

Product datasheet for **RC239058**

DACT2 (NM_001286350) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DACT2 (NM_001286350) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DACT2
Synonyms:	bA503C24.7; C6orf116; DAPPER2; DPR2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC239058 representing NM_001286350
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGGGACTGGAGGCCCGGTTCGGTTGATGAGACTACTGTGCCAGCGTGGAGACCCAGGCTACCGAGG
 AGGGCGCCAGGCCCCAGGGAGCGTGGAGGATGCAGGCCAGCCGTGGGGCACATTCTGGCCAGGCCTGT
 GTCTACAGGTGATCTTGACAGAGCCTGCCGGCGGACACGGGGCTCCAGAAAGCCAGCGCGGACGCCGAG
 CTCCTCGGGCTCCTCTGCCAGGGGTGGATATCCCGCTGCACGTGCCGGACCCCAAGTATCGGCAGGACC
 TGGTGTCCAGGGCGGCAGGGAGGTGTACCCGTACCCAGCCCCCTGCACGCCGTGGCTCTACAGAGCCC
 CCTGTTTGTCTGACTAAGGAAACCCACAGAGAGGTGGCCCTCGTTCCCTAGGGAGAGCCCCAGGGGC
 CCCGCAGGTCTGAACACCATCCAGACTGGGCGGTCTCGAGGCTGGCCCGCCAGGGCCAGAGCTTATA
 TCGACAGGTTGCTGCATCTGTGGGGCCGGGAGACCCAGCAAAGGGTAGCGAGGGAGAACAGGGACCTCT
 AAGGCATGCAGCGTCCCCATCTCCACAGAGGCAGGGTGGTGGAGTACAGACGGTGGAGGGCGACTGCTG
 GTCTTCGCCCCAGGGAGGGAGGACGAGGGAGGGCCAGCTCAGAGCAGGGGTGCCGACGGGGCGGGCCCC
 AGCAGCAGGGATACATGCCCTTGAGGGTCCCCAGCAGTCTGGCAGCCTCCAGAGGAGGGCTCCAGGCC
 CTCAAACAGCTGTGCTCCTCAGGGAGACCATGGTGCAGGCTTCTCCAGCTCAAAGGCCAGCAGACACCC
 TCAGCTCAGGACTATGGACGAGGCAACATCATATCCCCATCCAGGATGCTGGACAAGAGCCCCTCACCGG
 CCTCTGGGCACTTTGCCACCCATCCTTTGCTGCCAGCCTGAAAATGGTCCCCCAAGAGCAAGGCTGA
 AAAATCAAGAGAAGTCCCATGGACAAGGTGCTGAGGTTTGAAGGCAGCCGCTGCTTCTACTGGACAGG
 CCTGAGGGAGCCCATGCAGCCCCCAGCCATCCCTGGAGTGGGACCCTGCCACTGGCCACAGGGAGGG
 GCGGGCTCCAGCGGAGGGCAGCCCTGGCTGGGAGGCACCCGGGGCTCCTGTTCTGAGTCCACCCCTCTA
 CCCATGCCTGTCTCGTCCCTTGGCAGTGGCCCGCAGGAGAGCCACCGGACCTCAGCCCAAGCCCTG
 TCCCCCTTGAGGCGTCACTGCTCACCTCAGTGGCCAGGAGGAAGCATCGCCGCTGGCAGTCCACCGTGG
 AGATCTCGGCCCGGGCCCGCTGGCCAGCTGCTCTGAGTCTAACCTGGGGCCCCCAGGCCCGTGGCCAG
 GAGAGCAGGTGGCCACTGGCCCGGGCGTCCCTCACTGGTCCGCCAGGACGCCACACCAGGAGCGAC
 TCAGAGCCCTCAAGCACTCGGCCGAGTGTGACCCGCGGTTCCCGTCAGTATCCCGGAGACCAGCGAGG
 GAGAGTCCAGTGACCACACCACCAACCGATTCCGAGACCGTGGTCCAGCAGCAGCAGGAGGGCGG
 CGCCAGAGCAGGACTGTGACCTGGCACTGGGCTATGTGGCGCCGGGCATGCGGAGCTGGCCTGGACC
 CAGGAGGCCCGGTGAGCTCGGGCCACTCCTGTCCCCGTGCCAAGCTGTGCCGATTAAGGCCCTCCA
 AGGCCCTGAAGAAGAAGATCCGACAGTTCAGCCGACGGCCCTGAAGGTCATGACCATGGTG

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC239058 representing NM_001286350
 Red=Cloning site Green=Tags(s)

MGDWRPRSVDETTVPAWRPQATEEGARPPGSVEDAGQPWGTFWPRPVSTGDLDRALPADTGLQKASADAE
 LLGLLCQGVDIPLHVPDPKYRQDLVSQGGREVYPYPSPLHAVALQSPLFVLTKETPQRGGPSFPRESRPG
 PAGLNTIQTGPVLEAGPARARAYIDRLLHLWGRETPAKGSEGEQGPLRHAASPSQRRGGWSTDGGRLL
 VFAPGREDEGGPAQSRGAGRGGPQQGYMPLEGPQQSGSLPEEGSKPSNSCVLRETMVQASPSSKAQQT
 SAQDYGRGNIISPSRMLDKSPSPASGHFAHPSFAASLKMGPCKSAEKIKRSPMDKVLRFARQPLLLDR
 PEGAAHAPQPSLEWDPAHWPTGRGGLQRRPALAWEAPGRSCSESTLYPMPVLVPLAVAPQESHRTSAQAL
 FPFASLLTSVARRKHRRWQSTVEISARARLASCPEENLGPVPRVARRAGGPLARGRPSLVRQDAYTRSD
 SEPSKHSACDPRFSPVIPETSEGESSDHTTNRFGDRESSSSDEEGGAQSRDCDLALGYVAAGHAELAWT
 QEAPVSSGPLLSPVPKLCRIKASKALKKKIRRFQPTALKVMTMV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

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_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]