Table S2 Segregating sites of the *Ckma* gene among 122 Atlantic cod individuals and 10 individuals of closely related species.[a]

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                   55eeeeeeeiiiiiiiiiiiiiiiieeeeeiiii iiiiiiiiiiiiiiiiiiiiiiiieeeeiiiiiiii iiiiiiiiiiiiiiieeeeeeeiiiiii iieeeeiiiiiiiiiiiii iiiiiiiieeeeee33333333 3333333 3333333 33
                   ''1111111111111111111111222222222 2222222222222222222222233333333333333 3333333333333344455555555555 5566666666666666666 6666666677777777''''''''''''''''''''''''
                   uunssssss----------------ssnss-----------------------------sssss--------------------nnsnnnss-------sssss-------------------------ssnnsuuuuuuuu uuuuuuuu uuuuuuu uu
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                                                1                                2                                3                4                5      6       7      8
                                                                   11111111 1111111111111111111111111111111111 1111111111111111122222222222 2222222222222222222 2222222222222333333333 3333333 3333333 33
                   556677777888888888888999990000111 1 1111111112222222222222222222344444444 5555555566666667770000111122 2222334444555555555 6666667778999900000000 1111222 2222333 33
                   780845569112223336899012481367122 3 4445666890012222234455566775113456 69 1235667811244692458888155800 1 4458120688011345566 9 1225782236245801113366 7 0179922 4 555012 68
                   602770352122350575967879211484907 2 1345625969085125788580683858035294191 1 6282307055035037501285458349 6 7299397497476801277 6 7949102408373056769455 9 7229571 3 147558 53
                                                                                                                   1111111111111111111111111 1111111111111111111111 1111111112222222222222 2222222 2222222 22
                                                 111122222222223333333344455555 5 5555566666666666666666667777888888899 9 9999900000001111133333334444 4 4455566777777777778 8 8889999990000111111111 2233333 3333444 44
                   113288802445566770233456714600556 6 7789900233455566678889990118456889024 6699902456770258900014781224 7 7714439013346777892 4 5570044573569122245778 2 2801335 5 666123 79
                   157225807677805020412324766939452 7 6890170414530670233035138303580749646 6 1737852500580582056730903894 1 2744842942921356722 1 2494657919484167870566 0 8330682 4 258669 64
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119233.Gmo.Icecttcctttagtcaatcgattttacccctcacaag a caacctatctaattaattataaccattcttttaaaa t ttgacattctgtataatcagccctgcgc t ctccctgcgcgctaagttg a agcaaacgttgagcaaattatt g ttcggta - gatttt t c
140397.Gmo.Bal.......................................................................................................................................................................
140380.Bal.........................................................................................................................................................................
140163.Gmo.Cel.......................................................................................................................................................................
105686.Gmo.Nse.......................................................................................................................................................................
106287.Gmo.Nse.......................................................................................................................................................................
114718.Gmo.Far.......................................................................................................................................................................
106632.Gmo.Nse.......................................................................................................................................................................
140174.Gmo.Cel.......................................................................................................................................................................
115404.Gmo.Far.......................................................................................................................................................................
300006.Gmo.Iri.......................................................................................................................................................................
300007.Gmo.Iri........a.......................g.......................................................................c.......................................................
105661.Gmo.Nse.......................t.................t.......................................................................................................................
300002.Gmo.Iri.....................................................t.................................................................................................................
140384.Gmo.Bal.....................................................................................t.................................................................................
