

## Product datasheet for **SC309092**

### BRD4 (NM\_058243) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	BRD4 (NM_058243) Human Untagged Clone
Tag:	Tag Free
Symbol:	BRD4
Synonyms:	CAP; HUNK1; HUNKI; MCAP
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_058243 edited  
 CTAGCATGTCTGCGGAGAGCGGCCCTGGGACGAGATTGAGAAATCTGCCAGTAATGGGG  
 ATGGACTAGAACTTCCCAAATGTCTACAACACAGGCCAGGCCCAACCCAGCCAGCCA  
 ACGCAGCCAGCACCAACCCCGCCCGCCAGAGACCTCCAACCCTAACAAGCCCAAGAGGC  
 AGACCAACCAACTGCAATACCTGCTCAGAGTGGTCTCAAGACACTATGGAAACACCACT  
 TTGCATGGCCTTCCAGCAGCCTGTGGATGCCGTCAAGCTGAACCTCCCTGATTACTATA  
 AGATCATTAAACGCCTATGGATATGGGAACAATAAAGAAGCGCTTGGAAAACTATT  
 ACTGGAATGCTCAGGAATGTATCCAGGACTTCAACTATGTTTACAAATGTTACATCT  
 ACAACAAGCCTGGAGATGACATAGTCTTAATGGCAGAAGCTCTGGAAAAGCTCTTCTTGC  
 AAAAAATAAATGAGCTACCCACAGAAGAAACCGAGATCATGATAGTCCAGGCAAAAGGAA  
 GAGGACGTGGGAGGAAAGAAACAGGGACAGCAAAACCTGGCGTTTCCACGGTACCAAACA  
 CAACTCAAGCATCGACTCCTCCGAGACCCAGACCCCTCAGCCGAATCCTCCTCCTGTGC  
 AGGCCACGCCTCACCCCTTCCCTGCCGTACCCCGGACCTCATCGTCCAGACCCCTGTCA  
 TGACAGTGGTGCCTCCCCAGCCACTGCAGACGCCCGCCAGTGGCCCCCAGCCACAAC  
 CCCCACCCGCTCCAGCTCCCCAGCCCGTACAGAGCCACCCACCCATCATCGCGGCCACCC  
 CACAGCCTGTGAAGACAAAGAAGGGAGTGAAGAGGAAAGCAGACACCACCACCCCAACA  
 CCATTGACCCATTACAGGCCACCCTCGCTGCCCGGAGCCCAAGACCACCAAGCTGG  
 GCCAGCGCGGGAGAGCAGCCGGCCTGTGAAACCTCCAAGAAGGACGTGCCCGACTCTC  
 AGCAGCACCCAGCACAGAGAAGAGCAGCAAGGTCTCGGAGCAGTCAAGTGTGCAGCG  
 GCATCCTCAAGGAGATGTTTGCCAAGAAGCACGCCGCTACGCCTGGCCCTTCTACAAGC  
 CTGTGGACGTGGAGCACTGGGCCTACACGACTACTGTGACATCATCAAGCACCCATGG  
 ACATGAGCACAATCAAGTCTAACTGGAGGCCCGTGAAGTACCGTGTGCTCAGGAGTTT  
 GTGCTGACGTCCGATTGATGTTCTCCAAGTGTATAAGTACAACCCTCCTGACCATGAGG  
 TGGTGGCCATGGCCGCAAGCTCCAGGATGTGTTGAAATGCGCTTTGCCAAGATGCCGG  
 ACGAGCCTGAGGAGCCAGTGGTGGCCGTGCTCCTCCCGGAGTGGCCCTCCACCAAGG  
 TTGTGGCCCGCCCTCATCCAGCGACAGCAGCAGCGATAGCTCCTCGGACAGTGCAGTT  
 CGACTGATGACTCTGAGGAGGAGCGAGCCAGCGCTGGCTGAGTCCAGGAGCAGCTCA



