

Product datasheet for **MC220799**

Diap3 (BC028920) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Diap3 (BC028920) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Diap3
Synonyms:	Dia2, mDia2, p134MDia2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >BC028920
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGAGTGACAAGAGGAGTCTTTCCTTGTGGCAAAGCCATGGATCCCAGGCAGCCCGCTATGATGGCAG
 ACGTGGTGAAGCTTCTGTCTGCAGTGTGATTGTCGGCGAGGAAAGCATCCTTGAAGAAGTGTAGAAAGC
 CTTGACTTCAGCTGGAGAAGAAAGAAAGATTGACAGATTTTTTCCATTGTGGAAGGCCTCCGGCATAAC
 TCAGTGAACCTGCAAGTTGCTTGTATGCAGCTCATAAATGCTCTCGTTACATCTCCTGATGATTTGGACT
 TCAGGCTTCACCTCAGAAATGAATTTATGCGTTGTGGATTGAAAGAGATATTGCCAAACTTAAAGGGCAT
 TAAGAATGATGGCCTGGATATACAACCTTAAAGTCTTTGATGAGCACAAGAAGAAGATTTGAGTGAGTTT
 TTCCATCGCCTTGAAGACATTAGAGCTGAACCTGATGAAGCATCTGATGTTTACAGCATGTTATGGGACA
 CAGTTAAGGAACTCGAGCAGAGGGACATTTTCTTCTATTCTTCAGCATCTCCTGCTCATTGCAATGA
 TCGTTTTATAAGAGAGCAGTATTTCAAATTAATTGATGAGTGTGTGTACAGATTGTGTACATAGAGAT
 GGAACGGACCCTGACTTCACATACAGAAAAAGACTAGATTTGGACTTAAGTCAGTTTGTAGATGTTTGCA
 TAGATCAGGCCAAACTAGATGAGTGGGAAGAGAAAGCATCCGAACATTGCAAGAAATTTGAAAAAGAGTG
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 CCACCTCCTCTGGGATTCCTGGTGGGCAAGCTCTATTCCATTAACCTGCCATTTGGTTGAAACCAA
 AGAAAGAATTTAAGCCTGAAATCAGCATGAGAAGATTGAATGGTTAAAGATCGGACCAAATGAAATGTC
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 AGAGAATGAAGGAACTTAAATTTCTAGATCCTAAAATGCTCAGAACCTTCAATCTTCTGAGCTCCTT
 CCGGGTGCATATGAGAAAATCAGGACGATGATTTGGAAGTGGATGAAACACAGTTGTCAGAGTCCATG
 ATTCAGAACTTAATAAGCACCTTCTGATGAGGAGCAGTTGAAGTCATTGTCCCAGTTTGAAGTGACT
 ATAACAGTTTGTGTGAGCCTGAGCAGTTCGCTGTTGTGATGAGCAATGTGAAGAGACTCCGGCCACGGCT
 CAGTGCTATTCTTTAAGCTTCAATTTGAAGAGCAGGTGAACAACATCAAACCTGACATCATGGCTGTC
 AGTACTGCCTGCGAGGAGATCAAGAAGAGCAAAGGCTTTAGCAAGTTGCTGGAACCTGTGTTGCTAATGG
 GAAACTACATGAATGCTGGCTCCCGAAATGCTCAAACCTTCGGATTTGACCTTAGCTCTCTGTAAACT
 GAAGGATACAAAATCTGCAGATCAGAAAACCACTCCTCCATTTCTGGTAGATGTATGTGAAGAAAAG
 CATGCTGACATCCTTCACTTTGTGGACGATTTGGCACATTTAGACAAAGCTAGCAGAGTCTCTGTAGAAA
 TGCTGGAAAAGAAGCTGAAGCAGATGGGAAGGCAGCTTCAACAGCTTGAGAAGAAATTTGAAACCTTTCC
 CCCTCCTGAGGACTTGCATGACAAGTTTGTGATAAAGATGTCCAGCTTCGTTATCAGTGCGAACGAGCAG
 TATGAAAACCTCTCCACACTACTGGGCAGCATGACACAATTGTACCAGAGTATAATGGGCTACTATGCTG
 TCGACATGAAGAAGGTTCCGTGGAAGAGTTTTTAATGATCTGAACAACCTCAGAACTTCATTTATGCT
 AGCATTAAAGGAAAACATCAAAAAACGAGAAGCAGCAGAAAAGGAGAAAACGTGCCAGGATAGCGAAAGAG
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 ATGAGACAGGAGTGATGGATAGTCTGCTGGAGGCTTGCAGTCAGGGGCTGCCTTCCGCGACAGAAGAAA
 AAGGACACCAAAGCTGAAAGATATTCGGCAGAGTCTCAGCCGATGTCTCAGAGGCTGTTCTCAAAGTT
 TGTAACCATGAAAATCAGAAAATGCAGTTGACAGAAGGGTACGTCCACACCACAGTATCAATTGCAACT
 CCACCAGGACTCCAGTCGCCAAGGAGCTTAATTAATCTAGACACTCATGCGTCTACAGGGAGGATCAA
 GGCAGTTGAGAAGGAAGCCTGTAATGCAGAAAGCAACAGAAAAAGGAAATGGAACCTTCTGGCTCTGTT
 GCTAAAAGCGAATCAGTTCCTGAAGTTGAAGCCCTGCTGGCAAGATTACGAGCTTTATAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGAT AAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN:	BC028920
Insert Size:	2790 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:	BC028920 , AAH28920
RefSeq Size:	3770 bp
RefSeq ORF:	2789 bp
Locus ID:	56419
Cytogenetics:	14 E1
Gene Summary:	Actin nucleation and elongation factor required for the assembly of F-actin structures, such as actin cables and stress fibers (PubMed:10678165, PubMed:23558171). Required for cytokinesis, stress fiber formation and transcriptional activation of the serum response factor (PubMed:10678165, PubMed:23558171). Binds to GTP-bound form of Rho and to profilin: acts in a Rho-dependent manner to recruit profilin to the membrane, where it promotes actin polymerization (PubMed:10678165). DFR proteins couple Rho and Src tyrosine kinase during signaling and the regulation of actin dynamics (PubMed:10678165). Also acts as an actin nucleation and elongation factor in the nucleus by promoting nuclear actin polymerization inside the nucleus to drive serum-dependent SRF-MRTFA activity (PubMed:23558171). [UniProtKB/Swiss-Prot Function]