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                 ''11111111111111111111112222222222 22222222222222222222222233333333333333 33333333333333344455555555555 5566666666666666666666 66666666677777777777777777777777777
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                                       11111111 1 11111111111111111111111111111111111111 1 11111111111111111122222222222 2222222222222222222222 2222222222222333333333 3333333 3 333333 3 3
                 556677777888888888888999990000111 1 11111111122222222222222222222344444444 5 55555555666666677700001111222 2222334444555555555555 6 66666777899990000000000 1 1111222 2 222333 3 3
                 780845569112223336899012481367122 3 44456668900122222344555667751134566 9 1 23566781124469245888815580014 4581206880113455669 1 22578223624580111336670 1799224 4 555012 6 8
                 602770352122350575967879211484907 2 1 34562596908512578858068385803529419 1 1 62823070550350375012854583496 7299397497476801277 6 79491024083730567694559 7229571 3 147558 5 3
                                                                                                 1111111111111111111111111 1 11111111111111111111 1 1111111112222222222222 2 2222222 2 222222 2 2
                                   1111222222222233333333444555555 5 55555666666666666666666677778888899 9 99999000000011111333333334444 4 44555667777777777778 8 88899999900001111111111 2 2233333 3 333444 4 4
                 1132888024455667702334567146005566 7 77899002334555666788899901184568890 2 4 66999024567702589000147812247 7 77144390133467778924 5 55700445735691222457782 2 2801335 5 666123 7 9
                 1572258076778050204123247669394527 6 89017041453067023303513830358074964 6 6 17378525005805820567309038941 2 74484294292135672 2 1 24946579194841678705660 8 3306824 4 258669 6 4
140170.Gmo.Celt ..................................................................................................................................................................
114780.Gmo.Far ..................................................................................................................................................................
140193.Gmo.Cel ..................................................................c.................................................................................
300005.Gmo.Iri ........................g...........................................c.....................................................................................
300004.Gmo.Iri ..................................................................................................................................c.....
140383.Gmo.Bal ...................................................t................a.....................................................................
114844.Gmo.Far ....................................a.............................................................................................
140381.Gmo.Bal ..................................................................................-...................g.....................................
115674.Gmo.Far ...............................................t.....................................................ga.....................................
140185.Gmo.Cel ..................................................................................................................................................................
106284.Gmo.Nse ..................................................................................................g.....................................
105652.Gmo.Nse ........................t.....................................................................................................................
300003.Gmo.Iri ...................................................g..............................................................................
118770.Ice ..........................................a................t.....................................
140419.Whi ..........................................a................t.....................t..cc...
140176.Cel ..........................................a................t.....................c.
115596.Gmo.Far ....................................g.......................c.......a................t...............c.....................
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                 55eeeeeeeiiiiiiiiiiiiiiiieeeeeiiiii iiiiiiiiiiiiiiiiiiiiiiiieeeeiiiiiiiii iiiiiiiiiiiiiiieeeeeeeiiiiiii iieeeeiiiiiiiiiiiiii iiiiiiiieeeeee33333333 3333333 3333333 3
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                 556677777888888888888999990000111 1111111112222222222222222222344444444 5555555566666667770000111122 2222334444555555555 6666667778999900000000 1111122 2222333 3
                 780845569112223336899012481367122 3 4445666890012222234455566775113456691 2356678112446924588881558001 4458120688011345566 9 1225782236245801113366 7 0179922 4555012 6 8
                 602770352122350575967879211484907 2 1345625969085125788580683858035294191 1 6282307055035037501285458349 6 7299397497476801277 6 7949102408373056769455 9 7229571 3 147558 5 3
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                          111122222222223333333344455555 5 5555566666666666666666667777788888899 9 9999900000001111133333334444 4 4455566777777777778 8 8889999990000111111111 2 2233333 3 333444 4 4
                 113288802445566770233456714600556 6 7 7789900233455566678889990118456889024 6 6699902456770258900014781224 7 7714439013346777892 4 5570044573569122245778 2 2801335 5 666123 7 9
                 157225807677805020412324766939452 7 6 8901704145306702330351383035807496466 1 7378525005805820567309038941 2 7448429429213567221 2 2494657919484167870566 0 8330682 4 258669 6 4
140179.Gmo.Cel ..................................................................................a................t.......................................................................
140394.Gmo.Bal ..................................................................................a................t.......................................................................
114528.Gmo.Far ..................................................................................................t.......................................................................
105698.Gmo.Nse ...............................t.............g.........c.......................................................................................................
124401.Gmo.Ice c.........................g....t.......................................................a.........................c.............................-.
105657.Nse ...........................g....t..........a.g.........................a..................aaa..t.......................................................
