

Product datasheet for **RG227672**

DACH2 (NM_001139514) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DACH2 (NM_001139514) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DACH2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG227672 representing NM_001139514
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTGTCTCCGCATCTCCAGTATCTCTGCAACTCCAGCGGGCCGGCGTCCCGGGGGCTTATTCC
 GGGCCGAACCCCTGTACTCGACTCCCAGAGAGCCCTCGTCTTACTCCTAATATGATCAATAGTTTCGT
 GGTAAATAACCACAGCAACAGTCCGGAGGCGGGCAGGGGCAACACCAACACCAAGTCCCGCATG
 GTCGACATGCACGGGATGAAGTGGCTTCGTTCTGATGGACGGCCAGGAAGTCTGCTGCCCAAG
 TCTTTGATCTTTTCTCAAGCACCTGGTGGGAGGCTTGCACACTGTGTACACCAAGCTGAAGAGACTGGA
 TATATCCCCCGTGGTGTACTGTTGAGCAGGTCCGGATCCTCCGCGGGTGGGGCCATCCAGCCCGGG
 GTAACCCTGCAAACTCATCCAGGAAAGACTTCGAACTTTGTTACCGATTGCACCAATGCCAGTT
 CAAGACCCGGCAGGCCCTAAGCGTCTTTGGGAGTGTGCAGGAAAATGCCCGCTTCTGACCCATGC
 AGTCCCAGGCCTTATCGCCAGGACTTACACTCCGACAGGTATAACAGCTGCAGCGATGGCTGAGGCG
 ATGAAACTTCAGAAGATGAAGCTTATGGCTATGAACACTTTCAGGAAAATGGAAGCCAAAATGGGACCG
 AATCAGAGCCTGATGATCTTAATTCTAACACAGGTGGAAGTGAATCCTCCTGGGATAAAGATAAGATGCA
 GTCTCCATTTGCTGCACCTGGACCCCAACATGGAATTGCTCATGCAGCCCTAGCTGGCCAGCCAGGCATT
 GGGGGTGTCTCAACCCCTCAATCCACTGCAGCAGAACCACTGTAACCAATAGACTGGATCTGCCATTTA
 TGATGATGCCTCATCCCTACTTCCAGTCCAGTACCTCCTGCATCAGTTGCCATGGCAATGAATCAGAT
 GAACCATCTCAATACTATTGCCAACATGGCTGCTGCAGCACAGATTACAGTCCACTCTCCAGAGCTGGT
 ACCTCTGTTATAAAGGAGCGGATCCCAGAGAGTCTTCTCCTGCTCCTTCTCTAGAAGAGAATCATCGTC
 CTGGGAGCCAGACCTCTCCACACCAGCAGTGTGTCCAGCTCTCCCTCTCAGATGGATCATCATTT
 GGAAAGAATGGAAGAGGTACCAGTTCAAATTCCAATAATGAAGTACCCTTGGACAAGATACAGCTGACT
 CCTGGGAGGCATTGCCCGCTGGATTCCCTGGACCATTATTTTTGCTGATAGTCTGTCTCCGTGGAGA
 CTCTGTTGACCAACATTCAGGGTCTGCTGAAAGTTGCTTTGGATAATGCTCGCATCCAGGAGAAGCAGAT
 TCAACAAGAAAAGAAGGAGCTGCGACTGGAGCTCTATAGAGAGAGAGAAAATTAGAGAAAACCTTGAAGA
 CAACTTGCAGTTGAGCTTCAAAGCAGAATACTATGCAAAGCGCCTGAAGAAGGAGAAAAAACCAAGA
 GAAAATGCAGGAAGCCTTGAATTTGAATCAAAGCGCCGGGAGCAAGTGGAGCAGGCACCTAAGCAAGC
 CACCCTAGTGACAGTGGCTGAGGATGTTAAAAGATACTGGAATTCAGATATTGAAATAGAAAACAAT
 GGGACTCCTCATGATAGTCTGCTATGCAAGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG227672 representing NM_001139514
 Red=Cloning site Green=Tags(s)

MAVSASPVISATSSGAGVPGGLFRAEPLYSTPREPRLTPNMINSFVNNHNSNSAGGGGRGNTNTNECRM
 VDMHGMKVASFLMDGQELICLPQVFDLFLKHLVGGLHTVYTKLRKLDISPVVCTVEQVRILRGLGAIQPG
 VNRCKLITRKDFETLFTDCTNASSRPPGRPKRSLGVLQENARLLTHAVPGLLSPGLITPTGITAAAMAEA
 MKLQKMKLMAMNTLQNGSQNGTESEPDDLNSNTGGSESSWDKDKMQSPFAAPGPQHGIHAALAGQPGI
 GGAPTLNPLQQNHLTNRLDLPFMMMPHLLPVSLPPASVAMAMNQMHLNNTIANMAAAAIHSPLSRAG
 TSVIKERIPESPAPSLLEENHRPGSQTSSHTSSSVSSPSQMDHHLERMEEVPVQIPIIMKSPLDKIQLT
 PGQALPAGFPQPIFADSLSSVETLLTNIQGLLKVALDNARIQEKIQEKKELRLELYREREIRENLER
 QLAVELQSRTTMQKRLKKEKTKRKLQEALFEFESKRREQVEQALKQATTSDSGLRMLKDTGIPDIEIENN
 GTPHDSAAMQA

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

ORF Size:	1713 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:	<ol style="list-style-type: none">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_001139514.1 , NP_001132986.1
RefSeq Size:	2425 bp
RefSeq ORF:	1716 bp
Locus ID:	117154
UniProt ID:	Q96NX9
Cytogenetics:	Xq21.2
Protein Families:	Transcription Factors
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]