

CACTTTTGAGCAACTCACAATTTTATATATACATTACAAGTAATTAATAAATAAAGTATTA 100440
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TTATATGTACATAACAAGTAAATAATAACACACGTTACATTGACTTGATTACACAAAGGA 100320
 TAACTTATACATTGATAAAAGACAACTAATAAGATAAGTTGAGCAACTAAAGATTTTACAT 100260
 TGACTTGGTTAGATAAAAGGATAACTTATAGATAGATAAAAGGTAACTAATAAGATAATTTG 100200
AGCAACTAACAATTTTATATATACATTACAAGTAATTAATAACAAAAAGTAAAGTATTA 100140
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 ATGTACATTGACTTGGTTCAGTTAAACTTGTGGAAACATGTAATCCTTGTAATCCTAGTGG 100020
 AGTAATCTATTTACTTTTAGATTAACTTAAGCATAGTTTGGGATGGCCTATATGATGTTA 99960
 ATAAGACATCACAACTAATCTCCAACGTTGTTTATATTAATGTGCATGTCATATGAAAAT 99900
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 GATTTATGTTCTTGTGGTCCAGTAATCTACAATAGAATGGAAGATGAAGAATTTGCTCC 99780
 AACTCCTTGCATTGATGCAACTCCAACTCCTTGTGTTGATACAACTCCAACTAATGCTAC 99720
 TCAAACTTCTAATGCTCAAACAACAAGATCCACATTCACTCCTCGTCCATGCTACACACC 99660
 TAGAGGTTCAAAGAATGGATCCCTTGTGCCTCCTGAGTTAAACCTACTGTGGGTAT 99600
 R G S K E W I P C C P P E L K P T V G M

 GCCTTTTGATTCTCTTGTGATGGTATTGAGTTTTATAAAGCTTATGCTCGGTTTTGTGG 99540
 P F D S L V D G I E F Y K A Y A R F C G

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 F V E R L A T E K K D K D G H V Y L K Y

 TATTTATTGTAATAACAAGGATTTAAAGAAGATGGTGAGAGTAAAGCAAAGAGTAAACC 99420
 I Y C N K Q G F K E D G E S K A K S K P

 TATAACATGCTCTAGTTCTCGTAAAGAAGTGAAATCGTGCTGGTTGTCAAGCAAGGAT 99360
 I T C S S S R K R S V N R A G C Q A R I

 AGGTTTGGAGAAAACGTAGTGATGGAAAATTCATGGTATATCTTTTTTCATGAATCGCATAA 99300
 G L R K R S D G K F M V Y L F H E S H N

 CCATGTATTTGCCACTCCCAAAGCATGCATTTTCTTAAAAATTCTCGAACTTGACTCT 99240
 H V F A T P K S M H F L K N S R N L T L
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 A H K K F I F D N S R L N V G P N K S F

 TAGATTGATAAAAGAGCATGTAGGAGGATATGAGAATGTAGGGGCGTCATTGGTTGATTT 99120
 R L I K E H V G G Y E N V G A S L V D F

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 K N F S R D V K A Y I Q D V D A D M F V

