

pMLB-61 Full-length Sequence

GAATTGGCCGGCCACTACCGCGTGTAGTCTTATGCAATACTCTTGTAGTCTTGAACATGGTAACGATGAGTTAGCAACATGCCTTACAAG
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 AACCTATAAAAATAGGCGTATCACGAGGCCCTTTCGTCTTCAA

O-Cutters

| # | Enzyme | Specificity |
|----|--------|----------------|
| 1 | Acc65I | G GTAC_C |
| 2 | AgeI | A CCGG_T |
| 3 | Ascl | GG CGCG_CC |
| 4 | AsiSI | GCG_AT CGC |
| 5 | AvrII | C CTAG_G |
| 6 | BclI | T GATC_A |
| 7 | BlpI | GC TNA_GC |
| 8 | BmgBI | CAC_GTC |
| 9 | BmtI | G_CTAG_C |
| 10 | BsiWI | C GTAC_G |
| 11 | BsrGI | T GTAC_A |
| 12 | BstEII | G GTNAC_C |
| 13 | BstXI | CCAN_NNNN NTGG |
| 14 | Bsu36I | CC TNA_GG |
| 15 | DrallI | CAC_NNN GTG |
| 16 | EcoRV | GAT_ATC |
| 17 | KpnI | G_GTAC_C |
| 18 | NheI | G CTAG_C |
| 19 | NsiI | A_TGCA_T |

| | | |
|----|--------|-------------------|
| 20 | PaeR7I | C TCGA_G |
| 21 | PmlI | CAC_GTG |
| 22 | PspXI | VC TCGA_GB |
| 23 | RsrII | CG GWC.CG |
| 24 | Sall | G TCGA_C |
| 25 | Sbfl | CC_TGCA_GG |
| 26 | SexAI | A CCWGG_T |
| 27 | SgrAI | CR CCGG_YG |
| 28 | Smal | CCC_GGG |
| 29 | SnaBI | TAC_GTA |
| 30 | SpeI | A CTAG_T |
| 31 | SrfI | GCCC_GGGC |
| 32 | Swal | ATTT_AAAT |
| 33 | TspMI | C CCGG_G |
| 34 | XcmI | CCANNNN_N NNNNTGG |
| 35 | XhoI | C TCGA_G |
| 36 | XmaI | C CCGG_G |

1-Cutters

| # | Enzyme | Specificity | Sites & flanks | Cut positions (blunt - 5' ext. - 3' ext.) |
|---|--------|---|----------------------|---|
| 1 | AhdI | GACNN_N NGTC | list | 6877/6876 |
| 2 | AleI | CACNN_N NGTG | list | 1365 |
| 3 | Apal | G_GGCC_C | list | *2836/2832 |
| 4 | BaeI | _(N) ₅ (N) ₁₀ ACNNNNGTAYC(N) ₇ _(N) ₅ | list | 126/121+159/154 |
| 5 | BamHI | G GATC_C | list | 2656/2660 |
| 6 | BbvCI | CC TCA_GC | list | 1213/1216 |

| | | | | |
|----|---------|---|----------------------|---------------------|
| 7 | BfuAI | ACCTGCNNNN NNNN | list | 4565/4569 |
| 8 | BsaXI | NNN (N) ₉ AC(N) ₅ CTCC(N) ₇ NNN | list | 1605/1602+1635/1632 |
| 9 | BspDI | AT CG AT | list | *1937/1939 |
| 10 | BspEI | T CCGG A | list | *#5175/5179 |
| 11 | BspMI | ACCTGCNNNN NNNN | list | 4565/4569 |
| 12 | BstBI | TT CG AA | list | *2643/2645 |
| 13 | BstZ17I | GTA TAC | list | 5757 |
| 14 | Clal | AT CG AT | list | *1937/1939 |
| 15 | CspCI | NN (N) ₁₁ CAA(N) ₅ GTGG(N) ₁₀ NN | list | 1965/1963+2000/1998 |
| 16 | EcoNI | CCTNN N NNAGG | list | 959/960 |
| 17 | EcoRI | G AATT C | list | 2630/2634 |
| 18 | FseI | GG CCGG CC | list | *11/7 |
| 19 | HpaI | GTT AAC | list | 1815 |
| 20 | MfeI | C AATT G | list | 978/982 |
| 21 | MluI | A CGCG T | list | *2878/2882 |
| 22 | NotI | GC GCC GC | list | *2649/2653 |
| 23 | PciI | A CATG T | list | 5984/5988 |
| 24 | PfifI | GACN N NGTC | list | 5731/5732 |
| 25 | PmeI | GTTT AAAC | list | 2350 |
| 26 | PshAI | GACNN N NGTC | list | *4227 |
| 27 | PspOMI | G GCC C | list | *2832/2836 |
| 28 | PstI | C TGCA G | list | 7122/7118 |
| 29 | Scal | AGT ACT | list | 7357 |
| 30 | SfiI | GGCCN NNN NGGCC | list | *4113/4110 |
| 31 | SphI | G CATG C | list | 113/109 |
| 32 | StuI | AGG CCT | list | 4159 |
| 33 | Tth111I | GACN N NGTC | list | 5731/5732 |
| 34 | XbaI | T CTAG A | list | 2636/2640 |