

Sargocentron_caudimaculatum -----
 Sargocentron_spiniferum -----
 Sargocentron_melanospilos -----AACCTCCA
 Sargocentron_rubrum -----ACTCCA
 Neoniphon_sammara -----TTATATAAT
 Sargocentron_diadema -----
 Sargocentron_punctatissimum -----
 Neoniphon_opercularis -----ATCTACAACAACTATC
 Myripristis_kuntee -----ACTTTTCAGACAT
 Myripristis_violacea -----ATTTTCAGACAT
 Myripristis_murdjan -----GTTCAACAGACAT
 Myripristis_berndti -----TCCAACAGACAT
 Myripristis_vittata -----TTTTTATACAT
 Ostichthys_japonicus CTTCCAGAATAAATGCCACACATCTATTTATTAATGCGGTTGTAGACAT

Sargocentron_caudimaculatum -----AACTACG--CCAGCCAAA-TTAAGAGAAAACATACGAGTAACA
 Sargocentron_spiniferum -----ACTACG--CCACACAAA-TTAAGAGAAAACATACGAGTGATA
 Sargocentron_melanospilos AACAACCACACCG--ACACATAAAA-ATAAGGGCAAACACTCGAACACG
 Sargocentron_rubrum AACAACCACACCG--ACACATAAAA-ATAAGGGCAAACACTCGAACACG
 Neoniphon_sammara ATTATTTACCCCAATCTATAGCTAC-AAAAGAGAAAACCCCAAGCGACA
 Sargocentron_diadema -----ACTTTAA-AAACCTCAA-CTTAAGGAAAAGCCTCGAGCGACA
 Sargocentron_punctatissimum ---ATTTCCACGACCTTATCAAACCTAAAGGGAATTTCCCGACAATA
 Neoniphon_opercularis TGTAATCTTTACACAATTTTATAGTTTGACGGGAAAAGTCCAAGTAGCG
 Myripristis_kuntee ATATACAATATTACCACATACTG-TACTTAAAAACAATACACCCAATGTTT
 Myripristis_violacea ATATACAATATTACCATATACTG-TACTTAAAAACAATACACCCAATGTTT
 Myripristis_murdjan ATATATAATATTACCATATATTG-TACT-AAAACATTACATGTAATGCTC
 Myripristis_berndti ATATACAATATTACCATATATTG-TACT-AAAACATTACATGTAATGCTC
 Myripristis_vittata ATATACAATATCACCATATAATGATATCAAGTGCATTAATGTAATGCTT
 Ostichthys_japonicus ATATGTATTATTACCATACATTTATATTAACATATAATATGTAATGCTT

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Sargocentron_caudimaculatum CGCA--ATGCTATGTATT--AACACCATTTCGT-CGGTACACACCATTTCAG
 Sargocentron_spiniferum CGCA--ATGCTATGTATT--AACACCATTTCGT-CGGTACACACCATTTCAG
 Sargocentron_melanospilos CCAAC-GCGCTATGTATT--TACACCATTAT-TGGTGTAAACCATACAG
 Sargocentron_rubrum CCAAC-GCGCTATGTATT--TACACCATTAT-TGGTGTAAACCATACAA
 Neoniphon_sammara ATAAC-TAACTATGTATT--TACACCATATAT-TGCTATACAATCCACAG
 Sargocentron_diadema AC-AT-CCGCTATGTATTA-TACACCATATAT-TTATATTAACCATTTCAG
 Sargocentron_punctatissimum AGATTTGAGCTATGTATT--ATCACCATACAA-TTATATTAACCATACAG
 Neoniphon_opercularis AATAC-AACTATGTATT--TACACCATATAT-TGATATTAACCCACAG
 Myripristis_kuntee TAAATACA-GTATATGTATTTACACCATATCA-TTATATTAACCATTCAA
 Myripristis_violacea TAAATACA-GTATATGTATTTACACCATACCA-TTATATTAACCATTCAA
 Myripristis_murdjan TCAAAACATACATATGTAATAACACCATAACGCTTATATTAACCATTTCAG
 Myripristis_berndti TTAAGACATACATATGTAATAACACCATAACATTTATATTAACCATTCAA
 Myripristis_vittata ATAAACATAATATATGTTATTTACCATTAAA-TTATTTAACCATTCAA
 Ostichthys_japonicus AAGGACA-AATATATGTATTATAACCATTGAT-TTATATTAACCATTCAA

