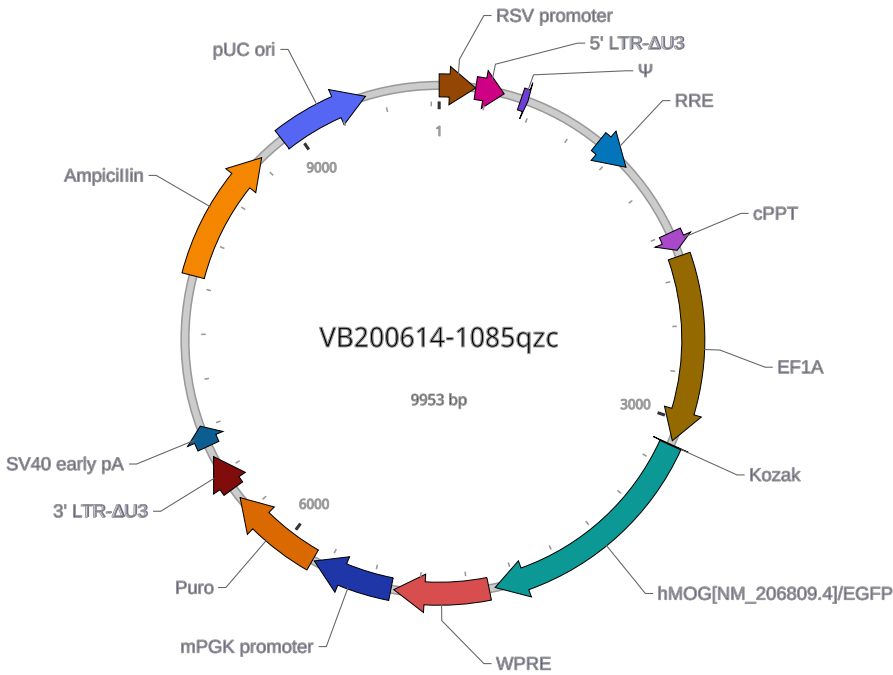


载体基本信息

载体ID	vector ID	VB200614-1085qzc
载体名称	name	pLV[Exp]-Puro-EF1A>hMOG[NM_206809.4]/EGFP
载体大小	vector size	9953 bp
病毒基因组大小	Viral genome size	6478 bp
载体类型	vector type	哺乳动物基因表达慢病毒载体Mammalian lentiviral vector
启动子	promoter	EF1A
ORF		hMOG[NM_206809.4]/EGFP
筛选标记	Selection marker	Puro
质粒拷贝数	Copy times	High
载体抗性	Vector resistance	Ampicillin
克隆宿主	closing cost	VB UltraStable（或其他适用菌株）

载体图谱



载体元件

名称	位置	大小	类型	描述	应用注释
name	position	(bp)	type	discription	annotation
RSV promoter	■ 1-229	229	Promoter	Rous sarcoma virus enhancer/promoter	Strong promoter; drives transcription of viral RNA in packaging cells.

名称 name	位置 position	大小 (bp)	类型 type	描述 Description	应用注释 annotation
5' LTR-ΔU3	■ 230-410	181	LTR	Truncated HIV-1 5' long terminal repeat	Allows transcription of viral RNA and its packaging into virus.
Ψ	■ 521-565	45	Miscellaneous	HIV-1 packaging signal	Allows packaging of viral RNA into virus.
RRE	■ 1075-1308	234	Miscellaneous	HIV-1 Rev response element	Rev protein binding site that allows Rev-dependent nuclear export of viral RNA during viral packaging.
cPPT	■ 1803-1920	118	Miscellaneous	Central polypurine tract	Facilitates the nuclear import of HIV-1 cDNA through a central DNA flap.
EF1A	■ 1959-3137	1179	Promoter	Human eukaryotic translation elongation factor 1 α1 promoter	Strong promoter.
Kozak	■ 3162-3167	6	Miscellaneous	Kozak translation initiation sequence	Facilitates translation initiation of ATG start codon downstream of the Kozak sequence.
hMOG[NM_206809.4]/EGFP	■ 3168-4625	1458	ORF	None	None
WPRE	■ 4664-5261	598	Miscellaneous	Woodchuck hepatitis virus posttranscriptional regulatory element	Enhances virus stability in packaging cells, leading to higher titer of packaged virus; enhances higher expression of transgenes.
mPGK promoter	■ 5280-5790	511	Promoter	Mouse phosphoglycerate kinase 1 promoter	Medium-strength promoter.

