

Product datasheet for **MR227940**

Blvrb (NM_001290525) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Blvrb (NM_001290525) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Blvrb
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR227940 representing NM_001290525
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTCCGAGGGCACCCGGAACATCGTGACAGCCATGAAGGCACATGGAGTGGACAAGGTCGTGGCCCTGCA
CCTCGGCCTTCTACTATGGGACCCGACCAAGGTGCCCCACGCGCTGCAGGACGTGACCGATGACCACAT
CCGGATGCATAAGATTCTGCAAGAGTCAGGGCTGAAATACGTGGCAGTGATGCCCCACACATAGGAGAC
CAACCACTAACTGGGGCCTACACAGTGACCCTGGATGGACGAGGGCCCTCGAGGGTCATATCCAAGCATG
ACCTGGGCCACTTCATGCTACGGTGCCTCACCACCAATGAGTATGACGGACACACCACCTACCCCTCCCA
CCAGTATGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR227940 representing NM_001290525
Red=Cloning site Green=Tags(s)

MSEGTRNIVTAMKAHGVDKVVACTSAFLLWDPTKVPRLQDVTDDHIRMHKILQESGLKYVAVMPPHIGD
QPLTGAYVTLDGRGPSRVISKHDLGHFMLRCLTTNEYDGHTTYPESHQYD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

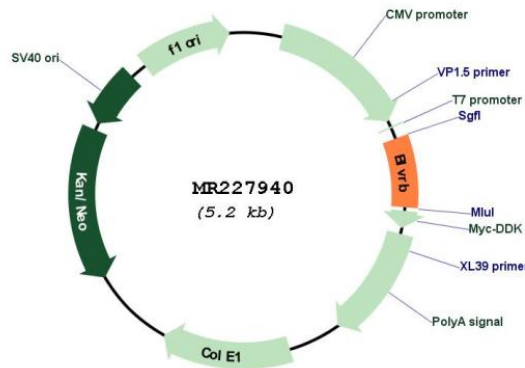


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001290525

ORF Size: 360 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. [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:	<u>NM_001290525.1</u> , <u>NP_001277454.1</u>
RefSeq Size:	779 bp
RefSeq ORF:	363 bp
Locus ID:	233016
Cytogenetics:	7 A3
MW:	13.9 kDa
Gene Summary:	Broad specificity oxidoreductase that catalyzes the NADPH-dependent reduction of a variety of flavins, such as riboflavin, FAD or FMN, biliverdins, methemoglobin and PQQ (pyrroloquinoline quinone). Contributes to heme catabolism and metabolizes linear tetrapyrroles. Can also reduce the complexed Fe(3+) iron to Fe(2+) in the presence of FMN and NADPH. In the liver, converts biliverdin to bilirubin.[UniProtKB/Swiss-Prot Function]