

## Product datasheet for **RR200602**

### **Dact2 (NM\_001107464) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Dact2 (NM_001107464) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dact2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR200602 representing NM\_001107464  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTGGGCACCGAGCGGCCCGGGCCCGGGGCTGGGACCGCCGAGGGTGGGCGCGGACTACGAGCAG  
 CACTGGCGGGGCTGCAGGAGCTTCAGGGGCTGCGCGCCACGCAGCAAGCGGAGTGCGGGGAGCCCTGGG  
 CCTGCACCCAGCGCCAGGGCCCCGCGGCCAGGAGCTGAGGCTGGAGGCGGCGCTGGCCGCGCTACGGGAG  
 CAGCTGTACGGCTAAGGAGACAGGATGCTGGCCTGAAGACCCACTTGGACCAGCTGGACCAGCAGATAA  
 GTGAAGTGCAGCTGGATGTAAGCAGGTACCCTGCGAGGCCTTAGACAGTGACAGCAGGCCAGCTCAGG  
 TTTCTATGAGCTGAGTGATGCCGGTTCCTGCTCCCTGTCCACCTCTGTGCATCTGTCTGCAGCGACCGT  
 CTATCCCCCTCCCTGGGAAGCTGGCTGCCTGTGCTCCAGCCCTCAAGTCCAGGTCTGGCATGGGGGACT  
 GGGCAGCCCGCTCTGCTGATGAGACCACTGTCCCTGCGTGGAGCCACAGCGCACAGAAGATAGCAGGCT  
 CCTGCATGGTGCAGAGGACACAGGTGCGCTGAGGGGCATGTTCCGGCCAGACCGGTGTCTACAGGGCAG  
 CTCGAGAGAGTCCCTCCAGCTGACACGGGGCTCCAGAATGCTGGCACTGATGCCTCATCCCTCCTATGCC  
 AGGGGATAGAGATCCCAGCCCATGCACTGGACCCCAAGTACCAGCGTGATCTGGTGGCCAGGGGAGGCCA  
 GGAGGTGTACCCGTATCCCAGCCCCCTCCATGCAGTGGCTCTGCAGAGCCCTCTTTTGTGCTTGCCTAAA  
 GAAGTCCGTGTTTCGACATCTACTACCCCTGAGGAGCCCCCTCTGGTCCCTGCTGACCAGAACGGGA  
 CTCAGCCTGAGCCTGAGCCAGAGCCACCCGTGAGCTGGGCTCAGCCGAAGCCTACATCCACAGACTACT  
 GCGTCTGCGGGCCAAGAGCTCCCCCTGAGAGAGGTGGGCAGGAGCAGGGAGGAGAGCGAGCTGCTTTT  
 CCACAGAAGTCTGTGGCCAGAGGTGAGACGGGATGGGTGAGTGGAGAAGCCAGCCTGTGGGGCTGACT  
 GGGGAGGAATGAAACCAAGTAGGGGTGCTGCCAAGGACAGCCTCAGGCAACAGGGGCTGTGTCCCTTGT  
 GGGTACTGAGACCCTCAGCAGCCCCCTAAAGGAGGAAACCATACCTTGGAAATCCCTGTGTCCGTGGAGAC  
 AATACTGTTAGTTCCTCTCCCGCTCCAGATCCAGCAGCCTTACACTGACTGTGGCCAAGGGCCAGTCC  
 TATCACCATCAAGGGTGTGGGACCAGAAAGCCCGCTCTGGCCCCGTTCCCTTTGCTTACACATCCTC  
 CACTACTAATGAAACCTCCCCATTGAGGCTGAGGATGGGCTCTCCCCAAAACAAGGCCATGAAGGTCAA  
 AGAAGAGTTAGCGAGAAAGTACCACGGCTGGGGAAGCAGCTCCCACCACAACCGGAGAAACAGCGGGCA  
 TTCATGCCGCGTGGTCCACAGAGCTGGACCCCTCCTCCAGACCCCGCAGGGAGGTCTCAATAGGAGACC  
 CACTGGCCAGAGACCTCCTGGACGCTCCTGCTCTGAGTCCACCTCTACCCTGTGCCCTCCTCGTC  
 CCCCTAGTGGTGACCCAGAGGAAAGTTACCCCGCTCATCCCAAGCTCTTTCCAATGGAGACAGCCC  
 TCCTCAGTCCGAGCCAGGCGGAAGCAGCGCAGGTGGCAATCCACTATGGAGATCTCAGCTAAATCCCG  
 TTCGGTACGCCGACCTGGGCCAATTTGGGGCCCCCTAAGTCCCCAGCCAAGAGAACAGGTGGTCCCCGA  
 GCCCAGAGCAGGCCCTCGCTTGGCCGCCAGGATGCCTGTGCGAGGAGTGAGTACAGCCCTCAGAGCACT  
 CTGCAGAGTGGCCTCGTTATTTCACTCTACCATGCGGAAACCAGCGAGGACGAGGAGGCTAGCGACCA  
 CACTGCCAACCGCTTTGGGGACGAGTCCAGCAGTAACGATTGAGAAGACTGTGCCAGAGCAGCCGCGC  
 GGCCTGGCAATAGGCAGTGCAGAGGTGCGCAAGGGGATGGGCCTGGCCTCCGGTGCCACTCCAGCAGG  
 TCTCGCGAGCACAGGAGGCACAGGCCATCCCTGCCCTGTGCCAAACTGTGCCGATAAAGGCCCTC  
 CAAGCCCTGAAGAAGAAGATCCGAAGGTTCCAGCCAGCAGCCCTGAAGGTCATGACCATGGTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR200602 representing NM\_001107464  
 Red=Cloning site Green=Tags(s)

