



pCMV-SPORT6-FosB

| Absent Sites | 0 | AfIII,AleI,AscI,AsiSI,BaeI,BaeI',BamHI,BglII,BmgBI,BsiWI,BssHII,BstBI,BstZ17I,EcoRV,Fall,Fall',FseI,FspAI,MauBI,NruI,Pacl,PmeI,PshAI,SbfI,SexAI,SfiI,SgrDI,SpeI,SphI,Swal,Tth111I |
|--------------|---|---|
| AarI | 1 | 2229 (8204) |
| AbsI | 1 | 4582 (8204) |
| AccI | 1 | 1582 (8204) |
| AgeI | 1 | 709 (8204) |
| AhdI | 1 | 6872 (8204) |
| BarI | 1 | 4710 (8204) |
| BarI' | 1 | 4742 (8204) |
| BbeI | 1 | 2251 (8204) |
| BcgI | 1 | 6368 (8204) |
| BcgI' | 1 | 6334 (8204) |
| BclI | 1 | 4975 (8204) |
| BmtI | 1 | 4703 (8204) |
| BsaBI | 1 | 4980 (8204) |
| BspMI | 1 | 2229 (8204) |
| BstEII | 1 | 1472 (8204) |
| Clal | 1 | 5215 (8204) |
| CspCI | 1 | 317 (8204) |
| CspCI' | 1 | 352 (8204) |
| EagI | 1 | 4563 (8204) |
| EcoNI | 1 | 2675 (8204) |
| EcoRI | 1 | 2909 (8204) |
| HindIII | 1 | 4594 (8204) |
| KasI | 1 | 2247 (8204) |
| MfeI | 1 | 5068 (8204) |
| MreI | 1 | 2244 (8204) |
| MscI | 1 | 3216 (8204) |
| NarI | 1 | 2248 (8204) |
| NheI | 1 | 4699 (8204) |
| NotI | 1 | 4563 (8204) |
| NsiI | 1 | 8202 (8204) |
| PciI | 1 | 7802 (8204) |
| PfoI | 1 | 3509 (8204) |
| PspXI | 1 | 4582 (8204) |
| Psrl | 1 | 4386 (8204) |
| Psrl' | 1 | 4354 (8204) |
| PstI | 1 | 3959 (8204) |
| RsrII | 1 | 712 (8204) |
| SalI | 1 | 1581 (8204) |
| SanDI | 1 | 929 (8204) |
| SapI | 1 | 7919 (8204) |
| Scal | 1 | 6391 (8204) |
| SfoI | 1 | 2249 (8204) |
| SgrAI | 1 | 2244 (8204) |
| SnaBI | 1 | 281 (8204) |
| SrfI | 1 | 1991 (8204) |
| StuI | 1 | 658 (8204) |
| XhoI | 1 | 4582 (8204) |

pCMV-SPORT6-FosB

5' acagaaactttgccattgttggAACGGGacgttGtctccttccccgagcttccccggaCagcgtactttgaggactcgctcagctcaccggggactcccac
 o ++++++
 3' tgtctttgaaacggtAACaacttgcctgcaacgaggaaggggctcgaagggcctgtcgcatgaaactcctgagcgagtcgagtgccctgaggggtg
 o
FosB Human cDNA
 1200

5' ggctcaccCGGacttgaccttacttccccAACCCGGccatagccttggttcccgggacctcagcgtggtcacaggggccccctgtgccagggaa
 o ++++++
 3' ccgagtggggctgAACctggaatgaaggggtgggcccgtatcggAACcgaagggcctggagtcgaccagtgtcccggggggacacgggtccctt
 o
FosB Human cDNA
 1300

5' atgtttcaggctttcccCGgagactacgactccggctcccgggtgcagctcctcaccctctgccgagtcctcaatatctgtcttcggtggactccttcggca
 o ++++++
 3' tacaagtccgaaagggcctctgatgtgaggccgagggccacgtcgagagtgaggagacggctcagagttatagacagaagccacctgaggaagccgt
 o
FosB Human cDNA
 1400