名称	位置	大小 (bp)	类型	描述	应用注释
Puro	■ 5803-6402	600	ORF	Puromycin resistance gene	Allows cells to be resistant to puromycin.
3' LTR-ΔU3	■ 6473-6707	235	LTR	Truncated HIV-1 3' long terminal repeat	Allows packaging of viral RNA into virus; self-inactivates the 5' LTR by a copying mechanism during viral genome integration; contains polyadenylation signal for transcription termination.
SV40 early pA	■ 6780-6914	135	PolyA_signal	Simian virus 40 early polyadenylation signal	Allows transcription termination and polyadenylation of mRNA transcribed by Pol II RNA polymerase.
Ampicillin	■ 7868-8728	861	ORF	Ampicillin resistance gene	Allows E. coli to be resistant to ampicillin.
pUC ori	■ 8899-9487	589	Rep_origin	pUC origin of replication	Facilitates plasmid replication in E. coli; regulates high-copy plasmid number (500-700).

Note: 用户添加的元件以红色粗体表示。

载体序列

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1  AATGTAAGTCT TATGCAATAC TCTTGTAGTC TTGCAACATG GTAACGATGA GTTAGCAACA TGCCTTACAA GGAGAGAAAA AGCACCGTGC ATGCCGATTG
101 GTGGAAAGTAA GGTGGTACGA TCGTGCCTTA TTAGGAAGGC AACAGACGGG TCTGACATGG ATTGGACGAA CCACTGAATT GCCGCATTGC AGAGATATTG
201 TATTTAAGTG CCTAGCTCGA TACATAAACG GGTCTCTCTG GTTAGACCAG ATCTGAGCCT GGGAGCTCTC TGGCTAACTA GGAACCCAC TGCTTAAGCC
301 TCAATAAAGC TTGCCTTGAG TGCTTCAAGT AGTGTGTGCC CGTCTGTTGT GTGACTCTGG TAACTAGAGA TCCCTCAGAC CCTTTTAGTC AGTGTGGAAG
401 ATCTCTAGCA GTGGCGCCCG AACAGGGACT TGAAGCGGAA AGGGAACCA GAGGAGCTCT CTCGACGCAG GACTCGGCTT GCTGAAGCGC GCACGGCAAG
501 AGGCGAGGGG CGGCGACTGG TGAGTACGCC AAAAATTTTG ACTAGCGGAG GCTAGAAGGA GAGAGATGGG TGCGAGAGCG TCAGTATTAA GCGGGGAGAG
601 ATTAGATCGC GATGGGAAAA AATTCGGTTA AGGCCAGGGG GAAAGAAAAA ATATAAATTA AAACATATAG TATGGGCAAG CAGGGAGCTA GAACGATTCTG
701 CAGTTAATCC TGGCCTGTTA GAAACATCAG AAGGCTGTAG ACAAATACTG GGACAGCTAC AACCATCCCT TCAGACAGGA TCAGAAGAAC TTAGATCATT
801 ATATAATACA GTAGCAACCC TCTATTGTGT GCATCAAAGG ATAGAGATAA AAGACACCAA GGAAGCTTTA GACAAGATAG AGGAAGAGCA AAACAAAAGT
901 AAGACCACCG CACAGCAAGC GGCCGCTGAT CTTCAGACCT GGAGGAGGAG ATATGAGGGA CAATTGGAGA AGTGAATTAT ATAAATATAA AGTAGTAAAA
1001 ATTGAACCAT TAGGAGTAGC ACCCACCAAG GCAAAGAGAA GAGTGGTGCA GAGAGAAAAA AGAGCAGTGG GAATAGGAGC TTTGTTCTCT GGGTCTTTGG
1101 GAGCAGCAGG AAGCACTATG GGCGCAGCGT CAATGACGCT GACGGTACAG GCCAGACAAT TATTGTCTGG TATAGTGCAG CAGCAGAACA ATTTGCTGAG
1201 GGCTATTGAG GCGCAACAGC ATCTGTTGCA ACTCACAGTC TGGGGCATCA AGCAGCTCCA GGCAAGAATC CTGGCTGTGG AAAGATACCT AAAGGATCAA

