

Product datasheet for **RG213496**

DACT2 (NM_214462) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | DACT2 (NM_214462) 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) |
| ORF Nucleotide Sequence: | >RG213496 representing NM_214462 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCCTTGAGGGTCCCCAGCAGTCTGGCAGCCTTCCAGAGGAGGGCTCCAAGCCCTCAAACAGCTGTG
TCCTCAGGAGACCATGGTGCAGGCTTCTCCAGCTCAAAGGCCAGCAGACACCCTCAGCTCAGGACTA
TGGACGAGGCAACATCATATCCCCATCCAGGATGCTGGACAAGAGCCCTCACCGCCTCTGGGCACTTT
GCCACCCATCCTTTGCTGCCAGCCTGAAAATGGGTCCCCCAAGAGCAAGGCTGAAAAATCAAGAGAA
GTCCCATGGACAAGGTGCTGAGTTTGAAGGCAGCCGCTGCTTCTACTGGACAGGCCTGAGGGAGCCCA
TGCAGCCCCCAGCCATCCCTGGAGTGGGACCCTGCCACTGGCCACAGGGAGGGCGGGCTCCAGCGG
AGGCCAGCCCTGGCCTGGGAGGCACCCGGGCGCTCCTGTTCTGAGTCCACCCTCTACCCCATGCCTGTCC
TCGTCCCCTTGCCAGTGGCCCGCAGGAGAGCCACCGGACCTCAGCCCAAGCCCTGTTCCCCTTTGAGGC
GTCAGTGTCTCACCTCAGTGGCCAGGAGGAAGCATCGCCGCTGGCAGTCCACCGTGGAGATCTCGGCCCGG
GCCCGCTGGCCAGCTGTCTGAGTCTAACCTGGGGCCCCCAGGCCCGTGGCCAGGAGAGCAGGTGGCC
CACTGGCCCGGGCCGTCCTCACTGGTCCGCCAGGACGCTACACCAGGAGCGACTCAGAGCCCTCAA
GCACTCGGCCGAGTGTGACCCGCGGTTCCCGTCAGTCAATCCGGAGACCAGCGAGGGAGAGTCCAGTGAC
CACACCACCAACCGATTCCGAGACCGTGAGTCCAGCAGCAGCAGCAGGAGGGCGGCCAGAGCAGGG
ACTGTGACCTGGCACTGGGCTATGTGGCGCCGGGCATGCGGAGCTGGCCTGGACCCAGGAGGCCCGGT
CAGCTCGGGGCCACTCCTGTCCCCCGTGCCTAAGCTGTGCCGTATTAAGGCTCCAAGGCCCTGAAGAAG
AAGATCCGCAGGTTCCAGCCGACGGCCCTGAAGGTCATGACCATGGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG213496 representing NM_214462
Red=Cloning site Green=Tags(s)

MPLEGPQQSGSLPEEGSKPSNSCVLRETMVQASPSKAQQTPSAQDYGRGNIISPSRMLDKSPSPASGHF
 AHPSFAASLKMGPCKSAAEKIKRSPMDKVLRFARQPLLLDRPEGAHAAPQPSLEWDPAHWPTGRGGLQR
 RPALAWAEPGRSCSESTLYPMPVLVPLAVAPQESHRTSAQALFPFEASLLTSVARRKHRRWQSTVEISAR
 ARLASCPEENLGP RPVARRAGGPLARGP SLVRQDAYTRSDSEPSKHSACDPRFSPVIPETSEGESSD
 HTTNRFGDRESSSSDEEGGAQSRDCDLALGYVAAGHAELAWTQEAPVSSGPLLSPVPKLCRIKASKALKK
 KIRRFQPTALKVMTMV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_214462

ORF Size: 1098 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_214462.5](#)

RefSeq Size: 2942 bp

RefSeq ORF: 2325 bp

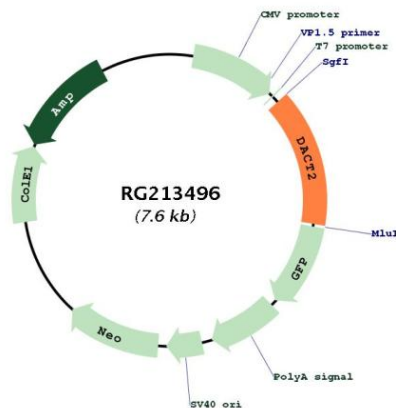
Locus ID: 168002

UniProt ID: [Q5SW24](#)

Cytogenetics: 6q27

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 RG213496