FosB ORF

5' gtccaccacCGcgcggcctcccaggagtgcgcgggtctcggggAAATGCCGGTtcttcgtgccaccggtcaccgcatcacaaccagccaggacct
 o ++++++
 3' caggtgggtggcggcgccggagggctctcacgCGCCagagccctttacCGGCCaaggaagcaccgggtgccagtggcgctagtgtggctcggtcctgga
 o
FosB Human cDNA
 1500

BstEII

FosB ORF

5' ccagtggcttGTGcaaccacacctcatcttccatggccagtcaccaggggCagccactggcctcccagccccggctcgaccacctacgacatgccg
 o ++++++
 3' ggtcaccgaacacgttgggtgggagtagagaaggtaccgggtcagggctcccgtcggtgaccggagggctcgggggCCagcagctgggatgctgtaccgc
 o
FosB Human cDNA
 1600

Sall
 Accl

FosB ORF

5' ggaaccagctactccacaccagcagatgagtggctacagcagtgccggagcgagtgccagtggtgggcttccaccagcggAACTaccagtgggcctgggc
 o ++++++
 3' ccttggtcgatgaggtgtggtccgactcacagatgtcgtcaccgctcgctcaccgctcaccaccCGAAGGTGTCGCTTgatggtcaccCGGACCg
 o
FosB Human cDNA
 1700

FosB ORF

5' ctgcccGCCagcccagcccggcctaggagaccccGagaggacgctcaccCCagaggaagaggagaagcgaagggtcgcggggaacgaaataaact
 o ++++++
 3' gacggcgggctcgggctcgggcccggatcctctggggctcctcctcgcagtggggtctccttctcctcttcgcttcccacCGGGCCcttgctttatttga
 o
FosB Human cDNA
 1800

FosB ORF

5' agcagcagctAAATgCAGgaaccggcgagggagctgaccgaccgactccagggcgagacagatcagttggaggaagaaaagcagagctggagtcggag
 o ++++++
 3' tcgtcgtcgatttacgtccttgGCCgcctccctcgactggctggctgaggtccgcctctgtctagtcaacctccttcttttctcgtctcagcctcagcctc
 o
FosB Human cDNA
 1900

FosB ORF

5' atcggcGagctccaaaaggagaaggAAcgtctggagtttTGTGctggctggcccacAAACCgggctgcaagatcccctacgaagaggggccccgggccc
 o ++++++
 3' tagcggctcgaggtttcctctccttgcagacctCAAACacgaccaccgggtgttggcccGacgtctcaggggatgcttctcccgggccccggcccgg
 o
FosB Human cDNA
 2000

