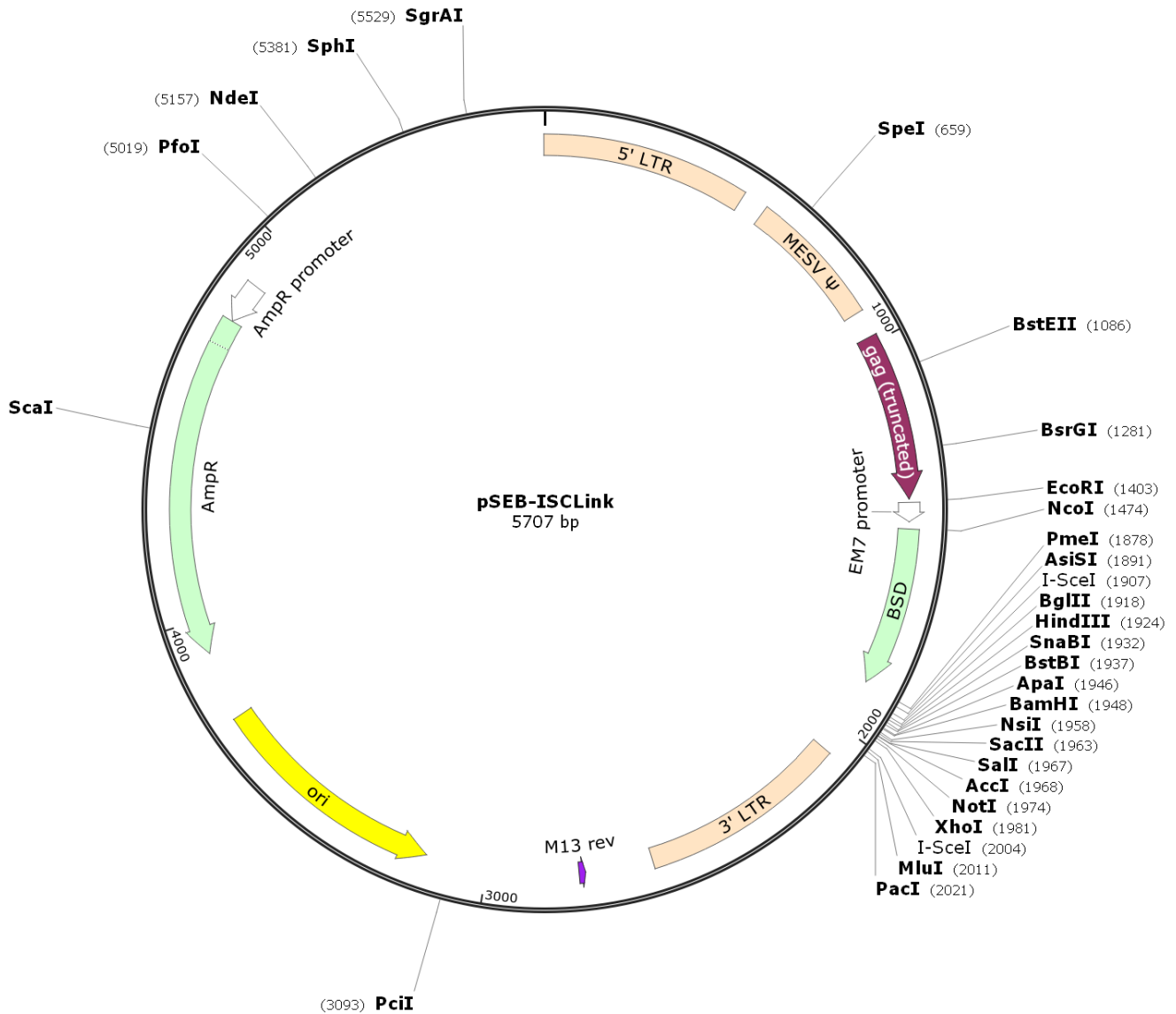


Vector: pSEB-ISCLink [ISC-flanked Linker Vector]

Antibiotic Selection: Amp (*BSD in mammalian cells*)

Creator(s): Fang He & Na Ni @ Molecular Oncology Lab of The University of Chicago Medical Center

Date of Construction: February 2020



pSEB-ISCLink Full-length Sequence

TGAAAGACCCACCTGTAGGTTTGGCAAGCTAGCTTAAGTAACGCCATTTTGC AAGGCATGGAAAAATACATAACTGAGAATA
GAGAAGTTAGATCAAGGTTAGGAACAGAGAGACAGCAGAATATGGGCCAAACAGGATATCTGTGGTAAGCAGTTCCCTCCCCG
GCTCAGGGCCAAGAACAGATGGTCCCCAGATGCGGTCCCGCCCTCAGCAGTTTCTAGAGAACCATCAGATGTTTCCAGGGTG
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CCCCGAGCTCAATAAAAAGAGCCACAACCCCTCACTCGGCGGCCAGTCCCTCCGATAGACTGCGTGCCTCCGGGTACCCGTAT
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GTAAGCTGGCCAGCGGTGCTTTCGTGTCTGTCTCTGTCTTTGTGCGTGTTCGTGCGGCATCTAATGTTTGCCTGCGTCT
GTACTAGTTAGCTAACTAGCTCTGTATCTGGCGGACCCGTGGTGGAACTGACGAGTTCTGAACACCCGGCCGAACCCCTGGG
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ATGTGGTTCGGTAGGAGACGAGAACCATAAACAGTTCCCGCCTCCGCTGAAATTTTGCCTTTCGGTTTGGAAACCGAAGCCG
CGCGTCTTGTCTGCTGCAGCGCTGCAGCATCGTTCGTGTTGTCTCTGTCTGACTGTGTTTTCTGTATTTGTCTGAAAATTAG
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CATCCGCCCCGTCTCTCCCTTGAACCTCCTCGTTCGACCCCGCTCGATCCTCCCTTTTATCCAGCCCTCACCTTCTCT
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GCTCACTCAAAGGCGGTAATACGGTTATCCACAGAATCAGGGGATAACGCAGGAAAGAACATGTGAGCAAAAGGCCAGCAAA
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 CCATAGATAAAAATAAAGATTTTATTTAGTCTCCAGAAAAAGGGGGGAA

