

Product datasheet for **MC228052**

Dach2 (NM_001289732) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dach2 (NM_001289732) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Dach2
Synonyms:	9430028N04Rik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC228052 representing NM_001289732
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACAAGGAAACAAGCTGTTAACAGTTC AAGGCCTGGCAGGCCCCCTAAGCGTTCTTTGGGAGTATTGC
 AAGATAATGCCCGACTTCTGCCCATGCAGTCCCAGGCCTTTATCACCAGGACTGATCACTCCAACAGG
 TATCACAGCTGCAGCGATGGCTGAGGCCATGAAGCTCCAGAAGATGAAGCTTATGGCAATGAATACTCTT
 CAGGGTAAATGGAAGCCAAAATGGGACTGAGTCAGAGCCAGATGACCTTAATTCTACGACAGGTGGAAGTG
 AATCCTCTGGGATAAAGATAAGATAACAATCTCCACTTGTGCTTCTGGACCTCAACATGGAATTGCTCA
 TGCAGCACTTGTGGTCAGCCAGGCCTGGAGGTGCTCCGACCCTTAATCCACTTCAGCAGAATCACCTG
 CTAAGCAATCGTCTGGATCTCCATTTATGATGATGCCTCATCCCCTACTCCAGTCAGTTACCTCCTG
 CATCAGTTGCCATGGCAATGAATCAGATGAATCATCTCAATACTATTGCCAACATGGCTGCTGCAGCCCA
 GATTCACAGTCCACTCTCCAGAGCTGGTGCCTCTGTTATAAAGGAACGGATCCCAGAGAGTCCTTCTCCT
 GCTCCCTCTCTGGAAGAGAGTCATCGTCTGGGAGCCAGACCTCCTCCCAAGCAGCAGTGTGTCCA
 GCTCTCCCTCGCAGATGGATCATCATTAGAGAGAATGTTATGATGCCCAACAATCGAGAAGAGCTTAT
 TGGTGACCAAGATAATGGACAAAGCATAAAAAAATTCAGAGGGATAATAAGATATCCAATTGTCCCGAG
 CACCATTTGTTGAACACTTTTCTCACTGGATTGAGTTGGCACCATTATCAAAAAATCACTTCACCATC
 AAAAAGAAGTACCAGCTCAAATCCCAGTCATGAAGTCACCCTTGGATAAGATCCAGTTGGCTCCTGGACA
 GGCATTGCATCCTGGATTCCCTGGACCATTCAATTTTGCAGATAGTCTATCTTCTGTGGAGACTCTGTTG
 ACCAACATTCAGTCAACAATATTTCTATAAACAATAAATGGTCTACTGAAAGTGGCTTTGGATAATG
 CTCGTATCCAGGAGAAGCAGATTCAGCAGGAAAAGAAGGAAGTCCGAATAGAGCTTTCAGAGAAAGAGA
 AATTAGAGAAAACCTGGAGCGACAACCTGCAGTTGAGCTTCAAAGCAGAAGTACAATGCAAAAGCGTCTG
 AAAAAAGAGAAAAAGGCTAAGAGAAAACCTCAGGAAGCCTTGAATTTGAATCAAAGCGCCGCGAGCAAG
 TGGAGCAAGCACTTAAACAAGCTACATCTGGTGACAGTGGACTGAGAATGTTAAAAGATTCTGGAATTCC
 AGATATTGAAATAGAAAACAGTGGAAACGCCGATGACAGTGTGCTATGCAAGGAGGTAATACTATTACTGT
 TTAGCAATGGCACAGCAGTTGTGTT**CAGCCTGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_001289732

Insert Size: 1503 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).

OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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_001289732.1](#), [NP_001276661.1](#)

RefSeq Size: 2894 bp

RefSeq ORF: 1503 bp

Locus ID: 93837

UniProt ID: [Q925Q8](#)

Cytogenetics: X 49.13 cM

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]

Transcript Variant: This variant (3) has multiple differences, compared to variant 1. These differences result in a distinct 5' UTR and cause translation initiation at an alternate start codon, compared to variant 1. The encoded protein (isoform 3) is shorter and has a distinct N- and C-terminus, compared to isoform 1.