

## Product datasheet for **RC234984**

### **BRDT (NM\_001242810) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	BRDT (NM_001242810) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	BRDT
Synonyms:	BRD6; CT9; SPGF21
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC234984 representing NM\_001242810  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGATTTAAATACAATTAAGAAGCGCTTGAGAATAAATATTATGCGAAGGCTTCAGAATGTATAGAAG  
 ACTTCAATACAATGTTCTCAAATGTTATTTATATAACAAGCCTGGAGATGACATTGTTCTTATGGCACA  
 AGCTCTAGAGAAGCTGTTTATGCAGAAATTATCTCAGATGCCACAAGAAGAGCAAGTTGTGGGTGTTAAG  
 GAAAGAATCAAGAAAGGCACTCAACAGAAATATAGCTGTTTCTTCTGCTAAAGAAAAATCATCACCCAGCG  
 CAACAGAAAAAGTATTTAAGCAGCAAGAAATTCCTTCTGTATTTCTAAGACATCTATTTCTCCCTTGAA  
 CGTGGTACAGGGAGCTTCAGTCAACTCCAGTTCACAACTGCGGCCCAAGTTACAAAAGGTGTGAAGAGG  
 AAAGCAGATACAACAACCTCCTGCAACTCAGCAGTTAAAGCAAGTAGTGAATTTTCTCCAACATTCACAG  
 AAAATCAGTGGCACTGCCACCTATAAAAGAAAAATATGCCAAAGAATGTTTTGCCAGATTCTCAGCAACA  
 ATATAATGTTGTGAAGACTGTTAAAGTAACTGAACAATTAAGGCACTGTAGTGAGATTCTTAAAGAAATG  
 CTTGCAAAGAAACATTTTTTCATATGCATGGCCCTTTTATAATCCTGTTGACGTTAATGCTTTGGGACTCC  
 ATAACTACTATGACGTTGTCAAAAATCCGATGGATCTTGGAATTAAGGAGAAAAATGGATAACCAAGA  
 ATATAAGGATGCATACAAATTTGCGGCAGATGTTAGATTAATGTTTCATGAATTGCTACAAGTACAATCCT  
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 CGATTGAACCTGTTGAGAGTATGCCTTTATGTTACATCAAACAGATATCACAGAAACCACTGGTAGAGA  
 GAACACTAATGAAGCCTCCTCTGAAGGGAACCTTCTGATGATTCTGAAGATGAGCGAGTTAAGCGTCTT  
 GCAAAGCTTCAGGAGCAGCTTAAAGCTGTACATCAACAGCTCCAGGTTTTGTCCCAAGTACCTTTCCGTA  
 AGCTAAAATAAAAAGAAAGAGAAGTCTAAAAGGAAAAAGAAAAAGAAAGTTAATAACAGCAATGAAAA  
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 TAATGATGTCAAAGAAGAACTTCACTCACAGAAAAACAGGAATTGGAAAAGCGGTTACTGGATGTTAA  
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 GTTTCCCGACTGAGTGAGAGCAGCAGCAGCAGCAGCTCATCAGAGTCTGAAAGTAGCAGCAGTGACT  
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 ATCCTCAGATGAGCTCTCAACCAATTTAGAAAAGCAGCCATAGAAAAGGAAGTAAAAGCTCGGACACAG  
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 AGGCAGAAAGAACAAGAGAGGAGGAGGAGAGAAGCAATGGTGGTACCATTGATATGACCCTTCAAAGT  
 ACATTATGACAATGTTTGAACAACCTTTGAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC234984 representing NM\_001242810  
 Red=Cloning site Green=Tags(s)

MDLNTIKKRLLENKYYAKASECIEDFNTMFSNICYLYNKP GDDIVLMAQALEKLFMQKLSQMPQEEQVVGVK  
 ERIKKGTTQONI AVSSAKEKSSPSATEKVFVKQQEIPSVFPKTSISPLNVVQ GASVNSSQTAAQVTKGVKR  
 KADTTTTPATSAVKASSEFSPTFTEKSVALPPIKENMMPKNVLPDSQQQYVNVKTVKYTEQLRHCSEILKEM  
 LAKKHFSYAWPFYNPVDVNALGLHNYDVKVKNPMDLGTIKEKMDNQEYKDAYKFAADVRLMFMNCYKYNP  
 PDHEVVTMARM LQDVFE THFSKIPIEPVESMPLCYIKTDITETTGRENTNEASSEGNSSDSEDERVKRL  
 AKLQEQLKAVHQQLQVL SQVPFRKLNKKKEKSKKEKKKEKVNNSNENPRKMCEQMRLKEKSKRNQPKKRK  
 QQFIGLKSEDEDNAKPMNYDEKRQLSLNINKLPGDKLGRVVHIIQSREPSLSNSNPDEIEIDFETLKAST  
 LRELEKYVSACLRKRPLKPPAKKIMMSKEELHSQKKQELEKRLLDVNNQLNSRKRQTKSDKTQPSKAVEN  
 VSRLSESSSSSSSESSSSDLSSSDSSSESEMFPKFTEVKPNDSPSKENVKMKNECILEGRTGV  
 TQIGYCVQD TTSANTTLVHQTTPSHVMPNHHQLAFNYQELEHLQTVKNI SPLQILPPSGDSEQLSNGIT  
 VMHPSGSDT TMLESECQAPVQKDIKIKNADSWKSLGKPVKPSGMKSSDEL FNQFRKAAIEKEVKARTQ  
 ELIRKHLEQNTKELKASQENQRDLGNGLTVEFSNKIQNKCSGEEQKEHQSSSEAQDKSKLWLLKDRDLA  
 RQKEQERRRREAMVGTIDMTLQSDIMTFENNF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

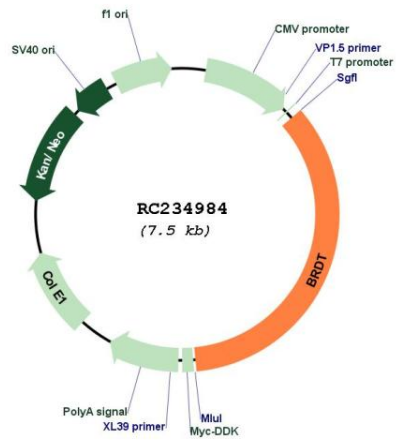
SgfI-MluI

**Cloning Scheme:**



<b>ACCN:</b>	NM_001242810
<b>ORF Size:</b>	2622 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001242810.1</a> , <a href="#">NP_001229739.1</a>
<b>RefSeq Size:</b>	3717 bp
<b>RefSeq ORF:</b>	2625 bp
<b>Locus ID:</b>	676
<b>UniProt ID:</b>	<a href="#">Q58F21</a>
<b>Cytogenetics:</b>	1p22.1
<b>Protein Families:</b>	Protein Kinase, Transcription Factors
<b>MW:</b>	99.9 kDa
<b>Gene Summary:</b>	BRDT is similar to the RING3 protein family. It possesses 2 bromodomain motifs and a PEST sequence (a cluster of proline, glutamic acid, serine, and threonine residues), characteristic of proteins that undergo rapid intracellular degradation. The bromodomain is found in proteins that regulate transcription. Several transcript variants encoding multiple isoforms have been found for this gene. [provided by RefSeq, Jun 2011]

Product images:



Circular map for RC234984