

## Product datasheet for **SC315620**

### **DACT1 (NM\_001079520) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	DACT1 (NM_001079520) Human Untagged Clone
Tag:	Tag Free
Symbol:	DACT1
Synonyms:	DAPPER; DAPPER1; DPR1; FRODO; HDPR1; TBS2; THYEX3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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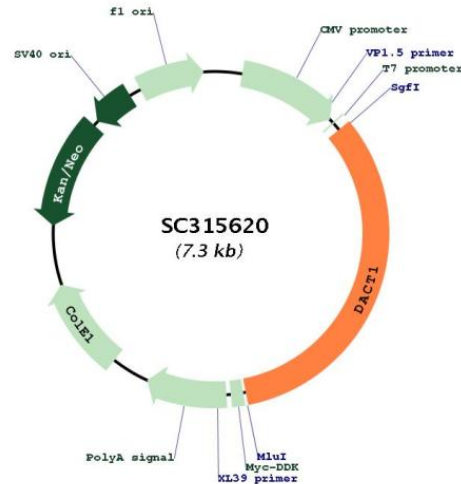
**Fully Sequenced ORF:** >SC315620 representing NM\_001079520.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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CGGCAGGAGGCCACGCTGGCCGGGCTGGCGGAGCTGGAGTACCTGCGCCAGCGCCAAGAGCTGCTGGTC
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ACGCGTACCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
```

**Restriction Sites:** SgfI-MluI

## Plasmid Map:



ACCN: NM\_001079520

Insert Size: 2400 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_001079520.1](#)

RefSeq Size: 3766 bp

RefSeq ORF: 2400 bp

Locus ID: 51339

UniProt ID: [Q9NYF0](#)

Cytogenetics: 14q23.1

MW: 86.2 kDa

**Gene Summary:** The protein encoded by this gene belongs to the dapper family, characterized by the presence of PDZ-binding motif at the C-terminus. It interacts with, and positively regulates dishevelled-mediated signaling pathways during development. Depletion of this mRNA from xenopus embryos resulted in loss of notochord and head structures, and mice lacking this gene died shortly after birth from severe posterior malformations. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jan 2012]  
Transcript Variant: This variant (2) uses an alternate in-frame acceptor splice site at the 3' terminal exon compared to variant 1. This results in a shorter isoform (2) missing an internal protein segment compared to isoform 1.