MWAPSGPGPAGWDRRRVGARLRAALAGLQELQGLRATQQARVRGALGLHPAGPRGQELRLEAALAALRE  
 QLSRLRRQDAGLKTHLDQLDQIQISELQLDVSRSPCEALDSRSPSSGFYELSDAGSCSLSTSCASVCSDR  
 LSPSLGWSLPLVLPQPSKSRSGMGDWRPRSADETTVPAWSPQRTEDSRLHGAEDTGRRLRGMFRPRPVSTGD  
 LERVLPA DTGLQAGTDASSLLCQGIEIPAHALDPKYQRDLVARGGQEVYPYPSPLHAVALQSPLFALPK  
 EAPCFDIYSPPEEPPLVPADQNGTQPEPEPEPTRELGSAEAYIHRLLRLRGQELPLREVGQEQQGDAAAF  
 PQKSCGQRS DGMQLEKPACGADWGMKPSRGA AKDSL RQQGPVSLVGTETLSSPLKEETIPWNPVVRGD  
 NTVSSSPASQIQPYTDCGQGPVLSRVRVLPSPPLAPVPFAYTSSTTNETSPLRLRMGSPQNKAMKVK  
 RRVSEKVPRLGKQLPPQPEKQRGIHAAWSTELDPSSRPPQGLNRRPTLAREPPGRSCSESTLYPVLLV  
 PLVVTQRESYPASSQALFPMETALLSSAARRKQRRWQSTMEISAKRSVSRPGPNLGPSPAKRTGGPR  
 AQSRPSLARQDACARSESDPSEHSAECASLFHSTIAETSEDEEASDHTANRFGDESSNDSQSSRR  
 GLAIGSAEAAQGGWAWPPVPLQQVSRAPGGTRPSLPPVKLCRIKASKALKKKIRRFQPAALKVMTMV

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**ACCN:** NM\_001107464

**ORF Size:** 2304 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\\_001107464.2](#), [NP\\_001100934.2](#)

**RefSeq Size:** 2748 bp

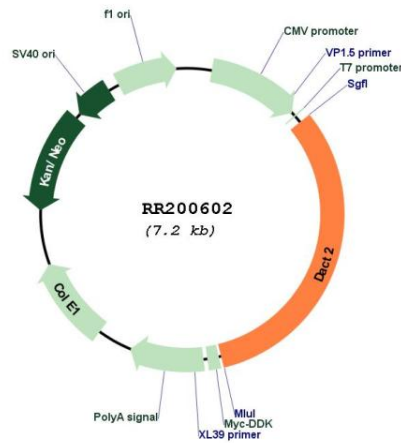
**RefSeq ORF:** 2307 bp

**Locus ID:** 308212

**Cytogenetics:** 1q12

**MW:** 82.7 kDa

**Product images:**



Circular map for RR200602