200500.Bal ...........................g....t..................t..................a...c..............aaa....c.......................................t...c.-.
118129.Gmo.Ice ...........................g....t.......................................................................................ga.........t...c.-.
119535.Gmo.Ice ...........................g....t............g......t....c.......................................................ga.........t...c.-.
118147.Gmo.Ice ..................................................................c.........t.........................a..c.............ga.........t...c...
118214.Gmo.Ice ...............................g.....t.......g..............c................aa.....................................ga..c......t...c...
106620.Gmo.Nse c...............................t.....................................aaa....c...t.........a..c.............ga.........t...c.-.
152934.Gmo.Nor c.........................g.................................g...........a...c.................aa....c...t.........a..c.............ga.........t...c...
119111.Gmo.Ice ...........................g....t............g.............g...........a...c.................aa....c...t.........a..c.............ga.........t...c...
118309.Gmo.Ice c.........................g....t............g..........c...g...t......a...c.................aa....c...t.........a..c.............ga.........t...c.-.
140261.Gmo.Bar c....................t....g..................g...c......c...g...........a...c.................aa....c...t.........a..c.............ga.........t...c.-.
118705.Gmo.Ice c....................t....g................a.g..........c...g...........a...c.................aa....c...t.........a..c.............ga.........t...c.-.
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                 556677777888888888888999990000111 1 1111111112222222222222222222344444444 5 5555555566666667770000111122 2 2223344445555555555 6 6666677789999000000000 1 1111222 2222333 3
                 780845569112223336899012481367122 3 4445666890012222234455566775113456691 2356678112446924588881558001 4 4581206880113455669 1 2257822362458011133667 0 1799224 4555012 6 8
                 602770352122350575967879211484907 2 1 3456259690851257885806838580352941911 6282307055035037501285458349 6 7299397497476801277 6 7949102408373056769455 9 7229571 3 147558 5 3
                                                                                                 1111111111111111111111111 1 1111111111111111111 1 1111111112222222222222 2 2222222 2 222222 2 2
                                   111122222222223333333344455555 5 5555566666666666666666667777888888999 9 9999900000001111133333334444 4 4455566777777777778 8 8889999990000111111111 2 2233333 3 333444 4 4
                 113288802445566770233456714600556 6 7789900233455566678889990118456889024 6699902456770258900014781224 7 7714439013346777892 4 5570044573569122245778 2 2801335 5 666123 7 9
                 157225807677805020412324766939452 7 6 8901704145306702330351383035807496466 1737852500580582056730903894 1 2744842942921356722 1 2494657919484167870566 0 8330682 4 258669 6 4
117878.Gmo.Ice.c.....................t.....g.................g..........c...g...........a...c................aa....c...tc.........a..c.............ga..........t...c.-.
118507.Ice.c.........................g.....t............g..........c...g...........a...c...........t....aaa....c...t..........a..c.............ga..........t...cc-.
200135.Gmo.Can.c.........................g.....t............g..........c...g...........a...c................aaa....c...t..........a..c.............ga..........t...c.-.
200035.Gmo.Can.c.........................g.....t............g..........c...g...........a...c................aaa....c...t..........a..c.............ga..........t...c.-.
200134.Gmo.Can.c.........................g.....t............g..........c...g...........a...c................aaa....c...t..........a..c.............ga....t.....t...c.-.
140254.Bar.c.........................g.....t............g..........c...g...........a...c.........t.....aaa....c...t..........a..c.............ga..........t...c.-.
126266.Ice.c.........................g.....t............g..........c...g...........a...c.........t.....aaa....c...t..........a..c.............ga..........t...c.-.
152938.Gmo.Nor.c.........................g.....t............g..........c...g...........a...c.........t.....aaa....c...t..........a..c.............ga.-.......tt...c.-.
152949.Gmo.Nor.c.........................g.....t............g..........c...g...........a...c.........t.....aaa....c..at.........a..c.............ga..........t...c.-.
119545.Gmo.Ice.c.........................g................g..........c...g...........a...c.........t.....aaa....c...tc.........a..c.............ga..........t...c.-.
