**Table S1. Sampling information for all individuals included in the identity, geographic coordinates (latitude and longitude), samplin levels.**

| Sample ID | Species Identity | LAT | LONG |
|---|---|---|---|
| AND_ALCA_001_poll002 | *Andrena flavipes* | 39,4843098 | -8,9934508 |
| AND_ALCA_002_poll002 | *Andrena flavipes* | 39,4843098 | -8,9934508 |
| AND_ALCA_003_poll002 | *Andrena flavipes* | 39,4843098 | -8,9934508 |
| AND_ALCA_004_poll002 | *Andrena flavipes* | 39,4843098 | -8,9934508 |
| AND_ALCA_004_poll003 | *Andrena flavipes* | 39,5044021 | -9,0390424 |
| AND_ALCA_011_poll001 | *Andrena flavipes* | 39,4980908 | -9,0390424 |
| AND_ARRA_001_poll027 | *Andrena flavipes* | 39,0148941 | -9,0667248 |
| AND_ARRA_002_poll028 | *Andrena flavipes* | 39,0076469 | -9,0681754 |
| AND_ARRA_002_poll029 | *Andrena flavipes* | 39,0148941 | -9,0667248 |
| AND_ARRA_003_poll028 | *Andrena flavipes* | 39,0076469 | -9,0681754 |
| AND_ARRA_005_poll027 | *Andrena flavipes* | 39,0148941 | -9,0667248 |
| AND_ARRA_006_poll027 | *Andrena flavipes* | 39,0148941 | -9,0667248 |
| AND_BORA_003_poll008 | *Andrena flavipes* | 39,2650447 | -9,1627322 |
| AND_BORA_004_poll007 | *Andrena flavipes* | 39,2527008 | -9,1696696 |
| AND_BORA_005_poll007 | *Andrena flavipes* | 39,2527008 | -9,1696696 |
| AND_BORA_007_poll007 | *Andrena flavipes* | 39,2527008 | -9,1696696 |
| AND_BORA_009_poll007 | *Andrena flavipes* | 39,2527008 | -9,1696696 |
| AND_BORA_011_poll007 | *Andrena flavipes* | 39,2527008 | -9,1696696 |
| AND_CRAA_002_poll068 | *Andrena flavipes* | 39,4012150 | -9,0395760 |
| AND_CRAA_005_poll068 | *Andrena flavipes* | 39,4082000 | -9,0836000 |
| AND_CRAA_005_poll070 | *Andrena flavipes* | 39,4081980 | -9,0835880 |
| AND_CRAA_007_poll068 | *Andrena flavipes* | 39,4012150 | -9,0395760 |
| AND_CRAA_008_poll070 | *Andrena flavipes* | 39,4081980 | -9,0835880 |
| AND_CRAA_010_poll068 | *Andrena flavipes* | 39,4012150 | -9,0395760 |
| AND_CRAA_012_poll070 | *Andrena flavipes* | 39,4081980 | -9,0835880 |
| AND_FVFN_006_poll015 | *Andrena flavipes* | 38,7184430 | -8,3245650 |
| AND_FVFN_007_poll015 | *Andrena flavipes* | 38,7184430 | -8,3245650 |
| AND_FVFN_008_poll015 | *Andrena flavipes* | 38,7184430 | -8,3245650 |
| AND_FVFN_008_poll016 | *Andrena flavipes* | 38,7108960 | -8,3135350 |
| AND_FVFN_009_poll015 | *Andrena flavipes* | 38,7184430 | -8,3245650 |
| AND_FVFN_010_poll015 | *Andrena flavipes* | 38,7184430 | -8,3245650 |
| AND_FZZN_001_poll085 | *Andrena flavipes* | 39,6227350 | -8,2752070 |
| AND_FZZN_002_poll086 | *Andrena flavipes* | 39,6769000 | -8,3137000 |
| AND_FZZN_004_poll086 | *Andrena flavipes* | 39,6875990 | -8,3143900 |
| AND_FZZN_006_poll085 | *Andrena flavipes* | 39,6227350 | -8,2752070 |
| AND_FZZN_008_poll086 | *Andrena flavipes* | 39,6875990 | -8,3143900 |
| AND_FZZN_009_poll085 | *Andrena flavipes* | 39,6227350 | -8,2752070 |