SrfI

FosB ORF

pCMV-SPORT6-FosB

| | | |
|----|---|------|
| 5' | cgctggcggaggtgagagatttgcgggctcagcaccggctaaggaagatggcttcagctggctgctgccgccccgccaccaccgccctgccctcca | |
| o | + | |
| 3' | gcgaccgcctccactctctaaacggcccagtcgtagccgattccttaccgaagtcgaccgacgacggcgggggcggtgggaggggacgggaaggt | 2100 |
| | FosB Human cDNA | |
| o | FosB ORF | |
| o | | |
| 5' | gaccagccaagacgcaccccccaacctgacggcttctctctttacacacagtgaagttcaagtctcgggacccttccccgttgtaacccttcgtac | |
| o | + | |
| 3' | ctggtcgggtctgcgtggggggtggactgccgaagagagaaatgtgtgtcacttcaagttcaggagccgctgggaaggggcaacaattgggaagcatg | 2200 |
| | FosB Human cDNA | |
| o | FosB ORF | |
| o | | |
| o | | |
| 5' | acttcttcggttgctcctcacctgcccggaggtctccgcgctcgcggcgcccaacgcaccagcggcagtgaccagccttcgatccctgaactcgcct | |
| o | + | |
| 3' | tgaagaagcaaacaggagtgacgggctccagagggcgcaagcggccgcgggttgctgtgctcactggtcggaaggttaggggacttgagcggga | 2300 |
| | FosB Human cDNA | |
| o | FosB ORF | |
| o | | |
| 5' | ccctcctcgctcgggtaactctttagacacacaaaacacacacatgggggagagagacttggaaaggaggaggaggagaaggaggagagagaga | |
| o | + | |
| 3' | gggaggagcgagccacttgagaaatctgtgtgtttgtttgtgtgtaacccctctctgaaccttctcctcctcctcctcctcctcctcctcctcct | 2400 |
| | FosB Human cDNA | |
| o | FosB ORF | |
| o | | |
| 5' | ggggaagagacaaagtgggtgtgtggcctccctggctcctccgtctgaccctctgcggcactgcccactgccatcggacaggaggattccttgtgttt | |
| o | + | |
| 3' | ccccttctctgttccaccacacaccggaggggaccgaggagcagactgggagacgcgggtgacgcggtgacggttagcctgtcctcctaaggaacacaaa | 2500 |
| | FosB Human cDNA | |
| o | | |
| 5' | tgtcctgcctctgtttctgtgccccggcgaggcggagagctggtgacttggggacagggggtgggaaggggatggacacccccagctgactgttggc | |
| o | + | |
| 3' | acaggacggagaaacaaagacacggggccgctccggcctctgcaccactgaaacccctgtccccacccttccccctacctgtgggggtcagctgacaaccg | 2600 |
| | FosB Human cDNA | |
| o | | |
| o | | |
| 5' | tctctgacgtcaaccacagctctggggatgggtggggagggggcggggtgacgccacccttcgggcagtcctgtgtgaggatgaagggagcgggggtggga | |
| o | + | |
| 3' | agagactgcagttgggttcgagaccctaccacccctcccccgcccactgcccgtggaagccctcaggacacactcctacttccctgccccaccct | 2700 |
| | FosB Human cDNA | |
| o | | |
| 5' | ggtaggctgtggggtgggctggagtctctccagagagctcaacaaggaataatgccactccctacccaatgtctcccacccccacccttttttgggg | |
| o | + | |
| 3' | ccatccgacacccccaccgacactcaggagaggtctctccgagtgttctcttttacggtgagggatgggttacagaggggtgtgggtgggaaaaaacccc | 2800 |
| | FosB Human cDNA | |
| o | | |
| 5' | tgcccagggtgggttccctgcactcccacacttagcttattgatcccacatttccatgggtgtgagatcctcttactctgggcagaagtgagcccccc | |
| o | + | |
| 3' | acgggtccaaccaaagggacgtgagggctggaatcgaataactagggtgtaaaaggtaccacactctaggagaaatgagaccctcttactcctggggggg | 2900 |
| | FosB Human cDNA | |
| o | | |
| o | | |
| 5' | ttaaagggaattcgatgccccctagaataatctcatccccaccgacttctttgaaatgtgaacgtccttcttactgtctagccactccctccc | |
| o | + | |
| 3' | aattcccttaagctacggggggtatctatttagagtaggggggtgggctgaagaaaactttacacttcaggaaggaactgacagatcggtgagggaggg | 3000 |
| | FosB Human cDNA | |

pCMV-SPORT6-FosB

5' agaaaaactggctctgattggaatttctggcctcctaaggctccccaccgaaatcagccccagccttgtttctgatgacagtgtatccaagacc
 3' tcttttgaccgagactaacctaaagaccggaggattccgaggggtgggcttttagtcgggggtcggaacaaagactactgtcacaatagggttctggg
 FosB Human cDNA

5' tgccccctgccagccgacctcctggccttctcggtgggocgctctgatttcaggcagcaggggctgctgtgatgccgtcctgctggagtgattatac
 3' acgggggacggtcggctgggaggaccggaaggagcaaccggcgagactaaagtccgtcgtccccgacgacactacggcaggacgacctactaaatag
 FosB Human cDNA

MscI

5' tgtgaaatgagttggccagattgtgggggtgcagctgggtggggcagcacacctctgggggataatgtcccactcccgaagccttctcctcggtctccc
 3' acactttactcaaccggctctaacaccccacgtcgaccaccccctcgtgtggagacccccctattacaggggtgagggtcttcgaaaggagccagagg
 FosB Human cDNA