200149.Gmo.Can.c.........................g.....t......t.....g..........c...g...........a...c................aaa....c...t..........a..c.............ga..........t...c.-.
119163.Gmo.Ice.c..t......................g.....t............g..........c...g...........a...c................aaa....c...t..........a..c..........--..ga..........t...c.-.
152924.Gmo.Nor.c.........................g.....t............g..........c...g...........a...c................aaa....c...t..........a..c.............ga..........t...c.-.
118738.Gmo.Ice.c.........................g.....t............g..........c...g...........a...c................aaa....c...t..........a..c.............ga..........t...c.-.
104056.Gmo.Gre.c.........................g.....t..........a.g..........c...g...........a...c................aaa....c...t..........a..c........ggg..ga..........t...c.-.
100896.Gmo.Gre.cc..c.....................g.....t..........a.g..........c...g...........a...c................aaa....c...t...g....a..a..c.....a......cga..........t...c.-.
124124.Gmo.Ice.c.........................g.....t..........a.g..........c...g...........a...c................aaa....c...t..........a..c.............ga..........t...c.-.
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                 556677777888888888888999990000111 1 11111111122222222222222222222344444444 5 55555555666666677700001111222 2222334444555555555 6 66666777899990000000000 1111122 2222333 3
                 780845569112223336899012481367122 3 44456668900122222344555667751134566 9 1 23566781124469245888815580014 4581206880113455669 1 22578223624580111336670 1799224 4555012 6 8
                 602770352122350575967879211484907 2 1 34562596908512578858068385803529419 1 1 62823070550350375012854583496 7299397497476801277 6 79491024083730567694559 7229571 3 147558 5 3
                                                                                                 1111111111111111111111111 1111111111111111111 1 11111111122222222222222 2222222 2 222222 2 2
                                   1111222222222233333333444555555 5 55555666666666666666666677778888899 9 99999000000011111333333334444 4 44555667777777777778 8 88899999900001111111111 2233333 3 333444 4 4
                 113288802445566770233456714600556 6 7 77899002334555666788899901184568890 2 4 66999024567702589000147812247 7 77144390133467778924 5 55700445735691222457782 2801335 5 666123 7 9
                 157225807677805020412324766939452 7 6 89017041453067023303513830358074964 6 6 17378525005805820567309038941 2 74484294292135672 2 1 24946579194841678705660 8330682 4 258669 6 4
118958.Gmo.Ice.c.......................g....t...........g.....t....c...g..........a...c...............aaa....c...t..........a..c.............ga.........t..cc.-.
152973.Gmo.Nor.c.......................g....t.g.........g.....t....c...g..........a...c...............aaa....c...t..........a..c.............ga.........t...c.-.
200033.Gmo.Can.c.......................g....t...........g.....t....c...g...c.......a...c...............aaa....c...t..........a..c.............ga.........t...c.-.
126277.Gmo.Ice.c.......................g....t...........g.....t...cc...g..........a...c...............aaa....c...t..........a..c.............ga.........t...c.-.
100957.Gmo.Gre.c.......................g................g.....t....c...g..........a...c...............aaa....c...t..........a..c.............ga.........t...c.-.
118708.Gmo.Ice.c.......................g....t...........g.....t....c...g..........a...c....g....t....aaa....ct..t..........a..c.............ga.........t...c.-.
117528.Gmo.Ice.c.......................g....t..........a.g..........c...g..........a...c...............aaa....c...t..........a..c.............ga.........t...c.-.
152978.Gmo.Nor.c......g....g..a.........g....t..........a.g..........c...g..........a...c...............aaa....c...t..........a..c......g......ga.........t...c.-.
118981.Gmo.Ice.c.......................g....t..........a.g..........c...g..........a...c...............aaa....c...t..........a..c.............ga.........t...c.-.
200203.Gmo.Can.c.......................g....t..........a.g..........c...g..........a...c...............aaa....c...t..........a..c.............ga.........t...c.-.
119411.Gmo.Ice.c.......................g....t..........a.g..........c...g..........a...c...............aaa....c...t..........a..c.............ga.........t...c.-.