| AND_FZZN_018_poll084 | *Andrena flavipes* | 39,6350900 | -8,2916300 |
| AND_MALN_001_poll060 | *Andrena flavipes* | 40,3043900 | -6,9626670 |
| AND_MALN_002_poll060 | *Andrena flavipes* | 40,3043900 | -6,9626670 |
| AND_MALN_003_poll060 | *Andrena flavipes* | 40,3043900 | -6,9626670 |
| AND_MALN_004_poll060 | *Andrena flavipes* | 40,3043900 | -6,9626670 |
| AND_MALN_010_poll060 | *Andrena flavipes* | 40,3043900 | -6,9626670 |
| AND_MALN_012_poll060 | *Andrena flavipes* | 40,3043900 | -6,9626670 |
| AND_MALN_013_poll060 | *Andrena flavipes* | 40,3043900 | -6,9626670 |
| AND_MGRN_005_poll100 | *Andrena flavipes* | 39,8584490 | -8,8355940 |
| AND_MGRN_006_poll096 | *Andrena flavipes* | 39,8628610 | -8,9329570 |
| AND_MGRN_006_poll100 | *Andrena flavipes* | 39,8584490 | -8,8355940 |
| AND_MGRN_007_poll100 | *Andrena flavipes* | 39,8584490 | -8,8355940 |

| | | | |
|---|---|---|---|
| AND_MGRN_020_poll100 | *Andrena flavipes* | 39,8584490 | -8,8355940 |
| AND_MGRN_024_poll099 | *Andrena flavipes* | 39,8582690 | -8,8840710 |
| AND_NAZN_004_poll023 | *Andrena flavipes* | 39,5704570 | -9,0781280 |
| AND_NAZN_005_poll023 | *Andrena flavipes* | 39,5704570 | -9,0781280 |
| AND_NAZN_005_poll024 | *Andrena flavipes* | 39,5656884 | -9,0883055 |
| AND_NAZN_006_poll024 | *Andrena flavipes* | 39,5656884 | -9,0883055 |
| AND_NAZN_007_poll024 | *Andrena flavipes* | 39,5656884 | -9,0883055 |
| AND_NAZN_007_poll065 | *Andrena flavipes* | 39,5725990 | -9,0735500 |
| AND_ODEN_001_poll020 | *Andrena flavipes* | 37,8163900 | -8,6834380 |
| AND_ODEN_002_poll020 | *Andrena flavipes* | 37,8163900 | -8,6834380 |
| AND_ODEN_006_poll018 | *Andrena flavipes* | 37,4237790 | -8,7659270 |
| AND_ODEN_007_poll018 | *Andrena flavipes* | 37,4237790 | -8,7659270 |
| AND_ODEN_009_poll019 | *Andrena flavipes* | 37,6012850 | -8,6945060 |
| AND_ODEN_011_poll019 | *Andrena flavipes* | 37,6012850 | -8,6945060 |
| AND_SINN_001_poll029 | *Andrena flavipes* | 38,8910270 | -9,3962270 |
| AND_SINN_002_poll029 | *Andrena flavipes* | 38,8910270 | -9,3962270 |
| AND_SINN_003_poll029 | *Andrena flavipes* | 38,8910270 | -9,3962270 |
| AND_SINN_003_poll105 | *Andrena flavipes* | 38,8851760 | -9,3969830 |
| AND_SINN_008_poll030 | *Andrena flavipes* | 38,8976390 | -9,4191060 |
| AND_SINN_009_poll030 | *Andrena flavipes* | 38,8976390 | -9,4191060 |
| AND_SINN_001_poll031 | *Andrena flavipes* | 38,8910000 | -9,3962000 |
| AND_SINN_009_poll092 | *Andrena flavipes* | 38,7923750 | -9,4646430 |
| AND_SINN_006_poll102 | *Andrena flavipes* | 38,7827830 | -9,4702320 |
| AND_SINN_010_poll102 | *Andrena flavipes* | 38,7827830 | -9,4702320 |
| AND_SINN_012_poll091 | *Andrena flavipes* | 38,7972590 | -9,4796230 |
| AND_SINN_018_poll102 | *Andrena flavipes* | 38,7827830 | -9,4702320 |
| AND_SINN_020_poll102 | *Andrena flavipes* | 38,7827830 | -9,4702320 |
| AND_SMAN_010_poll055 | *Andrena flavipes* | 39,3751530 | -7,3891110 |