5' ttccgtccatcccccttcttctcccctcaacagtgagttagactcaagggggtgacagaaccgagaagggggtgacagtccctcatccacgtggcctct
 3' aaggcaggtagggggaagaaggaggggagtgtcactcaatctgagttccccactgtcttggtcttccccactgtcaggaggtaggtgcaccggaga
 FosB Human cDNA

5' ctctctctcctcaggaccctcagccctggccttttctttaaggctccccgaccaatccccagcctaggacgccaacttctcccccccttggccctca
 3' gagagagaggagtctgggagtcgggaccggaaaagaaattccaggggctggtaggggtcggatcctgctggttgaagaggggtggggaaccggggagt
 FosB Human cDNA

PfoI

5' catcctctccaggaaggcagtgaggggctgtgacattttccggagaagatttcagagctgaggctttggtacccccaaaccccccaatatttttgactg
 3' gtaggagaggtccttccgtcactccccgacactgtaaaaaggcctcttctaaagtctcgactccgaaaccatgggggttgggggtataaaaacctgac
 FosB Human cDNA

5' gcgactcaaggggctggaatctcatgattccatgcccagtcgcccacccctgaccatggttttggtctctccaccccgcgctccctgcgcttcac
 3' cgtctgagttccccgaccttagagtactaaaggtacgggctcagcgggtagggactggtagccaaaaccgagaggggtggggggcaaggacgcgaagtag
 FosB Human cDNA

5' tcatgaggatttcttatgaggcaaatttatatttttaatatcggggggtggaccacgcccctccatccgtgctgcatgaaaaacattccacgtgcc
 3' agtactcctaaagaaatactccgtttaataataaaaaattatagccccacctggtagggcgggaggtaggcacgactacttttgtaagggtgcacgg
 FosB Human cDNA

5' cctgtgcgctctcccacctgatcccagaccattccttagctatttatcccttctcggttccgaaaggcaattatatctattatgtataagtaa
 3' ggaacagcgcagagggtaggactagggctcgggtaaggaatcgataaatagggaaggaccaaaggcttccgttaatatagataatacatattcatt
 FosB Human cDNA

PstI

5' atataatataatgagtggtgtgtgctgctgcgctgagtggtgagcgtctctgcagcctcggcctagggtcacgctggccctcaaagcgagccgttga
 3' tataataatatactacacacacacgcacgcgactcacacactcgcaagacgtcggagccggatccagtgaaccgggagtttcgctcggcaact
 FosB Human cDNA

5' attgaaactgcttctagaaactctggctcagcctgtctcgggctgaccttttctgatcgtctcggcccctctgattgttcccagatggtctctccct
 3' taaccttgacgaagatcttgagaccgagtcggacagagcccactgggaaagactagcagagccgggagactacaagggtaccagagagagggga
 FosB Human cDNA

5' ctgtcttttctcctccgctgtgtccatctgacgcttttcaactgtctccttctgactgtccctgccaatgctccagctgtcgtctgactctgggttcg
 3' gacagaaaaggaggcggacacaggtagactggcaaaagtgaacagaggaaagactgacagggacggttacaggtcgacagcagactgagaccaagc
 FosB Human cDNA

pCMV-SPORT6-FosB

5' ttggggacatgagatTTTTTTTTTgtgagtgagactgagggatcgtagatTTTTTacaatctgtatctttgacaattctgggtgagtgagagtggtg
 4300
 3' aaccctgtactctaaaaataaaaacactcactctgactccctagcatctaaaaatgttagacatagaaactgttaagaccacgctcacactctcacac
 FosB Human cDNA

5' agcagggttgctcctgccaaccacaattcaatgaatccccgacccccctaccccatgctgtacttgggttctctTTTTTgtatTTTgcatctgaccccg
 4400
 3' tcgtcccgaacgaggacggttgggttaagttacttaggggtgggggatgggtacgacatgaacaccaagagaaaaacataaaacgtagactggggc
 FosB Human cDNA

5' gggggctgggacagattggcGatggggcgtcccctctccccttgggtctgactggtgccaataaaaagctcttaaaaacgcaAAAAAAAAAAAAAAAAA
 4500
 3' cccccgacctgtctaaccgCtaccggcaggggagagggaaccaagacgtgacaacggtatTTTTcgagaatTTTTTgCGTTTTTTTTTTTTTTTTT
 FosB Human cDNA