140213.Gmo.Bar.c.......................g....t..........a.g..........c...g..........a...c...............aaa....c...t..........a..c.............ga.........t...c.-.
118335.Gmo.Ice.c................a.......g....t..........a.g..........c...g..........a...c...............aaa....c...t..........a..c.............ga.........t...c.-.
140271.Gmo.Bar.c.......................g....t..........a.g..........c...g..........a...c...............aaa....c...t..........a..c.............ga.........t...c...
117937.Gmo.Ice.c......................c.g....t..........a.g..........c...g..........a...c...............aaa....c...t..........a..c.............ga.........t...c.-.
152928.Gmo.Nor.c.......................g....t..........a.g..........c...g..........a...c...............aaa....c...t..........a..c.............ga.........t...c.-.
125372.Gmo.Ice.c.......................g....t..........a.g..........c...g..........a...c...............aaa....c...t..........a..c.............ga.........t...c.-.
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                 556677777888888888888999990000111 1 1111111112222222222222222222344444444 5 5555555566666667770000111122 2 2223344445555555555 6 6666677789999000000000 1111122 2222333 3
                 780845569112223336899012481367122 3 4445666890012222234455566775113456691 2356678112446924588881558001 4 4581206880113455669 1 2257822362458011133667 0 1799224 4555012 6 8
                 602770352122350575967879211484907 2 1 3456259690851257885806838580352941911 6282307055035037501285458349 6 7299397497476801277 6 7949102408373056769455 9 7229571 3 147558 5 3
                                                                                                 1111111111111111111111111 1 1111111111111111111111 1 1111111112222222222222 2 2222222 2 222222 2 2
                                   1111222222222233333333444555555 5 5555566666666666666666667777788888899 9 9999900000001111133333334444 4 4455566777777777778 8 8889999990000111111111 2 2233333 3 333444 4 4
                 1132888024455667702334567146005566 7 7789900233455566678889990118456889024 6699902456770258900014781224 7 7714439013346777892 4 5570044573569122245778 2 2801335 5 666123 7 9
                 1572258076778050204123247669394527 6 8901704145306702330351383035807496466 1737852500580582056730903894 1 2744842942921356722 1 2494657919484167870566 0 8330682 4 258669 6 4
125430.Gmo.Ice.c.......................g....t.........a.g.........c...g..........a...c..............aaa....c...t.........a..c............ga.........t...c.-.
125859.Ge.Ice.c.......................g....t.........a.g........g.c...g..........a...c..............aaa....c...t.........a..c............ga.........t...c.-.
124471.Gmo.Ice.c.......................g....t.........a.g.........c...g..........a...c..............aaa....c...t.........a..c............ga.........t...c.-.
124406.Gmo.Ice.c.......................g....t.........a.g.........c...g..........a...c..............aaa....c...t.........a..c............ga.........t...c.-.
119204.Gmo.Ice.c.......................g....t.........a.g.........c...g..........a...c..............aaa....c...t.........a..c............ga.........t...c.-.
125848.Gmo.Ice.c.......................g....t.........a.g.........c...g..........a...c..............aaa....c...t.........a..c............ga.........t...c.-.
126003.Gmo.Ice.c.......................g....t.........a.g.........c...g..........a...c..............aaa....c...t.........a..c............ga.........t...c.-.
118970.Gmo.Ice.c.......................g....t.........a.g.........c...g..........a...c..............aaa....c...t.........a..c............ga.........t...c.-.
152921.Gmo.Nor.c.......................g....t.........a.g.........c...g..........a...c..............aaa..t.c...t.........a..c............ga.........t...c.-.
117868.Gmo.Ice.c.......................g....t.........a.g.........c...g..........a...c..............aaa..t.c...t.........a..c............ga.........t...c.-.
117801.Gmo.Ice.c.......................g....t.........a.g.........c...g..........a...c..............aaa....c...t.........a..c............ga.........t...c.-.
117757.Gmo.Ice.c.......................g....t.........a.g.........c...g..........a...c..............aaa....c...t.........a..c............ga.........t...c.-.
