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Product datasheet for RG229258

DACH1 (NM_004392) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DACH1 (NM_004392) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DACH1
Synonyms:	DACH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

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ORF Nucleotide Sequence:

>RG229258 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)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCGTGCCGGCAGCCCTGATCCCCCCAACACAGTTGGTCCCTCCTCAGCCTCCAATTTCCACAAGCG
CCAGTTCTTCTGGTACGACTACTAGCACCAGTTCTGCTACATCTAGCCCTGCACCTTCTATTGGTCCGCC
GGCGAGTTCTGGCCCGACGCTGTTTAGGCCAGAACCAATCGCTTCAGCCGCCGCCGCAGCCGCGACGGTT
ACCTCCACAGGGGGAGGTGGCGGAGGTGGCGGTGGCGGCAGCGGCGGAGGCGGCGGAAGTAGCGGCAACG
GGGGTGGAGGAGGAGGCGGTGGCGGAGGCTCTAACTGTAATCCAAACCTGGCAGCTGCGAGTAACGGCTC
TGGGGGCGGTGGGGGCGGCATTTCTGCCGGCGGCGGCGTGGCTAGCTCTACACCCATTAATGCTAGTACA
GGCTCCAGTTCAAGCTCAAGCAGTAGCTCTTCTAGTTCCTCATCTTCCAGCTCATCAAGCAGCTCTTCAT
CTTCATGTGGTCCACTCCCAGGTAAACCAGTGTACAGCACCCCATCTCCCGTCGAGAATACGCCCCAAAA
CAATGAGTGCAAGATGGTGGATCTGAGAGGAGCAAAAGTAGCGTCCTTCACAGTCGAAGGGTGTGAGCTG
ATATGTCTCCCTCAGGCCTTTGACCTCTTCCTGAAACACCTGGTTGGCGGGCTGCACACTGTCTATACCA
AGCTTAAACGCCTCGAAATCACACCGGTTGTGTGCAACGTCGAACAGGTGAGGATCCTCAGAGGTCTGGG
GGCAATTCAGCCCGGCGTGAATAGGTGTAAACTCATCTCCCGCAAGGACTTTGAAACACTCTATAACGAC
TGTACCAACGCTTCCAGCCGGCCAGGCCGGCCACCCAAAAGGACCCAGAGCGTCACAAGCCCAGAAAACT
CACACATTATGCCCCACTCCGTCCCAGGACTGATGAGTCCTGGAATCATACCCCCGACAGACGAGACACC
CCTCAGTACCCCTACAGCCCGCGACAGTCTCGACAAGCTGTCACTTACTGGACACGGACAACCCCTCCCA
CCTGGGTTCCCAAGCCCATTTTTGTTCCCCGACGGCCTCAGTAGTATCGAGACGTTGCTGACTAACATTC
AGGGCCTGCTGAAAGTTGCTATTGATAATGCCCGGGCCCAGGAGAAACAAGTTCAGCTCGAGAAAACAGA
GTTGAAAATGGACTTTCTGCGGGAGCGCGAGTTGAGAGAGACGTTGGAAAAGCAGCTGGCTATGGAGCAG
AAGAATCGCGCAATTGTGCAGAAACGGCTGAAAAAGGAAAAAAAGGCCAAGCGCAAGCTCCAGGAGGCAC
TTGAATTTGAAACCAAGAGGAGAGAACAGGCGGAACAGACCCTCAAGCAGGCGGCAAGTACAGACTCCCT
CAGGGTGTTGAATGATTCTCTCACGCCTGAGATTGAAGCTGACCGCAGCGGCGGTAGAACCGACGCTGAG
CGGACCATCCAGGATGGACGACTCTATCTGAAAACTACAGTGATGTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

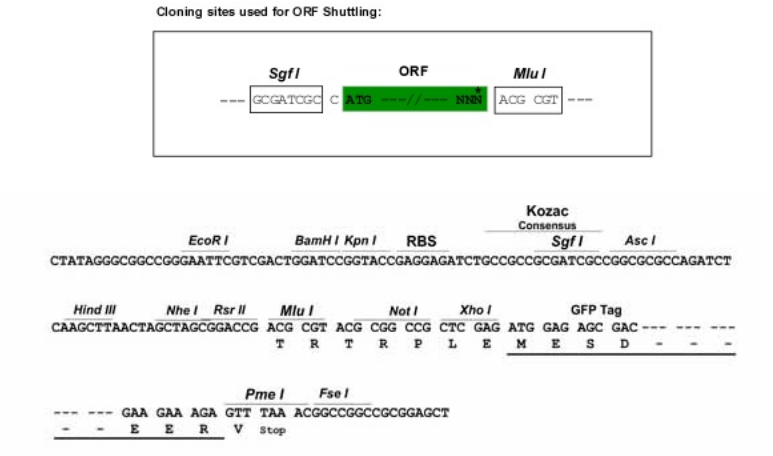
>RG229258 representing NM_004392
Red=Cloning site Green=Tags(s)

MAVPAALIPPTQLVPPQPPISTSASSSGTTTSTSSATSSPAPSIGPPASSGPTLFRPEPIASAAAAAATV
TSTGGGGGGGGGGSGGGGGSSGNGGGGGGGGGGSNCNPNLAAASNGSGGGGGGISAGGGVASSTPINAST
GSSSSSSSSSSSSSSSSSSSSSSSCGPLPGKPVYSTPSPVENTPQNNECKMVDLRGAKVASFTVEGCEL
ICLPQAFDLFLKHLVGGLHTVYTKLKRLEITPVVCNVEQVRILRGLGAIQPGVNRCKLISRKDFETLYND
CTNASSRPGRPPKRTQSVTSPENSHIMPHSVPGLMSPGIIPPTDETPLSTPTARDSLDKLSLTGHGQPLP
PGFPSPFLFPDGLSSIETLLTNIQGLLKVAIDNARAQEKQVQLEKTELKMDFLRERELRETLEKQLAMEQ
KNRAIVQKRLKKEKKAKRKLQEALEFETKRREQAEQTLKQAASTDSLRVLNDSLTPEIEADRSGGRTDAE
RTIQDGRLYLKTTVMY

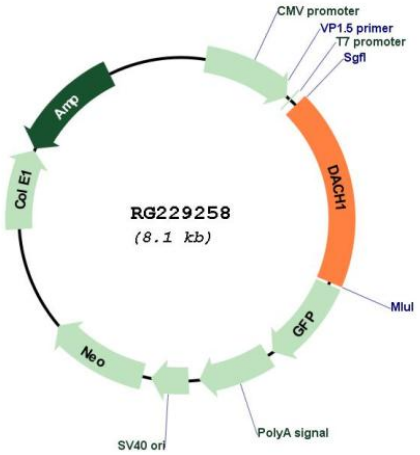
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



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_004392.5, 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
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]