| AND_SMAN_019_poll136 | *Andrena flavipes* | 39,3489450 | -7,3493450 |
| AND_SMAN_028_poll055 | *Andrena flavipes* | 39,3751530 | -7,3891110 |
| AND_SMAN_030_poll055 | *Andrena flavipes* | 39,3751530 | -7,3891110 |
| AND_SMAN_038_poll055 | *Andrena flavipes* | 39,3751530 | -7,3891110 |
| AND_SMAN_050_poll055 | *Andrena flavipes* | 39,3751530 | -7,3891110 |
| AND_TURA_001_poll089 | *Andrena flavipes* | 38,9935810 | -9,2828670 |
| AND_TURA_007_poll071 | *Andrena flavipes* | 39,0461870 | -9,2714550 |
| AND_TURA_007_poll089 | *Andrena flavipes* | 38,9935810 | -9,2828670 |
| AND_TURA_009_poll075 | *Andrena flavipes* | 39,0103260 | -9,2971090 |
| AND_TURA_024_poll075 | *Andrena flavipes* | 39,0103260 | -9,2971090 |
| AND_TURA_025_poll075 | *Andrena flavipes* | 39,0103260 | -9,2971090 |
| BOM_ALCA_001_poll001 | *Bombus terrestris* | 39,4980908 | -9,0390424 |
| BOM_ALCA_001_poll002 | *Bombus terrestris* | 39,4843098 | -8,9934508 |
| BOM_ALCA_002_poll001 | *Bombus terrestris* | 39,4980908 | -9,0390424 |
| BTL_004_2elu_poll509 | *Bombus terrestris* | 39,5059670 | -8,9511270 |
| BTL_005_2elu_poll509 | *Bombus terrestris* | 39,5159670 | -8,9701330 |
| BTL_006_2elu_poll509 | *Bombus terrestris* | 39,5159670 | -8,9701330 |
| BTL_007_2elu_poll509 | *Bombus terrestris* | 39,5159670 | -8,9701330 |
| BTL_009_2elu_poll510 | *Bombus terrestris* | 39,5278330 | -8,9662830 |
| BTL_010_2elu_poll510 | *Bombus terrestris* | 39,5278330 | -8,9662830 |
| BTL_011_2elu_poll510 | *Bombus terrestris* | 39,5278330 | -8,9662830 |
| BTL_012_2elu_poll510 | *Bombus terrestris* | 39,5278330 | -8,9662830 |
| BOM_ARRA_001_poll026 | *Bombus terrestris* | 38,9714000 | -9,0641000 |
| BOM_ARRA_002_poll026 | *Bombus terrestris* | 39,0012840 | -9,0778300 |
| BOM_ARRA_008_poll076 | *Bombus terrestris* | 38,9771890 | -9,0687190 |

| | | | |
|---|---|---|---|
| BOM_SAL_001_poll505 | *Bombus terrestris* | 39,1038890 | -9,0115280 |
| BOM_SAL_007_poll506 | *Bombus terrestris* | 39,1433330 | -9,0385560 |
| BOM_SAL_008_poll506 | *Bombus terrestris* | 39,1433330 | -9,0385560 |
| BOM_SAL_009_poll506 | *Bombus terrestris* | 39,1433330 | -9,0385560 |
| BOM_ASSA_004_poll032 | *Bombus terrestris* | 38,8956340 | -9,4297740 |
| BOM_SINN_001_poll105 | *Bombus terrestris* | 38,8851760 | -9,3969830 |
| BOM_SINN_015_poll030 | *Bombus terrestris* | 38,8976390 | -9,4191060 |
| BOM_BORA_001_poll007 | *Bombus terrestris* | 39,2527008 | -9,1696696 |
| BOM_BORA_002_poll007 | *Bombus terrestris* | 39,2527008 | -9,1696696 |
| BOM_BORA_001_poll009 | *Bombus terrestris* | 39,2633275 | -9,1703536 |
| BOM_BORA_003_poll009 | *Bombus terrestris* | 39,2633275 | -9,1703536 |
| BOM_BORA_009_poll008 | *Bombus terrestris* | 39,2650447 | -9,1627322 |
| BOM_CRAA_002_poll066 | *Bombus terrestris* | 39,4319420 | -8,9780550 |
| BOM_CRAA_005_poll066 | *Bombus terrestris* | 39,4319420 | -8,9780550 |
| BOM_CRAA_007_poll066 | *Bombus terrestris* | 39,4319420 | -8,9780550 |
