

Product datasheet for **MR210495**

Dact2 (NM_172826) Mouse Tagged ORF Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Dact2 (NM_172826) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Dact2 |
| Synonyms: | 2900084M21Rik; A630024E20; dapper2; Dpr2; Frd2 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



[View online »](#)

ORF Nucleotide
Sequence:

>MR210495 representing NM_172826
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTGGGCACCGAGCGGCCAGGGGCCCGGGTTGGGACCGCCGAGGGTGGCGCGCGACTACGAGCCG
 CACTGGCCGGGCTGCAGGAGCTTCAGGGGCTGCGAGCCACGCAGCAAGCACGCGTGGGGGAGCTCTGGG
 CCTGCACCCTGCGCCAGGGCCCCGCGGCCAGGAGCTGCGTCTGGAGGCGCGCTGACCGCCTACGGGAG
 CAGCTGTACGGCTAAGGAGACAGGATGCTGGCCTGAAGACACACTTGGACCAGCTGGATCAGCAGATAA
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 GCGCACCAGCTCTGCTGATGAGACCACTGTCCCTGCATGGAGCCACAGCTCACAGAAGATAGCAGGCT
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 GCCAGCAGCCCTGAAGGTGATGACCATGGTG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210495 representing NM_172826
 Red=Cloning site Green=Tags(s)

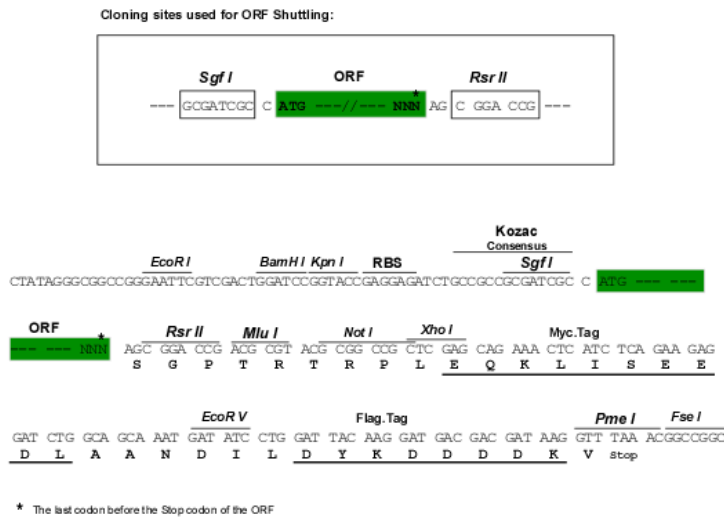
MWAPSGQGPGAWDRRRVGARLRAALAGLQELQGLRATQQARVRGALGLHPAGPRGQELRLEAALTALRE
 QLSRLRRQDAGLKTHLDQLDQIQISELQLDVSRSSCEALDSRPSGGFYELSDAGSCSLSTSCASVCSDR
 LSPSLGSLWLPVFQPSKSRSGIGDWRPRSADETTVPAWSPQLTEDSRLHGAEGTGRLTGMFRPRPVSTGD
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 CGQRSESTCQLEKQACGADRGLKLRGAADSLKQHGVPVSLVGAEPLSSPLKEETIPWNPCVHGDNTVG
 SSPCSQAQQPLNDCGQGPVLSRVLGTESPLAPEPFAYTSCTTGETSPVKLRMGFSQNKAVKVRRRVS
 EKVPRLGKQLPPQPERQVTERDPSRPHQGGLSRRPTLAREPPGRSCESTLYVPVFLVPVVAQRESYP
 TSPQAFFPMEAALLSSAARRKQRRWQSTMEISAKAGSVSQPGSMGLPRSPAKRSGPRAQSRPTLARQD
 ACARCESDPSEHSADCTSLYHSTIAETSEDEEASDHTANRFGDESSNDSEGCFRGSRRLAIGSAEAGQ
 GGAWPRVPPQPSRAPGNTRPPLPPVKLCRIKASKALKKKKIRRFQPAALKVMTMV

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9049_a10.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_172826

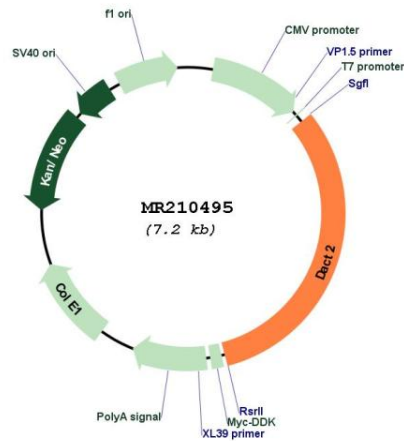
ORF Size: 2271 bp

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.

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| 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: | <u>NM_172826.3</u> , <u>NP_766414.3</u> |
| RefSeq Size: | 2849 bp |
| RefSeq ORF: | 2274 bp |
| Locus ID: | 240025 |
| UniProt ID: | <u>Q7TN08</u> |
| Cytogenetics: | 17 A2 |
| MW: | 82.1 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.[UniProtKB/Swiss-Prot Function] |

Product images:



Circular map for MR210495