

Product datasheet for **RC213496**

DACT2 (NM_214462) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DACT2 (NM_214462) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DACT2
Synonyms:	bA503C24.7; C6orf116; DAPPER2; DPR2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC213496 representing NM_214462
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTGGACGCGCGGCCGACCCCCGGGTCCGCGGGCTGGGACCGCGTAGGTTGGGCGCAGGTTGCGCG
 CGGCGTTCGCGGGGCTGCAGGAGCTGCAGGGGCTGCGAGCCACGCAGCAGGAGCGGGTACGGGGCGCCCT
 GGCCCTGCAGCCCCCGCCGCGCCCGCCGCGCCCTGCGGCCCCACGGCTCCACGGCCCCGAGCAGCAG
 CTGGAGGCGGCGCTGGCCGCGCTGCAGGAGCAGCTGTCCCGCTGAGACAACAGGACATCGGCTGAAGA
 CCCACCTGGACCAGCTGGACCTGCAGATTAGCAAGCTGCAGCTGGATGTGGGCACAGCCTCAGGGGAGGC
 CCTGGACAGCAGCAGGCCAGCTCAGGCTTTACGAGATGAGCGACGGTGGATCCTGCTCCCTGTCC
 ACGTCTGTGCCTCCGTGTCAGTGACCACATCTCCCTCGTGGCAGTTTGTGCTGTGGCCAGG
 CCCACAAGGCCAGGCCAGCATGGGGACTGGAGCCCCGGTCGGTTGATGAGACTACTGTCCAGCGTG
 GAGACCCAGGCTACCGAGGAGGCGCCAGGCCCCAGGGAGCGTGGAGGATGCAGGCCAGCCGTGGGGC
 ACATTCTGGCCAGGCCCTGTGTCTACAGGTGATCTTGACAGAGCCCTGCCGGCGACACGGGGCTCCAGA
 AAGCCAGCGCGGACGCCGAGCTCCTCGGGCTCCTCGCCAGGGGGTGGATATCCCGCTGCAGTGCCGGA
 CCCAAGTATCGGCAGGACCTGGTGTCCAGGGCGGCAGGGAGGTGTACCCGTACCCAGCCCCCTGCAC
 GCCGTGGCTCTACAGAGCCCCCTGTTTGTCTGACTAAGGAAACCCACAGAGAGGTGGCCCTCGTTCC
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 GGCCAGGGCCAGAGCTTATATCGACAGGTTGCTGCATCTGTGGGGCCGGGAGACCCAGCAAAGGGTAGC
 GAGGGAGAACAGGGACCTTAAGGCATGCAGCTCCCCATCTCCACAGAGGCAGGGTGGCTGGAGTACAG
 ACGGTGGAGGGCGACTGCTGGTCTTCGCCCCAGGGAGGGAGGACGAGGGAGGGCCAGCTCAGAGCAGGG
 TGCCGGCAGGGGGCGGCCCCAGCAGCAGGGATACATGCCCTTGAGGGTCCCGAGCAGTCTGGCAGCCTT
 CCAGAGGAGGGCTCCAAGCCCTCAAACAGCTGTGTCTCAGGGAGACCATGGTGCAGGCTTCTCCAGCT
 CAAAGGCCAGCAGACACCCTCAGCTCAGGACTATGGACGAGGCAACATCATATCCCATCCAGGATGCT
 GGACAAGAGCCCCTACCGGCTCTGGGCACTTTGCCACCCATCCTTTGCTGCCAGCCTGAAAATGGGT
 CCCCCAAGAGCAAGGCTGAAAAATCAAGAGAAGTCCCATGGACAAGGTGCTGAGGTTTGAAGGCAGC
 CGCTGCTTCTACTGGACAGGCTGAGGGAGCCATGCAGCCCCCAGCCATCCCTGGAGTGGGACCTGTC
 CCACTGGCCACAGGGAGGGCGGGCTCCAGCGGAGGCCAGCCCTGGCCTGGGAGGCACCCGGGCGCTCC
 TGTTCTGAGTCCACCCTTACCCATGCCTGTCTCGTCCCTTGGCAGTGGCCCCGAGGAGAGCCACC
 GGACCTCAGCCCAAGCCCTGTTCCCTTTGAGGGTCACTGCTCACCTCAGTGGCCAGGAGGAAGCATCG
 CCGCTGGCAGTCCACCGTGGAGATCTCGGCCCGGGCCCGCTGGCCAGCTGTCTGAGTCTAACCTGGGG
 CCCCCAGGCCCGTGGCCAGGAGAGCAGGTGGCCACTGGCCCGGGGCCGTCCCTCACTGGTCCGCCAGG
 ACGCCTACACCAGGAGCGACTCAGAGCCCTCAAAGCACTCGGCCGAGTGTGACCCGCGGTTCCCGTCAGT
 CATCCCGGAGACCAGCGAGGGAGAGTCCAGTGACCACACCACCAACCGATTCCGGAGACCGTGAGTCCAGC
 AGCAGCGACGAGGAGGGCGGCCCCAGAGCAGGGACTGTGACCTGGCACTGGGCTATGTGGCGCCGGGC
 ATGGCGAGCTGGCTGGACCCAGGAGGCCCGGTGAGCTCGGGCCACTCCTGTCCCCGTGCCAAAGCT
 TGCCCGTATTAAGGCCTCCAAGGCCCTGAAGAAGAAGATCCGAGGTTCCAGCCAGGCCCTGAAGGTC
 ATGACCATGGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC213496 representing NM_214462
Red=Cloning site Green=Tags(s)