AAATAATTTCAAAGAAAAGGCAACTAGTAGTGGTGGAGGGTTTTTCTTTGACTATTGTGG 99000
 N N F K E K A T S S G G G F F F D Y C G
 D

ATGAAAATCGACATTTGACTAGAGTTTTTTGGGCGGATGCCATTAGTAGGAAAAACTATT 98940
 *
 E N R H L T R V F W A D A I S R K N Y S

CTCTTTTTGGTGATATGGTATCATTGATACAACCTTTTGATACCAATAAATATTGTATGG 98880
 L F G D M V S F D T T F D T N K Y C M V

TTCTTGCCCCATTTACTGGAGTTGATCATCATGAAAATGTGTTACTTTTTGGTATGGGCC 98820
 L A P F T G V D H H G K C V T F G M G L

TACTTGCAAAGGAAGATATAGAATCTTTCGTTTGGTTGTTTGAATGTTTTTTAAAAGCTA 98760
 L A K E D I E S F V W L F E C F L K A M

TGGGTAATTGTCAACCTACTTGTCTCATTACTGATCAAGATGCAGCAATGAAACAAGCAA 98700
 G N C Q P T C L I T D Q D A A M K Q A I

TTGAAAAAGTTTTCTTTAAGACAATTCATAGACTTTGCGTGTGGCATATCATGAAAAAAG 98640
 E K V F F K T I H R L C V W H I M K K V

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 P V K V G P D M C R T T K F L E K L N A

CTGTTGTTTGGGATAGAGACCTTGAGCCAGATGAATTTGACAAAGGGTGAATTCTGTGA 98520
 V V W D R D L E P D E F D K G W N S V M

TGCGTGAATTTGGCTTAGAAGATGATGGGTGGTTTACTGATATGTTTAAACATAAGACATA 98460
 R E F G L E D D G W F T D M F N I R H M

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 W I P S Y F R N L F M G G I L R S T Q I

TTTCAGAGTCTGAGAACAACCTTTTCACTTTGTTTACAAATGCAAATCTTCTTCTAGTTG 98340
 S E S E N N F F T L F T N A N L L L V E

AGTTATGGTTTTCCGGATAGAATCAGCTATGGATGCTCAAAGACATGCCCAAAACAAACTCA 98280
 L W F R I E S A M D A Q R H A Q N K L N

ACTCAGATTCTAAGAATTCCATGCCTCGTCTTATTACTCCTCCTTTAGAGAAGCATG 98220
 S D S K N S M P R L I T P L P L E K H A

CATCTCTTGTTTTACACACACAATATGTTCTACAAATTTTCAGAGAGAGTTTTCAAATGCAA 98160
 S L V Y T H N M F Y K F Q R E F Q N A I

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 F N C G V Y K V Q I E E A V E E F E V A

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 D N T R K K T Y H V T F I P D S H D C F

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 C S C K M F E S M G I L C R H V L F V I

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 A S K K P I F D F C E D F D G I E I N K

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 K K K V V G D L W S K F F S C V S L V E

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 N N T D H L E L L L E R L S A F E E E M

TGAAACCTGGAAAAGAAAATGTTGAGCAACAATCTAAAGACAAGCATATTGAGTTGTTTCG 97680
 K P G K E N V E Q Q S K D K H I E L F V

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 G S N I V S G G I L P P N K S S N K G S

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 G T G K R K K S D Q E I A I E A S N K K

AGGAGAGACTGTGTAGATCATGTGGTCAACTTTCAACTCATGATAGTCGTAATTGTCTCTG 97500
 E R L C R S C G Q L S T H D S R N C P D

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 K K K N L E *

TCAAATGAGAGTTTCTTTTCATTCATTTATTAATAAATTATTTATCACAATTTTTGTTTC 97380
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 TCCACCTTTTTGTGTTACCTTTTAGTGCATTCTTTGACTAGGACACTGATTCATTGGTAA 96900
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 TACGAGAGAGTATTAATCTTTTTAGTTTGATTTTATGTATTATTTTCAAATATCTTTTTA 96780
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 CTTATACATTGATAAGGGTAACTAATAAGATAAGTTGAGCAACTAAAGATTTTTACATTG 96660
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AGTAAATAATAACACACGTTACATTGACTATCTCCTTTTCATCTTTATCAAATAAAAAATA 96300

FIGURE S2.– Nucleotide sequence of *bvMULE-1*. Numbers of nucleotide residues are coordinated with those of BAC clone 5A3. Two open reading frames that exhibit sequence homology to transposases are indicated with putative translation products. The 115-bp and 111-bp repeated sequences are indicated by single and double lines, respectively.