

File S1

Docking lines

DNA sequence of *Anopheles gambiae* attP docking lines X1, X13, X6 and XK. attP sites are embedded in a small piggyBac transposon; sequence is provided in its genomic context with flanking segments from the mosquito chromosome.

X1 line (2L: 1802562)

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LOCUS      X1 locus          12061 bp      DNA      circular      20-Jan-2010
FEATURES             Location/Qualifiers
  misc_feature      1193..1328
                   /note="PiggyBac 5'region"
  misc_feature      798..1018
                   /note="attP'"
  misc_feature      504..661
                   /note="PiggyBac 3'region"
  misc_feature      754..787
                   /note="loxP"
  misc_feature      1..503
                   /note="A. gambiae chromosome 2L"
  misc_feature      1329..1745
                   /note="A. gambiae chromosome 2L"
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ORIGIN

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1 ctcaataaca tgcccgtcat gagttcaagc ctgaaataga ccgccccccc gcagcaaaga
61 tttgacttat ctggctgctt cgtaattaat taagtctcca aagcctgtat aggccggcat
121 gtccgcgtag ggcgttacgc caaatagaag aagagaagac acgtatgtca taccctcgta
181 tttatgtata gataaatatt cttaccttcc agaaaaaagt ttgtgtcatc atctgattct
241 accgtggata caaagcttta tttatttctc ttttacaact acaatagtat ttttaatgat
301 tctttaaaat agtgtatgta gtttcagact catcgcaaaa aaaaataaat aaagtttaac
361 tgcttccagg agaacttgaa gctaccaata atttataggg aagattggaa tccatccatt
421 ggacgatgat attatttgct ttaagaagag atatattacg gcaaacatta gtgaagataa
481 caccAttttg tattttgttt taaccctaga aagataatca tattgtgacg tacgttaaag
541 ataatcatgc gtaaaattga cgcattgtgt ttatcgggtc gtatatcgag gtttatttat
601 taatttgaat agatattaag ttttattata tttacactta catactaata ataaattcaa
661 caacaatttt atttatgttt atttatttat taaaaaaaaa aaaaactcaa aatttcttct
721 ataaagtaac aaaactttta tcgaattgag ctcataactt cgtataatgt atgctatacg
781 aagttatggg acctgcagta ctgacggaca caccgaagcc ccggcggcaa cctcagcgg
841 atgccccggg gcttcacggt ttcccaggtc agaagcgggt ttcgggagta gtgccccaac
901 tggggtaacc tttgagttct ctcatgtggg ggcgtagggt cgccgacatg acacaagggg
961 ttgtgaccgg ggtggacacg tacgcgggtg cttacgaccg tcagtgcgcg gagcgcgatc
1021 taatctataa caagaaaata tatatataat aagttatcac gtaagtagaa catgaaataa
1081 caatataatt atcgtatgag ttaaacttta aaagtcacgt aaaagataat catgcgtcat
1141 tttgactcac gcggtcgtta tagttcaaaa tcagtgcacac ttaccgcatt gacaagcagc
1201 cctcacggga gctccaagcg gcgactgaga tgtcctaata gcacagcgac ggattcgcgc
1261 ttttagaaa gagagagcaa tttttcaaga atgcatgcgt caattttacg cagactatct
1321 ttctaggggt aagtAtcatg aatatgtggg aatGaTatta atCgaatgag cattAagggg
1381 ccaaccataa attacgtaac aatatcagtg ggccaacgat attttagacc gaacaaatag
1441 ataggagagt tctagactgt gTatcaaaac atgaacataa ttAaaaaaaa cttatttfaat
1501 ttctgttggg aaaCactttg gttaatcaag atagttttga aagtttattt caaaagctca
1561 agctatcacg atagtgtgac aattactttg tctctaaaag caacagtgty aatgggttgc
1621 agttgttctt gtttgatgag gttattttca cctccttcgg cttatttctt tcttattttt
1681 agttattgga tttacatatg tcgaggggagc tggcgtttta aaggcgaag aattgtaccg
1741 gaatt
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X13 line (2L: 2798380)

