

Product datasheet for **MR209355**

Dach2 (NM_001142570) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dach2 (NM_001142570) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dach2
Synonyms:	9430028N04Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR209355 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTGTCTCTGCACCTCCGGTATCTCTGCAACTCCAGCAGCGCCGGCTCCCGGGGGTTTATTCC
 GGGCTGAACCCCTGTATTCTGCTCCAGGAGAGCCCTCGCTAACCCCTAACATGATCAACAGTTTCAT
 GGCCAATAACCATAACCGCAGTGTCTTGGTGGCGGGATTGGTGGTGGCAGCGGTGGCAGCAGCAACACC
 AACACAAACGAGTGCCGGATGGTCGACATGCACGGGGTGAAGGTAGCTTCATTCTGATGGATGGCCAGG
 AACTGATCTGCCTGCCGCAAGTCTTTGACCTTTTCTCAAGCACCTGGTGGGAGGTTGCACACAGTGT
 CACTAAGCTGAAGAGACTCGACATATCTCCGGTGGTGTGCACTGTAGAGCAAGTTCGAATCTCCGTGGG
 CTGGGGGCCATCCAGCCAGGGTGAATCGTTGCAAGCTCATCACCAGGAAAGACTTTGAACTTTGTTCA
 CCGATTGCACCAACGCCAGTTCAAGGCCTGGCAGGCCCTAAGCGTTCTTTGGGAGATTGCAAGATAA
 TGCCCGACTTCTGCCCATGCAGTCCCAGGCCCTTATCACCAGGACTGATCACTCCAACAGGTATCACA
 GCTGCAGCGATGGCTGAGCCATGAAGCTCCAGAAGATGAAGCTTATGGCAATGAATACTCTCAGGGTA
 ATGGAAGCCAAAATGGGACTGAGTCAGAGCCAGATGACCTTAATTCTACGACAGGTGGAAGTGAATCCTC
 CTGGGATAAAGATAAGATACAATCTCCACTTGCTGCTTCTGGACCTAACATGGAATTGCTCATGCAGCA
 CTTGCTGGTCAGCCAGGCCTTGGAGGTGCTCCGACCTTAATCCACTTCAGCAGAATCACCTGCTAAGCA
 ATCGTCTGGATCTCCATTTATGATGATGCCTCATCCCTACTCCAGTCAGCTTACCTCCTGCATCAGT
 TGCCATGGCAATGAATCAGATGAATCATCTCAACTATTGCCAACATGGCTGCTGCAGCCAGATTAC
 AGTCCACTCTCCAGAGCTGGTGCCTCTGTTATAAAGGAACGGATCCCAGAGAGTCCTTCTCCTGCTCCCT
 CTCTGGAAGAGAGTCATCGTCTGGGAGCCAGACTCCTCCACCAAGCAGCAGTGTGTCAGCTCTCC
 CTGCGCAGATGGATCATCATTAGAGAGAATGGTTATGATGCCCAACAATCGAGAAGAGCTTATTGTTGAC
 CAAGATAATGGACAAAGCATAAAAAAATTCAGAGGGATAATAAAGAAAGTACCAGCTCAAATCCAG
 TCATGAAGTCACCCTTGATAAGATCCAGTTGGCTCCTGGACAGGCATTGCATCCTGGATTCCCTGGACC
 ATTCATTTTTGCAGATAGTCTATCTTCTGTGGAGACTCTGTTGACCAACATTCAGGGTCTACTGAAAGTG
 GCTTTGGATAATGCTCGTATCCAGGAGAAGCAGATTGAGCAGGAAAAGAAGGAAGTGCAGTATAGAGCTCT
 TCAGAGAAAGAGAAATTAGAGAAAACCTGGAGCGACAACCTGCAGTTGAGCTTCAAAGCAGAAAGTACAAT
 GCAAAAGCGTCTGAAAAAAGAGAAAAAGGCTAAGAGAAAACCTCAGGAAGCCTTGAATTTGAATCAAAG
 CGCCGCGAGCAAGTGGAGCAAGCACTTAAACAAGCTACATCTGGTGACAGTGGACTGAGAATGTTAAAG
 ATCTGGAATTCAGATATTGAAATAGAAAACAGTGAACGCCGATGACAGTGTCTATGCAAGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR209355 protein sequence
 Red=Cloning site Green=Tags(s)

MAVSAPPVISATSSSAGVPGGLFRAEPLYSSPGEPPRLTPNMINSFMANNHNGSVLGGGIGGSGSSSNT
 NTNECRMVDMHGKVASFLMDGQELICLPQVDFLFLKHLVGGLHTVYTKLRLDISPVVCTVEQVRIILRG
 LGAIQPGVNRCKLITRKDFELFTDCTNASSRPPGRPPKRSGLVLDNARLLPHAVPGLLSPGLITPTGIT
 AAAMAEAMKLLQMKMLMAMNTLQNGSQNGTESEPDDLNSTTGGSESSWDKDIQSPLAASGPHQGHIAHAA
 LAGQPGLGGAPTLNPLQQNHLLSNRLDLPFMMMPHLLPVSLPPASVAMAMNQMNHLNTIANMAAAAQIH
 SPLSRAGASVIKERIPESPPAPSLEESHRRPGSQTSSHPSSSVSSSPSQMDHHSERMVMPNREELIVD
 QDNGQSIKKFQRDNKEEVPAQIPVMKSPLDKIQLAPGQALHPGFPGFIFADSLSSVETLLTNIQGLLKV
 ALDNARIQEKQIQEKELRIELFREREIRENLERQLAVELQSRSTMQRLLKKEKAKRKLQEALEFESK
 RREQVEQALKQATSGDGLRMLKDSGIPDIEIENSGETPHDSAAMQA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001142570

ORF Size: 1821 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_001142570.1](#), [NP_001136042.1](#)

RefSeq Size: 5991 bp

RefSeq ORF: 1821 bp

Locus ID: 93837

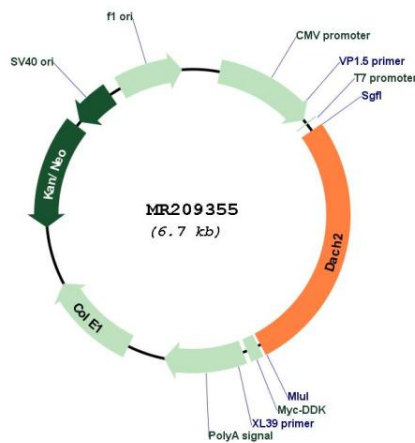
UniProt ID: [Q925Q8](#)

Cytogenetics: X 49.13 cM

MW: 65.3 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]

Product images:



Circular map for MR209355