

Product datasheet for **MR229949**

Dach2 (NM_001289733) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dach2 (NM_001289733) 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:

>MR229949 representing NM_001289733
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACAAGGAAACAAGCTGTTAACAGTTC AAGGCCTGGCAGGCCCCCTAAGCGTTCTTTGGGAGTATTGC
 AAGATAATGCCCCACTTCTGCCCATGCAGTCCCAGGCCTTTATCACCAGGACTGATCACTCCAACAGG
 TATCACAGCTGCAGCGATGGCTGAGGCCATGAAGCTCCAGAAGATGAAGCTTATGGCAATGAATACTCTT
 CAGGGTAAATGGAAGCCAAAATGGGACTGAGTCAGAGCCAGATGACCTTAATTCTACGACAGGTGGAAGTG
 AATCCTCTGGGATAAAGATAAGATAACAATCTCCACTTGTGCTTCTGGACCTCAACATGGAATTGCTCA
 TGCAGCACTTGTGGTCAGCCAGGCCTTGGAGGTGCTCCGACCCTTAATCCACTTCAGCAGAATCACCTG
 CTAAGCAATCGTCTGGATCTCCATTTATGATGATGCCTCATCCCCTACTTCCAGTCAGCTTACCTCCTG
 CATCAGTTGCCATGGCAATGAATCAGATGAATCATCTCAATACTATTGCCAACATGGCTGCTGCAGCCCA
 GATTCACAGTCCACTCTCCAGAGCTGGTGCCTCTGTTATAAAGGAACGGATCCCAGAGAGTCTTCTCCT
 GCTCCCTCTCTGGAAGAGAGTCATCGTCTGGGAGCCAGACCTCCTCCCACCAAGCAGCAGTGTGTCCA
 GCTCTCCCTCGCAGATGGATCATCATTAGAGAGAATGTTTATGATGCCAACAAATCGAGAAGAGCTTAT
 TGTTGACCAAGATAATGGACAAAGCATAAAAAAATTCAGAGGGATAATAAAGAAGAAGTACCAGCTCAA
 ATCCCAGTCATGAAGTCAACCTTGGATAAGATCCAGTTGGCTCCTGGACAGGCATTGCATCCTGGATTCC
 CTGGACCATTCATTTTGCAGATAGTCTATCTTCTGTGGAGACTCTGTTGACCAACATTCAGGGTCTACT
 GAAAGTGGCTTTGGATAATGCTCGTATCCAGGAGAAGCAGATTCAGCAGGAAAAGAAGGAAGTCCGAAAT
 GAGCTCTTCAGAGAAAAGAGAAATAGAGAAAACCTGGAGCGCAACTTGCAGTTGAGCTTCAAAGCAGAA
 GTACAATGCAAAAAGCGTCTGAAAAAAGAGAAAAAGGCTAAGAGAAAACTTCAGGAAGCCTTGGAAATTTGA
 ATCAAAGCGCCGCGAGCAAGTGGAGCAAGCACTTAAACAAGCTACATCTGGTGACAGTGGACTGAGAATG
 TAAAAAGATTCTGGAATTCCAGATATTGAAATAGAAAACAGTGGAACGCCGCATGACAGTCTGCTATGC
 AAGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR229949 representing NM_001289733
 Red=Cloning site Green=Tags(s)

MTRKQAVNSSRPGRPPKRSLGVLQDNARLLPHAVPGLLSPGLITPTGITAAAMAEAMKLGKMKLMAMNTL
 QGNGSQNGTESEPDLLNSTTGGSESSWDKDIQSPLAASGPQHGIHAALAGQPGLGGAPTLNPLQQNHL
 LSNRLDLPFMMMPHLLPVSLPPASVAMAMNQMHLNNTIANMAAAAQIHSPLSRAGASVIKERIPESPSP
 APSLEESHRRPGSQTSSHPSSSVSSPSQMDHHSERMVMPNREELIVDQDNGQSIKKFQRDNKEEVPQAQ
 IPVMSPLDKIQLAPGQALHPGFPGPFIFADSLSSVETLLTNIQGLLKVALDNARIQEKQIQEKKELRI
 ELFREREIRENLERQLAVELQSRSTMQRLLKKEKKAKRKLQEALFEFESKRREQVEQALKQATSGDSGLRM
 LKDSGIPDIEIENSNGTHPHDSAAMQA

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

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:	NM_001289733.1 , NP_001276662.1
RefSeq Size:	5708 bp
RefSeq ORF:	1338 bp
Locus ID:	93837
UniProt ID:	Q925Q8
Cytogenetics:	X 49.13 cM
MW:	48.9 kDa
Gene Summary:	<p>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]</p>