OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MC221282

Dach1 (NM_007826) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dach1 (NM_007826) 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)

Fully Sequenced ORF:

>MC221282 representing NM_007826
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCAGTGCCGGCGGCTTTGATCCCTCCGACCCAGCTGGTCCCCCCTCAACCCCCGATCTCTACTTCTG
CTTCCTCCTCGGGCACCACCACCTCCACCTCCTCGGCGACCTCGTCTCCGGCTCCATCCATCGGACCCCC
GGCGTCGTCTGGGCCAACTCTGTTCCGGCCGGAGCCCATTGCCTCTTCTGCTTCTTCTTCAGCCGCGGCC
ACAGTCACCTCTCCTGGTGGCGGCGGCGGCGGCAGCGGAGGCGGCGGTGGCAGCGGCGGCAACGGAGGCG
GCGGCGGGAGCAACTGCAACCCCAGCCTGGCGGCCGGGAGCAGCGGCGGCGGCGTTAGCGCTGGCGGCGG
CGGCGCCTCCAGCACCCCCATCACCGCGAGCACCGGCAGCAGCAGCAGTAGCAGCAGCAGCAGCAGCAGT
AGCAGCAGCAGCAGCAGTAGCAGCAGCAGCAGCAGTAGCAGCAGCAGCTGCGGCCCCCTCCCTGGGAAAC
CCGTGTACTCAACCCCGTCCCCAGTGGAAAACACCCCCCAGAATAATGAGTGCAAAATGGTGGATCTGAG
AGGGGCCAAAGTGGCTTCCTTTACGGTGGAGGGCTGCGAGCTGATCTGCCTGCCCCAGGCTTTCGACCTG
TTCCTGAAGCACTTGGTGGGGGGCTTGCACACCGTCTACACCAAGCTGAAGCGGTTGGAGATCACGCCGG
TGGTGTGCAATGTGGAACAGGTTCGCATCCTGAGGGGACTGGGGGCCATCCAGCCCGGAGTGAACCGCTG
CAAACTCATCTCCAGGAAGGACTTCGAGACCCTCTACAATGACTGCACCAACGCCAGTTCCAGACCTGGA
AGGCCTCCTAAGAGGACTCAAAGTGTCACTTCCCCAGAGAACTCTCACATCATGCCGCATTCTGTCCCTG
GCCTCATGTCTCCTGGAATCATTCCACCAACAGGTCTGACTGCAGCTGCTGCAGCTGCTGCAGCTGCTAC
CAATGCAGCTATTGCTGAAGCAATGAAGGTGAAAAAAATAAAATTAGAAGCTATGAGCAACTATCATGCC
AGTAACAACCAACATGGAGCAGATTCTGAAAACGGGGACATGAATTCAAGTGTTGGCAGCAGTGGTGGTT
CTTGGGATAAGGAAACACTGCACTCTCCCCCATCCCAGGGATCCCAGGCTCCTGTTGCACATGCCCGCAT
GCCTGCAGCGTTTAGCCTTCCAGTTAGCCATCCTCTCAACCATCTGCAGCACAGCCACCTTCCGCCAAAT
GGACTGGAACTTCCTTTTATGATGATGCCCCACCCTCTCATTCCTGTCAGCCTACCTCCAGCATCTGTCA
CCATGGCAATGAGTCAGATGAACCACCTTAGCACCATTGCAAATATGGCGGCGGCAGCACAAGTTCAGAG
TCCTCCATCCAGGGTGGAGACATCTGTTATTAAGGAGCGTGTTCCCGACAGTCCCTCGCCTGCTCCATCT
CTGGAGGAGGGCCGGAGGCCCGGCAGCCACCCATCCTCACACCGCAGCAGCAGTGTGTCCAGCTCCCCGG
CGCGGACTGAGAGTTCTTCCGACAGAATCCCTGTCCATCAGAATGGCCTGTCCATGAACCAGATGCTTAT
GGGTTTATCCCCAAATGTGCTTCCTGGGCCAAAGGAGGGGGATTTGGCTGGTCATGACATGGGGCATGAG
TCAAAACGGATCCACATTGAAAAAGATGAGACCCCACTTTCCACACCAACCGCAAGAGACAGCATCGACA
AACTTTCTCTAACTGGGCATGGACAACCACTACCTCCCGGCTTCCCATCTCCCTTTCTGTTTCCTGATGG
CCTGTCCTCCATAGAGACTCTTCTCACTAACATACAGGGCCTCTTGAAAGTTGCCATAGACAATGCCAGA
GCTCAAGAAAAGCAGGTCCAACTGGAAAAAACAGAGCTGAAGATGGATTTTTTAAGAGAAAGAGAACTAA
GAGAAACACTGGAGAAGCAGCTGGCCATGGAACAAAAGAACAGAGCCATAGTTCAAAAGAGGCTAAAGAA
GGAAAAGAAAGCAAAGAGAAAACTGCAGGAGGCACTAGAATTTGAGACAAAACGCCGTGAGCAAGCGGAG
CAGACACTGAAACAGGCAGCTTCAGCGGACAGTCTCCGGGTCTTAAATGACTCCCTGACCCCTGAGATAG
AAGCTGACCGCAGCGGAGGGAGAGCAGATGCTGAAAGGACAATACAAGATGGAAGACTGTATTTGAAAAC
TACTGTCATGTACTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_007826

Insert Size: 2256 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_007826.3, NP_031852.1
RefSeq Size:	5466 bp
RefSeq ORF:	2256 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 (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.