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1301	CAGCTCCTGG	GGATTTGGGG	TTGCTCTGGA	AAACTCATTT	GCACCACTGC	TGTGCCTTGG	AATGCTAGTT	GGAGTAATAA	ATCTCTGGAA	CAGATTTGGA
1401	ATCACACGAC	CTGGATGGAG	TGGGACAGAG	AAATTAACAA	TTACACAAGC	TTAATACACT	CCTTAATTGA	AGAATCGCAA	AACCAGCAAG	AAAAGAATGA
1501	ACAAGAATTA	TTGGAATTAG	ATAAATGGGC	AAGTTTGTGG	AATTGGTTTA	ACATAACAAA	TTGGCTGTGG	TATATAAAAT	TATTCATAAT	GATAGTAGGA
1601	GGCTTGGTAG	GTTTAAGAAT	AGTTTTTGCT	GTACTTTCTA	TAGTGAATAG	AGTTAGGCAG	GGATATTAC	CATTATCGTT	TCAGACCCAC	CTCCCAACCC
1701	CGAGGGGACC	CGACAGGCCC	GAAGGAATAG	AAGAAGAAGG	TGGAGAGAGA	GACAGAGACA	GATCCATTCT	ATTAGTGAAC	GGATCTCGAC	GGTATCGCTA
1801	GCTTTTAAAA	GAAAAGGGGG	GATTGGGGGG	TACAGTGCAG	GGGAAAGAAT	AGTAGACATA	ATAGCAACAG	ACATACAAAC	TAAAGAATTA	CAAAAACAAA
1901	TTACAAAAAT	TCAAAATTTT	ACTAGTGATT	ATCGGATCAA	CTTTGTATAG	AAAAGTTGGG	CTCCGGTGCC	CGTCAGTGGG	CAGAGCGCAC	ATCGCCCAAC
2001	GTCCCGGAGA	AGTTGGGGGG	AGGGGTTCGG	AATTGAACCG	GTGCCTAGAG	AAGGTGGCGC	GGGGTAAACT	GGGAAAGTGA	TGTCGTGTAC	TGGCTCCGCC
2101	TTTTTCCCGA	GGGTGGGGGA	GAACCGTATA	TAAGTGCAGT	AGTCGCCGTG	AACGTTCTTT	TTCGCAACGG	GTTTGCCGCC	AGAACACAGG	TAAGTGCCGT
2201	GTGTGGTTCC	CGCGGGCCTG	GCCTCTTTAC	GGGTTATGGC	CCTTGCGTGC	CTTGAATTAC	TTCCACCTGG	CTGCAGTACG	TGATTCTTGA	TCCCGAGCTT
2301	CGGGTTGGAA	GTGGGTGGGA	GAGTTCGAGG	CCTTGCGCTT	AAGGAGCCCC	TTCGCCCTCG	GCTTGAGTTG	AGGCCCTGGC	TGGGCGCTGG	GGCCGCCGCG
2401	TGCGAATCTG	GTGGCACCTT	CGCGCCTGTC	TCGCTGCTTT	CGATAAGTCT	CTAGCCATTT	AAAATTTTTG	ATGACCTGCT	GCGACGCTTT	TTTTCTGGCA
2501	AGATAGTCTT	GTAAATGCGG	GCCAAGATCT	GCACACTGGT	ATTTTCGTTT	TTGGGGCCCG	GGGCGGCGAC	GGGGCCCGTG	CGTCCAGCGC	CACATGTTCT
2601	GCGAGGCGGG	GCCTGCGAGC	GCGGCCACCG	AGAATCGGAC	GGGGGTAGTC	TCAAGCTGGC	CGGCCCTGCT	TGGTGCTTGG	TCTCGCGCCG	CCGTGTATCG
2701	CCCCGCCCTG	GGCGGCAAGG	CTGGCCCGGT	CGGCACCACT	TGCCTGAGCG	GAAAGATGGC	CGCTTCCCGG	CCCTGCTGCA	GGGAGCTCAA	AATGGAGGAC
2801	GCGGCGCTCG	GGAGAGCGGG	CGGGTGAGTC	ACCCACACAA	AGGAAAAGGG	CCTTTCCGTC	CTCAGCCGTC	GCTTCATGTG	ACTCCACGGA	GTACCGGGCG
2901	CCGTCCAGGC	ACCTCGATTA	GTTCTCGAGC	TTTTGGAGTA	CGTCGTCTTT	AGGTTGGGGG	GAGGGGTTTT	ATGCGATGGA	GTTTCCCCAC	ACTGAGTGGG
3001	TGGAGACTGA	AGTTAGGCCA	GCTTGCACT	TGATGTAATT	CTCCTTGAA	TTTGCCCTTT	TTGAGTTTGG	ATCTTGTTTC	ATTCTCAAGC	CTCAGACAGT