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LOCUS      X13 locus          12772 bp    DNA      circular    20-Jan-2010
FEATURES   Location/Qualifiers
  misc_feature   1099..1319
                /note= "attP'"
  misc_feature   805..962
                /note="PiggyBac 3' region"
  misc_feature   1055..1088
                /note="loxP"
  misc_feature   1494..1629
                /note="PiggyBac 5' region"
  misc_feature   1630..2459
                /note="A. gambiae chromosome 2L"
  misc_feature   1..804
                /note="A. gambiae chromosome 2L"

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ORIGIN

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1  ggggtggacaa  gtcaacgctt  attggtatgc  agtggtttcg  ctcgttggtc  aaacctcggg
61  ttgacctcta  cggaaagggc  ggaaaggagg  aaaagagcga  aagcaacagg  catggtgatg
121  caccacacac  gcaactgacg  aagatgccac  agggatggga  aacttaactg  gccaatattg
181  acaatthttc  gcttacgtgt  gtaaacaatg  agcgccgaga  gtatattgat  tttctatcga
241  ttgtgcatcc  ctthaacctg  cacggactga  ctthaacga  gtgggtgttt  atcgaagacg
301  agtgcgtaac  gagtgtgaag  gcagcatgct  ggaagcaaag  cgacgttctt  ctaactatcc
361  tcatcacatc  aagcaatccg  acacatctaa  acggaacat  tttatgggtg  gctctgtcat
421  cgtgcatcgc  cgctcgccaa  atgtctatat  tgatggctat  aaacacataa  agcaatcgtg
481  gccgcttgcc  ctcccgggg  ctccactctc  agctctcgaa  gcttttacc  ggcgcacaga
541  cgaatggcgt  atttatgcga  ccaacgaatg  gcccaaccct  tggttggctg  gtgttttatt
601  ttactthttt  ttgcgacgct  tggttctctg  gatgcgagcg  gagccgtaaa  agtggtcgaa
661  aatgaaaata  caccggaag  atgcccggag  ccacggagtc  acgaaatcaa  tttccaccag
721  ctgaaggatg  cttgggttcc  tttttatgt  gtttgctgc  agtcgttgcc  ggtatttgac
781  gcattgcccc  tgggagggtt  ttaaccctag  aaagataatc  atattgtgac  gtacgttaaa
841  gataatcatg  cgtaaaattg  acgcatgtgt  tttatcggtc  tgtatatcga  ggtttattta
901  ttaatthgaa  tagatattaa  gttttattat  atttacactt  acatactaata  aataaattca
961  acaacaat  tatttatggt  tatttattta  ttaaaaaaaaa  caaaaactca  aaatthcttc
1021  taaaagtaa  caaaactttt  atcgaattga  gctcataact  tcgtataatg  tcgctatac
1081  gaagttatgg  tacctgcagt  actgacggca  acaccgaagc  cccggcggg  accctcagcg
1141  gatgccccgg  ggcttcacgt  tttcccaggt  cagaagcggg  tttcgggag  agtgccccaa
1201  ctggggtaac  ctttgagttc  tctcagttgg  gggcgtaggg  tcgccgacat  gacacaaggg
1261  gttgtgaccg  ggggtggacac  gtacgcccgg  gcttacgacc  gtcagtcgcg  cgagcgcgat
1321  ctaatctata  acaagaaaat  atatatataa  taagttatca  cgtaagtaga  acatgaaata
1381  acaataaat  tatcgatga  gttaaactct  aaaagtcacg  taaaagataa  tcatgctca
1441  ttttgactca  cgcggtcgtt  atagttcaaa  atcagtgaca  cttaccgcat  tgacaagcac
1501  gcctcacggg  agctccaagc  ggcgactgag  atgtcctaaa  tgcacagcga  cggattcgcg
1561  ctatttagaa  agagagagca  atatttcaag  aatgcatgcg  tcaatthtac  gcgactatc
1621  tttctagggt  taagggggac  tgggtggaag  catttgttt  tgctcgcttc  tttctctcg
1681  ttCTGTCTCT  ATCTatctct  gctttgtgcg  tagggcgtag  ggatgtatga  aaaagcttaT
1741  tgcgtgtgat  ggagttacac  aagtacgtac  atattcacia  cgacctggag  tggggtgat
1801  aatthtagat  ttcgaggatg  gttttgagg  ctttataatc  cccatgagtg  gggatgtct
1861  gggcatgatg  ttgtaattat  tttattaagg  gtttccgact  gacatgtgtg  ttaacagcga
1921  gtgtggcggg  gttttgtgcc  aggcgcttaa  atgaaatgca  ggaaatattt  tcaattggcg
1981  aacatccta  tgctgctttt  tattctgtag  tatgaagaca  attaaaattt  taattcaatt
2041  tcaattgcat  gccttaatgc  gctcaaaca  atgaacggag  ggctctttt  tttactthtg
2101  tagaataat  actthtaatt  tgatttgcag  ctactaacgc  ttatggcct  ttgtttgtat
2161  atagtacatt  ctacatttga  atcacaagaa  atactattat  aatcattctt  gtacataaaa
2221  actgtgttaa  aaaagaggtg  tcaaagcgtc  tttcctaact  acacatgaac  tatcatgtat
2281  taaagagttc  atacthttt  taaataattg  aaacttattg  cagttgattt  tatcagatt
2341  gttttttgat  ataacagata  agctcttgac  ttaatctaca  tattaagaa  cttatcatca
2401  tttttctgac  ttacctgaat  gactatgact  aatgtcact  gacaggtgaa  agtggatgg

