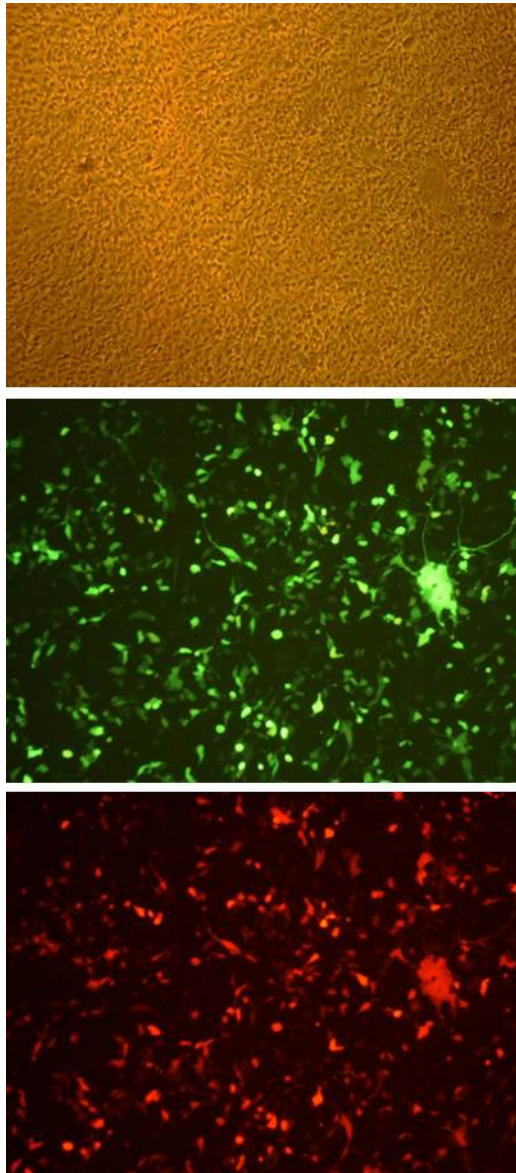


Supplemental Figure 1 Vector maps (pDoubleEx-EGFP, pDoubleEx-EGFP-PBX1) in the dual-luciferase reporter assay.