3101	GGTTCAAAGT	TTTTTCTTTC	CATTTCAAGT	GTCGTGACAA	GTTTGTACAA	AAAAGCAGGC	TGCCACCATG	GCAAGCTTAT	CAAGACCTCT	TCTGCCCAGC
3201	TGCTCTGCT	CCTTCTCTCT	CCTCCTCTCT	CTCCAAGTGT	CTTCCAGCTA	TGCAGGGCAG	TTCAGAGTGA	TAGGACCAAG	ACACCCTATC	CGGGCTCTGG
3301	TCGGGGATGA	AGTGGAATTG	CCATGTCGCA	TATCTCTCTG	GAAGAACGCT	ACAGGCATGG	AGGTGGGGTG	GTACCGCCCC	CCCTTCTCTA	GGGTGGTTCA
3401	TCTCTACAGA	AATGGCAAGG	ACCAAGATGG	AGACCAGGCA	CCTGAATATC	GGGGCCGGAC	AGAGCTGCTG	AAAGATGCTA	TTGGTGAGGG	AAAGGTGACT
3501	CTCAGGATCC	GGAATGTAAG	GTTCTCAGAT	GAAGGAGGTT	TCACCTGCTT	CTTCCGAGAT	CATTCTTACC	AAGAGGAGGC	AGCAATGGAA	TTGAAAGTAG
3601	AAGATCCTTT	CTACTGGGTG	AGCCCTGGAG	TGCTGGTTCT	CCTCGCGGTG	CTGCCTGTGC	TCCTCCTGCA	GATCACTGTT	GGCCTCATCT	TCCTCTGCCT
3701	GCAGTACAGA	CTGAGAGGAA	AACTTCGAGC	AGAGATAGAG	AATCTCCACC	GGACTTTTGA	TCCCCACTTT	CTGAGGGTGC	CCTGCTGGAA	GATAACCCTG
3801	TTTGTAATTG	TGCCGGTTCT	TGGACCCTTG	GTTGCCCTGA	TCATCTGCTA	CAACTGGCTA	CATCGAAGAC	TAGCAGGGCA	ATTCTTGAA	GAGCTACGAA
3901	ATCCCTTCGT	GAGCAAGGGC	GAGGAGCTGT	TCACCGGGGT	GGTGCCCATC	CTGGTCTGAGC	TGAGACGGCGA	CGTAAACGGC	CACAAGTTCA	GCCTGTCCGG
4001	CGAGGGCGAG	GGCGATGCCA	CCTACGGCAA	GCTGACCTTG	AAGTTCATCT	GCACCACCGG	CAAGCTGCCC	GTGCCCTGGC	CCACCCTCGT	GACCACCTTG
4101	ACCTACGGCG	TGCAGTGCTT	CAGCCGCTAC	CCCGACCACA	TGAAGCAGCA	CGACTTCTTC	AAGTCCGCCA	TGCCCGAAGG	CTACGTCCAG	GAGCGCACCA
4201	TCTTCTTCAA	GGACGACGGC	AACTACAAGA	CCCGCGCCGA	GGTGAAAGTT	GAGGGCGACA	CCCTGGTGAA	CCGCACTCAG	CTGAAGGGCA	TCGACTTCAA
4301	GGAGGACGGC	AACATCTCTG	GGCACAAGCT	GGAGTACAAC	TACAACAGCC	ACAACGTCTA	TATCATGGCC	GACAAGCAGA	AGAACGGCAT	CAAGGTGAAC
4401	TTCAAGATCC	GCCACAACAT	CGAGGACGGC	AGCGTGACGC	TCGCCGACCA	CTACCAGCAG	AACACCCCCA	TCGGCGACGG	CCCCGTGTGT	CTGCCCGACA
4501	ACCACTACCT	GAGCACCCAG	TCCGCCCTGA	GCAAGAGCCC	CAACGAGAA	CGCGATCACA	TGCTCTGTCT	GAGATTCGTG	ACCGCCCGCG	GGATCACTCT
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4701	TTGACTGGTA	TTCTTAACTA	TGTTGCTCCT	TTTACGCTAT	GTGGATACGC	TGCTTTAATG	CCTTTGTATC	ATGCTATTGC	TTCCCGTATG	GCTTTCATTT
4801	TCTCTCTCTT	GTATAAATCC	TGTTGCTGTG	CTCTTTATGA	GGAGTTGTGG	CCCGTTGTCA	GGCAACGTGG	CGTGGTGTGC	ACTGTGTTTG	CTGACGCAAC
4901	CCCCACTGGT	TGGGGCATTG	CCACCACCTG	TCAGCTCCTT	TCCGGGACTT	TCGCTTTCCC	CCTCCCTATT	GCCACGGCGG	AACTCATCGC	CGCCTGCCTT