105746.Gmo.Gre.c.......................g....t.........a.g.........c...g..........a...c..............aaa....c...t.........a..c............ga.........t...c.-.
122879.Gmo.Ice.c.......................g....t.........a.g.........c...g..........a...c..............aaa....c...t.........a..c............ga.........t..cc.-.
122847.Gmo.Ice.c.......................g....t.........a.g.........c...g..........a...c..............aaa....c...t.........a..c............ga.........t..cc.-.
200397.Gmo.Can.c.......................g....t.........a.g.........c...g..........a...c...........c...aaa.t..c...t.........a..c............ga....t....t...c.-.
125478.Gmo.Ice.c.......................g....t.........a.g.........c...g..........a...c..............aaa....c...t.t.......a..c............ga.........t...c.-.
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                 602770352122350575967879211484907 2 13456259690851257885806838580352941 91 62823070550350375012854583496 7299397497476801277 6 79491024083730567694559 7229571 3147558 5 3
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                 157225807677805020412324766939452 7 68901704145306702330351383035807496466 1737852500580582056730903894 1 2744842942921356722 1 2494657919484167870566 0 8330682 4 258669 6 4
118324.Gmo.Ice.c.......................g....t..........a.g.........c...g..........a...c...............aaa....c...t.t........a..c.............ga.........t...c.-.
117879.Gmo.Ice.c.......................g....t............g.........c...g..........a...c................aa....c...t..........a..c.............ga.........t...c.-.
117896.Gmo.Ice.c.......................g....t............g....c.....ct..g..........a...c................aa....c...t..........a..c.............ga.........t...c.-.
107799.Gmo.Gre.c.......................g....t............g....c.....c...g..........a...c................aa....c...t..........a..c........ggg..ga.........t...c.-.
117807.Gmo.Ice.c.......................g....t............g....c.....c...g..........a...c................aa....c...t..........a..c.............ga.........t...c.-.
152047.Gma.Pac.c.........g....g...c......ggg.........c...g....c.cg....t..c...g.g......gtt....c.c.............gact.t...t.........gat.c...a...a......g...g...t...tt....-a
100204.Gog.Gre.c.........g....gc..c......ggg.........c...g......cg....t..c.c.g.g....g..gt.....c.c.g........a...gact.....t.........gat.c...a.........g......t...tt....-a
152056.Gma.Pac.c.........g....gc..cg.....ggg.........c...g....c.c.....t..c.c.g.g....g..gt.....c.c.............gact.....t.........gat.c...a....t.....g......t...tt....-a
152058.Gma.Pac.c.........g....g...c......ggg............g......cg....t..c.c.g.g....g..gt.....c.c.............gact.....t.........gat.c...a....t.....g......t...tt....-a
152064.Gma.Pac.c.........g....g...c......ggg............g......cg....t..c.c.g.g....g..gt.....c.c.............gact.....t.........gat.c...a....t.....g......t...tt....-a
152063.Gma.Pac.c.........g....g...c......ggg............g......cg....tg.c.c.g.g....g..gt.....c.c.............gact.....t.........gat.c...a....t.....g......t...tt....-a
152066.Gma.Pac.c.........g....g...c.....c.ggg............g......cg....t..c.c.g.g....g..gt.....c.c.............gact.....t.........gat.c...a....t.....g......t...tt....-a
152035.Gch.Pac.c.t..c....t..at.g...c..a....g.g..-.........g........t..t..c..gg.....c...gt..g..c.........................t.........ga.gc..a.g........g....c.tt...tt....-a
104725.Bsa.Gre.c........c......g...c......g.gga..g.a.c.c.ggt.c..c.....tt..c...ga..g.-...gt....gc..c..cggtt..a..a........t.t......c..-ga..c.t........--..g.g-....t.cctt....-a
104474.Bsa.Gre.c........c......g...c......g.gga..g.a.c.c.ggt.c..c.....tt..c...ga..g.-...gt....gc..c.gcggtt.....a........t.t......c..-ga..c.t........--..g.g-....t.cttt....-a
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