

Product datasheet for **MC220081**

Brd7 (NM_012047) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Brd7 (NM_012047) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Brd7
Synonyms:	BP75; CELTIX1; Ptpn13ip
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC220081 representing NM_012047
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGCAAGAAGCACAAGAAGCACAAGTCGGACCGCCACTTCTACGAGGAGTACGTGGAGAAGCCCCTGA
 AGCTGGTCTCAAAGTCGGGGGAGCGAGGTCACCGAGCTCTCCACGGGAGCTCCGGGCACGACTCCAG
 CCTCTTCGAAGACAGAAGCGACCATGACAAACACAAGGACAGAAAACGGAAAAAGAGGAAGAAAGCGGAG
 AAGCAGGCTCCGGGGGAAGAGAAGGGGAGAAAACGGAGAAGAGTCAAGGAGGATAAAAAGAAGCGGGATC
 GAGACCGTGCAGAGAATGAGGTGGACAGAGATCTCCAGTGTATGTCCCTATAAGATTAGACTTACCTCC
 TGAGAAGCCTTTACAAGCTCGTTAGCCAAACAAGAAGAAGTAGAACAGACACCCCTTCAGGAAGCTTTG
 AATCAGCTCATGAGACAATTGCAAAGAAAAGACCAAGTGCTTTCTTTTCATTTCTGTGACGGATTTTA
 TTGCGCCTGGCTACTCCATGATTATTAACACCCAATGGATTTTAGTACCATGAAAGAAAAGATCAAGAA
 TAACGACTACCAGTCCATAGAAGAACTAAAGGATAACTTCAAGCTAATGTGTACTAATGCAATGATTAC
 AATAAGCCAGAGACCATTATTATAAAGCTGCAAAGAAGCTGTTGCACTCAGGGATGAAAATTTCTAGTC
 AGGAGAGAATTCAGAGCCTGAAGCAGAGTATAGACTTCATGTGCACTTCGAGAAAACCTCGGAAGCAGAA
 AGAACGAACAGATGCCTGTGAGAGTGGGGAGGACAGCGGCTGCTGGCAGCGCAGAGGGAAGACTCTGGA
 GATGCTGAAACACAGGCCCTTCAGAAGCCCCGCTAAGGACAATAAAAGGAAAGACAAAAGATGTGCTTGAAG
 ACAATGGAGAAGCAGCAACTCAGAAAGGGAGCATGAGCAGATTGAGCGCGTTGTCCAGGAGTCAGGAGG
 CAAGCTAACACGGCGGCTGGCAAACAGTCAGTGTGAATTTGAAAGAAGAAAACAGATGGGACAACAACA
 CTGGGGCTTCCATCCTGTGGATCCCATTGTGGGAGAGCCAGGCTACTGCCCTGTGAGATTGGGGATGA
 CAACTGGAAGACTGCAGTCTGGAGTGAACACTCTGCAGGGGTTCAAAGAGGATAAAAAGAACAGAGTAAC
 CCCAGTATTATACTTGAATTATGGACCCTACAGTTCTTATGCCCCACATTATGACTCTACATTTGCCAAT
 ATTAGCAAAGATGATTCTGATTTAATCTACTCAACATATGGGGAAGACTCTGACCTTCCAAACAATTTCA
 GCATCTCTGAGTTTTTGGCCACATGCCAAGATTACCCGTATGTTATGGCAGATAGTTTACTGGATGTTCT
 AACAAAAGGAGGACATTCAGGAGCCTGCAGGACTTGGACATGTCATCTCCTGAAGATGAAGGCCAGACC
 AGAGCATTGGACACAGCAAAAAGAAGCAGAGATTACACAAATAGAGCCAACAGGGCGTTTGGAGTCCAGCA
 GTCAGGACAGGCTCACAGCACTGCAAGCTGTAACAACCTTTGGTCTCCAGCTGAAGTCTTTGACTCCGA
 AGAGGCTGAGGTGTTCCAGAGGAAGCTTGATGAGACGACAAGATTGCTCAGGGAGCTCCAGGAGGCACAG
 AATGAGCGACTGAGCACTAGGCCTCCTCCAATATGATCTGTCTCCTGGGTCCTTCTTACAGAGAAATGT
 ACCTTGCTGAACAAGTGACCAATAACCTCAAAGAACTCACACAGCAAGTACTCCAGGTGATGTTGTAAAG
 CATAACGGAGTGCAGAAAAGCAATGGGGATTTCTGTTCTTCCCCATCGTGGGAAAACAGCTTCGTAGAT
 TTGACAGGAGAGTGTGAAGAACCTAAGGAGACCAGCACTGCTGAGTGTGGGCCTGACCGGAG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_012047
- Insert Size:** 1956 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:

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_012047.2](#), [NP_036177.1](#)

RefSeq Size: 2370 bp

RefSeq ORF: 1956 bp

Locus ID: 26992

UniProt ID: [O88665](#)

Cytogenetics: 8 C3

Gene Summary: Acts both as coactivator and as corepressor. May play a role in chromatin remodeling. Transcriptional corepressor that down-regulates the expression of target genes. Binds to target promoters, leading to increased histone H3 acetylation at 'Lys-9' (H3K9ac). Binds to the ESR1 promoter. Recruits BRCA1 and POU2F1 to the ESR1 promoter. Coactivator for TP53-mediated activation of transcription of a set of target genes. Required for TP53-mediated cell-cycle arrest in response to oncogene activation. Promotes acetylation of TP53 at 'Lys-382', and thereby promotes efficient recruitment of TP53 to target promoters. Inhibits cell cycle progression from G1 to S phase (By similarity). Activator of the Wnt signaling pathway in a DVL1-dependent manner by negatively regulating the GSK3B phosphotransferase activity. Induces dephosphorylation of GSK3B at 'Tyr-216'. Down-regulates TRIM24-mediated activation of transcriptional activation by AR.[UniProtKB/Swiss-Prot Function]