

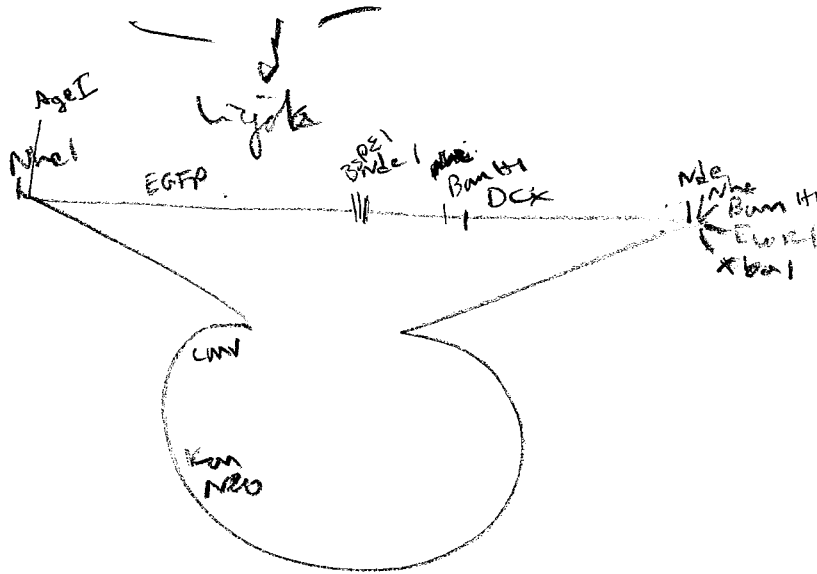
GFP DEX

PE GFP

cut w/ BglII + BamHI  
cut out vector band  
fill in

ret DEX

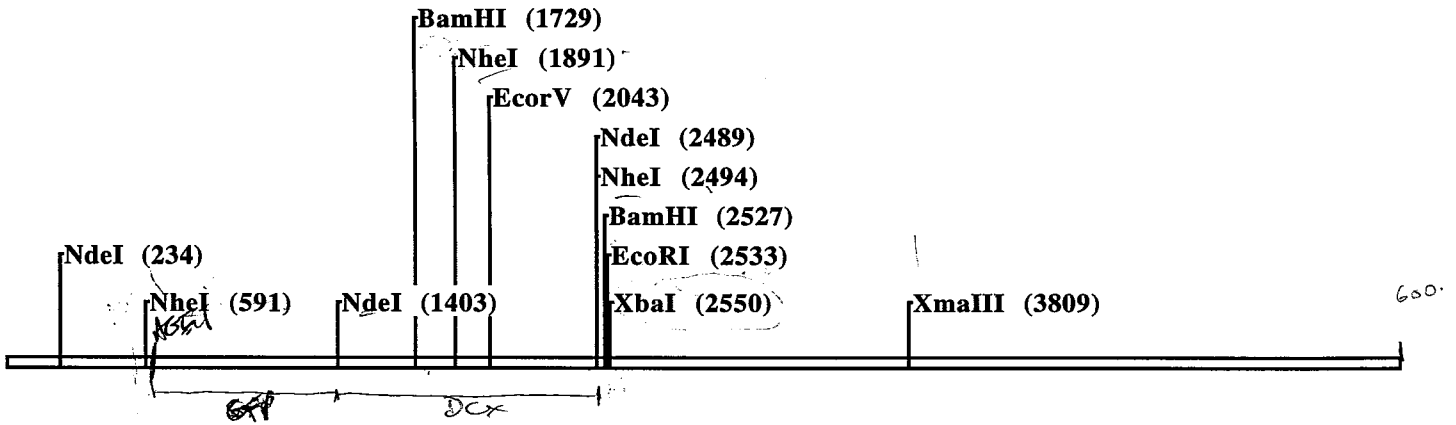
cut w/ NcoI + EcoRI  
cut out DEX  
fill in



GCT AEC



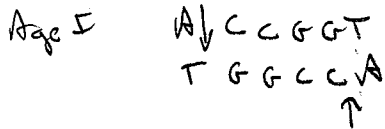
gfp w/ DCX correct  
[Strand]



Mapping all cutsites.