| BOM_CRAA_008_poll066 | *Bombus terrestris* | 39,4319420 | -8,9780550 |
| BOM_CRAA_011_poll066 | *Bombus terrestris* | 39,4319420 | -8,9780550 |
| BOM_CRAA_022_poll066 | *Bombus terrestris* | 39,4319420 | -8,9780550 |
| BOM_FZZN_003_poll083 | *Bombus terrestris* | 39,6768710 | -8,3137380 |
| BOM_FZZN_017_poll085 | *Bombus terrestris* | 39,6227350 | -8,2752070 |
| BOM_CRUN_004_poll013 | *Bombus terrestris* | 39,1404580 | -8,5255540 |
| BOM_FVFN_001_poll015 | *Bombus terrestris* | 38,7184430 | -8,3245650 |
| BOM_FVFN_004_poll016 | *Bombus terrestris* | 38,7108960 | -8,3135350 |
| BOM_FVFN_005_poll015 | *Bombus terrestris* | 38,7184430 | -8,3245650 |
| BOM_FVFN_006_poll015 | *Bombus terrestris* | 38,7184430 | -8,3245650 |
| BOM_MALN_004_poll059 | *Bombus terrestris* | 40,3042370 | -6,9599950 |
| BOM_MALN_007_poll058 | *Bombus terrestris* | 40,3411700 | -7,0268310 |
| BOM_MALN_012_poll058 | *Bombus terrestris* | 40,3411700 | -7,0268310 |
| BOM_MGRN_001_poll080 | *Bombus terrestris* | 39,7762910 | -9,0173500 |
| BOM_MGRN_001_poll096 | *Bombus terrestris* | 39,8628610 | -8,9329570 |
| BOM_MGRN_002_poll101 | *Bombus terrestris* | 39,9373310 | -8,8652420 |
| BOM_MGRN_003_poll079 | *Bombus terrestris* | 39,7344690 | -8,9665690 |
| BOM_MGRN_004_poll079 | *Bombus terrestris* | 39,7344690 | -8,9665690 |
| BOM_MGRN_005_poll099 | *Bombus terrestris* | 39,8582690 | -8,8840710 |
| BOM_MGRN_011_poll101 | *Bombus terrestris* | 39,9373310 | -8,8652420 |
| BOM_MOL_003_poll500 | *Bombus terrestris* | 37,5911472 | -8,4881280 |
| BOM_MOL_006_poll501 | *Bombus terrestris* | 37,5147780 | -8,4760280 |
| BOM_MOL_009_poll502 | *Bombus terrestris* | 37,5131110 | -8,4713890 |
| BOM_ODEN_004_poll020 | *Bombus terrestris* | 37,8163900 | -8,6834380 |
| BOM_ODEN_009_poll018 | *Bombus terrestris* | 37,4237790 | -8,7659270 |
| BOM_ODEN_010_poll017 | *Bombus terrestris* | 37,4377909 | -8,7987614 |
| BOM_ODEN_011_poll017 | *Bombus terrestris* | 37,4377909 | -8,7987614 |
| BOM_NAZN_001_poll022 | *Bombus terrestris* | 39,6132049 | -9,0798359 |
| BOM_NAZN_002_poll022 | *Bombus terrestris* | 39,6132049 | -9,0798359 |
| BOM_NAZN_005_poll022 | *Bombus terrestris* | 39,6132049 | -9,0798359 |
| BOM_NAZN_003_poll021 | *Bombus terrestris* | 39,6127880 | -9,0737030 |
| BOM_NAZN_003_poll022 | *Bombus terrestris* | 39,6132049 | -9,0798359 |
| BOM_NAZN_003_poll024 | *Bombus terrestris* | 39,5656884 | -9,0883055 |
| BOM_SAH_001_poll503 | *Bombus terrestris* | 39,434194 | -8,895583 |
| BOM_SAH_002_poll504 | *Bombus terrestris* | 39,434200 | -8,895600 |
| BOM_SDAN_004_poll004 | *Bombus terrestris* | 39,4924514 | -8,9299633 |
| BOM_SDAN_005_poll004 | *Bombus terrestris* | 39,4924514 | -8,9299633 |
| BOM_SDAN_006_poll004 | *Bombus terrestris* | 39,4924514 | -8,9299633 |

| | | | |
|---|---|---|---|
| BOM_SMAN_002_poll052 | *Bombus terrestris* | 39,4870810 | -7,5115620 |
