

## Product datasheet for **MC224083**

### Diaph1 (NM\_007858) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Diaph1 (NM\_007858) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Diaph1  
**Synonyms:** D18Wsu154; D18Wsu154e; Di; Dia1; Diap1; Drf; Drf1; mDi; p140m; p140mDia  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC224083 representing NM\_007858  
**Red**=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGAGCCGTCCGGCGGGGGCCCTGGGGCCCGCCGCGGTACCCGGGACAAGAAGAAGGGTCGGAGCCCGG  
ATGAGCTGCCTGCGACGGGCGGCGACGGCGGCAAAACATAAGAAATTTCTGGAGAGATTTACCAGCATGAG  
GATTAAGAAGGAGAAAAGAAAAGCCCAATCTGCTCATAGAACTCCTCTGCATCGTACGGAGATGACCCC  
ACTGCTCAGTCATTGCAGGACATCTCAGACGAGCAAGTTCTTGTCTCTTTGAGCAGATGCTGGTGGATA  
TGAACCTGAATGAGGAGAAGCAGCAGCCTTTGCGAGAGAAGGACATTGTCATCAAGAGGGAGATGGTGTG  
GCAATATCTGCACACTTCCAAGGCTGGCATGAACCAGAAAAGAGAGCTCTAGGTCTGCCATGATGTACATC  
CAGGAGCTGAGGTCCGGCTTGGCGGATATGCACCTGCTTAGCTGCCTTGAGTCCCTTCGAGTCTCTCTCA  
ACAATAACCCTGTCAGTTGGGTGCAGACATTTGGTGTGAGGGCCTAGCCTCCTTATTGGACATCCTCAA  
ACGACTCCATGATGAGAAAAGAGGAGACTTCTGAAAACACGACAGCCGAAACCAGCATGAGATTATCCGC  
TGTTTGAAGGCTTTCATGAACAACAAGTTTGAATCAAACTATGTTGGAGACGGAAGAAGGAATCCTAC  
TGCTGGTCAGAGCCATGGATCCTGCTGTTCCCAATATGATGATTGATGCAGCAAAGCTGCTGTCTGCCCT  
CTGTATCCTGCCGACCCGGAGGACATGAATGAACGAGTTCTAGAGGCAATGACAGAGAGAGCTGAAATG  
GATGAGGTGCAACGCTTCCAGCCACTTCTGGACGGATTAAAAAGTGGGACCTCTATTGCCCTCAAAGTGG  
GATGCCTACAGCTCATCAATGCTCTCATCACTCCAGCTGAGGAACTGGACTTCCGAGTTCACATCCGAAG  
TGAGCTGATGCGCTGGGGCTGCATCAGGTGTTGCAGGAGCTTCGAGAGATTGAAAATGAAGATATGAAA  
GTACAGCTGTGCGTGTGTTGATGAACAAGGGGATGAAGATTTCTTTGATCTGAAGGGACGGCTGGATGATA  
TCCGCATGGAGATGGATGACTTTGGTGAAGTTTTTCAGATTATTTTAAACACAGTGAAGATTCAAAGGC  
AGAGCCCACTTCTGTCTATCTTGCAGCATCTCCTGTTGGTCCGAAATGATTATGAAGCCAGGCCACAG  
TACTATAAACTGATTGAAGAATGTGTTTCTCAGATAGTTCTACACAAAAATGGAAGTCTGACTTCA  
AGTGCCGACACCTGCAGATTGATATTGAGAGATTGGTTGATCAAATGATTGATAAAAAACAAAGGTGAAAA  
ATCTGAGGCCAAAAGCTACAGAGCTGAAAAAAAGTTGGATTTCAGAATTAACAGCGCGGCACGAGTTACAA  
GTAGAAATGAAAAAGATGGAAAATGACTTTGAGCAGAACTTCAGGATCTTCAAGGAGAAAAGGATGCCT



