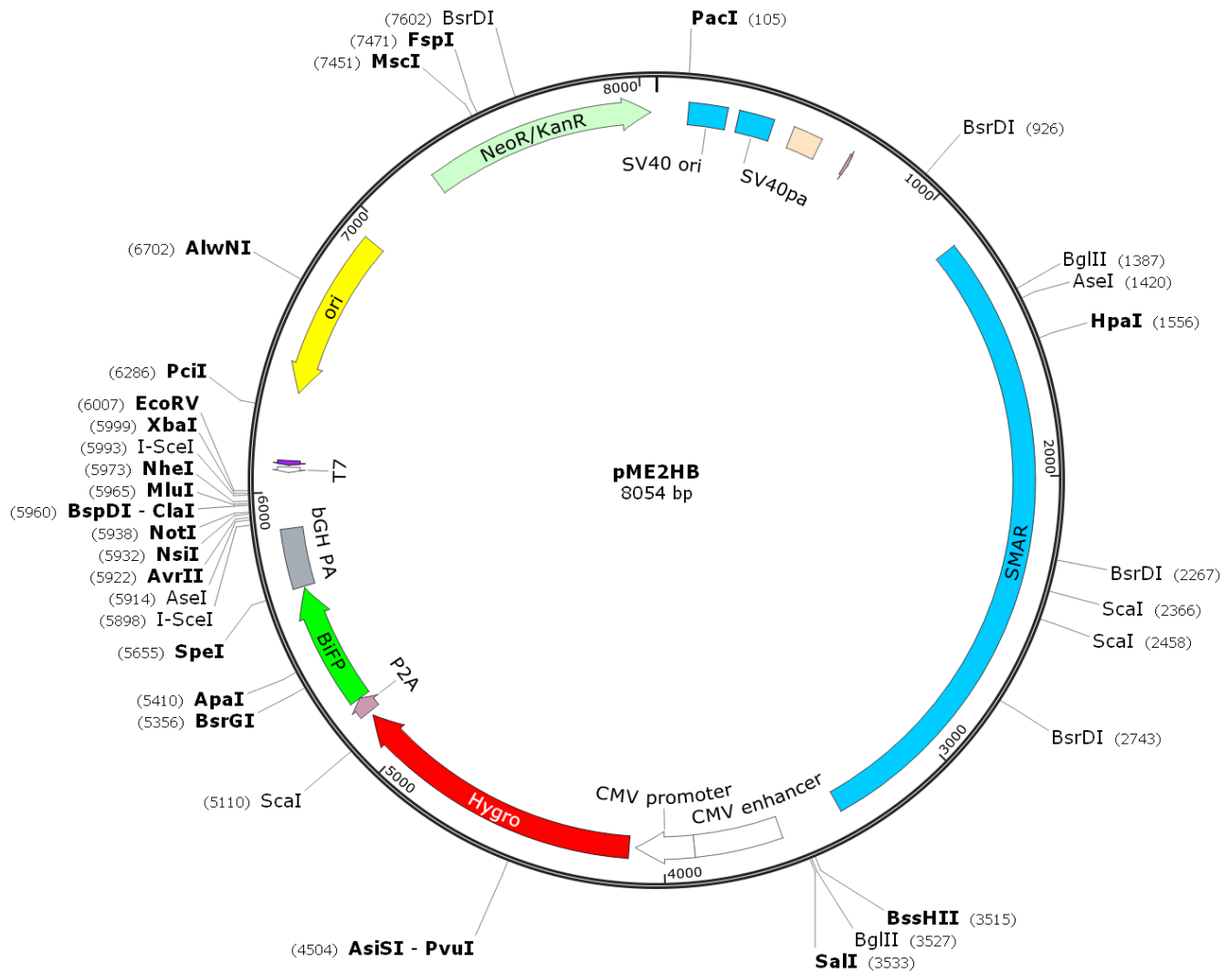


Vector: pME2HB (MOLab episomal expression vector)

Antibiotic Selection: Kan (hygro in mammalian cells)

Creator(s): Linjuan Huang and Hao Wang @ Molecular Oncology Lab of The University of Chicago Medical Center

Date of Construction: July 2020



pME2H full-length Sequence

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Zero Cutters

| # | Enzyme | Specificity | | | |
|----|---------|--------------------------------------|----|-------|---------------|
| | | | 15 | KpnI | GGTACC |
| 1 | Acc65I | GGTACC | 16 | MfeI | CAATTG |
| 2 | AfeI | AGCGCT | 17 | NruI | TCGCGA |
| 3 | AflII | CTTAAG | 18 | PmeI | GTTTAAAC |
| 4 | AgeI | ACCGGT | 19 | PmlI | CACGTG |
| 5 | BaeI | (N) 5 (N) 10ACN>NNNGTAYC (N) 7 (N) 5 | 20 | PpuMI | RGGWCCY |
| 6 | BclI | TGATCA | 21 | PspXI | VCTCGAGB |
| 7 | BlpI | GCTNAGC | 22 | SbfI | CCTGCAGG |
| 8 | BsgI | GTGCAG (N) 14NN | 23 | SgrAI | CRCCGGYG |
| 9 | BsiWI | CGTACG | 24 | SmaI | CCCGGG |
| 10 | BstBI | TTCGAA | 25 | SrfI | GCCCGGGC |
| 11 | BstEII | GGTNACC | 26 | TspMI | CCCGGG |
| 12 | EcoNI | CCTNNNNNAGG | 27 | XcmI | CCANNNNNNNTGG |
| 13 | FseI | GGCCGGCC | 28 | XmaI | CCCGGG |
| 14 | HindIII | AAGCTT | | | |