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AAGCCGTGCACGAGCAGCTTGCAGCCCTCTCTCAGCCCCAGCAGAACAAACCAAAGAAAA  
 AGGAGAAAAGACAAGAAGGAAAAGAAAAAGAAAAGCACAAAAGGAAAGAGGAAGTGGAAAG  
 AGAATAAAAAAGCAAAGCCAAGGAACCTCCTCCTAAAAAGACGAAGAAAAATAATAGCA  
 GCAACAGCAATGTGAGCAAGAAGGAGCCAGCGCCCATGAAGAGCAAGCCCCCTCCACGT  
 ATGAGTCGGAGGAAGAGGACAAGTGCAAGCCTATGTCCTATGAGGAGAAGCGGCAGCTCA  
 GCTTGGACATCAACAAGCTCCCCGGCGAGAAGCTGGGCCGCTGGTGCACATCATCCAGT  
 CACGGGAGCCCTCCCTGAAGAATTCCAACCCGACGAGATTGAAATCGACTTTGAGACCC  
 TGAAGCCGTCCACACTGGGTGAGCTGGAGCGCTATGTCACCTCCTGTTTGCGGAAGAAAA  
 GAAAACCTCAAGCTGAGAAAGTTGATGTGATTGCCGGCTCCTCCAAGATGAAGGGCTTCT  
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 CAGAGATGGTCCGAAGTCAAAAAAGAAGGGGCACCCCGGAGGGAGCAGAAGAAGCACC  
 ATCATCACCACCATCAGCAGATGCAGCAGGCCCGGCTCCTGTGCCCCAGCAGCCGCCCC  
 CGCCTCCCCAGCAGCCCCACCGCTCCACCTCCGAGCAGCAACAGCAGCCGCCACCCC  
 CGCCTCCCCACCCTCCATGCCGAGCAGGCAGCCCGGCGATGAAGTCTCGCCCCAC  
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 CTCCAGCTTTGCACAACGCACTACCCAGCAGCCATCACGGCCAGCAACCGAGCCGCTG  
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 TGCTCCCACAGCCCCCATGGCCCAACCCCCCAAGTGTGCTGGAGGATGAAGAGCCAC  
 CTGCCCCACCCCTCACCTCCATGCAGATGCAGCTGTACCTGCAGCAGTGCAGAAGTGC  
 AGCCCCCTACGCCGCTACTCCCTCCGTGAAGTGCAGTCCCAGCCCCACCCCTGCG  
 CGCCCCACCCCTCTGTGCAGCAGCAGTGCAGCAGCAGCCGCCACCCACCCAC  
 CACCCAGCCCGCCTCCACCCAGCAGCAGCATCAGCCCTCCACGGCCCGTGCCT  
 TGAGCCCATGCAGTTTTCCACCACATCCAACAGCCCCGACCCCAAGGGCCAGCAGC  
 CCCCCATCCGCCCCAGGCCAGCAGCCACCCCGCCGAGCCTGCCAAGCCTCAGCAAG  
 TCATCCAGCACCACATTACCCCGCCACCACAAGTCGGACCCCTACTCAACCGTCCAC  
 TCCGCGAAGCCCTCCCGCTTATGATACATTCCCCCAGATGTCACAGTTCCAGAGCC  
 TGACCCACAGTCTCCACCCAGCAAAACGTCCAGCCTAAGAAACAGGAGCTGCGTGCTG  
 CCTCCGTGGTCCAGCCCCAGCCCTCGTGGTGGTGAAGGAGGAGAAGATCCACTACCCA  
 TCATCCGAGCAGCCCTCAGCCCTCGCTGCGGCCGAGCCCCCAAGCACCCGGAGA  
 GCATCAAGGCCCCCGTCCACCTGCCCCAGCGCCGAAATGAAGCCTGTGGATGTCGGGA  
 GGCTGTGATCCGGCCCCAGAGCAGAACGCACCGCCACCAGGGGCCCTGACAAGGACA  
 AACAGAAACAGGAGCCGAAGACTCCAGTTGCGCCAAAAGGACCTGAAAATCAAGAAACA  
 TGGGCTCCTGGGCAGCCTAGTGAGAAGCATCCGACCACCCCTCCTCCACAGCCAAAGT  
 CATCCAGCGACAGCTTCGAGCAGTTCCGCCGCGCCGCTCGGGAGAAAGAGGAGCGTGAGA  
 AGGCCCTGAAGGCTCAGGCCGAGCAGCTGAGAAGGAGAAGGAGCGGCTGCGGCAGGAGC  
 GCATGAGGAGCCGAGAGGACGAGGATGCGCTGGAGCAGGCCCGGGGGCCCATGAGGAGG  
 CACGTCCGGCCAGGAGCAGCAGCAGCAGCAGCAGCCAGGAGCAACAGCAGCAGCAGCAAC  
 AGCAAGCAGTGCAGTGGCTGCCGCCGCCACCCACAGGCCAGAGCTCCAGCCCCAGT  
 CCATGCTGGACCAGCAGAGGGAGTTGGCCGGAAGCGGGAGCAGGAGCGAAGACGCCGGG  
 AAGCCATGGCAGTACCATTTGACATGAATTTCCAGAGTATCTATTGTCAATATTTGAAG  
 AAAATCTTTTCTGAGCGCACCTAGGTGGCTTCTGACTT

**Restriction Sites:** Please inquire  
**ACCN:** NM\_058243  
**Insert Size:** 4300 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\\_058243.1](#), [NP\\_490597.1](#)

**RefSeq Size:** 5198 bp

**RefSeq ORF:** 4089 bp

**Locus ID:** 23476

**UniProt ID:** [O60885](#)

**Cytogenetics:** 19p13.12

**Domains:** BROMO

**Protein Families:** Protein Kinase

**Gene Summary:**

The protein encoded by this gene is homologous to the murine protein MCAP, which associates with chromosomes during mitosis, and to the human RING3 protein, a serine/threonine kinase. Each of these proteins contains two bromodomains, a conserved sequence motif which may be involved in chromatin targeting. This gene has been implicated as the chromosome 19 target of translocation t(15;19)(q13;p13.1), which defines an upper respiratory tract carcinoma in young people. Two alternatively spliced transcript variants have been described. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (long) encodes the full length isoform.