Cutters : BamHI, EcoRI, EcorV, NdeI, NheI, XbaI & XmaIII

Non-Cutters : BglII, XhoI & XmaI



gfp w/ DCX correct  
[Strand]

1 TAGTTAATTA TAGTAATCAA TTACGGGGT ATTAGTTCAT AGCCCATATA TGGAGTTCGG CGTTACATAA CTTACGGTAA  
81 ATGGCCCGCC TGGCTGACCG CCCAACGACC CCCGCCATT GACGTCAATA ATGACGTATG TTCCCATAGT AACGCCAATA  
161 GGGACTTTCC ATTTGACGTCA ATGGGTGGAG TATTTACGGT AAAGTGCCCA CTTGGCAGTA CATCAAGTGT ATCATATGCC  
241 AAGTACGCC CCTATTGACG TCAATGACGG TAAATGGCCC GCCTGGCATT ATGCCAGTA CATGACCTTA TGGGACTTTC  
321 CTACTTGGCA GTACATCTAC GTATTAGTCA TCGCTATTAC CATGGTGTATG CCGTTTTGGC AGTACATCAA TGGGCGTGGGA  
401 TAGCGGTTTG ACTCACGGGG ATTTCCAAGT CTCCACCCCA TTGACGTCAA TGGGAGTTTG TTTTGGCACC AAAATCAACG  
481 GGACTTTCCA AAATGTCTGA ACAATCCCG CCCATTGACG CAAATGGGCG GTAGGCGTGT ACGGTGGGAG GTCTATATAA  
561 GCAGAGCTGG TTTAGTGAAC CGTCAGATCC GCTAGCGCTA CCGGTCCGCC CCATGGTGTAG CAAGGGCGAG GAGCTGTTC  
641 CCGGGTGGT GCCCATCTG GTCGAGCTGG ACGGCGAGT AAACGGCCAC AAGTTCAGCG TGTCCGGCGA GGGCGAGGGC  
721 GATGCCACCT ACGCAAGCT GACCCGTAAG TTCATCTGCA CCACCGGCAA GCTGCCCGTG CCCTGGCCCA CCTCGTGAC  
801 CACCCTGACC TACGGCGTGC AGTGTCTCAG CCGCTACCCC GACCACATGA AGCAGCACGA CTTCTTCAAG TCCGCCATGC  
881 CCGAAGGCTA CGTCCAGGAG CGCACCATCT TCTTCAAGGA CGACGGCAAC TACAAGACCC GCGCCGAGGT GAAGTTCGAG  
961 GGCAGACCC TGGTGAACCG CATCGAGCTG AAGGGCATCG ACTTCAAGGA GGACGGCAAC ATCTTGGGGC ACAAGCTGGA  
1041 GTACAACCTAC AACAGCCACA ACGTCTATAT CATGGCCGAC AAGCAGAAGA ACGGCATCAA GGTGAACCTC AAGATCCGCC  
1121 ACAACATCGA GGACGCGAGC GTGCAGCTCG CCGACCACTA CCAGCAGAAC ACCCCCATCG GCGACGGCCC CGTGCTGTG  
1201 CCCGACAACC ACTACTGAG CACCCAGTCC GCCCTGAGCA AAGACCCCAA CGAGAAGCGC GATCAGATGG TCCTGTGTTGA  
1281 GTTCGTGACC GCGCGGGGA TCACTCTCGG CATGGACGAG CTGTACAAGT CCGGACTCAG ATCCATGGGC AGCAGCCATC  
1361 ATCATCATCA TCACAGCAGC GGCCTGGTGC CGCGCGGCG CCATATGGAA CTTGATTTTG GACACTTTGA CGAAAGAGAT  
1441 AAGACATCCA GGAACATGCG AGGCTCCCG ATGAATGGGT TGCTTAGCCC CACTCACAGC GCCACTGTA GCTTCTACCG  
1521 AACGAGAACA TTGACGGCAG TGAGTAATGA GAAGAAAGCT AAGAAGGTAC GTTTCTACCG CAATGGGGAC CGCTACTTCA  
1601 AGGGGATTGT GTACGCTGTG TCCTCTGACC GTTTCTGCGC CTTTGGACCC TGTCTGGCTG ACCTGACGCG ATCTCTGTCT  
1681 GACAAACATCA ACCTGCCTCA GGGAGTGCCT TACATTTTACA CCTATGATGG ATCCAGGAAG ATCCGGAAGCA TGGATGAACT  
1761 GGAGGAAGGG GAAAGCTATG TCTGTCTCTC AGACAACCTT TTTAAAAAGG TGGAGTACAC CAAGAATGTC AATCCCAACT  
1841 GGTCTGTCAA CGTAAAAACA TCTGCCAATA TGAAGCCCC CCAGTCTTGT GCTAGCAGCA ACAGTGCACA GGCCAGGGAG  
1921 AACAGGACT TTGTGCGCCC CAAGCTGGTT ACCATCATCC GCAGTGGGGT GAAGCCTCGG AAGGCTGTGC GTGTGCTTCT  
2001 GAACAAGAAG ACAGCCCACT CTTTTGAGCA AGTCTCACT GATATCACAG AAGCCATCAA ACTGGAGACC GGGGTTGTCA  
2081 AAAAACTCTA CACTCTGGAT GGAAAACAGG TAACTTGTCT CCATGATTTT TTTTGTGATG ATGATGTGTT TATTGCCCTGT  
2161 GGTCTGAAA AATTTGCGTA TGCTCAGGAT GATTTTCTC TGATGAAA TGAATGCCGA GTCATGAAGG GAAACCCATC  
2241 AGCCACAGCT GGCCCAAAGG CATCCCCAAC ACCTCAGAAG ACTTCAGCCA AGAGCCCTGG TCCTATGCGC CGAAGCAAGT  