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Sargocentron_caudimaculatum
Sargocentron_spiniferum
Sargocentron_melanospilos
Sargocentron_rubrum
Neoniphon_sammara
Sargocentron_diadema
Sargocentron_punctatissimum
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Myripristis_violacea
Myripristis_murdjan
Myripristis_berndti
Myripristis_vittata
Ostichthys_japonicus

GTAATACTA-----TCG-ACTAATATA--AATTTTACATAAACCATTA--
GTAATACTA-----TCG-ACTAAATCA--AACTTTACATAAACCATTA--
GTAATATTACAATATTC-ATGATTCCA--CATAGTACATTTTAAATTAC-
GTAATATTACAATATTC-ATGATTCCA--CATGGTACATTTTAAATTAC-
GTAATACTAGTTAACTA-AATATATTT--CATAATACATTTATATTTACC
GTAATACTAAATTATGATATAATTGTA--CATAAACCGTTATTGTAA--
GTAATACTAG-----TAAACCTTAAT--TATTTTACACACAAATACAT-
GTAATACTAATAAATATGCTTAATATTTGCATAATACATATTAATAATA
GAAGTACA-TTAAATG-CTTAATTT-TACATAATACATTC-AAATCTT-
GAAATACA-TTAAATG-CTTAATTT-TACATAATACATTC-AAATCTT-
GGAACAGA-TAGAAACG-CTTAATTT-CCCATAAGACATTTCAAGTCC-
GGAATGGAGTTAAAACG-CTTGATCTATCCATAAGACATTT-AAACTTT-
GGAATAAA-TGCGACCT-CATAATCT-TACATTATACATTA-ATACTCT-
GAAATAAC-AGTCAAGT-AA-AACAT-TACATAATACA--A-TTACATA-
* * * * *

Sargocentron_caudimaculatum
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Myripristis_violacea
Myripristis_murdjan
Myripristis_berndti
Myripristis_vittata
Ostichthys_japonicus

AA-ATATAAAATATTGA-----ATTCTAAAGTAACGGGA---CCATA-T
AA-ATATAAAATATTGA-----ATTCTAAAGTAACGAGA---CCATT-T
AA-GTATGAAGACATAA-----AAATGATATCAAAGGAA---ATATGGT
AA-GTATGAAGACATAA-----GAATGGTATCAAAGGAA---ATATGGT
GA-GAACGGGAACATAAC-----AAGTTAAATCAAGGAAATTTCCCTTAA
AA-ATCCATAAATATCAT-----GAATTCAGTGACGGGA---CCATA--
TG-GTTTAAATAGATCAC-----CATGCGAATAGTATGAA--AGTATGTT
AATATACATAAATAAATTAATTACAGACTAACATTAAGATTATTTATGAG
---TATTTTCATATATAAT-----CAATTCAAGGAA----TATAAT
---CATTTTCATATAAT-----TAATTCAAGGAA----TATAGC
---AGCCTCAGGCA-GATA-----CTGATTTAAGAGA----TA-AGT
---AGCTCCAGGCATGACA-----CTGATTTAAGAGA----TA-AGT
---TTATTCACCCCAGAT-----ACTCATCATC----CACTGT
---TTCATAACCATTTCGT-----AGTAA--AAT----AACTGT
* * * * *

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Myripristis_violacea
Myripristis_murdjan
Myripristis_berndti
Myripristis_vittata
Ostichthys_japonicus

ACTTGA-----AATATACA-----ACTAAAAAA
ACTTGA-----AATAACA-----ACTAAAAATA
TCGTAA-----AATCAAGA-----CCTAGCATAA
TCGTAA-----AATCAAGA-----TCTAGCATAA
AAGTAA-----GTTAAGA-----CCGAGCTATT
---TAT-----AATAAAAT-----TTTAACAGAT
TGAAAG-----ATTTAAGA-----CCGAACACAT
TCTTAACCAATATACAAGTATTTAATAGACATATATTATTTCTACTGAAT
ACTAGT-----AAACTCCACA-----CCTAACATAA
ACTAGT-----AAACTCCACA-----CTTAACATAA
ACCAGA-----ACACA--AGA-----CCTAACAGGA
ACTATA-----AAATA--AGA-----CCTAACAAATG
ATACAC-----GGATTTAAGA-----CCTAACACA-
AACCAA-----AAATTTAAGA-----CCTAACACTT
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Myripristis_murdjan
Myripristis_berndti
Myripristis_vittata
Ostichthys_japonicus

