGTGTGGCTGGCTGTTCTGCATCGGGTC
ACCATTTGCTGAGCAAGTGAAGCATCAGACCAAGTGCTCTATCTGTAGGCAGTGCCCATCAAGGGGTTT
AGGTACCGGAGTCTGAAGCAATTCAACGTTGACATCTGCCAGACCTGCTTCTTACAGGCAGGGCCAGC
AAAGGCAATAAGCTGCACTACCCATCATGGAGATTACACACCGACCATCCAGTGAGAACATGAGG
GACTTTGCCACAACCTTAAAGAACAATTCGCTCCAAGCATTATTTAGCAAAACCCCTCAGCGAGGT
TATCTGCCTGTGCAATCAGTGTGGAGGCTGACTACAGTGAGACGCGGCTTCTTCCCGATGTGGCCA
CAGCCGACACACACTCCGAATTGAGCATTGTCAGCAGGCTTGTGAGATGGAAGTCAAAATTGC
TCCTTCTTTAATGACAGCTTGTCCCAGATGACAGCATAGACGAGGACAGTACCTGCTGCGGCACTCC
AGCCCCATCAGACCGGGAGCCAGCCTTTGGACAGCAGGCTCCATGCAGTGTGGCCACAGAAAGCAAA
GGGGAGCTACAGAAGATCCTGGCCCACTTGAAGATGAGAACCAGGATTCTCAGGGAGAGCTGAGGCGC
CTGAAGTGGCAGCATGAGGAGGCAGCTGAGGCACCCAGTCTGGCTGACGGCTCCACTGAGGCAGCAACA
GACCACCGCAATGAGGAGCTTCTGGCCGAGGCCGTATCCTTCGGCAACATAAGAGCCGCTGGAGACG
CGCATGCAGATCCTCGAAGATCACAACAAGCAGCTAGAGTCCCAGCTGCAGCGTCTGAGGGAGCTTCTC
CTGCAGCCACCCACCGAATCAGATGGCAGTGGCTCTGCAGGCTCGTCCCTAGCTTCTCTCCACAGCAG
TCAGAAGGCAGTCACCCCGGGAGAAGGGACAGACTACTCCAGATACCGAGGCTGCAGATGATGTGGG
TCAAAGAGCCAGGATGTACGCTGTGCTTGGAGGACATCATGGAGAACTCCGTCATGCCTTCCCGAGT
GTGCGAAGTTCTGATGTGACTGCCAACCCCTGCTGGCCTCTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:

Sgfl-MluI

ACCN:

NM_001939

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).
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001939.2</u>
RefSeq Size:	7118 bp
RefSeq ORF:	2874 bp
Locus ID:	1821
UniProt ID:	<u>Q13474</u>
Cytogenetics:	Xq22.1
Domains:	ZnF_ZZ, WW, spectrin
MW:	108 kDa

Gene Summary:

Members of the dystrophin family of proteins perform a critical role in the maintenance of membrane-associated complexes at points of intercellular contact in vertebrate cells. The protein encoded by this gene is predicted to resemble certain short C-terminal isoforms of dystrophin and dystrophin-related protein 1 (DRP1 or utrophin). DRP2 is expressed principally in the brain and spinal cord. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2010]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genome sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.