Zero-Cutters :

| # | Enzyme | Specificity | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | |
|----|---------|-------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|
| 1 | AgeI | ACCGGT | | | | | | | | | | | | | | | | | | |
| 2 | AleI | CACNNNGTG | | | | | | | | | | | | | | | | | | |
| 3 | AvrII | CCTAGG | | | | | | | | | | | | | | | | | | |
| 4 | BbsI | GAAGACNNNNNN | | | | | | | | | | | | | | | | | | |
| 5 | BclI | TGATCA | | | | | | | | | | | | | | | | | | |
| 6 | BfuAI | ACCTGCNNNNNNNN | | | | | | | | | | | | | | | | | | |
| 7 | BlpI | GCTNAGC | | | | | | | | | | | | | | | | | | |
| 8 | BmgBI | CACGTC | | | | | | | | | | | | | | | | | | |
| 9 | BsiWI | CGTACG | | | | | | | | | | | | | | | | | | |
| 10 | BsmI | GAATGCN | | | | | | | | | | | | | | | | | | |
| 11 | BspDI | ATCGAT | | | | | | | | | | | | | | | | | | |
| 12 | BspEI | TCCGGA | | | | | | | | | | | | | | | | | | |
| 13 | BspMI | ACCTGCNNNNNNNN | | | | | | | | | | | | | | | | | | |
| 14 | BstXI | CCANNNNNNTGG | | | | | | | | | | | | | | | | | | |
| 15 | BstZ17I | GTATAC | | | | | | | | | | | | | | | | | | |
| 16 | BtgZI | GCGATG (N) 10NNNN | | | | | | | | | | | | | | | | | | |

One-Cutters:

| # | Enzyme | Specificity | Sites | &flanks | Cut positions (blunt - 5' ext. - 3' ext.) |
|----|---------|---------------------------------|-------|---------------------|---|
| 1 | AccI | GTMKAC | list | *1968/1970 | |
| 2 | ApaI | GGGCCC | list | *1946/1942 | |
| 3 | AsiSI | GCGATCGC | list | *1891/1889 | |
| 4 | BamHI | GGATCC | list | 1948/1952 | |
| 5 | BglIII | AGATCT | list | 1918/1922 | |
| 6 | BsaAI | YACGTR | list | *1932 | |
| 7 | BsaBI | GATNNNNATC | list | *#1774 | |
| 8 | BsgI | GTGCAG (N) 14NN | list | 1663/1661 | |
| 9 | BsrGI | TGTACA | list | 1281/1285 | |
| 10 | BstBI | TTCGAA | list | *1937/1939 | |
| 11 | BstEII | GGTNACC | list | 1086/1091 | |
| 12 | CspCI | NN (N) 11CAA (N) 5GTGG (N) 10NN | list | 1493/1491+1528/1526 | |
| 13 | EcoRI | GAATTC | list | 1403/1407 | |
| 14 | HindIII | AAGCTT | list | 1924/1928 | |
| 15 | MluI | ACGCGT | list | *2011/2015 | |
| 16 | NcoI | CCATGG | list | 1474/1478 | |
| 17 | NdeI | CATATG | list | 5157/5159 | |
| 18 | NotI | GCGGCCGC | list | *1974/1978 | |
| 19 | NruI | TCGCGA | list | *#1707 | |
| 20 | NsiI | ATGCAT | list | 1958/1954 | |
| 21 | PacI | TTAATTAA | list | 2021/2019 | |
| 22 | PaeR7I | CTCGAG | list | *1981/1985 | |
| 23 | PciI | ACATGT | list | 3093/3097 | |
| 24 | PmeI | GTTTAAAC | list | 1878 | |
| 25 | PspOMI | GGGCCC | list | *1942/1946 | |
| 26 | SacII | CCGCGG | list | *1963/1961 | |
| 27 | SalI | GTCGAC | list | *1967/1971 | |
| 28 | ScaI | AGTACT | list | 4466 | |
| 29 | SexAI | ACCWGGT | list | #1214/1219 | |
| 30 | SgrAI | CRCCGGYG | list | *5529/5533 | |
| 31 | SnaBI | TACGTA | list | *1932 | |
| 32 | SpeI | ACTAGT | list | 659/663 | |
| 33 | SphI | GCATGC | list | 5381/5377 | |
| 34 | XhoI | CTCGAG | list | *1981/1985 | |