

## Product datasheet for **RC229258**

### **DACH1 (NM\_004392) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	DACH1 (NM_004392) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DACH1
Synonyms:	DACH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC229258 ORF sequence, **codon optimized**.  
**Due to the complexity of NM\_004392, the ORF clone is codon optimized for mammalian Expression.**  
**The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.**

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**GCGATCGCC**

ATGGCCGTGCCGGCAGCCCTGATCCCCAACACAGTTGGTCCCTCCTCAGCCTCCAATTTCCACAAGCGCCAGTTCTTCTGGTACGACTACTAGCACCAGTTCTGCTACATCTAGCCCTGCACCTTCTATTGGTCCGCCGGCAGTTCTGGCCGACGCTGTTTAGGCCAGAACCAATCGCTTACGCCCGCCGCCAGCCGCGACGGTTACCTCCACAGGGGAGGTGGCGGAGGTGGCGGTGGCGGCAGCGCGGAGGCGCGGAAGTAGCGGAACGGGGTGGAGGAGGAGCGGTGGCGGAGGTCTAACTGTAATCCAAACCTGGCAGCTGCGAGTAACGGCTCTGGGGGCGGTGGGGGCGGCATTTCTGCCGGCGGCGGTGGCTAGCTCTACACCCATTAATGCTAGTACAGGCTCCAGTTCAAGCTCAAGCAGTAGCTCTTAGTTCCTCATCTTCCAGCTCATCAAGCAGCTCTTCATCTTCATGTGGTCCACTCCCAGGTAACACAGTGTACAGCACCCATCTCCCGTCGAGAATACGCCCAAAACAATGAGTGCAAGATGGTGGATCTGAGAGGAGCAAAAGTAGCGTCCTTACAGTCGAAGGGTGTGAGCTGATATGTCTCCCTCAGGCTTTGACCTCTTCTGAAACACCTGGTGGCGGGCTGCACACTGTCTATACCAAGCTTAAACGCTCGAAATCACACCGTGTGTGCAACGTGCAACAGGTGAGGATCTCAGAGGTCTGGGGCAATTCAGCCCGCGTGAATAGGTGTAACCTCATCTCCGCAAGGACTTTGAAACACTCTATAACGACTGTACCAACGCTTCCAGCCGCGCCAGCGCCACCCAAAAGGACCCAGAGCGTCACAAGCCAGAAAACCTCACACATTATGCCCCACTCCGTCCAGGACTGATGAGTCTGGAATCATACCCCGACAGACGAGACACCCTCAGTACCCTACAGCCCGCAGCAGTCTCGACAAGCTGCTACTTACTGGACACGGACAACCCCTCCCACTGGGTCCCAAGCCATTTTTGTTCCCGACGGCCTCAGTAGTATCGAGACGTTGCTGACTAACATTCAGGGCCTGCTGAAAGTTGCTATTGATAATGCCCGGCCAGGAGAAAAGTTTCAAGTTCAGCTCGAGAAAACAGAGTTGAAATGGACTTTCTGCGGGAGCGGAGTTGAGAGAGACGTTGAAAAGCAGCTGGCTATGGAGCAGAGAATCGCGCAATTGTGCAGAAACGGCTGAAAAAGGAAAAAAGCCAAAGCGCAAGCTCCAGGAGGCACTTGAATTTGAAACCAAGAGGAGAGAACAGGCGGAACAGACCTCAAGCAGCGGCAAGTACAGACTCCCTCAGGGTGTGAATGATTCTCTCACGCCTGAGATTGAAGCTGACCCGACGCGCGGTAGAACCAGCCTGAGCGGACATCCAGGATGGACGACTCTATCTGAAAACCTACAGTGTATGATC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC229258 representing NM\_004392  
 Red=Cloning site Green=Tags(s)

MAVPAALIPPTQLVPPQPPISTSASSSGTTTTSTSSATSSPAPSIGPPASSGPTLFRPEPIASAAAAAATV  
 TSTGGGGGGGGSSGGGGSSGNGGGGGGGGNSNPNLAAASNGSGGGGGISAGGGVASSTPINAST  
 GSSSSSSSSSSSSSSSSSSSSSSCGPLPGKPVYSTPSPVENTPQNNECKMVDLRGAKVASFTVEGCEL  
 ICLPQAFDLFLKHLVGGLHTVYTKLRLEITPVVCNVEQVRILRGLGAIQPGVNRCKLISRKDFETLYND  
 CTNASSRPRPPKRTQSVTSPENSHIMPHSVPGLMSPGIIPPTDETPLESTPTARDSLTKLSTLGHGQPLP  
 PGFSPFLFPDGLSSIETLLTNIQGLLKVIAIDNARAQEQVQLEKTELKMDFLRERELRETLEKQLAMEQ  
 KNRAIVQKRLKKEKAKRKLQEALEFETKRREQAEQTLKQAASTDSLRLVNLNDSLTPETIADRSGGRTDAE  
 RTIQDGRLYLKTVMY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_004392

**ORF Size:** 1518 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\\_004392.2](#), [NM\\_004392.3](#), [NM\\_004392.4](#), [NM\\_004392.5](#), [NM\\_004392.6](#), [NP\\_004383.2](#), [NP\\_004383.3](#)

**RefSeq Size:** 4634 bp

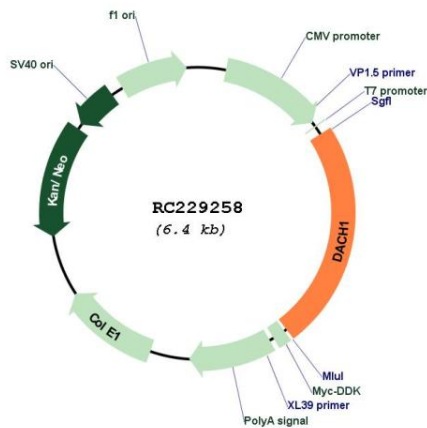
**RefSeq ORF:** 1515 bp

**Locus ID:** 1602

**UniProt ID:** [Q9UI36](#)

**Cytogenetics:** 13q21.33  
**Domains:** Ski\_Sno  
**Protein Families:** Transcription Factors  
**MW:** 52 kDa  
**Gene Summary:** This gene encodes a chromatin-associated protein that associates with other DNA-binding transcription factors to regulate gene expression and cell fate determination during development. The protein contains a Ski domain that is highly conserved from Drosophila to human. Expression of this gene is lost in some forms of metastatic cancer, and is correlated with poor prognosis. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2009]

**Product images:**



Circular map for RC229258