**Figure S8. Alignment of nucleotide sequences corresponding to *igma* and *igmb*.**

1 50

igma\_BT058702 (1) --------------------------------------------------

igmb\_BT059185 (1) CTTTTACAGAATTTTAGAACTTTTTCACAATGAGAGTTGTAGAATGTGTG

51 100

igma\_BT058702 (1) --------------------------------------------------

igmb\_BT059185 (51) TTCCTCCTGGCTCTCATCTCAGCTGTTCAGGGGCAGTCACTCACCTCTTC

101 150

igma\_BT058702 (1) --------------------------------------------------

igmb\_BT059185 (101) TGAGCCATTAGTGAAGAGCCCTGGAGAGTCAGTAACACTGTACTGTACTG

151 200

igma\_BT058702 (1) --------------------------------------------------

igmb\_BT059185 (151) TGTCTGGTCTGCCCCTGAGCTGGTTACACTGGATCCGTCAGAAACCAGGG

201 250

igma\_BT058702 (1) --------------------------------------------------

igmb\_BT059185 (201) AAAGGTCTAGAGTGGATTGGACGCATTGACAGTGGCACTGGCACTATATT

251 300

igma\_BT058702 (1) ---------------------------------TTGGGATAGCGCTAATT

igmb\_BT059185 (251) TTCCCAGTCTCTACAGGGTCAGTTCACCATCACCAAAGACAACTCCAAAA

301 350

igma\_BT058702 (18) TCTATCTGCACAT------GACTCAACTGAAGCCAGAGGACTCTGCAGTG

igmb\_BT059185 (301) AACAGCTGTACTTAGAGGTGAAAAGCCTGAAGACTGAAGATTCTGCTGTT

351 400

igma\_BT058702 (62) TATTACTGTGCTAGACTCATAACTCTCAACTAC---TTTGACTACTGGGG

igmb\_BT059185 (351) TATTATTGTGCCAGAGATCGGGGGCGAGACTACGGTTTTGACTACTGGGG

401 450

igma\_BT058702 (109) GAAAGGGACCATGGTGACCGTGTCCACAGCCTCATCAACTGCTCCGACTT

igmb\_BT059185 (401) GAAAGGGACAATGGTTACAGTTTCATCAGCCTCATCAACTGCTCCGACTT

451 500

igma\_BT058702 (159) TGTTTCCTCTTGCGCAATGTGGCTCCGGGACCGGAGATATGATGACTCTG

igmb\_BT059185 (451) TGTTCCCTCTTGCGCAATGTGGCTCCGGGACCGGAGATATGGTGACTCTG

501 550

igma\_BT058702 (209) GGTTGCATTGCCACTGGCTTCACGCCTGCCTCCCTCACCTTCAAATGGAA

igmb\_BT059185 (501) GGTTGCATTGCCACTGGCTTCACGCCTGCCTCCCTCACCTTCAAATGGAA

551 600

igma\_BT058702 (259) TGAACAAGGCGGGAATTCCCTGACTGATTTCGTTCAGTACCCTGCGGTCC

igmb\_BT059185 (551) TGAACAAGGCGGAAATTCCCTGACTGATTTCGTTCAGTACCCTGCGGTCC

601 650

igma\_BT058702 (309) AAACCAGTGGAAGCTACATGGGAGTCAGTCAACTCCGTGTAAAGAGAGCA

igmb\_BT059185 (601) AAACCAGTGGAAGCTACATGGGAGTCAGTCAACTCCGTGTAAAGAGAGCA

651 700

igma\_BT058702 (359) GACTGGGACAGTAAAATCTTTGAATGCGCCGTGGAACATTCAGCTGGTTC

igmb\_BT059185 (651) GACTGGGACAGTAAAATCTTTGAATGCGCCGTGGAACATTCAGCTGGTTC

701 750

igma\_BT058702 (409) AAAGACTGTACCAGTGAAGAAACAAGCGGAATATCTGCAGCACCCGTCTC

igmb\_BT059185 (701) AAAGACTGTACCATTGAAGAAACAAGTGGAATATCTGCAGCACCCGTCTC

751 800

igma\_BT058702 (459) TTTACGTAATGACCCCCTCTAAAGAGGAGATGGCAGAAAATATGACGGCT

igmb\_BT059185 (751) TTTACGTAATGACCCCCTCTAAAGAGGAGATGGCAGAAAATAAGACGGCT

801 850

igma\_BT058702 (509) TCCTTCGCCTGCTTTGCCAATGACTTTTCACCCCGTACACACACAATCAA

igmb\_BT059185 (801) TCCTTCGCCTGCTTTGCCAATGACTTTTCACCCCGTACACACACAATCAA

851 900

igma\_BT058702 (559) ATGGATGAGGATGGAACAAGGAATAGAAAAAGAAGTTGTATCTGATTTCA

igmb\_BT059185 (851) ATGGATGAGGATGGAAAAAGGAATAGAAAAAGAAGTTGTATCTGATTTCA

901 950

**C205R051**

igma\_BT058702 (609) AGAGTTCTTGTGAGAGTGAGAAGAAGAGTGACAAAACTCTGTACAGCACA

igmb\_BT059185 (901) AGAGTTCTTGTGAGAGTGAGAAGAAGAGTGAGAAAACTCTGTACAGCACA

951 1000

igma\_BT058702 (659) ACCAGCTATCTCAGGGTCAATGAGAGTGAGTGGAAGAGTGAAGAAGT**AGC**