TGAAATCA--AATGGCAG--ATATACCAAGTAAT-CACCATTACAAGTGA
TGAAATCA--AATAGCAG--ATATACCAAGTAAC-CACCATTACAAGTGA
AGAAATCAT-GGCCAAAG--ATATACCAAGTCCC-CACCATATTA--TGA
AGAAATCAT-GGCCAAAG--ATATACCAAGTCCC-CACCATACCTA--TGA
CAAACCTTATAAGATAAAG--ATATACCAAGTCCC-CAACATCTCGTCATA
T-ATATCATCAGTCA-AG--ATATACCAAGTAAT-CCACATCCTGTTATA
TTAATTCATCAGTTT-AG--ATATACCAAGTAAT-CAACATTCCTATAATA
TGAACCTACAAGTAACAAGAACGTACCAAGTAACTCAACATCCCCTTATG
AAGTTATTTTAAAC--CAG--ATATACCAAGTAAT-CACCATTCATTTC
CAATTATTTTAAAC--CAG--ATATACCAAGTAAC-CACCATTCCTATTC
AGAAGAAATCGATTGCAC--ATATACCAAGTACT-CAACAATCTATTT-A
GAAAGAAATCGATTGCAT--ATATACCAAGCACT-CAACAACCTATTT-A
ATATTCATTAGTC--AAG--ATATACCAAGCACC-CAACATCCGGCC---
AAACCCATTAGTC--AAG--ATATACCACGTACC-CACCATCCCCTT---

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Myripristis_violacea
Myripristis_murdjan
Myripristis_berndti
Myripristis_vittata
Ostichthys_japonicus

AAATCACAT--TTTTAATGTAGTAAGAAACCACCAAAG-AATGATTACTA
AAATCGCACCATATTAATGTAGTAAGAAACCACCAAAG-AATGATTACTA
GATTAAAGGAATCTTAATGTAGTAAGAGACCACCAAAG-AATGATTCTA
GATTGAAGGAATCTTAATGTAGTAAGAGACCACCAAAG-AATGATTCTA
AAATT-CAGAACCTTAATGTAGTAAGAAACCACCAAAG-TTTGATTCCTG
AAACTTAACAT-TTAATGTAGTAAGAAACCACCAAAG-ATTGATTCCTT
TCTCTACAATAT-TTAATGTAGTAAGAAATCACCACCAAAG-TTTGATTCCTT
GATTT--AGAATCTTAATGTAGTAAGAAATCACCACCAAAG-TTTGATTCCTA
AGATCAAAAT-C-TGGATGCAGTAAGAAACCACCAAAG-GGTGATTCCTG
AGATCAAAAT-C-TGGATGCAGTAAGAAACCACCAAAG-GGTGATTCCTA
GAATAAGAATAT-TTAATGTAGTAAGAAACCAGCAATC-GGTGATTCCTG
AAATAAGAATAT-TTAATGTAGTAAGAAACCAGCAATC-GGTGATTCCTC
AAGAACAATAT-TTAATGTAGTAAGAAACCACCAAAG-GGTGATTCCTA
GAACACAAATTT-TTAATGTAGTAAGAAACCACCAAAG-GGTGATTCCTA

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Myripristis_violacea
Myripristis_murdjan
Myripristis_berndti
Myripristis_vittata
Ostichthys_japonicus

AATGCATTATA-TTCTTGATGGTCAGGGACAA-TAGAC-TGTGGGGGTA-
AATGCATTGTA-TTCTTGATGGTCAGGGACAA-TAGAC-TGTGGGGGTA-
AATGCATACGG-TTCTTGATGGTCAGGGACAA-TA-AT-TGTGGGGGTT-
AATGTACACGG-TTCTTGATGGTCAGGGACAA-TA-AT-TGTGGGGGTT-
AATGCATGCGAGTTAATGATGGTCAAGGACAAATAAAA-TGTGGGGGTA-
AATGCATACTA-TTATTGATGGTCAGGGACAA-TAACA-TGTGAGGGTT-
AATGCATATTA-TTCGTGATAGTCAAGGACA--TCAAT-CGTGAGGGTA-
AATGCATATGCTTTAATGATAATCAAGGGCAAGCACT-AACAAGAATTT
AAGGTACTCGG-TTCTTGATAGTCAAGGGCAGGCAAGCATGTGGGGGTA-
AAGATACTCGG-TTCTTGATGGTCAAGGGCAGGCAAGCATGTGGGGGTA-
AATGTATATCA-ATCATGATAATCACGGACAATAAAC--CGTGGGGGTA-
AATGTATATCA-ATCATGATAATCACGGACAATAAAC--TGTGGGGGTA-
AATGTATCTAG-TCCTTGATGGTCAGGGACAGTAATC---GTGGGGGTT-
ATTGCATACGG-TTCTTGATGGTCAAGGGACAGAAATTT---GTGGGGGTT-

