

## Product datasheet for RC227811

### DACH2 (NM\_001139515) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DACH2 (NM_001139515) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DACH2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC227811 representing NM_001139515 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACAAGAAAACAAGCTGTAAACAGTTCAAGACCCGGCAGGCCCCCTAAGCGTTCTTTGGGAGTGTTC  
AGGAAAATGCCCGCCTTCTGACCCATGCAGTCCAGGCCCTCTTATCGCCAGGACTTACTCCGACAGG  
TATAACAGCTGCAGCGATGGCTGAGGCGATGAACTTCAGAAGATGAAGCTTATGGCTATGAACACTCTT  
CAGGGAATGGAAGCCAAAATGGGACCGAATCAGAGCCTGATGATCTTAATTCTAACACAGGTGGAAGTG  
AATCCTCTGGGATAAAGATAAGATGCAGTCTCCATTTGCTGCACCTGGACCCCAACATGGAATTTGCTCA  
TGACGCCCTAGCTGGCCAGCCAGGCATTGGGGGTGCTCCAACCCTCAATCCACTGCAGCAGAACCACCTG  
CTAACCAATAGACTGGATCTGCCATTTATGATGATGCCTCATCCCTACTTCCAGTCAGCTTACCTCCTG  
CATCAGTTGCCATGGCAATGAATCAGATGAACCATCTCAATACTATTGCCAACATGGCTGCTGCAGCACA  
GATTCACAGTCCACTCTCCAGAGCTGGTACCTCTGTTATAAAGGAGCGGATCCCAGAGAGTCTTCTCCT  
GCTCCTCTCTAGAAGAGAATCATCGTCTGGGAGCCAGACCTTCCCACACCAGCAGCAGTGTGTCCA  
GCTCTCCCTCTCAGATGGATCATCATTTGGAAGAATGGAAGAGGTACCAGTTCAAATCCAATAATGAA  
GTCACCCCTTGACAAGATACAGCTGACTCCTGGCAGGCATTGCCGCTGGATCCCTGGACCATTCAAT  
TTTGCTGATAGTCTGTCCCTCCGTGGAGACTCTGTTGACCAACATTCAAGGCTGTGCTGAAAGTTGCTTTGG  
ATAATGCTCGCATCCAGGAGAAGCAGATTAACAAGAAAAGAAGGAGCTGCGACTGGAGCTCTATAGAGA  
GAGAGAAATTAGAGAAAACCTTGAAAGCAACTTGCAAGTTGAGCTTCAAAGCAGAATACTATGCAAAAAG  
CGCCTGAAGAAGGAGAAAAAACAAGAGAAAATTGCAGGAAGCCTTGAATTTGAATCAAAGCGCCGGG  
AGCAAGTGGAGCAGGCACCTTAAGCAAGCCACCCTAGTGACAGTGGCCTGAGGATGTTAAAAGATACTGG  
AATTCAGATATTGAAATAGAAAACAATGGGACTCCTCATGATAGTGTGCTATGCAAGGAGGTAACAT  
TACTGTTAGAAATGGCACAACAGTTGTATTACGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



**Protein Sequence:** >RC227811 representing NM\_001139515  
Red=Cloning site Green=Tags(s)

MTRKQAVNSSRPGRPPKRSLGVLQENARLLTHAVPGLLSPGLITPTGITAAAMAEAMKLQKMKLMAMNTL  
 QGNGSQNGTESEPDLLNSNTGGSESSWDKDKMQSPFAAPGPQHGIAHAALAGQPGIGGAPTLNPLQQNHL  
 LTNRDLPLFMMMPHLLPVSLPPASVAMAMNQMNLNTIANMAAAQIHSPLSRAGTSVIKERIPESPSP  
 APSLEENHRPGSQTSSTSSSVSSSPSQMDHHLERMEEVPVQIPIPKSPLDKIQLTPGQALPAGFPGPF  
 FADSLSSVETLLTNIQGLLKVALDNARIQEKQIQQEKELRLELYREREIRENLERQLAVELQSRRTMQL  
 RLKKEKTKRKLQEALEFESKRREQVEQALKQATTSDSGLRMLKDTGIPDIEIENNGTPHDSAAMQGGNY  
 YCLEMAQQLYSA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1307\\_f07.zip](https://cdn.origene.com/chromatograms/ja1307_f07.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001139515

**ORF Size:** 1296 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_001139515.1](#), [NP\\_001132987.1](#)

**RefSeq ORF:** 1299 bp

**Locus ID:** 117154

**UniProt ID:** [Q96NX9](#)

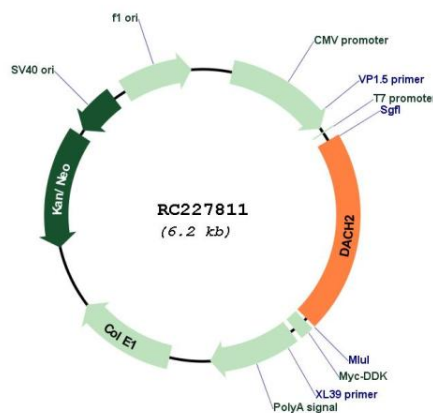
**Cytogenetics:** Xq21.2

**Protein Families:** Transcription Factors

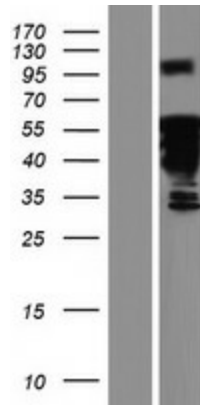
**MW:** 47 kDa

**Gene Summary:** This gene is one of two genes which encode a protein similar to the Drosophila protein dachshund, a transcription factor involved in cell fate determination in the eye, limb and genital disc of the fly. The encoded protein contains two characteristic dachshund domains: an N-terminal domain responsible for DNA binding and a C-terminal domain responsible for protein-protein interactions. This gene is located on the X chromosome and is subject to inactivation by DNA methylation. The encoded protein may be involved in regulation of organogenesis and myogenesis, and may play a role in premature ovarian failure. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2008]

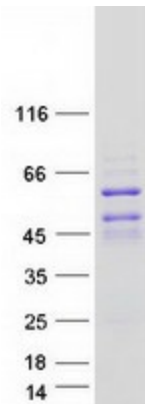
### Product images:



Circular map for RC227811



Western blot validation of overexpression lysate (Cat# [LY427976]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC227811 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified DACH2 protein (Cat# [TP327811]). The protein was produced from HEK293T cells transfected with DACH2 cDNA clone (Cat# RC227811) using MegaTran 2.0 (Cat# [TT210002]).