| BOM_SMAN_004_poll052 | *Bombus terrestris* | 39,4870810 | -7,5115620 |
| BOM_SMAN_006_poll052 | *Bombus terrestris* | 39,4870810 | -7,5115620 |
| BOM_SMH_001_poll507 | *Bombus terrestris* | 39,3103610 | -7,3801390 |
| BOM_SMH_002_poll507 | *Bombus terrestris* | 39,3103610 | -7,3801390 |
| BOM_SMH_003_poll508 | *Bombus terrestris* | 39,4128610 | -7,6511670 |
| BOM_TURA_009_poll075 | *Bombus terrestris* | 39,0379830 | -9,2826430 |
| BOM_TURA_015_poll071 | *Bombus terrestris* | 39,0461870 | -9,2714550 |
| BTL_236_1elu_poll511 | *Bombus terrestris* | 39,0965560 | -9,3205000 |
| BTL_237_1elu_poll511 | *Bombus terrestris* | 39,0965560 | -9,3205000 |
| BTL_247_1elu_poll512 | *Bombus terrestris* | 39,1044170 | -9,3165280 |
| BTL_248_1elu_poll512 | *Bombus terrestris* | 39,1044170 | -9,3165280 |
| BTL_249_1elu_poll513 | *Bombus terrestris* | 39,1015000 | -9,3180830 |
| BTL_254_1elu_poll513 | *Bombus terrestris* | 39,1015000 | -9,3180830 |
| BTL_255_1elu_poll513 | *Bombus terrestris* | 39,1015000 | -9,3180830 |
| BOM_SINN_001_poll011 | *Bombus terrestris* | 38,8016958 | -9,4844644 |
| BOM_SINN_001_poll012 | *Bombus terrestris* | 38,7818514 | -9,4943054 |
| BOM_SINN_003_poll092 | *Bombus terrestris* | 38,7923750 | -9,4646430 |
| BOM_SINN_012_poll092 | *Bombus terrestris* | 38,7923750 | -9,4646430 |
| LGL_ALCA_004_poll094 | *Lasioglossum malachurum* | 39,5005680 | -8,9788740 |
| LGL_ALCA_004_poll095 | *Lasioglossum malachurum* | 39,4649360 | -8,9770450 |
| LGL_ALCA_005_poll002 | *Lasioglossum malachurum* | 39,4843098 | -8,9934508 |
| LGL_ALCA_005_poll094 | *Lasioglossum malachurum* | 39,5005680 | -8,9788740 |
| LGL_ALCA_006_poll002 | *Lasioglossum malachurum* | 39,4843098 | -8,9934508 |
| LGL_ALCA_006_poll003 | *Lasioglossum malachurum* | 39,5044021 | -9,0390424 |
| LGL_ALCA_008_poll002 | *Lasioglossum malachurum* | 39,4843098 | -8,9934508 |
| LGL_ARRA_001_poll025 | *Lasioglossum malachurum* | 38,9714035 | -9,0640691 |
| LGL_ARRA_007_poll077 | *Lasioglossum malachurum* | 39,0062140 | -9,0667490 |
| LGL_ARRA_008_poll027 | *Lasioglossum malachurum* | 39,0148941 | -9,0667248 |
| LGL_ARRA_008_poll029 | *Lasioglossum malachurum* | 39,0148941 | -9,0667248 |
| LGL_ARRA_009_poll027 | *Lasioglossum malachurum* | 39,0148941 | -9,0667248 |
| LGL_ARRA_010_poll077 | *Lasioglossum malachurum* | 39,0062140 | -9,0667490 |
| LGL_BORA_001_poll008 | *Lasioglossum malachurum* | 39,2650447 | -9,1627322 |
| LGL_BORA_003_poll008 | *Lasioglossum malachurum* | 39,2650447 | -9,1627322 |
| LGL_BORA_005_poll008 | *Lasioglossum malachurum* | 39,2650447 | -9,1627322 |
| LGL_BORA_007_poll008 | *Lasioglossum malachurum* | 39,2650447 | -9,1627322 |
| LGL_BORA_008_poll008 | *Lasioglossum malachurum* | 39,2650447 | -9,1627322 |
| LGL_BORA_013_poll008 | *Lasioglossum malachurum* | 39,2650447 | -9,1627322 |
| LGL_CRAA_001_poll070 | *Lasioglossum malachurum* | 39,4081980 | -9,0835880 |