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Sargocentron caudimaculatum
Sargocentron spiniferum
Sargocentron melanospilos
Sargocentron rubrum
Neoniphon sammara
Sargocentron diadema
Sargocentron punctatissimum
Neoniphon opercularis
Myripristis kuntee
Myripristis violacea
Myripristis murdjan
Myripristis berndti
Myripristis vittata
Ostichthys japonicus

-GCACTTAACTGAACTATTCCCTGGCATTGGTTCCCTACTTCAGGGCCATT
-GCACTTAACTGAATTATTCCCTGGCATTGGTTCCCTAATTTCAGGGTCATT
-TCACTTGATTGAACTATTCCCTGGCATTGGTTCCCTATTTTCAGGAACA--
-TCACTTGATTGAACTATTCCCTGGCATTGGTTCCCTATTTTCAGGAACA--
-GCACTTTGATGAACTATTACTGGCATTGGTTCCCTATTTTCAGGTACAT-
-TCACTTATTGAAATTATTCCCTGGCATTGGTTCCCTATTTTCAGGGCCATA
-GCACTTTAATGAATTATTACTGGCATTGGTTCCCTATTTTCAGGGCCAT-
GGCATTGAAATGAACTATTACTGGCATCTGGTTCCCTATTTTCAGGTCCAT-
-ACACTT-AATGATCTATTACTGGCATCTGGTTCCCTATTTTCAGGTATAA-
-ACACTT-AATGATCTATTACTGGCATCTGGTTCCCTATTTTCAGGTACAA-
-ACACTA-AATGATCTATTACTGGCATCTGGTTCCCTACTTCAGGCACA--
-ACACTG-AGTGATCTATTACTGGCATCTGGTTCCCTATTTTCAGGTACAA-
-TCACTT-AGTGAACTATTCCCTGGCATTGGTTCCCTACTTCAGGTCCAT-
-TCACTT-AGTGAACTATTCCCTGGCATTGGTTCCCTATTTTCAGGTCCAT-
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Myripristis kuntee
Myripristis violacea
Myripristis murdjan
Myripristis berndti
Myripristis vittata
Ostichthys japonicus

TAAACTGTAAACAATCCCCATA-TTAATGGACTTCAGCAGGCATAAGTTA
TAGGTTGCAATGAATCCCCATA-TAAATGAACTTCAGCAGGCATAAGTTA
TAACAAACCTTTAATCCCC-TA-TATCTCACATTTTCAGGCATAAGTTA
TAATAAACCTTTAATCCCC-TA-TATCCTACATTTTCAGGCATAAGTTA
--AACCATAATCAAACCCCAT--TGCATGAACTTTATCAGGCATAAGTTA
TTAATGAAAAT-ATTCCCCATA-ATAATTAATTTT-CCAGGCATAAGTTA
---AATACTGTAAGTACCCCTA-AATATGAATTTTATCAGGCATAAGTTA
AAACACACAAGTATTCCCCATAACAAGTGAATTTTATCAGGCATAGGTTA
TTTGA-AGCTTCAATCCCCATA-CAATCTCTTTCTAAGGGGCATAAGTTA
TTTGA-AGTCCCAGTCCCCATA-CAATTTCTTTCTAAAGGGCATAAGTTA
-TAAA-AGTAATAGTCCCCATA-AAA-CCCCTTCTAAAGGGCATAAGTTA
ATGAA-GGTAATAACCCCTACA-GAA-CTCTTTCTAAGGGGCATAAGTTA
AAAA--AGTAAAAACCCCTAAA-AAG-TTCCTACCAGCAGCATAAGTTA
TAATTTGGTAACATTCCCCATT-TCA-ATGCTCGTTCCAGGCATAAGTTA
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Myripristis violacea
Myripristis murdjan
Myripristis berndti
Myripristis vittata
Ostichthys japonicus