2321 CTCAGCTGA CTCAGCAAAC GGAACCTCCA GCAGCCAGCT CTCTACCCCC AAGTCTAAGC AGTCTCCCAT CTCTACGCC  
2401 ACCAGTCTG GCAGCCTCCG GAAGCACAAG GACCTGACC TGCTCTGTG CTTGGATGAC TCGGACTCGC TTGGTGATTC  
2481 CATGTAACAT ATGGCTAGCA TGACTGGTGG ACAGCAAATG GGTCCGGGAT CCGAATTCGA TCCACCGGAT CTAGATAACT  
2561 GATCATAATC AGCCATACCA CATTGTAGA GTTTTACTT GCTTTAAAAA ACCTCCCAACA CCTCCCTCG AACTGAAAC  
2641 ATAAAATGAA TGCAATGTT GTTGTAACT TGTMTAATGC AGCTTATAAT GGTTACAAAT AAAGCAATAG CATCACAAT  
2721 TTCACAAATA AAGCATTTTT TTCACTGCAT TCTAGTTGTG GTTGTCCAA ACTCATCAAT GTATCTTAAAC GCGTAAATTG  
2801 TAAGCGTTAA TATTTTGTTA AAATTCGCGT TAAATTTTTG TTAATCAGC TCATTTTTTA ACCAATAGGC CGAAATCGGC  
2881 AAAATCCCTT ATAAATCAA AGAATAGACC GAGATAGGGT TGAGTGTGTT TCCAGTTTGG AACAAGAGTC CACTATTTAA  
2961 GAACGTGGAC TCCAACGTCA AAGGGCGAAA AACCGTCTAT CAGGGCGATG GCCCACTACG TGAACCATCA CCTAATCAA  
3041 GTTTTTGGG GTCGAGGTGC CGTAAAGCAC TAAATCGGAA CCTTAAAGGG AGCCCCGAT TTAGAGCTTG ACGGGGAAAG  
3121 CCGCGAAGC TGGCGAGAAA GGAAGGGAAG AAAGCGAAG GAGCGGGCGC TAGGGCGCTG GCAAGTGTAG CGGTACGCT  
3201 GCGCGTAACC ACCACACCCG CCGCGCTTAA TGCGCCGCTA CAGGGCGCGT CAGGTGGCAC TTTTCGGGGA AATGTGCGCG  
3281 GAACCCCTAT TTGTTTATTT TTCTAAATAC ATTCAAATAT GTATCCGCTC ATGAGACAAT AACCTGATA AATGCTTCAA  
3361 TAATATTGAA AAAGGAAGAG TCTTAGGCG GAAAGAACCA CACTGTGAAAT GTGTGTGAGT TAGGGTGTGG AAAGTCCCCA  
3441 GGTCCCCAG CAGGCAGAAG TATGCAAGC ATGCATCTCA ATTAGTCAGC AACCAAGTGT GGAAGATPCC CAGGCTCCCC  
3521 AGCAGGCAGA AGTATGCAAA GCATGCATCT CAATTAGTCA GCAACCATAG TCCCGCCCTT AACTCCGCC ATCCCGCCC  
3601 TAACTCCGCC CAGTTCGCC CATTCTCCG CCCATGGCTG ACTAATTTTT TTTATTTATG CAGAGGCCGA GGCCGCTCG  
3681 GCCTCTGAGC TATTCAGAA GTAGTGAGGA GGCTTTTTTG GAGGCTAGG CTTTTGCAA GATCGATCAA GAGACAGGAT  
3761 GAGGATCGTT TCGCATGATT GAACAAGATG GATTCACGC AGTTCCTCG GCCGCTTGG TGGAGAGGCT ATTCGGCTAT  
3841 GACTGGGCAC AACAGACAAT CGGCTGTCT GATGCCGCG TGTCCGGCT GTCAGCGCAG GGGCGCCCG TCTTTTTTGT  
3921 CAAGACCGAC CTGTCCGGTG CCCTGAATGA ACTGCAAGAC GAGGCAGCGC GGCTATCGTG GCTGGCCACG ACGGGCGTTC  
4001 CTTGCGCAGC TGTGCTCGAC GTTGTCACTG AAGCGGGAAG GGAAGTGGCT CTATTTGGGG AAGTGCGGG GCAGGATCTC  
4081 CTGTCACTC ACCTTGCTCC TGCCGAGAAA GTATCCATCA TGCTGATGC AATGCGGCG CTGCATACG TTGATCCGGC  
4161 TACCTGCCCA TTCGACCACC AAGCGAACA TCGCATCGAG CGAGCACGTA CTCGGATGGA AGCCGCTTGT GTCGATCAGG  
4241 ATGATCTGGA CGAAGAGCAT CAGGGCTCG CGCCACCGA ACTGTTCCGC AGGCTCAAG CGAGCATGCC CGACGGCGAG  
4321 GATCTCTGG TGACCATGG CAGTCCCTGC TTGCCGAATA TCAATGTTGA AAATGGCCCG TTTTCTGGAT TCATCGACTG  
4401 TGGCCGGCTG GGTGTGGCG ACCGCTATCA GGACATAGCG TTGCTTACC GTGATATTGC TGAAGAGCTT GCGCGCAAT  
1481 GGGCTGACCG CTTCTCTGTG CTTTACGGTA TCGCCGCTCC CGATTCCGAG CGCATCGCT TCTATCGCT TCTTACGAG  
4561 TTTCTGTAG CGGGACTCTG GGGTTGAAA TGACCGACCA AGCGACGCC AACCTGCCAT CACGAGATTT CGATTCCACC  
4641 GCCGCTTCT ATGAAAGTT GGGCTTCGGA ATCGTTTTCC GGGACGCGG CTGGATGATC CTCAGCGCG GGGATCTCAT

