

Product datasheet for **MR229965**

Dach2 (NM_001289734) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dach2 (NM_001289734) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dach2
Synonyms:	9430028N04Rik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR229965 representing NM_001289734
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTGAGGCCATGAAGCTCCAGAAGATGAAGCTTATGGCAATGAATACTCTTCAGGGTAAATGGAAGCC
 AAAATGGGACTGAGTCAGAGCCAGATGACCTTAATTCTACGACAGGTGGAAGTGAATCCTCCTGGGATAA
 AGATAAGATACAATCTCCACTTGCTGCTTCTGGACCTCAACATGGAATTGCTCATGCAGCACTTGCTGGT
 CAGCCAGGCCTTGAGGAGTCTCCGACCTTAATCCACTTCAGCAGAATCACCTGCTAAGCAATCGTCTGG
 ATCTCCCATTTATGATGATGCCTCATCCCTACTTCCAGTCAGCTTACCTCCTGCATCAGTTGCCATGGC
 AATGAATCAGATGAATCATCTCAATACTATTGCCAACATGGCTGCTGCAGCCAGATTACAGTCCACTC
 TCCAGAGCTGGTGCCTCTGTTATAAAGGAACGGATCCCAGAGAGTCTTCTCCTGCTCCCTCTCTGGAAG
 AGAGTCATCGTCTGGGAGCCAGACCTCTCCACCCAAGCAGCAGTGTGTCCAGCTCTCCCTCGCAGAT
 GGATCATCATTAGAGAGAAATGGTTATGATGCCCAACAATCGAGAAGAGCTTATTGTTGACCAAGATAAT
 GGACAAAGCATAAAAAATTCAGAGGGATAATAAAGATATCCAATTGTCCAGCACCATTGTTGGAACA
 CTTTTCTCACTGGATTGAGTTGGCACCATTATCAAAAAATCACTTCACCATCAAAAAGAAGTACCAGC
 TCAAAATCCAGTCATGAAGTCACCCTTGGATAAGATCCAGTTGGCTCCTGGACAGGCATTGCATCCTGGA
 TTCCCTGGACCATTCATTTTGCAGATAGTCTATCTTCTGTGGAGACTCTGTTGACCAACATTACAGTCA
 ACAATATTTCTATAAAACAAAATAAATGGTCTACTGAAAGTGGCTTTGGATAATGCTCGTATCCAGGAGAA
 GCAGATTCAGCAGGAAAAGAAGGAAGTCCGAATAGAGCTCTTCAGAGAAAAGAGAAATTAGAGAAAACCTG
 GAGCGACAACCTGCAGTTGAGCTTCAAAGCAGAAGTACAATGCAAAGCGTCTGAAAAAGAGAAAAAGG
 CTAAGAGAAAACCTCAGGAAGCCTTGAATTTGAATCAAAGCGCCGCGAGCAAGTGGAGCAAGCAAGCTTAA
 ACAAGCTACATCTGGTGACAGTGGACTGAGAATGTTAAAAGATTCTGGAATTCAGATATTGAAATAGAA
 AACAGTGAACGCCGCATGACAGTGTCTATGCAAGGAGGTAATACTATTACTGTTTAGCAATGGCACAGC
 AGTTGTGTTAGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR229965 representing NM_001289734
 Red=Cloning site Green=Tags(s)

MAEAMKQLQKMKLMAMNTLQGNQNGTESEPPDLNSTTGGSESSWDKDKIQSPLAASGPQHGIHAHALAG
 QPGLGGAPTLNPLQQNHLLSNRLDLPFMMMPHLLPVSLPPASVAMAMNQMNHLNTIANMAAAQIHSP
 SRAGASVIKERIPESPPAPSLEESHRRPGSQTSSHPSSSVSSSPSQMDHHSERMVMPNNREELIVDQDN
 GQSIIKFRDNKDIQLSQHLLNTFLHWIELAPLSKSLHHQKEVPAQIPVMKSPDKIQLAPGQALHPG
 FPGPFIFADSLSSVETLLTNIQVNNISINKINGLLKVALDNARIQEKQIQEKKELRIELFREREIRENL
 ERQLAVELQSRSTMQRLLKKEKAKRKLQEALFEFESKRREQVEQALKQATSGDSGLRMLKDSGIPDIEIE
 NSGTPHDSAAMQGGNYCLAMAQQQLCSA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

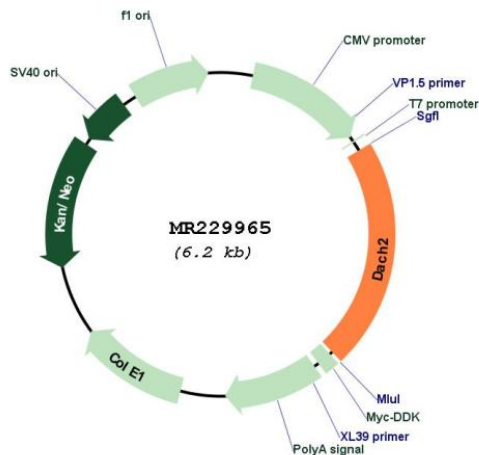
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001289734

ORF Size: 1344 bp

OTI Disclaimer: 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_001289734.1](#), [NP_001276663.1](#)

RefSeq Size: 2963 bp

RefSeq ORF: 1347 bp

Locus ID: 93837

UniProt ID: [Q925Q8](#)

Cytogenetics: X 49.13 cM

MW: 49.8 kDa

Gene Summary: Transcription factor that is involved in regulation of organogenesis. Seems to be a regulator for SIX1 and SIX6. Seems to act as a corepressor of SIX6 in regulating proliferation by directly repressing cyclin-dependent kinase inhibitors, including the p27Kip1 promoter. Is recruited with SIX6 to the p27Kip1 promoter in embryonal retina. SIX6 corepression seems also to involve NCOR1, TBL1, HDAC1 and HDAC3. May be involved together with PAX3, SIX1, and EYA2 in regulation of myogenesis. In the developing somite, expression of DACH2 and PAX3 is regulated by the overlying ectoderm, and DACH2 and PAX3 positively regulate each other's expression. Probably binds to DNA via its DACHbox-N domain.[UniProtKB/Swiss-Prot Function]