ATGGTGGTAATACATA--TTAACCTTTAC-CCCACATGCCGGGCATTCTC
ATGGTGGTAATACATA--TTAACCTTTAC-CCCACATGCCGGGCATTCTC
ATGGTGGTAATACATA--TTAACCTTTAC-CCCCATGCCGAGCGTTCTT
ATGGTGGTAATACATA--TTAACCTTTAC-CCCCATGCCGAGCGTTCTT
ATGGTGGTAATACATAAGTTAACCTTTAC-CCCACATGCCGGGCATTCTC
ATGGTGGTAATACATA--TTAACCTTTAC-CCCACATGCCGAGCACTCTT
ATGGTGG-AGTACATAA-TAACCTTTAC-CCCACATGCCGAGCATTCTC
ATGGTGG-AGTACATAA-TAACCTTTAC-CCCACATGCCGAGCATTCTT
ATGGTGG-CGTACATAA-ATACCCTTTAC-CCCACATGCCGAGCACTCTT
ATGGTGG-AGTACATAG-TTACCCTTTAC-CCCACATGCCGGGCGCTCTT
ATGGTGG-AGTACATAG-TCACCCTTTAC-CCCACATGCCGGGCGCTCTT
ATGGTGG-AGTACATAG-TCACCCTTTAC-CCCACATGCCGGGCGCTCTT
ATGGTGG-AGTACATA--TTACCCTTTAC-CCCACATGCCGGGCACTCTT
ATGGTGG-AGTACATA--TTACCCTTTAC-CCCACATGCCGGGCACTCTT
ATGGTGG-AGTACATA--TTACCCTTTAC-CCCACATGCCGGGCACTCTT
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Myripristis_violacea
Myripristis_murdjan
Myripristis_berndti
Myripristis_vittata
Ostichthys_japonicus

GCC-AAAGGGCAGTTGGTTCTCCTTTTTTAGCTTCCTTTCACCTTACATT
GCT-AAGGGGCAGTTGGTTTTCTTTTTTAGCTTCCTTTCACCTTACATC
TCT-AAGGGGCAACGGGTTTTCTTTTT-AGCTTCCTTTCACCTTACATT
TCT-AAGGGGCAACGGGTTTTCTTTTT-AGCTTCCTTTCACCTTACATC
TCT-AAGGGACAATTGGTTAATCTTTTTTAGCTTCCTTTCATTTTACATC
TCCCGAGGGGCAAGGGGTTTTCTTTTT-AGCTTCCTTTCACCTTACATC
TCC-AAAGGGCAATTGGTATTCTTTTTTAGCTTCCTTTCACCTTACATT
TCC-AAAGGACAATGGGTTTATAATTTTTTAGCTTCCTTTCACCTTGACATC
TCT-AAAGGGTAAGGGGTTTTACCTTTTCCGCTCCCTTTCATTTTACATT
TCT-AAAGGGTAAGGGGTTTTACTTTTTCCGCTCCCTTTCATTTTACATT
TCT-AAAGGGTAAGGGGTTTTACCTTTTTTCCGCTCCCTTTCATTTTACATC
TCT-AAAGGGTAAGGGGTTTTACCTTTTTTCCGCTCCCTTTCATTTTACATC
TCT-AAATGGGCAACGGGTTTTACCTTTTTTCCGCTCCCTTTCATTTTACATC
TCT-AAAGGGCAAGGGGTTCT-TCTTTTTTAGCTTCCTTTCATTTTACATC
* *

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Myripristis_murdjan
Myripristis_berndti
Myripristis_vittata
Ostichthys_japonicus

CCGGTGCA--ACGGCAAA-TAACTTAATGAAGGTTGAACATAC-TTTATG
CCAGTGCA--ACGATAAAAATAACTGAATGAAGGTTGAACATATATTTATA
CCGGTGCG--GCGGCAGA-AGGTAAACTCAAGGTTGAACAT---TTTCT-
CCGGTGCA--GCGGCAGA-AGGTAAACTCAAGGTTGAACAT---TTTCT-
CCCGTGCAATAACGAAAACATTTCAAAGTGAAGGTAGAACAT---TTCCT-
CCGGTGCA--ATGTCAATAATTAATAAT-AAGGTTGAACATAT-TATCTG
CCGGTGCG--AAGGATAAAATGATGATTTAAGGTAGTTTCAATA--TCCT-
CCAGTGCAAAAGCTAAGACAAACGTAAGTTAAGGTTGAACATT--TACCT-
CCGGTGCA---CCC-TAAAAATGAAAGCCAAGGTAGAACATA--TTCCT-
CCGGTGCA---CCC-TAAAAATGAAAGTCAAGGTAGAACATA--TTCCT-
CCGGTGCA---AAG-AAAAATTTAAT-TGGAGGTAGAACATG--TTCCT-
CCAGTGCA---AAG-GAAGGACTGAA-TGGAAGTGAACATG--TTCCT-
CCAGTGCA---GCGCTAAGGATAAAAATCAAGGTAGAGCATT--TCCTT-
CCAGTGCA---GCGCTAAGGTTAACTAATAAGGTAGAACATT--TTCTT-
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Sargocentron_rubrum
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Myripristis_kuntee
Myripristis_violacea
Myripristis_murdjan
Myripristis_berndti
Myripristis_vittata
Ostichthys_japonicus