5001	GCCCGCTGCT	GGACAGGGGC	TCGGCTGTTG	GGCACTGACA	ATTCCGTGGT	GTTGTGCGGG	AAGCTGACGT	CCTTTCCATG	GCTGCTCGCC	TGTGTTGCCA
5101	CCTGGATTCT	GCGCGGGACG	TCCTTCTGCT	ACGTCCCTTC	GGCCCTCAAT	CCAGCGGACC	TTCCTTCCCG	CGGCCCTGCT	CCGGCTCTGC	GGCCTCTTCC
5201	GCGTCTTCGC	CTTCGCCCTC	AGACGAGTCG	GATCTCCCTT	TGGGCCGCGT	CCCCGCATCG	GGAATTCCCG	CGGTTCCGAAT	TCTACCGGGT	AGGGGAGGGC
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5401	GTAGGCGCCA	ACCGGCTCCG	TTCTTTGGTG	GCCCTTTCGC	GCCACCTTCT	ACTCCTCCCC	TAGTCAGGAA	GTTCCCCCCC	GCCCCGACGC	TCGCGTCTGT
5501	CAGGACGTGA	CAAATGGAAG	TAGCACGTCT	CACTAGTCTC	GTGCAGATGG	ACAGCACCGC	TGAGCAATGG	AAGCGGGTAG	GCCTTTGGGG	CAGCGGCCAA
5601	TAGCAGCTTT	GCTCCTTCGC	TTTCTGGGCT	CAGAGGCTGG	GAAGGGGTGG	GTCCGGGGGG	GGGCTCAGGG	GCGGGCTCAG	GGGCGGGGCG	GGCGCCCGAA
5701	GGTCTCCGG	AGGCCCGGCA	TTCTGCACGC	TTCAAAAGCG	CACGTCTGCC	GCGCTGTTCT	CCTCTTCTCT	ATCTCCGGGC	CTTTCGACCT	CACGTGGCCA
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6001	GCGGACGACG	GCGCCGCGGT	GGCGGTCTGG	ACCACGCGCG	AGAGCGTCTG	AGCGGGGGCG	GTGTTCTGCG	AGATCGGCCC	GCGCATGGCC	GAGTTGAGCG
6101	GTTCCCGGCT	GGCCGCGCAG	CAACAGATGG	AAGGCTCCTT	GGCGCCGCAC	CGGCCCAAGG	AGCCCGCGTG	GTTCTTGGCC	ACCGTCGGCG	TCTCGCCGGA
6201	CCACCAGGGC	AAGGGTCTGG	GCAGCGCCGT	CGTGCTCCCC	GGAGTGGAGG	CGGCCGAGCG	CGCCGGGGTG	CCCGCCTTCC	TGGAGACCTC	CGCGCCCGCG
6301	AACCTCCCTT	TCTACGAGCG	GCTCGGCTTC	ACCGTCACCG	CCGACGTCGA	GGTGCCCGAA	GGACCGCGCA	CCTGGTGCAT	GACCCGCAAG	CCCGGTGCCT
6401	GAGGTACCTT	TAAGACCAAT	GACTTACAAG	GCAGCTGTAG	ATCTTAGCCA	CTTTTAAAAA	GAAAAGGGGG	GACTGGAAGG	GCTAATTAC	TCCCAACGAA
6501	GACAAGATCT	GCTTTTTGCT	TGTAAGTGGT	CTCTCTGGTT	AGACCAGATC	TGAGCCTGGG	AGCTCTCTGG	CTAACTAGGG	AACCACCTGC	TTAAGCTCTA
6601	ATAAAGCTTG	CCTTGAGTGC	TTCAAGTAGT	GTGTGCCCGT	CTGTTGTGTG	ACTCTGGTAA	CTAGAGATCC	CTCAGACCCT	TTTAGTCAGT	GTGGAAAATC
6701	TCTAGCAGTA	GTAGTTTCATG	TCATCTTATT	ATTTCAGTATT	TATAAATTGC	AAAGAAATGA	ATATCAGAGA	GTGAGAGGAA	CTTGTTTATT	GCAGCTTATA
6801	ATGGTTACAA	ATAAAGCAAT	AGCATCACAA	ATTTACAAAA	TAAAGCATTT	TTTTCACTGC	ATTCTAGTTG	TGGTTTGTCC	AAACTCATCA	ATGTATCTTA
6901	TCATGTCTGG	CTCTAGCTAT	CCCGCCCTTA	ACTCCGCCCA	TCCCGCCCTT	AACTCCGCCC	AGTTCCGCCC	ATTCTCCGCC	CCATGGCTGA	CTAATTTTTT