One-Cutters

| # | Enzyme | Specificity | Sites & flanks | Cut positions (blunt - 5' ext. - 3' ext.) |
|---|--------------|--------------------------|----------------------|---|
| 1 | AclI | AA CG [▼] TT | list | *3082/3084 |
| 2 | AleI | CACNN [▼] NNGTG | list | 5430 |
| 3 | AlwNI | CAG [▼] NNN CTG | list | 6702/6699 |

| | | | | |
|----|-----------------|--|----------------------|----------------------|
| 4 | Apal | G _↓ GGCC _↓ C | list | *5410/5406 |
| 5 | Ascl | GG _↓ CGCG _↓ CC | list | *3515/3519 |
| 6 | AsiSI | GCG _↓ AT _↓ CGC | list | *4504/4502 |
| 7 | AvrII | C _↓ CTAG _↓ G | list | 5922/5926 |
| 8 | BamHI | G _↓ GATC _↓ C | list | 4122/4126 |
| 9 | BbvCI | CC _↓ TCA _↓ GC | list | 2927/2930 |
| 10 | BcgI | △NN (N) ₁₀ CGA(N) ₆ TGC(N) ₁₀ △NN _↓ | list | *1164/1162+1198/1196 |
| 11 | BmgBI | CAC _↓ GTC | list | *5207 |
| 12 | BmtI | G _↓ CTAG _↓ C | list | 5977/5973 |
| 13 | BsaBI | GATNN _↓ NNATC | list | #4121 |
| 14 | BsaI | GGTCTCN _↓ NNNN _↓ | list | 3496/3500 |
| 15 | BspDI | AT _↓ CG _↓ AT | list | *5960/5962 |
| 16 | BsrGI | T _↓ GTAC _↓ A | list | 5356/5360 |
| 17 | BssHII | G _↓ CGCG _↓ C | list | *3515/3519 |
| 18 | BstZ17I | GTA _↓ TAC | list | 1498 |
| 19 | Bsu36I | CC _↓ TNA _↓ GG | list | 5314/5317 |
| 20 | ClaI | AT _↓ CG _↓ AT | list | *5960/5962 |
| 21 | CspCI | △NN (N) ₁₁ CAA(N) ₅ GTGG(N) ₁₀ △NN _↓ | list | 3907/3905+3942/3940 |
| 22 | Eco53kl | GAG _↓ CTC | list | 1720 |
| 23 | EcoO109I | RG _↓ GNC _↓ CY | list | 5407/5410 |
| 24 | EcoRV | GAT _↓ ATC | list | 6007 |
| 25 | FspI | TGC _↓ GCA | list | *7471 |
| 26 | HpaI | GTT _↓ AAC | list | 1556 |
| 27 | MluI | A _↓ CGCG _↓ T | list | *5965/5969 |
| 28 | MscI | TGG _↓ CCA | list | 7451 |
| 29 | NheI | G _↓ CTAG _↓ C | list | 5973/5977 |
| 30 | NotI | GC _↓ GGCC _↓ GC | list | *5938/5942 |
| 31 | NsiI | A _↓ TGCA _↓ T | list | 5932/5928 |
| 32 | PacI | TTA _↓ AT _↓ TAA | list | 105/103 |
| 33 | PciI | A _↓ CATG _↓ T | list | 6286/6290 |
| 34 | PflMI | CCAN _↓ NNN _↓ NTGG | list | 933/930 |
| 35 | PshAI | GACNN _↓ NNGTC | list | *4167 |
| 36 | PspOMI | G _↓ GGCC _↓ C | list | *5406/5410 |
| 37 | PvuI | CG _↓ AT _↓ CG | list | *4504/4502 |
| 38 | SacI | G _↓ AGCT _↓ C | list | 1722/1718 |
| 39 | SalI | G _↓ TCGA _↓ C | list | *3533/3537 |
| 40 | SexAI | A _↓ CCWGG _↓ T | list | #3402/3407 |
| 41 | SfiI | GGCCN _↓ NNN _↓ NGGCC | list | *160/157 |
| 42 | SnaBI | TAC _↓ GTA | list | *3871 |
| 43 | SpeI | A _↓ CTAG _↓ T | list | 5655/5659 |
| 44 | Swal | ATTT _↓ AAAT | list | 1376 |
| 45 | XbaI | T _↓ CTAG _↓ A | list | 5999/6003 |