| LGL_CRAA_002_poll070 | *Lasioglossum malachurum* | 39,4081980 | -9,0835880 |
| LGL_CRAA_002_poll071 | *Lasioglossum malachurum* | 39,4081980 | -9,0835880 |
| LGL_CRAA_006_poll070 | *Lasioglossum malachurum* | 39,4081980 | -9,0835880 |
| LGL_CRAA_007_poll070 | *Lasioglossum malachurum* | 39,4081980 | -9,0835880 |
| LGL_CRAA_009_poll070 | *Lasioglossum malachurum* | 39,4081980 | -9,0835880 |
| LGL_FVFN_009_poll016 | *Lasioglossum malachurum* | 38,7108960 | -8,3135350 |
| LGL_FVFN_010_poll016 | *Lasioglossum malachurum* | 38,7108960 | -8,3135350 |
| LGL_FVFN_011_poll015 | *Lasioglossum malachurum* | 38,7184430 | -8,3245650 |
| LGL_FVFN_012_poll015 | *Lasioglossum malachurum* | 38,7184430 | -8,3245650 |
| LGL_FVFN_012_poll016 | *Lasioglossum malachurum* | 38,7108960 | -8,3135350 |
| LGL_FVFN_013_poll015 | *Lasioglossum malachurum* | 38,7184430 | -8,3245650 |
| LGL_FVFN_014_poll015 | *Lasioglossum malachurum* | 38,7184430 | -8,3245650 |
| LGL_FZZN_003_poll086 | *Lasioglossum malachurum* | 39,6875990 | -8,3143900 |
| LGL_FZZN_004_poll082 | *Lasioglossum malachurum* | 39,6894830 | -8,3109010 |

Table S1

| | | | |
|---|---|---|---|
| LGL_FZZN_004_poll084 | *Lasioglossum malachurum* | 39,6350900 | -8,2916300 |
| LGL_FZZN_005_poll086 | *Lasioglossum malachurum* | 39,6875990 | -8,3143900 |
| LGL_FZZN_006_poll083 | *Lasioglossum malachurum* | 39,6768710 | -8,3137380 |
| LGL_FZZN_012_poll082 | *Lasioglossum malachurum* | 39,6894830 | -8,3109010 |
| LGL_MGRN_004_poll097 | *Lasioglossum malachurum* | 39,8633300 | -8,9293000 |
| LGL_MGRN_004_poll098 | *Lasioglossum malachurum* | 39,8680390 | -8,9236690 |
| LGL_MGRN_012_poll099 | *Lasioglossum malachurum* | 39,8582690 | -8,8840710 |
| LGL_MGRN_015_poll099 | *Lasioglossum malachurum* | 39,8582690 | -8,8840710 |
| LGL_MGRN_019_poll099 | *Lasioglossum malachurum* | 39,8582690 | -8,8840710 |
| LGL_MGRN_025_poll099 | *Lasioglossum malachurum* | 39,8582690 | -8,8840710 |
| LGL_NAZN_001_poll023 | *Lasioglossum malachurum* | 39,5704570 | -9,0781280 |
| LGL_NAZN_002_poll023 | *Lasioglossum malachurum* | 39,5704570 | -9,0781280 |
| LGL_NAZN_003_poll023 | *Lasioglossum malachurum* | 39,5704570 | -9,0781280 |
| LGL_NAZN_003_poll025 | *Lasioglossum malachurum* | 39,5704570 | -9,0781280 |
| LGL_NAZN_004_poll023 | *Lasioglossum malachurum* | 39,5704570 | -9,0781280 |
| LGL_NAZN_005_poll065 | *Lasioglossum malachurum* | 39,5725990 | -9,0735500 |
| LGL_ODEN_007_poll020 | *Lasioglossum malachurum* | 37,8163900 | -8,6834380 |
| LGL_ODEN_008_poll017 | *Lasioglossum malachurum* | 37,4377909 | -8,7987614 |
| LGL_ODEN_008_poll019 | *Lasioglossum malachurum* | 37,6012850 | -8,6945060 |
| LGL_ODEN_008_poll020 | *Lasioglossum malachurum* | 37,8163900 | -8,6834380 |
| LGL_ODEN_009_poll017 | *Lasioglossum malachurum* | 37,4377909 | -8,7987614 |
| LGL_ODEN_009_poll020 | *Lasioglossum malachurum* | 37,8163900 | -8,6834380 |
