

Product datasheet for **MC205939**

Dact2 (NM_172826) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dact2 (NM_172826) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Dact2
Synonyms:	2900084M21Rik; A630024E20; dapper2; Dpr2; Frd2
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC058740
 CGCGCGGCGCGGCGGTTGAGCGTCCGGGAGATGTGGGCACCGAGCGGCCAGGGGCCCGGGTTGGGACC
 GCCGCAGGGTGGGCGCGGACTACGAGCCGCACTGGCCGGGCTGCAGGAGCTTCAGGGGCTGCGAGCCAC
 GCAGCAAGCACGCGTGCGGGGAGCTCTGGGCTGCACCTGCGCCAGGGCCCCGCGGCCAGGAGCTGCGT
 CTGGAGGCGGCGCTGACCGCGCTACGGGAGCAGCTGTACGGCTAAGGAGACAGGATGCTGGCCTGAAGA
 CACACTGGACCAGCTGGATCAGCAGATAAGTGAACACAGCTGGATGTGACAGGCTCTTCTTGGCAGGC
 CTTGGATAGTGACAGCAGACCCAGCTCAGGTTTCTATGAGCTGAGCGATGCTGGTTCCTGTCTGTCC
 ACCTCCTGCGCATCTGTTTGCAGCGACCGTCTATCCCCCTCCCTGGGTAGCTGGCTGCCTGTGTTCCAGC
 CCTCAAGTCCAGGTCTGGCATCGGGGACTGGCGACCACGCTCTGCTGATGAGACCACTGTCCCTGCATG
 GAGCCACAGCTCACAGAAGATAGCAGGCTCCTGCATGGTGCAGAGGGCACAGGCCGGCTGACGGGCATG
 TTCCGGCCAGACCAGTATCTACAGGTGATCTCGAAAGAGTCTTCCAGCTGACGTGGGGCTCCAGAGAG
 CTGGTACTGATGCTGCACATCTCTGGCCAGGGGATAGAGATCCCAGCCACGCCCTGGACCCACGTA
 CCAGCGTGACCTGGTGGCAGGGGAGGCCAGGAGGTGTACCCATATCCCAGCCCCCTCCATGCGGTGGCC
 CTGCAGAGTCCCCTCTTCTGCTCTGCCAAAGAAGCCCCGTGTTTTGACATCTGCTCACCTCCCAGGAGC
 CTCTCTGGTCCCTGTTGATGAGAACAGGACTCAACCTGAGCCGATCCGTGAGCTGGGCTCAGCCGAAGC
 CTACATCCACAGCTGTTGCATCTGCGGGCCAAAGAGCTCCCCCTGAGAGATGTGGGGCAGGAGCAGGGA
 GGTGACACAGCTGCTTTCCACCGAAGCCCTGTGGCCAGAGGTGCGAGAGCACATGTCAGCTGGAGAAGC
 AGGCCTGTGGAGCTGACAGGGGAGGACTGAAACTAGGTAGGGGTGCTGCCAAGGACAGCCTCAAGCAACA
 TGGGCCTGTGTCCCTTGTGGGTGCTGAGCCCCCTCAGCAGCCCCCTAAAGGAAGAAACCATTCCTTGGAA
 CCCTGTGTCCATGGAGACAATACTGTTGGTTTCTCACCCTGCTCCCAGGCCAACAGCCTCTTAATGACT
 GTGGCCAAAGACAGTCTGTACCATCCAGGGTGTGGGCACTGAGAGCCCACCTCTGGCCCCGGAGCC
 CTTTGCCTATACATCTGCACCACTGGTGAACCTCTCCCGTGAAGCTGAGGATGGGCTTTTCCAAAAC
 AAGGCCGTGAAGGTGAGAAGAAGAGTTAGTGAGAAAGTCCCAGGCTAGGGAAGCAGCTCCCTCCACAAC
 CAGAGAGGCAGCGGTCACAGAGCGGGACCCCTCCAGGCCCATCAGGGAGGTCTCAGCAGGAGGCCAC
 ACTGGCCCCGGAGCCTCCTGGACGCTCCTGCTCTGAGTCCACCCTCTACCCCGTGCCTTCTTGTCCCC
 GTAGTGGTGGCCAGAGGAAAGTTACCCAACGTACCCCAAGCGTTCTTCCCAATGGAGGCAGCTCTCC
 TCAGCTCAGCAGCCAGGCGAAGCAGCGCAGGTGGCAGTCCACCATGGAGATCTCAGCCAAGCCGGTTC
 AGTCAGCCAACCTGGGCCAGCATGGGGTCCCTAGGTCCCAGCCAAGAGAGGAAGTGGTCCCAGGGCC
 CAGAGTAGGCCACACTGCCCCGTCAGGATGCCTGTGCGAGGTGTGAGTCGGACCCTCGGAGCACTCTG
 CAGACTGCACCTACTCTACCACTCCACCATTGCCGAGACCAGCGAGGACGAGGAGGCGAGTGACCACAC
 TGCCAACCGCTTTGGGGACGAGTCCAGCAGCAACGATTAGAAGGGTGTTCGGGGCAGCCGCCGTCGC
 CTGGCAATAGGCAGTGCAGAGGCTGGGCAAGGGGGTGGGCTGGCTCGGGTGCSCCCAGCAGCCCT
 CACGGGCCCCAGGAAACACCAGGCCACCCTTGCCCCCTGTGCCAAACTGTGCCGCATCAAGGCCTCCAA
 GGCCCTGAAGAAGAAGATCCGAAGGTTTCAGCCAGCAGCCTGAAGGTGATGACCATGGTGTGATGGCAG
 TGTTTCAGGACAAGCCTAGGACCCAGAAAGGTGCCATATGATGTGGTACCCCGTGCATGTGATGAGCCG
 GGGGAGGGTGGTATCAACCTGCTATTGCGCTTAGTTTTCTCAGCCACCCTCACTGTGGTGGGAGTGTG
 TGGGGTACATTCCTCCAGCCATTTTCATTGCATGACCGCAGTCAACCTTTGCTCCTCACCATCTCT
 GCCTGATTTGTGGGAGAGGTCTTAATAAGACTTCTCCCCAGAGACATGAAAGAAACATGGCATCCT
 TTGCGGGCGGGGGGGGGGGGAGAACGGGACGACGGGACGAGGACCAGATTTGATTTAACTCCAT
 ATTGCAGTTGATGAACAAACACCTACACCATGCTGGTATAGTTCCAAATAAAAGAGCCACATTTCTTT
 CTCTCAA

Restriction Sites: RsrII-NotI
ACCN: NM_172826
Insert Size: 2274 bp
OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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>BC058740</u> , <u>AAH58740</u>
RefSeq Size:	2800 bp
RefSeq ORF:	2274 bp
Locus ID:	240025
UniProt ID:	<u>Q7TN08</u>
Cytogenetics:	17 A2
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]