

Product datasheet for **MR226708**

Diaph2 (NM_172493) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Diaph2 (NM_172493) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Diaph2
Synonyms:	Dia3; Diap2; Drf2; E430022I22Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR226708 representing NM_172493 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGAGCTCGGGCGCGCGCTCGGGAGCCGAGGCGCGCGGTGGCGGCGAGGAACACGGCGGGG
GCCGGAGCAACAAGCGAGGCGCGGGGAACCGGGCCGCAACGAAGAGGAGACGAGAAACAAACCCAACT
GAACATCAAATAAACTTTGGCAGATGATGTGCGTGACCGAATTACAAGTTTCAGAAAATCTGCCACC
AAGAGAGAAAAGCCTGTTATTCAACATTCTATTGATTATCAAATGCAGTGGTTGAGATTCACCCAGCTC
TGATAGTACATGATGACCGATCTTTGATTTGTCTGAAAAGGAAGTTCTGGACCTCTTTGAGAAAATGAT
GGAAGATATGAACCTTAATGAAGAAAAGAAAGCTCCTTTGCGAAAAGAGGATTTTAGCATCAAGCGTGAG
ATGGTTGTCCAGTATATTTCTGCTACTTCCAAATCTGGTGGCCTGAAAAACAGCAAAACATGATTCACCC
TTTCTTACAAGAATATGTTTCATGAATTACGATCTGGCATCTCAGATGAGAACTTCTCAACTGCCTGGA
ATCTTTGAGAGTGTCTTAAACCAGCCATCCTGTGACGTGGGTCAACAACCTTTGGCTATGAAGGACTTGGA
GTCTTACTGGATGTGCTGGAGAAGCTTCTGGACAAAAACAGCAAGAAAATATCGACAAGAAGAATCAGT
ACAAAGTCATTGAGTGCCTGAAAGCATTATGAATAATAAGTTTGGACTACAAGAATCTAGGAGACGA
GAGAAGCCTTTACTGTTGGCAAGAGCAATTGACCCGAAAACAACAGAATATGATGACTGAAATAGTAAAA
ATCCTTTCTGCTATTTGCAATGTTGGGGAAGAAAACATTCTAGACAACTTTTAGGGGCGCATCACTGCTG
CAGTGAACATAAATAAGAGAACGATTTTACCAATTGTGGAAGGCTTAGAAAATAATGAAGCCTTGCA
TCTCCAGTGGCCTGCATGCAGTTCATAAATGCACTTGTACCTCTCCATATGATCTTGATTTTCAAAAT
CATTTGAGGAATGAATTCCTTCTGTTGGATTAAAAGCAATGCTCCCTACTCTTAAAGAGATAGAGAATG
AAGGGCTTGATATTCAGTTGAGAGTGTGTAAGAGAACAAGAAGATGACCTAAGTGAATATCCCACCG
TCTCAATGACATTCGAGCTGAAATGGATGATTAATGAAGTCTACCATCTGCTGTATAATATGCTGAAG
GACTGCTGCGAACCTTACTTATTATCCATTCTCAACACTTTCTGCTCATCAGAAATGATTACTACA
TCAGGCCACAGTATTATAAATCATTGAGGAGTGTGTTTCACAGATAGTGTACTGACTGCAGTGGCATGGA
CCCAGACTCAAGTACCGCAGCGCATAGACTTTGATTTCACTCATCTCCTAGATGCTTGTGTAATAAG



[View online >](#)

GCAAAAGTTGAAGAAAATGAGCAAAAAGCAATGGAATTTTCAAAGAAGTTCGATGAAGAATTCACAGCTC
 GTCAGGAAGCTCAAGCAGAGCTTCAGAAAAGAGATGAAAAATCAAAGAAGTGGAAAACAGAAATCCAGCA
 GCTTCGAGGACAGGGAGTTCCATCTGCAATTCAGGTCCACCTCCACCACCTCCACTGCCAGGTGCAGGA
 CCATGCCACCACCACCCTCTCTCTCCACCACCTCCACTCCAGGAGTCGTCCTCTCTCTCTCT
 CACCATTACCTGGGATGCCTGGTATTCCACCACCCTCCACCACCTTTGTCTGGAGTACCTCTCCACC
 ACCACCCCTGGGGAGTTTTCTCTCTCTATCAGGACCAATTGAGTACCATATGGAATGAAGCAGAAA
 AAATTATAAGCCTGACATACCTATGAAAAGAATCAACTGGTCCAAGATTGAGCTCAAAAGATTCCG
 AAAACTGTGTTGGCTAAAACCTTAAAGAAGAGAAGTATGAGAATGCAGATCTATTTGCAAAAAGTGGCCTT
 GACATTTCTTCCAGATGAAAGGTCAAAGGAATACAGAGGCTGCAGAAGAAAATAGGAGTGGGCCTCCA
 AAGAAGAAAGTGAAGGAATTGAGAATTTGGATACCAAAACAGCCAGAATCTATCTATCTTCTTGGAT
 CTTACCGCATGCCATACGAGGAAATAAAGAACATTATTTTGGAGGTTAATGAAGAGATGCTCAGTGAGGC
 CCTAATCCAGAATCTTGTAAAATATCTTCTGACCAGAACGCACTCCGAGAAGTACCCAGCTTAAGAGT
 GAATATGATGATCTGTGAGCCTGAGCAGTTTGGTGTGTGATGAGCACGGTAAAATGTTACGTCCTC
 GTCTCAGGAGCATCTTTTCAAACCTCACCTTTGAAGAACATGTCAACAACATCAAACCAAGCATCATAGC
 AGTAACTCTTGCATGTGAAGAAGTGAAGAAAAGTAAAAGCTTTAAGAGACTCTTAGAGTTGATTCTTCTG
 GTTGAAAACACATGAAGTCCAGGCTCCAGGAATGCCAGTCTCTAGGTTTTAAGATTAACCTTCTGTGTA
 AGATCAAAGACACAAAATCAGCAGATCAAAAATCCACCCTTTTGCATTTTCTGTGAAATCTGTGATGA
 GAAATACCGGATATCCTGAAATTTCTGTGAGCTGGAGCATGTGAAAAGCGCAGGCAAAGTTTACGCT
 CAAATACTCAAGAGCAACCTTGTAGCAATGGAACAAAGCATTCTTCTATCTGGAGAAAAACATCAAGAATT
 TCCCACCAGCAGAATCGCACCATGATAAGTTTGTGAAAAGATGATGAGCTTTACCCAGAATGCCAGAGA
 ACAGATGACAACTGTCCACCATGCACAGCAATATGTTGAAGCTCTATGAGAGTCTGGGAGAATACTTC
 ATTTTTGACCCGAACACAGTAAACATGGAAGAATTTTTGGTGTCTCAACACCTTCAGAACCCTATTTT
 TGAAGCACTGAAAGAAAACCAAGAGAAGAAAATGGAAGAGAAGAGCAGGAGAGCAAAGCTTGCAAA
 AGAGAAAAGCGGAACAAGAGAAGCTGGAACGCCAGAAGAAGAAGAAGCAACTATTGACATAAACAAGAG
 GGTGATGAGACGGGAGTATGGATAATCTTCTGGAAGCCCTACAGTCAGGTGCAGATTACAGAGCCGCA
 GAAAGCGAATTCCAAGAAATCCAGATAACAGACGGCCCTCTGGAAGATCTCGCTCTCGCCACAATGG
 AGCCATGTCATCCAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR226708 representing NM_172493
 Red=Cloning site Green=Tags(s)