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X6 line (3R: 53037011)

LOCUS	X6 locus	2127 bp	DNA	linear	12-MAY-2009
FEATURES	Location/Qualifiers				
misc_feature	691..724				
	/note="loxP"				
misc_feature	735..955				
	/note="attP"				
misc_feature	complement(1130..1265)				
	/note="PiggyBac 5' region"				
misc_feature	complement(441..598)				
	/note="PiggyBac 3' region"				
misc_feature	1..440				
	/note="A. gambiae chromosome 3R"				
misc_feature	1266..2127				
	/note="A. gambiae chromosome 3R"				
source	1..2127				
	/dnas_title="X6"				

ORIGIN

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1 GCAAAACGGA AGGAGGAAAT GTAACAAAGA ATAGGTTTCA ACTAGGCATG GGCAAAAGAA
61 TTCTTTTTCAC CGATCGCGAG CGTACTAGTT CGCTCAGTAA AAAGAACCGA ACGCGAACGG
121 CGATTCTATC GTTAATTTTT TAATCAATAT GACCCAGCCA TATCCCTAGC AGGATTTTCT
181 ATTAACAAAT TATTTATTCG TTATTTAGCC TGCATTAATA ATTTGCATTA CCCATGATTG
241 TGCATAGTAA AGTTGCAGAA GTGTATACAA CCACGCGGTT GAACCAAAAG CAAACAAGAA
301 ATTTAACTAA CAAACCGCGT TGTCTTATTT CCAATTTTAC AATATATTTA CATACTAGTT
361 GATATCATAG AGTGTGCCTG GCAAAATGTA TCATTCATTT AGTTGTGTTT GAAAATTTAT
421 TCATAGTTCA TTATGtTTAA CCCTAGAAAAG ATAATCATAT TGTGACGTAC GTTAAAGATA
481 ATCATGCGTA AAATTGACGC ATGTGTTTTT TCGGTCGTGA TATCGAGGTT TATTTATTTA
541 TTTGAATAGA TATTAAGTTT TATTTATTTT AACTTTACAT ACTAATAATA AATTCACAA
601 ACAATTTATT TATGTTTATT TATTTATTTA AAAAAACAAA AACTCAAAAT TTTCTCTATA
661 AAGTAACAAA ACTTTTATCG AATTGAGCTC ataacttcgt ataatgtatg ctatcacgaag
721 ttatGGTACC TGCAGTACTG ACGGACACAC CGAAGCCCCG GCGGCAACCC TCAGCGGATG
781 CCCCAGGGCT TCACGTTTTT CCAGGTCAGA AGCGGTTTTT GGGAGTAGTG CCCCAACTGG