5' AAAGggcggcgcgctctagagtatccctcgaggggccaagcttac
 4600
 3' TTCCcgccggcgagatctcatagggagctccccgggttcgaatg

5' gcgtagccagcttcttgtacaaagtggcctatagtgagtcgattataagctaggcactggcgcgcttttacaacgctgtagctgggaaaactgct
 4700
 3' cgatgggtcgaaagaacatgttccaccagggatatcactcagcataaatatcgatccgtgaccggcagcaaaatggtgcagcactgacccttttgacga
 attB2 Gateway cloni... recombination site

5' agcttgggatcttTgtgaaggaaccttacttctgtgggtgtgacataattggacaaactacctacagagatttaagctctaaggtaaatataaaatTTT
 4800
 3' tcgaaccctagaaacacttccctggaatgaagacaccacactgtattaacctgTtgatggatgTctctaaatttcgagattccatttatatTTTaaaaa

5' aagtgtataatgTgttaaactagctgcatatgcttGctgcttgagagTtttGcttactgagatgatttatgaaaatattatacacaggagctagtgatt
 4900
 3' ttcacatattacacaatttgatcgacgtatacgaacgcaactctcaaaacgaatgactcactactaaatacttttataaatatgTgtcctcgatcactaa

5' ctaattgTttgTgatttttagattcacagTcccaggctcatttcaggccccctcagTcctcacagTctgttcatgatcataatcagccataccacatttg
 5000
 3' gattaacaaacacataaaatctaagtgcagggttccgagtaaagtccggggagtcaggagTgtcagacaagTactagTattagTcggtatggTgTaaac

5' tagaggTtttactTgcttTaaaaaacctcccacacctcccctgaaactgaaacataaaatgaatgcaattgTgtgTtaactTgtttattgCagctta
 5100
 3' atctccaaaatgaacgaaatTTTTTggagggtgTggaggggactTggactTtTgattTtactTactgTtaacaacaacaattgaaacaaataacgTcgaaT

5' taatggTtacaaataaagcaatagcatcacaatTtcacaataaagcattTTTTTcactgcatTctagTtTgtgTtTgTccaaactcatcaatgTatct
 5200
 3' attaccaatgTttattTcgTtatcgtagTgtTaaagTgtttattTcgTaaaaaaagTgacgTaaagTcaaacaccaaacaggTttgagTtagTtacataga

5' tatcatgTctggatcgatcctgcatTaatgaatcggccaacgcgcggggagggcgTttcgctattggctggcGtaatagcgaagaggccccgaccgat
 5300
 3' atagTcacagacctagctaggacgTaatTactTtagccggtTgCgcgccccctctccgcaaaacgataaccgaccgCattatcgTtctccgggGgtggcTta



pCMV-SPORT6-FosB

5' acgacgagcgtgacaccacgatgctgtagcaatggcaacaacgttgcgcaactattaactggcgaactactactctagcttccggcaacaattaat 6700
 o ++++++
 3' tgctgctcgcactgtggtgctacggacatcgttaccggttgtgcaacgcgcttgataaattgaccgcttgatgaaatgagatcgaaggccgcttgtaatta
 o **Amp resistance**

5' agactggatggaggcggataaagtgcaggaccacttctgcgctcggccttccggctggctggttattgctgataaatctggagccggtgagcgtggg 6800
 o ++++++
 3' tctgacctacctcgcctatttcaacgctcctggtgaagacgcgagccgggaaggccgaccgaccaaataaacgactatttagacctcggccactcgcaccc
 o **Amp resistance**

5' tctcgcggtatcattgcagcactggggccagatggtaagccctcccgtatcgtagtatctacacgacggggagtcaggcaactatggatgaacgaaata 6900
 o ++++++
 3' agagcgccatagtaacgctcgtgaccccggtctaccattcgggaggccatagcatcaatagatgtgctgcccctcagtcgcttgatacctacttgctttat
 o **Amp resistance**

