

Product datasheet for **RG239058**

DACT2 (NM_001286350) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DACT2 (NM_001286350) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DACT2
Synonyms:	bA503C24.7; C6orf116; DAPPER2; DPR2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG239058 representing NM_001286350.
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGGGGACTGGAGGCCCGGTTCGGTTGATGAGACTACTGTGCCAGCGTGGAGACCCAGGCTACCGAG
GAGGGCGCCAGGCCCCAGGGAGCGTGGAGGATGCAGGCCAGCCGTGGGGCACATTCTGGCCAGGCCT
GTGTCTACAGGTGATCTTGACAGAGCCCTGCCGGCGGACACGGGGCTCCAGAAAGCCAGCGCGGACGCC
GAGCTCCTCGGGCTCCTCTGCCAGGGGGTGGATATCCCGCTGCACGTGCCGGACCCCAAGTATCGGCAG
GACCTGGTGTCCAGGGCGGCAGGGAGGTGTACCCGTACCCAGCCCCCTGCACGCCGTGGCTCTACAG
AGCCCCCTGTTTGTCTGACTAAGGAAACCCACAGAGAGGTGGCCCTCGTTCCCTAGGGAGAGCCCC
AGGGGCCCCGAGGTCTGAACACCATCCAGACTGGGCCGGTCTCGAGGCTGGCCCGCCAGGGCCAGA
GCTTATATCGACAGGTTGCTGCATCTGTGGGGCCGGGAGACCCAGCAAAGGGTAGCGAGGGAGAACAG
GGACCTTAAGGCATGCAGCGTCCCATCTCCACAGAGGCAGGGTGGCTGGAGTACAGACGGTGGAGGG
CGACTGCTGGTCTTCGCCCAGGGAGGGAGGACGAGGGAGGGCCAGCTCAGAGCAGGGGTGCCGGCAGG
GGCGGGCCCCAGCAGCAGGGATACATGCCCTTGAGGGTCCCCAGCAGTCTGGCAGCCTCCAGAGGAG
GGCTCAAAGCCCTCAAACAGCTGTGTCCCTCAGGGAGACCATGGTGCAGGCTTCTCCAGCTCAAAGGCC
CAGCAGACACCCTCAGCTCAGGACTATGGACGAGGCAACATCATATCCCATCCAGGATGCTGGACAAG
AGCCCCCTACCGGCCCTTGGGCACTTTGCCACCCATCCTTTGCTGCCAGCCTGAAAAATGGGTCCCCC
AAGAGCAAAGGCTGAAAAAATCAAGAGAAGTCCCATGGACAAGGTGCTGAGGTTTGCAAGGCAGCCGCTG
CTTCTACTGGACAGGCCCTGAGGGAGCCATGCAGCCCCCAGCCATCCCTGGAGTGGGACCTGCCAC
TGGCCCACAGGGAGGGGGCGGCTCCAGCGGAGGCCAGCCCTGGCCTGGGAGGCACCCGGGCGCTCCTGT
TCTGAGTCCACCCTCTACCCCATGCCTGTCTCGTCCCTTGGCAGTGGCCCCGAGGAGAGCCACCCGG
ACCTCAGCCCCAAGCCCTGTTCCCTTTGAGGGCTCACTGCTCACCTCAGTGGCCAGGAGGAAGCATCGC
CGTGGCAGTCCACCGTGGAGATCTCGGCCGGGCCCGCCTGGCCAGTGTCTGAGTCTAACCTGGGG
CCCCCAGGCCCGTGGCCAGGAGAGCAGGTGGCCACTGGCCGGGGCCCTCCCTCACTGGTCCGCCAG
GACGCCTACACCAGGAGCGACTCAGAGCCCTCAAAGCACTCGGCCGAGTGTGACCCGCGGTTCCCGTCA
GTCATCCCGGAGACCAGCGAGGGAGAGTCCAGTGACCACACCACCAACCGATTGAGAGACCGTGAGTCC
AGCAGCAGCGACGAGGAGGGCGGCCAGAGCAGGGACTGTGACCTGGCACTGGGCTATGTGGCGGCC
GGGCATCGGAGCTGGCCTGGACCCAGGAGGCCCGGTCAGCTCGGGGCCACTCCTGTCCCCGTGCC
AAGCTGTGCCGTATTAAGGCCTCAAGGCCCTGAAGAAGAAGATCCGAGGTTCCAGCCGACGGCCCTG
AAGGTCATGACCATGGTG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence:

>Peptide sequence encoded by RG239058
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MGDWRPRSVDETTVPAWRPQATEEGARPPGSVEDAGQPWGTFWPRPVSTGDLDRALPADTGLQKASADA
ELLGLLCQGVDIPLHVPDPKYRQDLVSQGGREYYPYPSPLHAVALQSPLFVLTKETPQRGGPSFPRESP
RGPAGLNTIQTGPVLEAGPARARAYIDRLLHLWGRETAKGSEGEQGPLRHAASPSQRQGGWSTDGGG
RLLVFAPGREDEGGPAQSRGAGRGGPQQQGYMPLEGPQQSGSLPEEGSKPSNSCVLRETMVQASPSKA
QQTPSAQDYGRGNIISPSRMLDKSPSPASGHFAHPSFAASLKMGPCKSAAEKIKRSPMDKVLRFARQPL
LLLDRPEGAHAAPQPSLEWDPAHWPTGRGGLQRRPALAWEAPGRSCSESTLYPMPVLVPLAVAPQESH
TSAQALFPFEASLLTSVARRKHRRWQSTVEISARARLASCPESNLGPPRPVARRAGGPLARGRPSLVRQ
DAYTRSDSEPSKHAECDPRFSPVIPETSEGESSDHTTNRFGDRESSSSDEEGGAQSRDCDLALGYVAA
GHAEAWTQEAQVSSGPLLSPVPLKCRKASKALKKKIRRFQPTALKVMTMV
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPYSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPE
SVIFTDKIIRSNATVEHLHPMGDNDLDGFSFTRTFLSRDGGYSSVVDSHMFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001286350

ORF Size: 1812 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).

RefSeq: [NM_001286350.2](#)

RefSeq Size: 2469 bp

RefSeq ORF: 1815 bp

Locus ID: 168002

UniProt ID: [Q5SW24](#)

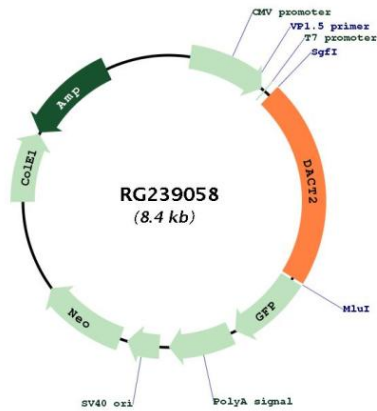
Cytogenetics: 6q27

MW: 65.3 kDa

Gene Summary:

Involved in regulation of intracellular signaling pathways during development. Negatively regulates the Nodal signaling pathway, possibly by promoting the lysosomal degradation of Nodal receptors, such as TGFBR1. May be involved in control of the morphogenetic behavior of kidney ureteric bud cells by keeping cells epithelial and restraining their mesenchymal character. May play an inhibitory role in the re-epithelialization of skin wounds by attenuating TGF-beta signaling (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG239058