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TGGATTCTGAAAAGCAGCAGATCACTGCACAGAAACAAGACCTGGAGGCAGAGGTGTCCAAGCTGACAGG  
 AGAGGTTGCCAAGCTGTCAAAGAAGTGAAGATGCCAAGAATGAAATGGCTTCTCTCTGCTGTGGTT  
 GTTGCACCTTCTGTTTCTAGCAGTGTCTGTTCCCTCCCTCTGCCTGGTGACTCTGGCACTG  
 TTATCCACCTCCCCACCCACCTCTCTTCTGGAGGTGGTCCCACCATCCCCCTCTGCTCC  
 AGGTACTGTATCCCTCCACCTCTCTTACCTGGAGGTGCTTGTATACCCCTCCCCCAGTTGCC  
 GGCAGTGTGCCATCCCTCCACCTCTCTTACCTGGAGTGTCTCCATCCCCCACCTCCCCCTTGC  
 CTGGGGTACTGCCATCCCCCACCTCCCCCTTGGCTGGGGTACTGCCATCCCCCACCTCCCCCTT  
 GCCTGGAGGTACAGGTATACCACCACCTCTCTTGGCTGGAGTGTGGCGTTCCCCACCCCT  
 CCCTTGCCTGGAGGACCAGGACTGCCTCTCCCCCTCCCCCTTCTGGAGCACCTGGCATTCTCCAC  
 CTCACCTGGTATGGCGTGCCTCCACCTCCCCCTTGGATTTGGGGTCTGCGGCCCAAGTTCTGCC  
 ATTTGGATTAACCCCAAAAAGTTTATAAGCCAGAGGTGCAGCTCCGGAGGCCAACTGGTCCAAGTT  
 GTGGCTGAGGACCTTCCAGGACTGCTTCTGGACAAAGTGAAGGAGGACCGCTTGGAGAACAATGAAC  
 TTTTTGCCAACTACCCTTGCCTTCTCCGCCAGACCAAGACTCTAAAGCCAAGAAGGATCAAGAAGG  
 TGGAGAAGAAAAGAAATCTGTTCAAAGAAGAAAGTAAAAGAGCTGAAAGTGTGGATTCAAAGACAGCG  
 CAGAATCTCTCAATCTTTTTGGGTTTCATCCGCATGCCCTATCAAGAGATAAAGAAGCTTATCCTGGAGG  
 TGAAATGAGGCTGTCTCAGAGTCTATGATCCAGAACCCTATTAACAGATGCCAGAGCCAGAGCAGCT  
 AAAGATGCTCTGAACTGAAGGAGGAGTACGATGATCTGGCTGAGTCAGAGCAGTTGGTGTGGTGATG  
 GGCACAGTGCCCCGCCTTCGGCCTCGCCTCAACGCCATCTCTTCAAGCTACAGTTCAAGTGAAGTTG  
 AGAACATCAAGCCAGAGATCGTGTCTGTACCGCCGATGCGAAGAGCTGCGTAAGAGTGAGAACTCTC  
 CAGCCTCTGGAGCTCACACTGCTGGTCGGAACCTATATGAATGCGGGCTCCAGGAATGCTGGTCTTTC  
 GGCTTCAATATCAGCTTCTTTGTAAGCTTCGAGACACCAAGTCTGCAGATCAGAAGTACTGTTGC  
 ATTTCTGGCTGAGTTATGTGAGAATGACCACCCGAAGTCTCAAGTTTCTGATGAGCTTGCCATGT  
 AGAGAAAGCCAGCAGAGTCTCTGCTGAGAACCTGCAGAAGAGCTTAGATCAGATGAAGAAGCAGATTGCG  
 GAGCTGGAGCGGATGTTTCAGAATTTCCAGCTGCCACTGACGAGAAGGACAAGTTTGTGAGAAGATGA  
 CCAGCTTTGTGAAGGATGCACAGGAACAGTATAACAACTACGGATGATGCACTCCAACATGGAGACCT  
 CTATAAGGAGCTAGGTGACTACTTCGTCTTTGACCCTAAGAAGTTGTCTGTAGAGGAATCTTTATGGAT  
 CTGCACAACCTTATAGGAATATGTTTTGCAAGCAGTCAAGGAAAACCAGAAGCGCCGGAAACAGAAGAAA  
 AGATGCGGAGAGCAAAATAGCCAAGGAGAAGGCAGAAAAGAGCGACTGGAGAAGCAGCAGAAGCGCGA  
 GCAGCTCATCGACATGAACGCAGAGGGGATGAGACAGGTGTGATGGACAGTCTTCTAGAAGCTCTGCAG  
 TCAGGGGCAGCATTCCGACGGAAGAGAGGGCCCGGCAGGTCAACAGGAAGGCTGGGTGTGCAGTACAT  
 CTCTGCTAGCCTCGGAGCTGACCAAGGATGATGCCATGGCTCCTGCTGTTAAGGTACCAAGAAAAG  
 TGAAAGGATCCCCACAATCTGGAAGAAGCAAGGAGCTGTTGGCCGTGCAAGCTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:**

Sgfl-Mlul

**ACCN:**

NM\_007858

**Insert Size:**

3768 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:**

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\\_007858.3](#), [NP\\_031884.1](#)

**RefSeq Size:** 5633 bp

**RefSeq ORF:** 3768 bp

**Locus ID:** 13367

**UniProt ID:** [O08808](#)

**Cytogenetics:** 18 19.71 cM

**Gene Summary:** This gene encodes a member of the formin family of proteins that play important roles in cytoskeletal rearrangement by nucleation of actin filaments. Mice lacking the encoded protein develop age-dependent myeloproliferative defects resembling human myeloproliferative syndrome and myelodysplastic syndromes. Trafficking of T lymphocytes to secondary lymphoid organs and egression of thymocytes from the thymus are impaired in these animals. Lack of the encoded protein in T lymphocytes and thymocytes also reduces chemotaxis. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Sep 2016]

Transcript Variant: This variant (2) lacks an alternate in-frame exon in the 5' coding region compared to variant 1. It encodes isoform 2 which is shorter, compared to isoform 1.

Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.