

Product datasheet for **MC220564**

Dach1 (NM_001038610) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dach1 (NM_001038610) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Dach1
Synonyms:	Dac; Dach
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC220564 representing NM_001038610
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCAGTGCCGGCGGCTTTGATCCCTCCGACCCAGCTGGTCCCCCTCAACCCCGATCTCTACTTCTG
 CTTCTCCTCGGGCACCACCACCTCCACCTCCTCGGCGACCTCGTCTCCGGCTCCATCCATCGGACCCCC
 GCGCTCGTCTGGGCCAACTCTGTTCCGGCCGGAGCCATTGCCTCTTCTGCTTCTTTCAGCCGGCC
 ACAGTCACCTCTCCTGGTGGCGGCGGGCGGAGCGGAGGCGGCGGTGGCAGCGCGGCAACGGAGGCG
 GCGGGGGAGCAACTGCAACCCAGCCTGGCGGCCGGAGCAGCGGCGGCGGCTTAGCGCTGGCGGCG
 CGGCGCTCCAGCACCCCATCACCGGAGCACCAGCAGCAGCAGTGCAGCAGCAGCAGCAGCAGT
 AGCAGCAGCAGCAGCAGTGCAGCAGCAGCAGCAGTGCAGCAGCAGCAGTGCAGCAGCAGCAGCAGT
 CCGTGTACTCAACCCCGTCCCAGTGGAAAACACCCCCAGAATAATGAGTGCAAAATGGTGGATCTGAG
 AGGGGCCAAAGTGGCTTCTTTACGGTGGAGGGCTGCGAGCTGATCTGCCTGCCAGGCTTTTCGACCTG
 TTCTGAAAGCACTTGGTGGGGGGCTTGACACCCGTCTACACCAAGCTGAAGCGGTTGGAGATCACGCCGG
 TGGTGTGCAATGTGGAACAGGTTTCGCATCCTGAGGGGACTGGGGGCCATCCAGCCCGAGTGAACCGCTG
 CAAACTCATCTCCAGGAAGGACTTCGAGACCCTTACAATGACTGCACCAACGCCAGTTCAGACCTGGA
 AGGCCTCCTAAGAGGACTCAAAGTGCACTTCCCAGAGAAGCTCAGCATCATGCCGCAATCTGTCCCTG
 GCCTCATGTCTCCTGGAATCATTCCACCAACAGGTCTGACTGCAGCTGCTGCAGCTGCTGCAGCTGCTAC
 CAATGCAGCTATTGCTGAAGCAATGAAGGTGAAAAAATAAAATTAGAAGCTATGAGCAACTATCATGCC
 AGTAACAACCAACATGGAGCAGATTCTGAAAACGGGACATGAATCAAGTGTGGACTGGAACCTCCTT
 TTATGATGATGCCCCACCCTCTCATTCCCTGTGAGCCTACCTCCAGCATCTGTCACCATGGCAATGAGTCA
 GATGAACCACCTTAGCACCAATTGCAAAATATGGCGGCGGACACAAAGTTCAGAGTCTCCATCCAGGGTG
 GAGACATCTGTTATTAAGGAGCGTGTTCGACAGTCCCTCGCCTGCTCCATCTCTGAGGAGGGCCGGA
 GGCCCGGAGCCACCCATCCTCACACCGCAGCAGCAGTGTGTCCAGCTCCCCGGCGGACTGAGAGTTC
 TTCCGACAGAATCCCTGTCCATCAGAATGGCCTGTCCATGAACCAGATGCTTATGGGTTTATCCCCAAAT
 GTGCTTCTGGGCCAAAGGAGGGGATTTGGCTGGTATGACATGGGGCATGAGTCAAACGGATCCACA
 TTGAAAAAGATGAGACCCCACTTCCACACCAACCGCAAGAGACAGCATCGACAACTTTCTCTAACTGG
 GCATGGACAACCACTACCTCCCGCTTCCCATCTCCCTTTCTGTTTCTGATGGCCTGCTCCATAGAG
 ACTTCTCACTAACATACAGGGCCTTTGAAAGTTGCCATAGACAATGCCAGAGCTCAAGAAAAGCAGG
 TCCAACCTGGAAAAACAGAGCTGAAGATGGATTTTTTAAGAGAAAGAGAACTAAGAGAAAACACTGGAGAA
 GCAGCTGGCCATGGAACAAAAGAACAGAGCCATAGTTCAAAGAGGCTAAAGAAGGAAAAGAAAGCAAAG
 AGAAAACCTGCAGGAGGCACTAGAATTTGAGACAAAACGCCGTGAGCAAGCGGAGCAGACTGAAACAGG
 CAGCTTACGCGGACAGTCTCCGGTCTTAAATGACTCCCTGACCCCTGAGATAGAAGCTGACCCGAGCGG
 AGGGAGAGCAGATGCTGAAAGGACAATACAAGATGGAAGACTGTATTTGAAAACACTGTGCATGTACT**G**A

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001038610
- Insert Size:** 2100 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).
- 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_001038610.2](#), [NP_001033699.1](#)

RefSeq Size: 5310 bp

RefSeq ORF: 2100 bp

Locus ID: 13134

UniProt ID: [Q9QYB2](#)

Cytogenetics: 14 48.25 cM

Gene Summary: Transcription factor that is involved in regulation of organogenesis. Seems to be a regulator of SIX1, SIX6 and probably SIX5. Corepression of precursor cell proliferation in myoblasts by SIX1 is switched to coactivation through recruitment of EYA3 to the SIX1-DACH1 complex. Transcriptional activation seems also to involve association of CREBBP. Seems to act as a corepressor of SIX6 in regulating proliferation by directly repressing cyclin-dependent kinase inhibitors, including the p27Kip1 promoter. Inhibits TGF-beta signaling through interaction with SMAD4 and NCOR1 (By similarity). Binds to chromatin DNA via its DACHbox-N domain. [UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) lacks an in-frame exon in the central coding region, compared to variant 1. The encoded isoform (2) is shorter, compared to isoform 1.