

## Product datasheet for **RR201641**

### Bckdk (NM\_019244) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Bckdk (NM\_019244) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Bckdk  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR201641 representing NM\_019244  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGATCGCC

ATGATACTGACTTCAGTGTGGCAGCGGCCCTCGGAGCGGGTCTTCACTTTGGCCCTCTTGGGGTCTC  
 CACTGTCACTCCGGTTCGCTCAACATCAGCCACCGATACACCATGTAGAGCTGGCCAGGGAACGCTC  
 CAAGACTGTTACCTCCTTTACAACAGTCAGCTATTGACGTGGTAGCAGAGAAGCCCTCAGTCCGCCTC  
 ACTCCCACCATGATGCTCTATTCTGGTCGCTCACAGGATGGCAGCCACCTTCTGAAAAGTGGTCGCTACT  
 TGCAGCAAGAGTTACCGGTGAGGATCGCTCACCGCATCAAGGGCTTCCGTAGTCTTCTTTCATCATTGG  
 TTGCAACCCTACCATACTGCATGTGCACGAGCTATACATCCGGGCCTTCCAGAAGTTGACAGACTTCCCT  
 CCGATCAAGGACCAGGCAGACGAAGCCAGTATTGCCAGCTGGTGCACAGCTGCTAGATGACCACAAGG  
 ATGTGGTAACCCTGTTAGCTGAGGGTCTGCGTGAGAGCCGAAACACATAGAGGATGAAAAGCTGGTCCG  
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 CATGAAGACAAGCCTGATTTTGTGGCATCATCTGCACTCGTCTGTACCCAAGAAGATTATTGAGAAGT  
 GGGTGGATTTTGGCAGACGCCTGTGCGAGCACAAGTATGGCAATGCCCTAGAGTCCGCATCAATGGGCA  
 CGTGGTCCCGTTTCCCTTATTCTATGCCGCTGGACTATATCCTGCCTGAGCTGCTCAAGAAGCC  
 ATGAGAGCCACAATGGAGAGTCACCTAGACACGCCCTACAATGTTCTGTATGTGGTCATCACCATCGCCA  
 ATAACGATGTGGATCTCATCAGGATCTCAGACCGGGTGGAGGAATCGCTCATAAGGACCTGGATCG  
 GGTGATGGACTACCCTTACCACAGCTGAGGCCAGCACCAGGACCCCGAATCAGCCCCCTCTTCGGC  
 CACCTGGATATGCACAGTGGTGGCAATCAGGACCTATGCATGGCTTTGGCTTCGGGTGGCCACGTCCA  
 GGGCCTATGCGGAGTATCTCGTGGCTCCCTGCAGCTGCAGTCCCTGCAGGGCATTGGCACAGATGTCTA  
 CCTACGGCTCCGCCACATTGATGGCCGGGAGGAAAGCTTCAGAATC

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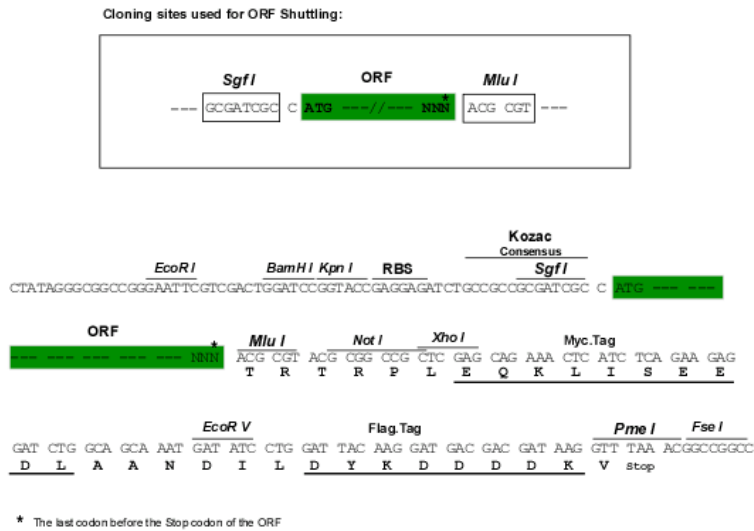
**Protein Sequence:** >RR201641 representing NM\_019244  
Red=Cloning site Green=Tags(s)

MILTSVLGSGPRSGSSLWPLLGSSLSLRVRSTSATDTHHVELARERSKTVTSFYNQSAIDVVAEKPSVRL  
 TPTMMLYSGRSQDGSLLKSGRYLQQELPVRIAHRIKGFRLPFIIGCNPTILHVHLYIRAFQKLTDFP  
 PIKDQADEAQYQQLVRQLLDDHKDVVTLAEGLRERSRKHIEDEKLVRYFLDKTLTSRLGIRMLATHHLAL  
 HEDKPDFVGIICTRLSPKKIIEKWVDFARRLCEHKYGNAPVRVINGHVAARFPFIPMLDYILPELLKNA  
 MRATMESHLDTPYNVPDVVITIANNDVDLIIRISDRGGGIAHKDLDRVMDYHFTTAEASTQDPRISPLFG  
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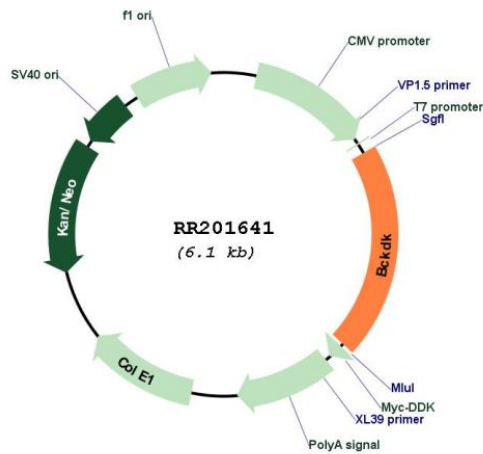
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_019244

<b>ORF Size:</b>	1236 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_019244.2</a> , <a href="#">NP_062117.2</a>
<b>RefSeq Size:</b>	1816 bp
<b>RefSeq ORF:</b>	1239 bp
<b>Locus ID:</b>	29603
<b>UniProt ID:</b>	<a href="#">Q00972</a>
<b>Cytogenetics:</b>	1q37
<b>MW:</b>	46.5 kDa
<b>Gene Summary:</b>	mitochondrial kinase; involved in oxidative degradation of branched-chain amino acids [RGD, Feb 2006]