MWTPGGPPGSAGWDRRLGARLRAAFAGLQELQGLRATQQERVRGALALQPPPAPAAPCGPHGLHGPEQQ
LEAALAALQEQLSRLRQQDIGLKTTHLDQLDLQISKLQLDVGTASGEALDSRPSGGFYEMSDGGSCSL
TSCASVCSDHISPSLGSLLPVAQAHKARPSMGDWRPRSVDETTVPAWRPQATEEGARPPGSVEDAGQPWG
TFWPRPVSTGDLDRALPADTGLQKASADAELLGLLCQGVDIPLHVPDPKYRQDLVSQGGREYYPYPSPLH
AVALQSPLFVLTKETPQRGGPSFPRESRPGAGLNTIQTGPVLEAGPARARAYIDRLLHLWGRETAKGS
EGEQGPLRHAASPSQRQGGWSTDGGGRLLVFAPGREDEGPAQSRGAGRGGPQQQGYMPLEGPQQSGSL
PEEGSKPSNSCVLRETMVQASPSKAQQTPSAQDYGRGNIISPSRMLDKSPSPASGHFAHPSFAASLKMG
PPKSKAEKIKRSPMDKVLRFARQPLLLDRPEGAAAPQPSLEWPAHWPTGRGGLQRRPALAWEAPGRS
CSESTLYPMPVLVPLAVAPQESHRTSAQALPFEASLLTSVARRKHRRWQSTVEISARARLASCPE
PPRPVARRAGGPLARGRPSLVRQDAYTRSDSEPSKHAECDFRFPVPIPETSEGESSDHTTNRFGDRESS
SSDEEGGAQSRDCDLALGYVAAGHAELAWTQEAPVSSGPLLSPVPKLCRIKASKALKKKIRRFQPTALKV
MTMV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8121_b09.zip

Restriction Sites: Sgfl-Mlul

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_214462.5](#)

RefSeq Size: 2992 bp

RefSeq ORF: 2325 bp

Locus ID: 168002

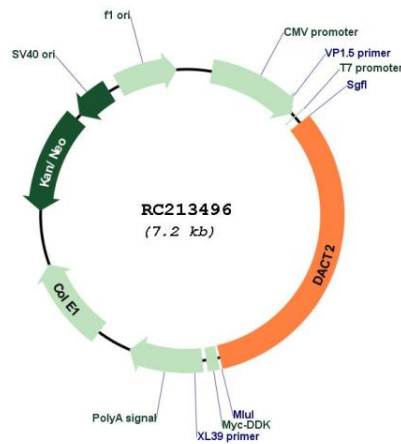
UniProt ID: [Q5SW24](#)

Cytogenetics: 6q27

MW: 83.1 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 RC213496