| LGL_ODEN_010_poll020 | *Lasioglossum malachurum* | 37,8163900 | -8,6834380 |
| LGL_SINN_001_poll032 | *Lasioglossum malachurum* | 38,8956340 | -9,4297740 |
| LGL_SINN_002_poll031 | *Lasioglossum malachurum* | 38,8961060 | -9,4332770 |
| LGL_SINN_002_poll105 | *Lasioglossum malachurum* | 38,8851760 | -9,3969830 |
| LGL_SINN_004_poll029 | *Lasioglossum malachurum* | 38,8910270 | -9,3962270 |
| LGL_SINN_005_poll029 | *Lasioglossum malachurum* | 38,8910270 | -9,3962270 |
| LGL_SINN_006_poll030 | *Lasioglossum malachurum* | 38,8976390 | -9,4191060 |
| LGL_SINN_007_poll029 | *Lasioglossum malachurum* | 38,8910270 | -9,3962270 |
| LGL_SINN_002_poll104 | *Lasioglossum malachurum* | 38,7808350 | -9,4770440 |
| LGL_SINN_003_poll011 | *Lasioglossum malachurum* | 38,8016958 | -9,4844644 |
| LGL_SINN_007_poll104 | *Lasioglossum malachurum* | 38,7808350 | -9,4770440 |
| LGL_SINN_008_poll104 | *Lasioglossum malachurum* | 38,7808350 | -9,4770440 |
| LGL_SINN_016_poll102 | *Lasioglossum malachurum* | 38,7827830 | -9,4702320 |
| LGL_SINN_017_poll091 | *Lasioglossum malachurum* | 38,7972590 | -9,4796230 |
| LGL_SINN_018_poll091 | *Lasioglossum malachurum* | 38,7972590 | -9,4796230 |
| LGL_TURA_002_poll073 | *Lasioglossum malachurum* | 39,0309330 | -9,2915860 |
| LGL_TURA_004_poll010 | *Lasioglossum malachurum* | 39,0438174 | -9,2728438 |
| LGL_TURA_006_poll072 | *Lasioglossum malachurum* | 39,0379830 | -9,2826430 |
| LGL_TURA_007_poll072 | *Lasioglossum malachurum* | 39,0379830 | -9,2826430 |
| LGL_TURA_007_poll074 | *Lasioglossum malachurum* | 39,0126740 | -9,3030220 |
| LGL_TURA_014_poll075 | *Lasioglossum malachurum* | 39,0103260 | -9,2971090 |
| LGL_SMAN_015_poll136 | *Lasioglossum malachurum* | 39,3489450 | -7,3493450 |

**genomic analyses. The table provides sample ID, species g location, and landscape classification at two hierarchical**

| Location | Landscape Level 1 | Landscape Level 2 |
|---|---|---|
| Alcobaça | SSF | SSF |
| Alcobaça | SSF | SSF |
| Alcobaça | SSF | SSF |
| Alcobaça | SSF | SSF |
| Alcobaça | SSF | SSF |
| Alcobaça | SSF | SSF |
| Arruda dos Vinhos | SSF | SSF |
| Arruda dos Vinhos | SSF | SSF |
| Arruda dos Vinhos | SSF | SSF |
| Arruda dos Vinhos | SSF | SSF |
| Arruda dos Vinhos | SSF | SSF |
| Arruda dos Vinhos | SSF | SSF |
| Bombarral | SSF | SSF |
| Bombarral | SSF | SSF |
| Bombarral | SSF | SSF |
| Bombarral | SSF | SSF |
| Bombarral | SSF | SSF |
| Bombarral | SSF | SSF |
| Caldas da Rainha | SSF | SSF |
| Caldas da Rainha | SSF | SSF |
| Caldas da Rainha | SSF | SSF |
| Caldas da Rainha | SSF | SSF |
| Caldas da Rainha | SSF | SSF |
| Caldas da Rainha | SSF | SSF |
| Caldas da Rainha | SSF | SSF |
| Foros de Vale Figueira | LoA | Far LoA |
| Foros de Vale Figueira | LoA | Far LoA |
| Foros de Vale Figueira | LoA | Far LoA |
| Foros de Vale Figueira | LoA | Far LoA |
| Foros de Vale Figueira | LoA | Far LoA |
| Foros de Vale Figueira | LoA | Far LoA |
