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Product datasheet for MC219930

Dach2 (NM_033605) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dach2 (NM_033605) 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:

>MC219930 representing NM_033605
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTGTCTCTGCACCTCCGGTGATCTCTGCAACTTCCAGCAGCGCCGGCGTCCCGGGGGGTTTATTCC
GGGCTGAACCCCTGTATTCGTCTCCAGGAGAGCCCCCTCGCCTAACCCCTAACATGATCAACAGTTTCAT
GGCCAATAACCATAACGGCAGTGTCTTGGGTGGCGGGATTGGTGGTGGCAGCGGTGGCAGCAGCAACACC
AACACAAACGAGTGCCGGATGGTCGACATGCACGGGGTGAAGGTAGCTTCATTCCTGATGGATGGCCAGG
AACTGATCTGCCTGCCGCAAGTCTTTGACCTTTTCCTCAAGCACCTGGTGGGAGGGTTGCACACAGTGTA
CACTAAGCTGAAGAGACTCGACATATCTCCGGTGGTGTGCACTGTAGAGCAAGTTCGAATCCTCCGTGGG
CTGGGGGCCATCCAGCCAGGGGTGAATCGTTGCAAGCTCATCACCAGGAAAGACTTTGAAACTTTGTTCA
CCGATTGCACCAACGCCAGAAGGAAGAGGCAAATGACAAGGAAACAAGCTGTTAACAGTTCAAGGCCTGG
CAGGCCCCCTAAGCGTTCTTTGGGAGTATTGCAAGATAATGCCCGACTTCTGCCCCATGCAGTCCCAGGC
CTCTTATCACCAGGACTGATCACTCCAACAGGTATCACAGCTGCAGCGATGGCTGAGGCCATGAAGCTCC
AGAAGATGAAGCTTATGGCAATGAATACTCTTCAGGGTAATGGAAGCCAAAATGGGACTGAGTCAGAGCC
AGATGACCTTAATTCTACGACAGGTGGAAGTGAATCCTCCTGGGATAAAGATAAGATACAATCTCCACTT
GCTGCTTCTGGACCTCAACATGGAATTGCTCATGCAGCACTTGCTGGTCAGCCAGGCCTTGGAGGTGCTC
CGACCCTTAATCCACTTCAGCAGAATCACCTGCTAAGCAATCGTCTGGATCTCCCATTTATGATGATGCC
TCATCCCCTACTTCCAGTCAGCTTACCTCCTGCATCAGTTGCCATGGCAATGAATCAGATGAATCATCTC
AATACTATTGCCAACATGGCTGCTGCAGCCCAGATTCACAGTCCACTCTCCAGAGCTGGTGCCTCTGTTA
TAAAGGAACGGATCCCAGAGAGTCCTTCTCCTGCTCCCTCTCTGGAAGAGAGTCATCGTCCTGGGAGCCA
GACCTCCTCCCACCCAAGCAGCAGTGTGTCCAGCTCTCCCTCGCAGATGGATCATCATTCAGAGAGAATG
GTTATGATGCCCAACAATCGAGAAGAGCTTATTGTTGACCAAGATAATGGACAAAGCATAAAAAAATTCC
AGAGGGATAATAAAGAAGAAGTACCAGCTCAAATCCCAGTCATGAAGTCACCCTTGGATAAGATCCAGTT
GGCTCCTGGACAGGCATTGCATCCTGGATTCCCTGGACCATTCATTTTTGCAGATAGTCTATCTTCTGTG
GAGACTCTGTTGACCAACATTCAGGGTCTACTGAAAGTGGCTTTGGATAATGCTCGTATCCAGGAGAAGC
AGATTCAGCAGGAAAAGAAGGAACTGCGAATAGAGCTCTTCAGAGAAAGAGAAATTAGAGAAAACCTGGA
GCGACAACTTGCAGTTGAGCTTCAAAGCAGAAGTACAATGCAAAAGCGTCTGAAAAAAGAGAAAAAGGCT
AAGAGAAAACTTCAGGAAGCCTTGGAATTTGAATCAAAGCGCCGCGAGCAAGTGGAGCAAGCACTTAAAC
AAGCTACATCTGGTGACAGTGGACTGAGAATGTTAAAAGATTCTGGAATTCCAGATATTGAAATAGAAAA
CAGTGGAACGCCGCATGACAGTGCTGCTATGCAAGGAGGTAACTATTACTGTTTAGCAATGGCACAGCAG
TTGTGTTCAGCCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_033605

Insert Size: 1905 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_033605.2, NP_291083.1
RefSeq Size:	3014 bp
RefSeq ORF:	1905 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 (2) lacks an alternate in-frame segment in the 5' coding region and uses a different segment for its 3' coding region and UTR, compared to variant 1. The resulting protein (isoform 2) has a shorter and distinct C-terminus when it is compared to isoform 1.