

Product datasheet for **RG230395**

BRD7 (NM_001173984) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BRD7 (NM_001173984) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	BRD7
Synonyms:	BP75; CELTIX1; NAG4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG230395 representing NM_001173984
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGCAAGAAGCACAAGAAGCACAAGTCGGACAAACACCTCTACGAGGAGTATGTAGAGAAGCCCTTGA
 AGCTGGTCTCAAAGTAGGAGGGAAACGAAGTCACCGAACTCTCCACGGGCAGCTCGGGGCACGACTCCAG
 CCTCTTCGAAGACAAAAACGATCATGACAAACACAAGGACAGAAAAGCGGAAAAAGAGAAAAGAGAGAG
 AAGCAGATTCCAGGGGAAGAAAAGGGGAGAAAACGGAGAAGAGTTAAGGAGGATAAAAAGAAGCGAGATC
 GAGACCGGTGGAGAATGAGGCAGAAAAGATCTCCAGTGTACGCCCCGTGTGAGATTAGACTTGCTCTC
 TGAGAAGCCTCTACAAGCTCTTAGCCAAACAAGAAGAAGTAGAACAGACACCCCTTCAAGAAGCTTTG
 AATCAACTGATGAGACAATTGCAGAGAAAAGATCCAAGTGCTTTCTTTTCATTTCTGTGACTGATTTTA
 TTGCTCCTGGCTACTCCATGATCATTAAACACCCAATGGATTTTAGTACCATGAAAGAAAAGATCAAGAA
 CAATGACTATCAGTCCATAGAAGAACTAAAGGATAACTTCAAATAATGTGTACTAATGCCATGATTTAC
 AATAAACCCAGAGACCATTATTATAAAGCTGCAAAGAAGCTGTTGCACTCAGGAATGAAAATTTCTAGCC
 AGGAAAAGAAATTCAGAGCCTGAAGCAGAGCATAGACTTCATGGCTGACTTGCGAAAACTCGAAAAGCAGAA
 AGATGGAACAGACACCTCACAGAGTGGGGAGGACGGAGGCTGCTGGCAGAGAGAGAGAGAGGACTCTGGA
 GATGCCGAAGCACACGCCTTCAAGAGTCCCAGCAAAGAAAATAAAAAGAAAAGACAAAAGATATGCTTGAAG
 ATAAGTTTAAAAGCAATAATTTAGAGAGAGAGCAGGAGCAGCTTGACCGCATCGTGAAGGAATCTGGAGG
 AAAGCTGACCAGGCGGCTTGTGAACAGTCAGTGCGAATTTGAAAGAAGAAAACAGATGGAACAACGACG
 TTGGGACTTCTCCATCCTGTGGATCCCATTGTAGGAGAGCCAGGCTACTGCCCTGTGAGACTGGGAATGA
 CAACTGGAAGACTTCAGTCTGGAGTGAATACTTTGCAGGGGTTCAAAGAGGATAAAAAGGAAACAAAAGTCA
 TCCAGTGTATATTTGAATTATGGGCCCTACAGTTCTTATGCACCGCATTATGACTCCACATTTGCAAAAT
 ATCAGCAAGGATGATTCTGATTTAATCTATTCAACCTATGGGAAAGACTCTGATCTTCCAAGTATTTCA
 GCATCCATGAGTTTTTGGCCACGTGCCAAGATTATCCGTATGTCATGGCAGATAGTTTACTGGATGTTTT
 AACAAAAGGAGGGCATTCCAGGACCTACAAGAGATGGAGATGTCATTGCCTGAAGATGAAGGCCATACT
 AGGACACTTGACACAGCAAAGAAATGGAGCAGATTACAGAAGTAGAGCCACCAGGGCGTTTGGACTCCA
 GTACTCAAGACAGGCTCATAGCGCTGAAAGCAGTAACAAATTTTGGCGTCCAGTTGAAGTTTTTGACTC
 TGAAGAAGCTGAAATATCCAGAAGAACTTGATGAGACCACCAGATTGCTCAGGGAACCTCAGGAAGCC
 CAGAATGAACGTTTGGACACCAGACCCCTCCGAACATGATCTGTCTCTTGGGTCCCTCATACAGAGAAA
 TGCATCTTGCTGAACAAGTGACCAATAATCTTAAAGAAGTGCACAGCAAGTAATCCAGGTGATATCGT
 AAGCACGTATGGAGTTCGAAAAGCAATGGGGATTTCCATTCTTCCCCCGTCATGAAAACAACCTTTGTG
 GATTTGACAGAAGACTGAAGAACCTAAAAGACGGATGTTGCTGAGTGTGGACCTGGTGGAAAGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG230395 representing NM_001173984
 Red=Cloning site Green=Tags(s)

MGKHKHKHKS~~DKHL~~YEEYVEKPLKLVLVKGGNEVTELSTGSSGHDSSLFEDKNDHDKHKDRKRKRKKG
 KQIPGEEKGRKRRRVKEDKKRDRDRVENEAEKDLQCHAPVRLDLPEKPLTSSLAKQEEVEQTPLQEAL
 NQLMRQLQRKDPSAFFSFPVTDIAPGYSMIKHPMDFSTMKEKIKNNDYQSIEELKDNFKLMCTNAMIY
 NKPETIYYKAAKLLHSGMKILSQERIQSLKQSIDFMADLQKTRKQKDGTDTSQSGEDGGCWQREREDSG
 DAEAHAFKSPSKENKKDKDML~~EDK~~FKSNL~~ERE~~QELDRIVKESGGKLRRLVNSQCEFERRKPDGTTT
 LGLLHPVDPIVGE~~PGY~~CPVRLG~~M~~TGR~~L~~QSGVNTLQGFKEDKRNKVPVLYLNYGPYSSYAPHYDSTFAN
 ISKDDSDLIYSTYGEDSDLP~~SD~~FSIHEFLATCQDYPYVMADSLLDVLTGKGHSRTLQEMEMSLPEDEGHT
 RTLDTAKEME~~Q~~ITEVEPPGRLDSSTQDRLIALKAVTNF~~G~~V~~P~~VEVFDSEAEIFQKKLDETTRLLRELQEA
 QNERLSTRPPNMI~~CL~~LGPSYREMH~~L~~AQVTNNL~~K~~ELAQQVTPGDIVSTYGV~~R~~KAMGISIPSPVMENNFV
 DLTEDEEPKKT~~D~~VAECGPGGS

TRTRPLE - GFP Tag - V

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:	<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:	NM_001173984.3
RefSeq Size:	2230 bp
RefSeq ORF:	1959 bp
Locus ID:	29117
UniProt ID:	Q9NPI1
Cytogenetics:	16q12.1
Gene Summary:	This gene encodes a protein which is a member of the bromodomain-containing protein family. The product of this gene has been identified as a component of one form of the SWI/SNF chromatin remodeling complex, and as a protein which interacts with p53 and is required for p53-dependent oncogene-induced senescence which prevents tumor growth. Pseudogenes have been described on chromosomes 2, 3, 6, 13 and 14. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2010]