

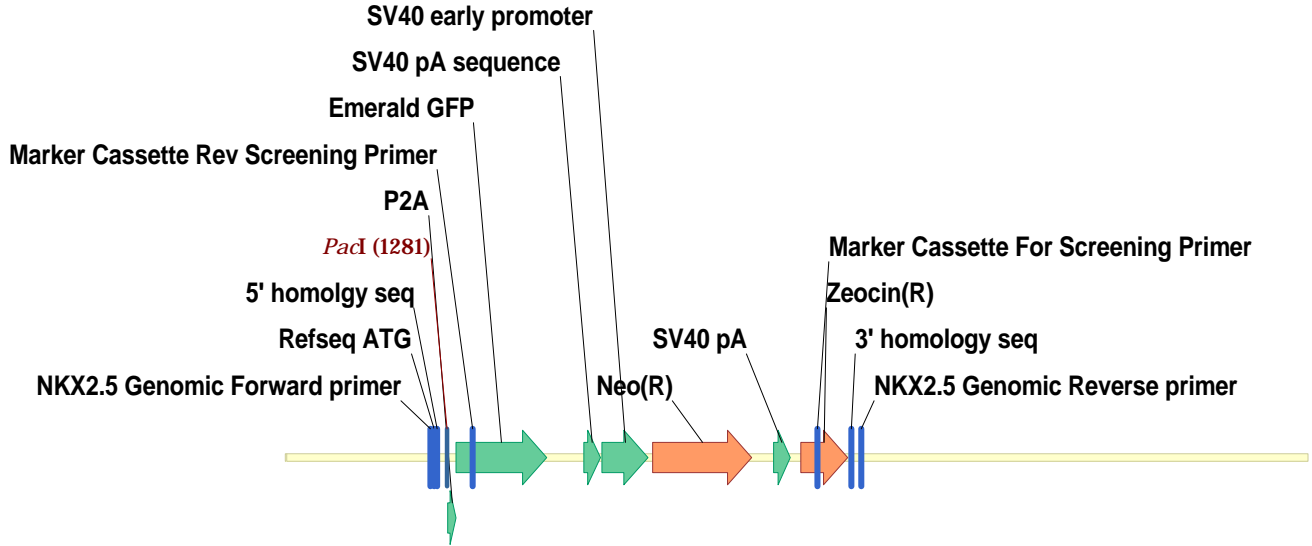
A

BNIP1 (chr5: 172,504,146-172,523,950)

NKX2-5 (chr5: 172,591,744-172,594,868)

RP11-88L12 (chr5: 172,467,260-172,659,285)

B



RP11-88L12 NKX2-5 EmGFP map

8168 bp

C

1001	GCCTGGTCCC GCCTCTCTCTG CCCCTTGTGC TCAGCGCTAC CTGCTGCCCG GACACATCCA GAGCTGGCCG ACGGGTGC GC GGCGGGCGG CGGCACCATG CGGACCAGGG CCGAGAGGAC GGGGAACACG AGTCGCGATG GACGACGGGC CTGTGTAGGT CTCGACCAGGC TGCCACAGCG CCCGCCCGCC GCCGTGGTAC
	NKX2.5 Genomic Forward primer Refseq ATG
-1	Met Phe Pro Ser Pro Ala Leu Thr
1101	CAGGGAAGCT GCCAGGGGCC GTGGGCAGCG CCGCTTCTGT CCGCCACCT GGCCTGTGA GACTGGCGCT GCCACCATGT TCCCCAGCCC TGCTCTCAG GTCCCTTCGA CGGTCCCCGG CACCCGTCGC GCGAAAAGC GCGGGTGGG CCGCGACACT CTGACCAGCGA CGGTGGTACA AGGGGTCGGG ACGAGAGTGC
	5' homology seq PacI P2A
-1	Pro Thr Pro Phe Ser Val Lys Asp Ile Leu Asn Leu Glu Gln Gln Gln Arg Ser Leu Asn Gln Phe Ser Arg Gln Leu Ile Asn Val Glu Gly Ser Gly Ala
1201	CCCACGCCCT TCTCAGTCAA AGACATCCTA AACCTGGAAC AGCAGCAGCG CAGCCTGAAC CAATTCAGTC GACAATTAAT TAACGTCGAG GGCAGCGGCG GGGTGCGGGA AGAGTCAGTT TCTGTAGGAT TTGGACCTTG TCGTCGTCCG GTCGGACTTG GTTAAATTA ATTGCAGCTC CCGTCGCCCG
	P2A Emerald GFP
-1	Ala Thr Asn Phe Ser Leu Leu Lys Gln Ala Gly Asp Val Glu Glu Asn Pro Gly Pro Thr Ser Met Val Ser Lys Gly Glu Glu Leu Phe Thr Gly Val Val
1301	CGACCAACTT TAGCCTGCTG AAACAGGCGG GCGATGTGGA AGAAAACCCA GGACCGACTA GTATGGTGAG CAAGGGCGAG GAGCTGTTCA CCGGGTGGT GCTGTTGAA ATCGGACGAC TTTGTCCGCC CGTACACCT TCTTTGGGT CCTGGCTGAT CATACCACCT GTTCCCGCTC CTCGACAAGT GGCCCCACCA
	Emerald GFP
-1	Val Pro Ile Leu Val Glu Leu Asp Gly Asp Val Asn Gly His Lys Phe Ser Val Ser Gly Glu Gly Glu Gly Asp Ala Thr Tyr Gly Lys Leu Thr Leu Lys
1401	GCCCATCCTG GTCGAGCTGG ACGGCGACGT AAACGGCCAC AAGTTCAGCG TGTCCGGCGA GGGCGAGGGC GATGCCACCT ACGGCAAGCT GACCTGAAG CGGGTAGGAC CAGCTCGACC TGCCGCTGCA TTTGCCGGTG TTCAAGTCGC ACAGGCCGCT CCCGCTCCG CTACGGTGGG TGCCGTTTCA CTGGGACTTC
	Emerald GFP Marker Cassette Rev Screening Primer
-1	Phe Ile Cys Thr Thr Gly Lys Leu Pro Val Pro Trp Pro Thr Leu Val Thr Thr Leu Thr Tyr Gly Val Gln Cys Phe Ala Arg Tyr Pro Asp His Met Lys
1501	TTCATCTGCA CCACCGGCAA GCTGCCCGTG CCTGGGCCA CCCTCGTGAC CACCTTGACC TACGGCGTGC AGTGCTTCGC CCGCTACCCC GACCACATGA AAGTAGACGT GGTGGCCGTT CGACGGGCAC GGGACCGGGT GGGAGCACTG GTGGAAGTGG ATGCCGCACG TCACGAAAGC GCGGATGGGG CTGGTGTACT
	Marker Cassette Rev Screening Primer