TTGATATAATAACAAGTAATGTATTCTCCGGGCAGGAATATG----CATG
ATGGTGTAAATAACAATAATGTTTTCCCGGGCAA-AATGTG----CATG
-----TGCTTGCAAGGAAATAGTATT----CATG
-----TGCTTGCAAGGAAATAGTATT----CATG
-----TGTATTCGGGAGGTAATGGTGGTA-T-CATG
-----GTGTAAATAAAGAAATA-TGTAT-T-CATG
-----TGCCAGAGTTAATGATAGTA-TTCATG
-----TGCATTCGTAAAACGTAAAACAATAATTCATG
-----TGTAACATAAGATACACTTTT----AATG
-----TGTAACACAAGACACACTTTT----AATG
-----TGCT-CGCGTAAAATATGTTT----AGTG
-----TGCC-CGCATAAA-TACGTTT----AATG
-----GCACGCACAGGAAATATTATT----CGTG
-----GCTCGCA-AGCGAATAGTATT----CATG
**

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Neoniphon_opercularis
Myripristis_kuntee
Myripristis_violacea
Myripristis_murdjan
Myripristis_berndti
Myripristis_vittata
Ostichthys_japonicus

-GTGTTAAAACCTTATA----TAATCAA-TGAAACCACAAATAGGGATATC
-GTGTTAAAACCTTATA----TCATTAA-TGAATCCACAAATAAGGATATC
-GTGGTTAGATTTA-----TTATTAA-AGAA-CCACATTATTAGATATC
-GTGGTTAGATTTA-----TCGTAA-AGAA-CCACATTATTAGATATC
TATGAGAAGGTTTGTA---CAATTAA-TGATCCACATATTTAGATATC
-GTGGAAGATTTG-----TTTTTAA-GAAT--TACATATTAAGATATC
-ATGATAAACTATT-----CACCAA-ATAA-CCACATATTAGGATATC
TTAATAAAGGCTTAAAATAATCATTAA-CAAACCACATATTAAGATATC
-GAGTAAAGGATGGAA-----AGTAAT--ATCTCACATAAAGTAATATC
-GAGTAAAGATGGAA-----AGTAAT--ATCTGCATAAAGTGATATC
-GAGGGAAGACTAGAA-----GGAAAGTAGAGTTTGCATGTAATGGATTC
-GAGGTAGGCTGAAA-----GAAAAGCAAGACTTGCATGTAATGGATTC
-GAGGTAAAGATTTATA-----AATGAA--AAATCCACATAAATATTTTC
-GTGGAAGATTTT-----AATTAA--ATAACCACATATTAGGATATC

* ** **

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Myripristis_violacea
Myripristis_murdjan
Myripristis_berndti
Myripristis_vittata
Ostichthys_japonicus

AAGTGCATAAGTAATTTTT-TACCTCGAGCAATTTACCCAATAATATTG
AAGTGCATAAATAATTTTT-TACCTCGAGCAATTTACCCAATAATATTG
AAGTGCATAATAATTTTT-TTTTCTAGGCAAAT--ACCTAATA-TATCG
AAGTGCATAATAATTTTT-TTTTCTAGGCAAAT--ACCTAATA-TATCG
AAGTGCATAAT--ATTTTT-TTTTCTAGACAAT--ATTCTATGATATTT
AAGGACATAAATAACTTTTATTAAGTAGGCATAT--ATCTAATA-TATGA
AAGTGCATAACATATTTCT--TACTAGGCAAAT--ATCCAACA-TATCA
AAGTGCATAACAATTTTTTATTTCTAGGCAAAT--ATCCTATA-TATCA
AAGTGCATAATATATTTTATTTCTCAATAGGCAAAG--CTCTAACA-CACCA
AAGTGCATAATATATTT-TTATTACTAGGCAAAA--CTCTAACA-CACCA
AAGTGCATAATATATTT-TTACTACCAGGCAAAA--CTCTAACA-CACCA
ATGTGCATAATACTTTTATTTCTCGACAAAT--CCCTA-TA-TATCA
ATGTGCATAATAT-TTTTTATTTTCTAGGCAAAT--ACCTAATA-TATTA