gfp w/ DCX correct  
[Strand]

4721 GCTGGAGTTC TTCGCCACC CTAGGGGGAG GCTAACTGAA ACACGGAAGG AGACAATACC GGAAGGAACC CGCGCTATGA  
4801 CGGCAATAAA AAGACAGAAT AAAACGCACG GTGTTGGGTC GTTTGTTCAT AAACGCGGGG TTCGGTCCCA GGGCTGGCAC  
4881 TCTGTCGATA CCCACCGAG ACCCCATTGG GGCCAATACG CCCGCGTTTC TTCTTTTCC CCACCCACC CCCCAAGTTC  
4961 GGGTGAAGGC CCAGGGCTCG CAGCCAACGT CGGGGCGGCA GGCCCTGCCA TAGCCTCAGG TTACTCATAT ATACTTTAGA  
5041 TTGATTTAAA ACTTCATTTT TAATTTAAAA GGATCTAGGT GAAGATCCTT TTTGATAATC TCATGACCAA AATCCCTTAA  
5121 CGTGAGTTTT CGTTCCACTG AGCGTCAGAC CCCGTAGAAA AGATCAAAGG ATCTTCTTGA GATCCTTTTT TTCTGCGCGT  
5201 AATCTGCTGC TTGCAAACAA AAAAACCACC GCTACCAGCG GTGGTTTGT T GCCGGATCA AGAGCTACCA ACTCTTTTTC  
5281 CGAAGGTAAC TGGCTTCAGC AGAGCGCAGA TACCAAATAC TGTCTTCTA GTGTAGCCGT AGTTAGGCCA CCACTTCAAG  
5361 AACTCTGTAG CACCGCTAC ATACCTCGCT CTGCTAATCC TGTACCAGT GGCTGCTGCC AGTGGCGATA AGTCGTGTCT  
5441 TACCGGGTGC GACTCAAGAC GATAGTTACC GGATAAGGCG CAGCGGTCGG GCTGAACGGG GGGTTCGTGC ACACAGCCCA  
5521 GCTTGGAGCG AACGACCTAC ACCGAACTGA GATACCTACA GCGTGAGCTA TGAGAAAGCG CCACGCTTCC CGAAGGGAGA  
5601 AAGCGGACA GGTATCCGGT AAGCGGCAGG GTCGGAACAG GAGAGCGCAC GAGGGAGCTT CCAGGGGAA ACGCCTGGTA  
5681 TCTTTATAGT CCTGTCGGGT TTCGCCACCT CTGACTGAG CGTCGATTTT TGTGATGCTC GTCAGGGGGG CGGAGCCTAT  
5761 GGAAAAACGC CAGCAACGCG GCCTTTTTAC GGTTCCTGGC CTTTTGCTGG CTTTTGCTC ACATGTTCTT TCCTGCGTTA  
5841 TCCCTGATT CTGTGGATAA CCGTATTACC GCCATGCAT