

Supplementary Sequence information:

Sequence alignment of the regions where the two arms of the construction differ (Oxa7 vs. oxa 11).
The indices are relative to the center of the construction. The numbers in bold are the indices corresponding to fig 5A and 5B

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Oxa7 arm      GTTCGCAATCTGGGTATGTTTGTTCCTGAGCGCGGTTGGTGCTGTTGGCGTTCGGT 2280
Oxa11 arm     GTTCGCAATCTGGGTATGTTTGTTCCTGAGCGCGGTTGGTGCTGTTGGCGTTCGGT 2280
*****

Oxa7 arm      CAGTGCCGGACTGTCCAGTGGGCTTTTCTGTTCGTTTCATCCATTACCACCTTAACCGCC 2340
Oxa11 arm     CAGTGCCGGACTGTCCAGTGGGCTTTTCTGTTCGTTTCATCCATTACCACCTTAACCGCC 2340
*****

                2386
Oxa7 arm      TTTGGCGTTGCAGCAAGCGTTTCAGACGTGCTGTTGGTTGCACTGCT--GAAAACATTTG 2398
Oxa11 arm     TTTGGCGTTGCAGCAAGCGTTTCAGACGTGCTGTTGGTTGCACTGCTATGAAAACATTTG 2400
*****

                2414                2427                2443
Oxa7 arm      CCGCATATGTAATTACTGCGTGTCTTTCAAGTACGGCATTAGCTAGTTCAATTACAGAAA 2458
Oxa11 arm     CCGCATATGTAATTATCGCGTGTCTTTGAGTACGGCATTAGCTGGTTCAATTACAGAAA 2460
*****

                2465                2505
Oxa7 arm      ATACGTTTTGGAACAAAGAGTTCTCTGCCGAAGCCGTCATGGTGTTTTTCGTGCTTTGTA 2518
Oxa11 arm     ATACGTTCTTGAACAAAGAGTTCTCTGCCGAAGCCGTCATGGTGTTCTCGTGCTTTGTA 2520
*****

                2548
Oxa7 arm      AAAGTAGCAGTAAATCCTGCGCTACCAATAAAGGAAATATCTTC 2578
Oxa11 arm     AAAGTAGCAGTAAATCCTGCGCTACCAATGACTTAGCTCGTGATCAAAGGAAATATCTTC 2580
*****

Oxa7 arm      CAGCATCAACATTTAAGATCCCCAACGCAATTATCGGCCTAGAACTGGTGTCATAAAGA 2638
Oxa11 arm     CAGCATCAACATTTAAGATCCCCAACGCAATTATCGGCCTAGAACTGGTGTCATAAAGA 2640
*****

                2650                2685
Oxa7 arm      ATGAGCATCAGATTTTCAAATGGGACGGAAAGCCAAGGCCATGAAACAATGGGAAAGAG 2698
Oxa11 arm     ATGAGCATCAGGTTTTCAAATGGGACGGAAAGCCAAGGCCATGAAGCAATGGGAAAGAG 2700
*****

                2705                2733
Oxa7 arm      ACTTGAGCTTAAGAGGGGCAATACAAGTTTCAGCGGTTCCCGTATTTCAACAAATCGCCA 2758
Oxa11 arm     ACTTGACCTTAAGAGGGGCAATACAAGTTTCAGCTGTTCCCGTATTTCAACAAATCGCCA 2760
*****
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2790 2805 2811 2813
Oxa7 arm GAGAAGTTGGCGAAGTAAGAATGCAGAAATATCTTAAAAAATTTTCATATGGTAACCAGA 2818
Oxa11 arm GAGAAGTTGGCGAAGTAAGAATGCAGAAATACCTTAAAAAATTTTCCTATGGCAGCCAGA 2820

2853 2855
Oxa7 arm ATATCAGTGGTGGCATTGACAAATTCTGGTTGGAGGGTCAGCTTAGAATTTCCGCAGTTA 2878
Oxa11 arm ATATCAGTGGTGGCATTGACAAATTCTGGTTGGAAGACCAGCTTAGAATTTCCGCAGTTA 2880

2906 2928 2937
Oxa7 arm ATCAAGTGGAGTTTCTAGAGTCTCTATTTTTAAATAAAATTGTCAGCATCAAAGAAAATC 2938
Oxa11 arm ATCAAGTGGAGTTTCTAGAGTCTCTATTTTTAAATAAAATTGTCAGCATCTAAAGAAAACC 2940

2973 2976 2988
Oxa7 arm AGCTAATAGTAAAAGAGGCTTTGGTAACGGAGGCTGCGCCTGAATATCTTGTGCATTCAA 2998
Oxa11 arm AGCTAATAGTAAAAGAGGCTTTGGTAACGGAGGCGGCACCTGAATATCTAGTGCATTCAA 3000

3057
Oxa7 arm AAAC TGGTTTTTCTGGTGTGGGAAC T GAGTCAAATCCTGGTGTGCGCATGGTGGGTTGGTT 3058
Oxa11 arm AAAC TGGTTTTTCTGGTGTGGGAAC T GAGTCAAATCCTGGTGTGCGCATGGTGGGTTGGTT 3060

3071
Oxa7 arm GGGTTGAGAAGGGAGCAGAGGTTTACTTTTTTCGCCTTTAACATGGATATAGACAACGAAA 3118
Oxa11 arm GGGTTGAGAAGGAGACAGAGGTTTACTTTTTTCGCCTTTAACATGGATATAGACAACGAAA 3120

3119 3161
Oxa7 arm ATAAGTTGCCGCTAAGAAAATCCATTCCACCAAATCATGGCAAGTGAGGGCATCATTG 3178
Oxa11 arm GTAAGTTGCCGCTAAGAAAATCCATTCCACCAAATCATGGAAAGTGAGGGCATCATTG 3180

3187
Oxa7 arm GTGGCTAAGAGCTGCACTATCCCCTTTCTCGTTGTGTCCGCATCCTCAAGCGCGACAGCT 3238
Oxa11 arm GTGGCTAA-AGCTGCACTATCCCCTTTCTCGTTGTGTCCGCATCCTCAAGCGCGACAGCT 3239