841 GGTAACCTTT GAGTTCCTCT AGTTGGGGGG GTAGGGTCGC CGACATGACA CAAGGGGTTG
901 TGACCGGGGT GGACACGTAC GCGGGTGCCT ACGACCGTCA GTCGCGCGAG CGCGATCTAA
961 TCATAACAAA GAAAATATAT ATATAATAAG TTATCACGTA AGTAGAACAT GAAATAACAA
1021 TATAATTTATC GTATGAGTTA AATCTTAAAA GTCACGTAAA AGATAATCAT GCGTCATTTT
1081 GACTCACGCG GTCGTTATAG TTCAAAATCA GTGACACTTA CCGCATTTGAC AAGCACGCCT
1141 CACGGGAGCT CCAAGCGGCG ACTGAGATGT CCTAAATGCA CAGCGACGGA TTCGCGCTAT
1201 TTAGAAAGAG AGAGCAATAT TTCAAGAATG CATGCGTCAA TTTTACGCAG ACTATCTTTC
1261 TAGGGTTAAC AATTTATTAAC TCTTcACAAA ATTTAAAAAA AAAGCTCAAC TATACCTTGA
1321 CTGTCTTACT AAGAGAAAAA ATCAAAAAGAA TATATTATGA ATTTGTGTTG AAGAAAACTA
1381 ATTCGTGTAG TTTTTTAGGT AGTAATCTTG TTCGTTTTTC TGAAAATATC TAGCCTGTTT
1441 TGGAGAAAAC TCTCTCAAGA GGGTTTTTCCA TTGCTAAAAT GTACAATGTT GGATATTTCA
1501 TACGATTTTC TTGCCACCAT GATAGAGGAT CTCGTTCCAA TGCAATTGGA TTTACCTTAA
1561 GGTACAAATT AATTTCGGCT TCCGCAAGTT CCCTAAGAGT ATAAGATGTT TCCAATTCAG
1621 AATGACAGAC TATGTCGCCA TATAATAAGT TTGCATCAGT ATTAGATTTG AAAGCATCCT
1681 CTCTTACATT ACATCCTCTT ATATTTGTTT GCTCTCCTGA AGGGAAGCA TATCCGTTAG
1741 TATCAAATCA TGTGTTTTTT TTAGTTTATC GGGTTCATTC TGAAACCCCG CTTTCATCAC
1801 ACGTGGATCT AGGAACATTG CTTTCCAAAT TTGATGGTTA TCTCTATACA ATTTAAGTTT
1861 TTCCCTCTGTG TTTTCAACTA GTAAAGATAT CAAAGTCTTT ACTTCTGGGA CTAATTCTGTT
1921 GTTCAATAGC AAAGTTGAAG TTTTACGCAA TAATACATTA GCTAACGTGT GAAAGGGTGC
1981 TATGTTGTTT CGCCGAACT AATTTAGTTT CTGATGCAAA ATATTTGAGT GCCTCCAATC
2041 ATTGCTCGAT AATTACCCAA TCAGTGGGTG ACAAGTTGGT TTTTATTTTT AAGCTATCTA
2101 CGCACTAAAG AATGGGTATT TTATTTT
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XK line (X: 22463468)