Sequence 0	1	ATGGACGAGCAGCCAGGCTGATGCATTCCCATGCTGG	38
Sequence 1	1	AGCAGAGCTCGGATCCGCCACCATGGACGAGCAGCCAGGCTGATGCATTCCCATGCTGG	60
Sequence 0	39	GGTCGGGATGGCCGGACACCCCGGCTGTCCAGCACTTGCAGGATGGGGCCGGAGGGAC	98
Sequence 1	61	GGTCGGGATGGCCGGACACCCCGGCTGTCCAGCACTTGCAGGATGGGGCCGGAGGGAC	120
Sequence 0	99	CGAGGGGAGGGCGGGAGGAAGCAGGACATTGGAGACATTTTACAGCAAATTATGACCAT	158
Sequence 1	121	CGAGGGGAGGGCGGGAGGAAGCAGGACATTGGAGACATTTTACAGCAAATTATGACCAT	180
Sequence 0	159	CACAGACCAGAGTTTGGATGAGGCGCAGGCCAGAAAACATGCTTTAAACTGCCACAGAAT	218
Sequence 1	181	CACAGACCAGAGTTTGGATGAGGCGCAGGCCAGAAAACATGCTTTAAACTGCCACAGAAT	240
Sequence 0	219	GAAGCCTGCCTTGTGTTAATGTGTGTGTGAAAATCAAAGAAAAACAGTTTTGAGTATCCG	278
Sequence 1	241	GAAGCCTGCCTTGTGTTAATGTGTGTGTGAAAATCAAAGAAAAACAGTTTTGAGTATCCG	300
Sequence 0	279	AGGAGCCCAGGAGGAGGAACCCACAGACCCCCAGCTGATGCGGCTGGACAACATGCTGTT	338
Sequence 1	301	AGGAGCCCAGGAGGAGGAACCCACAGACCCCCAGCTGATGCGGCTGGACAACATGCTGTT	360
Sequence 0	339	AGCGGAAGGCGTGGCGGGGCTGAGAAGGGCGGAGGGTCGGCGGCAGCGCGGCAGCGGC	398
Sequence 1	361	AGCGGAAGGCGTGGCGGGGCTGAGAAGGGCGGAGGGTCGGCGGCAGCGCGGCAGCGGC	420
Sequence 0	399	GGCGGCTTCTGGAGGGGAGGTTTCAGACAACTCAGTGGAGCATTAGATTACAGAGCCAA	458
Sequence 1	421	GGCGGCTTCTGGAGGGGAGGTTTCAGACAACTCAGTGGAGCATTAGATTACAGAGCCAA	480
Sequence 0	459	ACTCTCACAGATCAGACAAATCTACCATACGGAGCTGGAGAAATACGAGCAGGCCCTGCAA	518
Sequence 1	481	ACTCTCACAGATCAGACAAATCTACCATACGGAGCTGGAGAAATACGAGCAGGCCCTGCAA	540
Sequence 0	519	CGAGTTCAACACCCACGTGATGAATCTCTGCGAGAGCAAAGCCGGACCAAGGCCATCTC	578
Sequence 1	541	CGAGTTCAACACCCACGTGATGAATCTCTGCGAGAGCAAAGCCGGACCAAGGCCATCTC	600
Sequence 0	579	CCCAAAGGAGATTGAGCGGATGGTCAGCATCATCCACCGCAAGTTCAGCTCCATCCAGAT	638
Sequence 1	601	CCCAAAGGAGATTGAGCGGATGGTCAGCATCATCCACCGCAAGTTCAGCTCCATCCAGAT	660
Sequence 0	639	GCAGCTCAAGCAGAGCACGTGCGAGGCGGTGATGATCCTGCGTTCCCGATTCTGGATGC	698
Sequence 1	661	GCAGCTCAAGCAGAGCACGTGCGAGGCGGTGATGATCCTGCGTTCCCGATTCTGGATGC	720
Sequence 0	699	GCGGCGGAAGAGACGGAATTTCAACAAGCAAGCGACAGAAATCCTGAATGAATATTCTTA	758
Sequence 1	721	GCGGCGGAAGAGACGGAATTTCAACAAGCAAGCGACAGAAATCCTGAATGAATATTCTTA	780
Sequence 0	759	TTCCCATCTCAGCAACCCCTTACCCAGTGAGGAAGCCAAAGAGGAGTTAGCCAAGAAGTG	818
Sequence 1	781	TTCCCATCTCAGCAACCCCTTACCCAGTGAGGAAGCCAAAGAGGAGTTAGCCAAGAAGTG	840
Sequence 0	819	TGGCATCACAGTCTCCAGGTATCAAACCTGGTTTGGAAATAAGCGAATCCGGTACAAGAA	878
Sequence 1	841	TGGCATCACAGTCTCCAGGTATCAAACCTGGTTTGGAAATAAGCGAATCCGGTACAAGAA	900
Sequence 0	879	GAACATAGGTAAATTTCAAGAGGAAGCCAATATTTATGCTGCCAAAACAGCTGTCACTGC	938
Sequence 1	901	GAACATAGGTAAATTTCAAGAGGAAGCCAATATTTATGCTGCCAAAACAGCTGTCACTGC	960
Sequence 0	939	TACCAATGTGTAGCCCATGGAAGCCAAGCTAACTCGCCCTCAACTCCCAACTCGGCTGG	998
Sequence 1	961	TACCAATGTGTAGCCCATGGAAGCCAAGCTAACTCGCCCTCAACTCCCAACTCGGCTGG	1020
Sequence 0	999	TTCTTCCAGTTCTTTTAACATGTCAAACCTCTGGAGATTGTTCATGAGCGTGCACTCACT	1058
Sequence 1	1021	TTCTTCCAGTTCTTTTAACATGTCAAACCTCTGGAGATTGTTCATGAGCGTGCACTCACT	1080
Sequence 0	1059	CAATGGGGATTCTTACCAAGGGGCCAGGTTGGAGCCAACGTGCAATCACAGGTGGATAC	1118
Sequence 1	1081	CAATGGGGATTCTTACCAAGGGGCCAGGTTGGAGCCAACGTGCAATCACAGGTGGATAC	1140
Sequence 0	1119	CCTTCGCCATGTTATCAGCCAGACAGGAGGATACAGTGATGGACTCGCAGCCAGTCAGAT	1178
Sequence 1	1141	CCTTCGCCATGTTATCAGCCAGACAGGAGGATACAGTGATGGACTCGCAGCCAGTCAGAT	1200
Sequence 0	1179	GTACAGTCCGCAGGGCATCAGTGCTAATGGAGGTTGGCAGGATGCTACTACCCCTTCATC	1238
Sequence 1	1201	GTACAGTCCGCAGGGCATCAGTGCTAATGGAGGTTGGCAGGATGCTACTACCCCTTCATC	1260
Sequence 0	1239	AGTGACCTCCCCTACAGAAGGCCCTGGCAGTGTTCACCTGTGATACCTCCAACCTGA	1293
Sequence 1	1261	AGTGACCTCCCCTACAGAAGGCCCTGGCAGTGTTCACCTGTGATACCTCCAACCTGA GAATT	1320
Sequence 0	1294		1293
Sequence 1	1321	CTGCAGATATCCAGCACAGTGGCGGCCGCTCGAGT	1355

Supplemental Figure 2 Sequence alignment of *PBX1*. The 1st and 2nd rows are the sequencing results and primitive sequences, respectively.



Supplemental Figure 3 Verification of the pDoubleEx-EGFP vector by transfection of pDoubleEx-EGFP-moRED (DsRed-Monomer inserted next to the CMV promoter in the pDoubleEx-EGFP vector) following green/red fluorescence in HEK293T cells.