

Product datasheet for **SC310151**

BRD4 (NM_014299) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BRD4 (NM_014299) Human Untagged Clone
Tag:	Tag Free
Symbol:	BRD4
Synonyms:	CAP; HUNK1; HUNKI; MCAP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC310151 representing NM_014299
 Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCTGCGGAGAGCGGCCCTGGGACGAGATTGAGAAATCTGCCAGTAATGGGGATGGACTAGAAACTT
 CCCAAATGTCTACAACACAGGCCAGGCCAACCCAGCCAGCCAACGCAGCCAGCACCACCCCGCC
 CCCAGAGACCTCCAACCCTAACAAAGCCCAAGAGGCAGACCAACCAACTGCAATACCTGCTCAGAGTGGTG
 CTCAAGACACTATGGAACACCAGTTTGCATGGCCTTTCCAGCAGCCTGTGGATGCCGTCAAGCTGAACC
 TCCCTGATTACTATAAGATCATTAAAACGCCTATGGATATGGGAACAATAAAGAAGCGCTTGAAAAACA
 CTATTACTGGAATGCTCAGGAATGTATCCAGGACTTCAACTATGTTTACAAATGTTACATCTACAAC
 AAGCCTGGAGATGACATAGTCTTAATGGCAGAAGCTCTGAAAAGCTCTTCTGCAAAAAATAAATGAGC
 TACCCACAGAAGAACCGAGATCATGATAGTCCAGGCAAAAGGAAGAGGACGTGGGAGGAAAGAACAGG
 GACAGCAAAACCTGGCGTTTCCACGGTACCAACACAACCTCAAGCATCGACTCCTCCGAGACCCAGACC
 CCTCAGCCGAATCCTCCTCCTGTGCAGGCCACGCCTCACCCCTTCCCTGCCGTACCCCGGACCTCATCG
 TCCAGACCCCTGTGATGACAGTGGTGCCTCCCCAGCCACTGCAGACGCCCCCGCCAGTGGCCCCCAGCC
 ACAACCCCAACCCGCTCCAGCTCCCCAGCCGTACAGAGCCACCCACCCATCATCGCGGCCACCCACAG
 CCTGTGAAGACAAAGAAGGGAGTGAAGAGGAAAGCAGACACCACCACCCACCCATTGACCCCATTC
 ACGAGCCACCCCTCGTGCCCGGAGCCCAAGACCACCAAGCTGGGCCAGCGCGGGAGAGCAGCCGGCC
 TGTGAAACCTCCAAGAAGGACGTGCCCGACTCTCAGCAGCACCAGCACCAGAGAAGAGCAGCAAGGTC
 TCGGAGCAGCTCAAGTCTGCAGCGGCATCCTCAAGGAGATGTTTGCCAAGAAGCACGCCGCTACGCT
 GGCCCTTCTACAAGCCTGTGGAGTGGAGGCCTGGGCCTACAGACTACTGTGACATCATCAAGCACC
 CATGGACATGAGCACAATCAAGTCTAAACTGGAGGCCGTGAGTACCGTGTGCTCAGGAGTTTGGTGCT
 GACGTCGGATTGATGTTCTCAACTGCTATAAGTACAACCCTCCTGACCATGAGGTGGTGGCCATGGCCC
 GCAAGCTCCAGGATGTGTTGCAATGCGCTTTGCCAAGATGCCGGACGAGCCTGAGGAGCCAGTGGTGGC
 CGTGTCTCCCCGGCAGTGCCCCCTCCACCAAGGTTGTGGCCCCGCCCTCATCCAGCGACAGCAGCAGC
 GATAGCTCCTCGGACAGTGACAGTTCGACTGATGACTCTGAGGAGGAGCGAGCCAGCGGCTGGCTGAGC
 TCCAGGAGCAGCTCAAAGCCGTGCACGAGCAGCTTGCAGCCCTCTCTCAGCCCCAGCAGAACAACCAAA
 GAAAAAGGAGAAAGACAAGAAGGAAAAGAAAAAGAAAAGCACAAGGAAAGAGGAAGTGAAGAGAAT
 AAAAAAGCAAAGCCAAGGAACCTCCTCCTAAAAAGACGAAGAAAAATAATAGCAGCAACAGCAATGTGA
 GCAAGAAGGAGCCAGCGCCATGAAGAGCAAGCCCTCCACGTATGAGTCGGAGGAAGAGGACAAGTG
 CAAGCCTATGTCCTATGAGGAGAAGCGGACGCTCAGCTTGGACATCAACAAGCTCCCCGGCGAGAAGCTG
 GGCCGCGTGGTGACATCATCCAGTCACGGGAGCCCTCCTGAAGAATCCAACCCCGACGAGATTGAAA
 TCGACTTTGAGACCCTGAAGCCGTCCACTGCGTGAGCTGGAGCGCTATGTCACCTCCTGTTTGGCGAA
 GAAAAGGAAACCTCAAGCTGAGAAAGTTGATGTGATTGCCGGCTCCTCCAAGATGAAGGGCTTCTCGTCC
 TCAGAGTCGGAGAGCTCCAGTGAGTCCAGCTCCTTGACAGCGAAGACTCCGAAACAGGTCTGCCTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Please inquire

ACCN: NM_014299

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 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_014299.1](#), [NP_055114.1](#)

RefSeq Size: 3149 bp

RefSeq ORF: 2169 bp

Locus ID: 23476

UniProt ID: [O60885](#)

Cytogenetics: 19p13.12

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 (short) differs in the 3' UTR and coding region compared to variant long. The resulting isoform (short) is shorter and has a distinct C-terminus compared to isoform long.