7001 TTATTTATGC AGAGGCCGAG GCCGCCTCGG CCTCTGAGCT ATTCCAGAAG TAGTGAGGAG GCTTTTTTTGG AGGCCTAGGG ACGTACCCAA TTCGCCCTAT
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7201 CTTTCGCCAG CTGGCGTAAT AGCGAAGAGG CCCGCACCGA TCGCCCTTCC CAACAGTTGC GCAGCCTGAA TGGCGAATGG GACGCGCCCT GTAGCGGCGC
7301 ATTAAGCGCG GCGGGTGTTG TGGTTACGCG CAGCGTGACC GCTACACTTG CCAGCGCCCT AGCGCCCGCT CTTTCGCTT TCTTCCCTTC CTTTCTCGCC
7401 ACGTTGCGCG GCTTTCCCGG TCAAGCTCTA AATCGGGGGC TCCCTTTAGG GTTCCGATTG AGTGCTTTAC GGCACCTCGA CCCCCAAAAA CTTGATTAGG
7501 GTGATGGTTC ACGTAGTGGG CCATCGCCCT GATAGACGGT TTTTCGCCCT TTGACGTTGG AGTCCACGTT CTTTAATAGT GGACTCTTGT TCCAAACTGG
7601 AACAACTC AACCCATCTC CGGTCTATTC TTTTGATTTA TAAGGGATTT TGCCGATTTC GGCTATTGG TTAATAAATG AGTGATTTA ACAAAAATTT
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9701 CGTTGGCCGA TTCATTAATG CAGCTGGCAC GACAGGTTTC CCGACTGGAA AGCGGGCAGT GAGCGCAACG CAATTAATGT GAGTTAGCTC ACTCATTAGG
9801 CACCCAGGC TTTACACTTT ATGCTTCCGG CTCGTATGTT GTGTGGAATT GTGAGCGGAT AACAATTTCA CACAGGAAAC AGCTATGACC ATGATTACGC
9901 CAAGCGCGCA ATTAACCTC ACTAAAGGGA ACAAAGCTG GAGCTGCAAG CTT

限制性内切酶酶切方案

酶切位点 restriction enzyme cutting site	位置 position	片段 (bp) fragments
XhoI	2925	9953
XmnI	621, 2259, 8056	1638, 5797, 2518
NcoI	3167, 5077, 6982	1910, 1905, 6138
ApaLI	4878, 7984, 9230	3106, 1246, 5601
AflII	294, 2339, 6591	2045, 4252, 3656
ApaLI+XhoI	2925, 4878, 7984, 9230	1953, 3106, 1246, 3648
ApaLI+NcoI	3167, 4878, 5077, 6982, 7984, 9230	1711, 199, 1905, 1002, 1246, 3890
ApaLI+XmnI	621, 2259, 4878, 7984, 8056, 9230	1638, 2619, 3106, 72, 1174, 1344
ApaLI+AflII	294, 2339, 4878, 6591, 7984, 9230	2045, 2539, 1713, 1393, 1246, 1017