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Sargocentron_caudimaculatum
Sargocentron_spiniferum
Sargocentron_melanospilos
Sargocentron_rubrum
Neoniphon_sammara
Sargocentron_diadema
Sargocentron_punctatissimum
Neoniphon_opercularis
Myripristis_kuntee
Myripristis_violacea
Myripristis_murdjan
Myripristis_berndti
Myripristis_vittata
Ostichthys_japonicus

CCCCCTTCGTTTTTGCGCGTTAAACCCCC-TACCCCC-AACACCCTA
CCCCCTCCGTTTTTGCGCGTTAAACCCCC-TACCCCC-AACACCCTA
CCCC-TCCGTTTTTGCGCGTTAAACCCCC-TACCCCCCTAACACTCCTG
CCCC-TCCGTTTTTGCGCGTTAAACCCCC-TACCCCCCTAACACTCCTA
CCCC-CTGGTTTTTGCGCGTTAAACCCCC-TACCCCC-AATACTCCTA
CCCCCTCGTTTTTGCGCGT-AAACCCCC-TACCCCC-AATACTCCTG
CCCC-CTGGTTTTTGCGCGT-AAACCCCC-TACCCCC-AACACTCCTG
CCCC-CTGGTTTTTGCGCGTTAAACCCCC-TACCCCC-TACTCCTG
CCCC-CTGGTTTTTGCGCGTTAAACCCCC-TACCCCC-TACACCCTG
CCCC-CTGGTTTTTGCGCGTTAAACCCCC-TACCCCC-TACTCCTG
CCCC-CTGGTTTTTGCGCGTTAAACCCCC-TACCCCC-TACTCCTG
CCCC-CTGGTTTTTGCGCGT-AAACCCCC-TACCCCC-TACACCCTG
CCCC-TCGGTTTTTGCGCGTCAAACCCCC-TACCCCC-TACTCCTG

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AGATCTCTATCACTCCTGTAAACCCCCCGGAAACAGGATAAACCTTCGGG
AGATCTCTATCACTCCTGTAAACCCCCCGGAAACAGGATAAACCTTCGGG
AGATCTATATTATTCTGTAAACCCCCCGGAAACAGGA--AAACCTCGAG
AGATCTATATTATTCTGTAAACCCCCCGGAAACAGGA--AAACCTCGAG
AGATTCTAATATTCTGTAAACCCCC-GAAAAACAGGACTAAACCTCGAG
AGATTACTATTATTCTGTAAACCCCCCGGAAACAGGATCTAACCCCGAG
AGATCGTATTATTCTGTCAAACCCCCCGGAAACAGGAC--AACCTCGAG
AGATCACTGTCACTCCTGTCAAACCCCC-GAAAAACAGGACTAAACCTCGAG
AGACCTCTATCACTCCTGTCAAACCCCCCGGAAACAGGAC-AAATCTCAAA
AGACCTCTATCACTCCTGTCAAACCCCCCGGAAACAGGAC-AAATCTCAAA
AGATCCTTATCACTCCTGTCAAACCCCCCGGAAACAGGAC-AAACCTCAAA
AGATCCTTATCACTCCTGTCAAACCCCCCGGAAACAGGAC-AAACCTCAAA
AGACCTCTATCACTCCTGTCAAACCCCCCGGAAACAGGAA-AAGTCTCAAA
AGATCTTTTACTCCTGTCAAACCCCCCGGAAACAGGAA-A-GTCTCAAG
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Ostichthys_japonicus

CATTG-----CTACTTCCCATCAAATTTGCGTCTATCACAAT----
CATTG-----CTACTTCAACATCAAATTTGCGTCTATCACAAT----
TGTTA-----ATTATCCTCCCT--AATTTATGTCTATTACAAT----
TGTTA-----ATTATCCTCCCT--AATTTATGTCTATTACAAT----
TATTA-----ACCTATTTAATTCAAATTTATATTTACTTAAATTGTA
TATTA-----AATATCCCAGCATAAAATTTATGCTTATTATATT---
TGTTATA-----AGCCTCCCTAATCTAAATTACTCATTTTACATT---
TACTAAT-----TCACTCCAATTCAAAAATAT-TTTACTTATATT---
CAGTGTCTTAAATATTTCCAACCACATTTATTTGTGCTTATTTACATT---
CAGTGTCTTATACTCCAACCACATTTATTTGTGCTTATTTACATT---
CAGTGTCTTAAATCTTCTAACCACATTTATTTGTGCTTATTTACATT---
TAGTGTCTATT--TTTTTTAACCACATCTATTTATGCTTATTTACATT---
TGATA-----TTTAAGTAATTCAATTTATGTATATTTACATT---
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---ATTTCAATATTG-CACATTTG-----
---ATTTCAATATTG-CACATTTT-----
---ATTTCAATATTA-CACATTTG-----
---ATTTCAATATTA-CACATTTT-----
ATAATTACAATATTAACCTATTTAATTCAAATTTATATTTWCTTWAATTG
---ATTATAATATTG-CACATAG-----
---ATTATAATATTG-CACATGG-----
---ATTACAGTATTGCAGCATTACAGTACTACAACATTTTTTATAATG--
---ATTATAATATTA-CACACAG-----
---ATTATAATATTA-CACACAG-----
---ATTATAATATTA-CACACAG-----
---ATTATAATATTA-CACACA-----
---ATTATAATATTA-CACACA-----
---ATTATAATATTG-CACACA-----
*** * ***** *