MEELGAAASGAGGGGGGEEHGGGRSNKRGAGNRAANEEETRNPKLNIQIKTLADDVRDRITSFRKSAT
 KREKPVIIQHSIDYQTAVVEIPPALIVHDDRSLILSEKVLDFEKMMEDMNLNKKAPLRKKDFSIKRE
 MVVQYISATSKSGLKNSKHEFTLSSQEVVHELRSGISDEKLLNCLSLRVSLTSHPVSWVNNFGYELG
 VLLDVLEKLLDKKQENIDKKNQYKVIQCLKAFMNNKFLQRIILGDRSLLLLLARAIDPKQNMTEIVK
 ILSAICIVGEENILDKLLGGITAAAEELNNRERFSPIVEGLENNEALHLQVACMQFINALVTSPYDLDFRI
 HLRNEFLRCGLKAMPLPTLKEIENEGLDIQLRVFEENKEDDLSELSHRLNDIRAEMDDINEVYHLLYNMLK
 DTAAPYLLSILQHFLLRNDYYIRPQYKIIIEECVSQIVLHCSGMDPDFKYRQRIDFDFTHLLDACVNK
 AKVEENEQKAMEFSKFFDEEFTARQEAQELQKRDEKIKELETEIQQLRGQGVPSAIPGPPPPPLPGAG
 PCPPPPPPPPPPPLPGVPPPPPPPLPGMPGIPPPPPPLSGVPPPPPPPGGVFPLLSGPIELPYGMKQK
 KLYKPDIPMKRINWSKIEPKELSENCVWLKKEEKYENADLFAKLALTFPSQMKQRNTEAAEENRSGPP
 KKKVKELRILDTKTAQNL SIFLGSYRMPYEEIKNIILEVNEEMLSEALIQNLVKYLPDQNALRELAQLKS
 EYDDLCEPEQFGVVMSTVKMLRPRLTSILFKLTFEEHVNNIKPSIAVTLACEELKKSSEFKRLELILL
 VGNMNSGSRNAQSLGFKINFLCKIKDKSADQKSTLLHFLAEICDEKYRDILKFPDELEHVESAGKVS
 QILKSNLVAMEQSILHLEKNIKNFPPAESHHDKFVEKMMSFTQNAREQYDKLSTMHSNMLKLYESLGEYF
 IFDPNTVNMEEFFGDLNTRTLFLEALKENHKKRMEEEKSRRAKLAKEKAEQEKLERQKKKQLIDINKE
 GDETGVMNDLLEALQSGAAFRDRRKRIPRNPDRRPLERSRSRHRNGAMSSK

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9101_h08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_172493

ORF Size: 3306 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_172493.2](#), [NP_766081.1](#)

RefSeq Size: 8456 bp

RefSeq ORF: 3309 bp

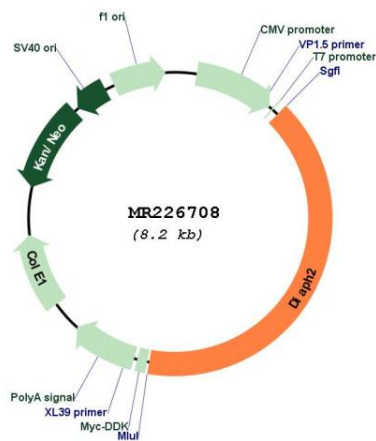
Locus ID: 54004

Cytogenetics: X E3

MW: 125.4 kDa

Gene Summary: May be involved in oogenesis.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR226708