igmb\_BT059185 (951) ACCAGCTATCTCAGGGTCAATGAGAGTGAGTGGAAGAGTGAA**GAAGTTTC**

1001 1050

igma\_BT058702 (709) **ATTCACTTGCGTGTTTG**AGAACAAAGCTGGAAATGTGAGGAGAACTGTGG

igmb\_BT059185 (1001) **ATTCACTTGCGTGT**TTAAGAACAAAGCTGGAAATGTGAGGAGAACTGTGG

1051 1100

igma\_BT058702 (759) GCTACACTTCATCAGATGCAGGTCCAGTCCATGCACATT**CAGTAGTCATT**

igmb\_BT059185 (1051) GCTACACTTCATCAGATGCAGGTCCAGTCCATGCACATTCAGT**GGTCATT**

1101 1150

igma\_BT058702 (809) **AAGATCACCCCG**CCGTCTCTTGAGGATATGCTTATGAACAAAAAAGCTGA

igmb\_BT059185 (1101) **AACATCATCCCGC**CGTCTCTTGAGGATATGCTTATGAACAAAAAAGCTGA

1151 1200

**C061R085**

igma\_BT058702 (859) GCTTGTGTGCGATGTCGAGGAACTAGTTCCTGGCTTCATGAGTGTCAAAT

igmb\_BT059185 (1151) GCTTGTGTGCGATGTCAAAGAACTAGTTACTGGCTTCATGAGTGTCAAAT

1201 1250

igma\_BT058702 (909) GGGAAAATGACAATGGAAAGACCTTAACCAGCCGGAAGGGTGTCACTGAC

igmb\_BT059185 (1201) GGGAAAATGACAATGGAAAGACCTTAACCAGCCGGATGGGTGTCACTGAC

1251 1300

igma\_BT058702 (959) AGAATTGCCATACTTGACATCACTTATGAGGACTGGAGCAATGGGACAGT

igmb\_BT059185 (1251) AAAATTGCCATACTTGACATCACTTATGAGGACTGGAGCAATGGGACAGT

1301 1350

igma\_BT058702 (1009) ATTTTACTGCGCTGTAGATCACTTGGAAAACCTGGGGTCCTTGGTAAAGA

igmb\_BT059185 (1301) ATTTTACTGCGCTGTAGATCACTTGGAAAACCTGGGGTCCTTGGTAAAGA

1351 1400

igma\_BT058702 (1059) AACCCTACAAGAGGGAGACCGGAGGAGATCCACAGCGTCCATCTGTCTTT

igmb\_BT059185 (1351) AACCCTACAAGAGGGAGACCGGAGGAGATCCACAGCGTCCATCTGTCTTT

1401 1450

**C075R137**

igma\_BT058702 (1109) CTGCTGGCCCCAGCAGAAAAAACTAGTGATAATACGGTGACCCTGACTTG

igmb\_BT059185 (1401) CTGCTGGCCCCAGCAGAAAAAACTAGTGATAATACGGTGACCCTGACTTG

1451 1500

igma\_BT058702 (1159) CTACGTCAAAGACTTCTACCCCAAGGAAGTTTTAGTGGCTTGGCTTATTG

igmb\_BT059185 (1451) CTACGTCAAAGACTTCTACCCCAAGGAAGTTTTAGTGGCTTGGCTTATTG

1501 1550

igma\_BT058702 (1209) ATGATGAGCCGGTGGAGAGAACGAGCAGTTCAGCATTGTACCAATTCAAC

igmb\_BT059185 (1501) ATGATGAGCCGGTGGAGAGAACGAGCAGTTCAGCATTGTACCAATTCAAC

1551 1600

igma\_BT058702 (1259) ACCACTAGCCAGATTCAAACAGGAAGGACCTACTCTGTCTACAGTCAGCT

igmb\_BT059185 (1551) ACCACTAGCCAGATTCAATCAGGAAGGACCTACTCTGTCTACAGTCAGCT

1601 1650

igma\_BT058702 (1309) CACATTTAGCAATGACTTGTGGAAGAACAAAGAAGTGGTGTATAGCTGTG

igmb\_BT059185 (1601) CACATTTAGCAATGACTTGTGGAAGAACAAAGAAGTGGTGTATAGCTGTG

1651 1700

igma\_BT058702 (1359) TAGTTTACCACGAAAGCATGATCAAGTCCACAAAAATTCTTATGAGAACC

igmb\_BT059185 (1651) TAGTTTACCACGAAAGCATGATCAAGTCCACAAAAATTCTTATGAGAACC

1701 1750

igma\_BT058702 (1409) ATTGACAGAACCTCAAACCAACCCAACCTAGTTAACCTCAGCTTGAATGT

igmb\_BT059185 (1701) ATTGACAGAACCTCAAACCAACCCAACCTAGTTAACCTCAGCTTGAATGT

1751 1800

igma\_BT058702 (1459) GCCTCAGAGCTGCAAGGCCCAGTAGAGGTTGTGTTGTGTTTTGTTGATGT

igmb\_BT059185 (1751) GCCTCAGTGCTGCAAGGCCCAGTAGAGGTTGTGTTGTGTTTTGTTGATGT

1801 1850

igma\_BT058702 (1509) GTGTTGCTGTGTGTTACCTCTGCTGTTTGTGTTTGTGACATAACCATGTT

igmb\_BT059185 (1801) GTGTTGCTGCGTGTTACCTCTGCTGTTTGTGTCAGTGACATAAC-ATGTT

1851 1900

igma\_BT058702 (1559) GTGTGTCTTCCAAGTGCAGAATCA--------------------------

igmb\_BT059185 (1850) GTGTGTCTTTTAAGTGCAGAATCAAAATAAAAATAAAAACTTTAAATCAT

1901 1945

igma\_BT058702 (1583) ---------------------------------------------

igmb\_BT059185 (1900) TAAAAAAAAAAAAAAAAAAAACAAAAAAAAAAAAAAAAAAAAAGA