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AGATCTCTATCACTCCTGTAAACCCCCCGGAAACAGGATAAACCTTCGGG
AGATCTCTATCACTCCTGTAAACCCCCCGGAAACAGGATAAACCTTCGGG
AGATCTATATTATTCTGTAAACCCCCCGGAAACAGGA--AAACCTCGAG
AGATCTATATTATTCTGTAAACCCCCCGGAAACAGGA--AAACCTCGAG
AGATTCTAATATTCTGTAAACCCCC-GAAACAGGACTAAACCTCGAG
AGATTACTATTATTCTGTAAACCCCCCGGAAACAGGATCTAACCCCGAG
AGATCGTATTATTCTGTCAAACCCCCCGGAAACAGGAC--AACCTCGAG
AGATCACTGTCACTCCTGTCAAACCCCC-GAAACAGGACTAAACCTCGAG
AGACCTCTATCACTCCTGTCAAACCCCCCGGAAACAGGAC-AAATCTCAAA
AGACCTCTATCACTCCTGTCAAACCCCCCGGAAACAGGAC-AAATCTCAAA
AGATCCTTATCACTCCTGTCAAACCCCCCGGAAACAGGAC-AAACCTCAAA
AGATCCTTATCACTCCTGTCAAACCCCCCGGAAACAGGAC-AAACCTCAAA
AGACCTCTATCACTCCTGTCAAACCCCCCGGAAACAGGAA-AAGTCTCAAA
AGATCTTTTACTCCTGTCAAACCCCCCGGAAACAGGAA-A-GTCTCAAG
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CATTG-----CTACTTCAACATCAAATTTGCGTCTATCACAAT----
TGTTA-----ATTATCCTCCCT--AATTTATGTCTATTACAAT----
TGTTA-----ATTATCCTCCCT--AATTTATGTCTATTACAAT----
TATTA-----ACCTATTTAATTCAAATTTATATTACTTTAAATTGTA
TATTA-----AATATCCCAGCATAAAATTTATGCTTATTATATT---
TGTTATA-----AGCCTCCCTAATCTAAATTACTCATTTTACATT---
TACTAAT-----TCACTCCAATTCAAAAATAT-TTTACTTATATT---
CAGTGTCTTAAATATTTCCAACCACATTTATTTGTGCTTATTTACATT---
CAGTGTCTTATACTCCAACCACATTTATTTGTGCTTATTTACATT---
CAGTGTCTTAAATCTTCTAACCACATTTATTTGTGCTTATTTACATT---
TAGTGTCTATT--TTTTTTAACCACATCTATTTATGCTTATTTACATT---
TGATA-----TTTAAGTAATTCAATTTATGTATATTTACATT---
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---ATTTCAATATTG-CACATTTG-----
---ATTTCAATATTG-CACATTTT-----
---ATTTCAATATTA-CACATTTG-----
---ATTTCAATATTA-CACATTTT-----
ATAATTACAATATTAACCTATTTAATTCAAATTTATATTTWCTTWAATTG
---ATTATAATATTG-CACATAG-----
---ATTATAATATTG-CACATGG-----
---ATTACAGTATTGCAGCATTACAGTACTACAACATTTTTTATAATG--
---ATTATAATATTA-CACACAG-----
---ATTATAATATTA-CACACAG-----
---ATTATAATATTA-CACACAG-----
---ATTATAATATTA-CACACA-----
---ATTATAATATTA-CACACA-----
---ATTATAATATTG-CACACA-----
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Sargocentron_caudimaculatum	-----
Sargocentron_spiniiferum	-----
Sargocentron_melanospilos	-----
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Ostichthys_japonicus	-----