

## Product datasheet for **RC204043**

### **BUD23 (NM\_017528) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	BUD23 (NM_017528) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	BUD23
Synonyms:	HASJ4442; HUSSY-3; MERM1; PP3381; WBMT; WBSCR22
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC204043 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCGTCCCAGCGCCGGCGTCCGGAGCATGGCGGACCCAGAGCTGTTTTATGACGAGACAGAAGCCC  
GGAAATACGTTTCGCAACTCACGGATGATTGATATCCAGACCAGGATGGCTGGGCGAGCATTGGAGCTTCT  
TTATCTGCCAGAGAATAAGCCCTGTTACCTGCTGGATATTGGCTGTGGCACTGGGCTGAGTGAAGTTAT  
CTGTCAGATGAAGGGCACTATTGGGTGGCCTGGATATCAGCCCTGCCATGCTGGATGAGGCTGTGGACC  
GAGAGATAGAGGGAGACCTGCTGCTGGGGGATATGGGCCAGGGCATCCCATTCAAGCCAGGCACATTTGA  
TGGTTGCATCAGCATTCTGCTGTGCAGTGGCTCTGTAATGCTAACAAGAAGTCTGAAAACCTGCCAAG  
CGCCTGTACTGCTTTTTGCTTCTTTTTTCTGTTCTCGTCCGGGGATCCCGAGCTGTCTGCAGCTGT  
ACCCTGAGAACTCAGAGCAGTTGGAGCTGATCACAAACCAGGCCACAAAGGCAGGCTTCTCCGGTGGCAT  
GGTGGTAGACTACCCTAACAGTGCCAAAGCAAAGAAATTTACCTCTGCTTGTGTTTCTGGGCCTTCGACC  
TTTATACCAGAGGGGCTGAGTAAAAATCAGGATGAAGTTGAACCCAGGGAGTCTGTGTTCCACCAATGAGA  
GGTTCCCATTAAGGATGTCGAGGCGGGGAATGGTGAGGAAGAGTCGGGCATGGGTGCTGGAGAAGAAGGA  
CGGCGCACAGGCGCCAGGGCAGGGAAGTCAGACCTGACACCCAGTACACCGGCCGCAAGCGCAAGCCCCGC  
TTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC204043 protein sequence  
 Red=Cloning site Green=Tags(s)

MASRGRRPEHGGPPPELFYDETEARKYVRNSRMIDIQTRMAGRALELLYLPENKPCYLLDIGCGTGLSGSY  
 LSDEGHYVWGLDISPAMLDVAVDREIEGDLGLGDMGGIPFKPGTFDGCISISAVQWLCNANKKSENPAK  
 RLYCFFASLFSVLVVRGSRVQLYPENSEQLELITTTQATKAGFSGGMVVDYPNSAKAKFFYLCLFSGPST  
 F IPEGLSENQDEVEPRESVFTNERFPLRMSRRGMVRKSRAWVLEKKERHRRQGREVRPDTQYTGKRKRKPR  
 F

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

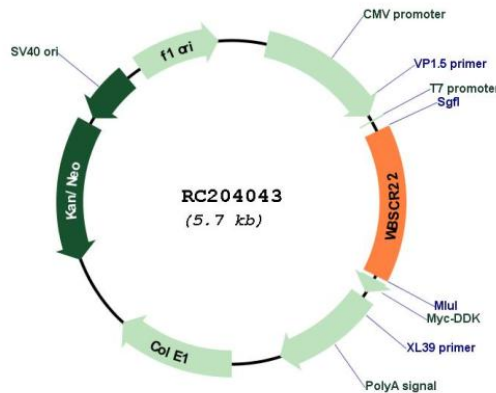
Chromatograms: [https://cdn.origene.com/chromatograms/mk6423\\_d05.zip](https://cdn.origene.com/chromatograms/mk6423_d05.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:



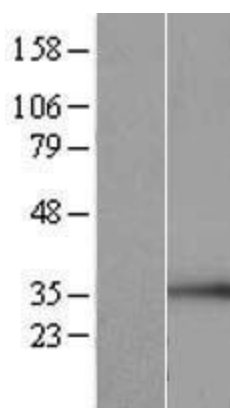
Plasmid Map:



ACCN: NM\_017528

ORF Size:	843 bp
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. <a href="#">More info</a>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	<a href="#">NM_017528.5</a>
RefSeq Size:	1256 bp
RefSeq ORF:	846 bp
Locus ID:	114049
Protein Families:	Druggable Genome
Protein Pathways:	Androgen and estrogen metabolism, Histidine metabolism, Selenoamino acid metabolism, Tyrosine metabolism
MW:	31.9 kDa
Gene Summary:	This gene encodes a protein containing a nuclear localization signal and an S-adenosyl-L-methionine binding motif typical of methyltransferases, suggesting that the encoded protein may act on DNA methylation. This gene is deleted in Williams syndrome, a multisystem developmental disorder caused by the deletion of contiguous genes at 7q11.23. Alternatively spliced transcript variants have been found. [provided by RefSeq, Feb 2011]

### Product images:



Western blot validation of overexpression lysate (Cat# [LY413723]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204043 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).