5' gacagatcgcctgagataggtgcctcactgattaagcattggtaactgtcagaccaagttactcatatatactttagattgatttaaaacttcattttta 7000
 o ++++++
 3' ctgctagcgactctatccacggagtgactaatcgttaaccattgacagctcgggtcaaagtatgatataatgaatctaactaaatttgaaagtaaaat
 o **Amp resistance** →

5' atttaaaaggatctaggtgaagatcctttttgataatctcatgccataacttcgtataatgtatgctatacgaagtatggcatgaccaaatacccttaa 7100
 o ++++++
 3' taaattttcttagatccacttctaggaaaaactattagagtacggtattgaagcattatcatatagatgcttcaataccgactgggttttagggaatt
 o **loxP**

5' cgtgagtttctgctccactgagcgtcagaccccgtagaaaagatcaaaggatccttcttgagatccttttttctgcgcgtaactctgctgcttgcaaacaa 7200
 o ++++++
 3' gcactcaaaagcaaggtgactcgcagctcggggcatcttttctagtttctagaagaactctaggaaaaaagacgcgcattagacgacgaacgcttggtt

5' aaaaaccaccgctaccagcgggtggtttgtttgcccggatcaagagctaccaactccttttccgaaggtaactggcttcagcagagcgcagataccaaatac 7300
 o ++++++
 3' ttttggtgccgatggtcgccaccaaaacaacggcctagttctcgatggttgagaaaaggcttccattgaccgaagtcgctctcgcgctctatggtttatg

5' tgtccttctagtgtagccgtagtttagccaccacttcaagaactctgtagcacccctacatacctcgtctgctaatcctggttaccagtggtgctgctgcc 7400
 o ++++++
 3' acaggaagatcacatcggcatcaatccggtggtgaagttcttgagacatcgtggcgatgtatggagcagacgattaggacaatggtcaccgacgacgg

5' agtggcgataagtctgtcttaccgggttgactcaagacgatagttaccggataaggcgcagcggctcgggctgaacgggggggtcgtgcacacagccca 7500
 o ++++++
 3' tcaccgctattcagcacagaatggcccaacctgagttctgctatcaatggcctattccgcgctcgccagcccacttgcccccaagcagctgtgctcgggt

5' gcttgagcgaacgacctacaccgaactgagatacctacagcgtgagcattgagaaaagcgcacgcttcccgaaggagaaaggcggacaggtatccggt 7600
 o ++++++
 3' cgaacctcgccttgctggatgtggcttgactctatggatgtcgcactcgttaactccttccggtgccaagggcttccctctttccgctgtccatagcca

5' aagcggcagggcggaaacaggagagcgcacgagggagcttccaggggaaacgcctggtatctttatagtcctgctcgggtttccgcacctctgacttgag 7700
 o ++++++
 3' ttcgccgctccagccttgctctctcgcgctgctccctcgaaggctcccccttgcggaccatagaaatatcaggacagcccaagcgggtggagactgaactc

5' cgtcgatttttgtgatgctcgtcagggggcggagcctatggaaaaacgcagcaacgcggccttttacgggtcctggccttttgcctggtccttttgcctc 7800
 o ++++++
 3' gcagctaaaaaacactacgagcagtcctcccccgcctcggataccttttgcggctcgttgcgccgaaaaaatgccaaggaccggaaaaacgaccggaaaaacgag

5' **PciI**
 |
 acatgttctttcctcgcgttatcccctgattctgtggataaccgattaccgcctttgagtgagctgataccgctcgcgcgagccgaacgaccgagcgcag 7900
 o ++++++
 3' tgtacaagaaaggacgcaataggggactaagacacctatggcataatggcggaaactcactcgcactatggcagcggcgctcggcttgctggctcgcgctc

5' **SapI**
 |
 cgagtcagtgagcaggaagcggagagcgcaccaatacgaacccgcctctccccgcgcttggccgatcattaatgacagagcttgcaattcgcgcgctt 8000
 o ++++++
 3' gctcagtcactcgtccttcgccttctcgcgggttatgcgtttggcggagaggggcccgcgcaaccggctaagtaattacgtctcgaacgttaagcgcgcaa