LOCUS	XK	1666 bp	DNA	linear
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FEATURES             Location/Qualifiers
    misc_feature     1248..1383
                       /note="PiggyBac 5'TR"
    misc_feature     853..1073
                       /note="attP'"
    misc_feature     809..842
                       /note="loxP"
    misc_feature     1..558
                       /note="A. gambiae X chromosome"
    misc_feature     559..804
                       /note="PiggyBac 3' region"
    misc_feature     1384..1666
                       /note="A. gambiae X chromosome"
    source           1..1666
                       /dnas_title="XK"

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ORIGIN
   1 TATCTCGAAT TTCTGCGTAG GTCGAGCCTC TTAATTTTTTA GCCAAAATAT CACTAATTTTC
  61 GTTTAATTGT GCAAGGGGGT GGTTTTAGCC ACGTAATCTA TTATTTGATA TGAGTCTGAT
 121 TAAATTTAAC AGTTTTAATC CTGTTGATTT GGTTTTAAAC ATTTCGATCAA AAAGGTAATT
 181 ATTTTGCATT TGACAAAAAT TGATGAGTCA AATCAGTACA ATTTGCTCAA AGAACGTCA
 241 TATTTAGAAT CTCCTATTCC GCGTATTAGA GGTACCGTGT ATCTCAGGGA CTTCCTGTAC
 301 TTTTGTATCT TGTTGTTTGT TACACGGAAT GATTTTTCC TGAATTATGC
 361 TGCTACTCGC ACGACGCTGA TGATGCACCT CACGAATAGA TACAAGAGAT TTCGGGAGTT
 421 TTCTTAATTT TGGGACACTT TCTTGATTGT GTTTTACGAG TAGTGAGAAC TTTATGTGAT
 481 AAGAAGTGAA GTCTAAGTGT TGAAAAACGC GGTGGATTTT TTAGAGAAAA CACTTTATTT
 541 ACTGTGGTAT GAGGTTAAcc ctagaagat aatcatattg tgacgtacgt taagataat
 601 catgcgtaaa attgacgcat gtgttttacc ggtctgtata tcgaggttta tttattaatt
 661 tgaatagata ttaagtttta ttatatttac acttacatac taataataaa ttcaacaac
 721 aatttattta tgtttattta tttattaataa aaaacaaaaa ctcaaaattt cttctataaa
 781 gtaacaaaac ttttatcgaa ttgagctcat aacttcgcat aatgtatgct atacgaagtt
 841 atggtacctg cagtactgac ggacacaccg aagccccggc ggcaaccctc agcggatgcc
 901 cgggggcttc acgttttccc aggtcagaag cggttttcgg gagtagtgcc ccaactgggg
 961 taacctttga gttctctcag ttggggggcgt agggtcgccg acatgacaca aggggttggtg
1021 accgggggtgg acacgtacgc ggggtgcttac gaccgtcagt cgcgcgagcg cgatctaac
1081 tataacaaga aaatatatat ataataagtt atcacgtaag tagaacatga aataacaata
1141 taattatcgt atgagttaaa tcttaaaagt cacgtaaaag ataatcatgc gtcattttga
1201 ctcacgcggt cgttatagtt caaaatcagt gacacttacc gcattgacaa gcacgcctca
1261 cgggagctcc aagcggcgac tgagatgtcc taaatgcaca gcgacggatt cgcgctattt
1321 agaaagagag agcaatattt caagaatgca tgcgtcaatt ttacgcagac tatctttcta
1381 gggTTAAATC CAAAAATTAG TCCACTTGTA CCGATTGTCG AATTTCAACT AACTGGTTAG
1441 GAGCGGACCA ACCCTTCTCC TTATCTCCTA ATTTACCGTT TTTATCCTCC CTCTACTCT
1501 CTTCTCTAGC GTTGTACCTT GACAGACTGT TGGGCACTCA CGAGTTTCCA ACACCTAAGAA
1561 TAAGAAGTCT ACGGCACCCT TTTTGAAACG GCTTTTATAT ATTTACTCCA GCGTAGAAAC
1621 ACACGCTCTT GGATTC'TTTT TCACCATAAC CACTCCCATT CCCGGG

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