| Ferreira do Zêzere | LoA | Near LoA |
| Ferreira do Zêzere | LoA | Near LoA |
| Ferreira do Zêzere | LoA | Near LoA |
| Ferreira do Zêzere | LoA | Near LoA |
| Ferreira do Zêzere | LoA | Near LoA |
| Ferreira do Zêzere | LoA | Near LoA |
| Ferreira do Zêzere | LoA | Near LoA |
| Serra da Malcata | LoA | Far LoA |
| Serra da Malcata | LoA | Far LoA |
| Serra da Malcata | LoA | Far LoA |
| Serra da Malcata | LoA | Far LoA |
| Serra da Malcata | LoA | Far LoA |
| Serra da Malcata | LoA | Far LoA |
| Serra da Malcata | LoA | Far LoA |
| Marinha Grande | LoA | Near LoA |
| Marinha Grande | LoA | Near LoA |
| Marinha Grande | LoA | Near LoA |
| Marinha Grande | LoA | Near LoA |

Table S1

| | | |
|---|---|---|
| Marinha Grande | LoA | Near LoA |
| Marinha Grande | LoA | Near LoA |
| Nazaré | LoA | Near LoA |
| Nazaré | LoA | Near LoA |
| Nazaré | LoA | Near LoA |
| Nazaré | LoA | Near LoA |
| Nazaré | LoA | Near LoA |
| Nazaré | LoA | Near LoA |
| Odeceixe | LoA | Far LoA |
| Odeceixe | LoA | Far LoA |
| Odeceixe | LoA | Far LoA |
| Odeceixe | LoA | Far LoA |
| Odeceixe | LoA | Far LoA |
| Odeceixe | LoA | Far LoA |
| Assafora | SSF | SSF |
| Assafora | SSF | SSF |
| Assafora | SSF | SSF |
| Assafora | SSF | SSF |
| Assafora | SSF | SSF |
| Assafora | SSF | SSF |
| Assafora | SSF | SSF |
| Sintra | LoA | Near LoA |
| Sintra | LoA | Near LoA |
| Sintra | LoA | Near LoA |
| Sintra | LoA | Near LoA |
| Sintra | LoA | Near LoA |
| Sintra | LoA | Near LoA |
| Serra de São Mamede | LoA | Far LoA |
| Serra de São Mamede | LoA | Far LoA |
| Serra de São Mamede | LoA | Far LoA |
| Serra de São Mamede | LoA | Far LoA |
| Serra de São Mamede | LoA | Far LoA |
| Serra de São Mamede | LoA | Far LoA |
| Turcifal | SSF | SSF |
| Turcifal | SSF | SSF |
| Turcifal | SSF | SSF |
| Turcifal | SSF | SSF |
| Turcifal | SSF | SSF |
| Turcifal | SSF | SSF |
| Alcobaça | SSF | SSF |
| Alcobaça | SSF | SSF |
| Alcobaça | SSF | SSF |
| Alcobaça | SSF | SSF |
| Alcobaça | SSF | SSF |
| Alcobaça | SSF | SSF |
| Alcobaça | SSF | SSF |
| Alcobaça | SSF | SSF |
| Alcobaça | SSF | SSF |
| Alcobaça | SSF | SSF |
| Alcobaça | SSF | SSF |
| Arruda dos Vinhos | SSF | SSF |
| Arruda dos Vinhos | SSF | SSF |
| Arruda dos Vinhos | SSF | SSF |

| | | |
|---|---|---|
| Arruda dos Vinhos | SSF | SSF |
| Arruda dos Vinhos | SSF | SSF |
| Arruda dos Vinhos | SSF | SSF |
| Arruda dos Vinhos | SSF | SSF |
| Assafora | SSF | SSF |
| Assafora | SSF | SSF |
| Assafora | SSF | SSF |
| Bombarral | SSF | SSF |
| Bombarral | SSF | SSF |
| Bombarral | SSF | SSF |
| Bombarral | SSF | SSF |
| Bombarral | SSF | SSF |
| Caldas da Rainha | SSF | SSF |
| Caldas da Rainha | SSF | SSF |
| Caldas da Rainha | SSF | SSF |
| Caldas da Rainha | SSF | SSF |
| Caldas da Rainha | SSF | SSF |
| Caldas da Rainha | SSF | SSF |
| Ferreira do Zêzere | LoA | Near LoA |
| Ferreira do Zêzere | LoA | Near LoA |
| Foros de Vale Figueira | LoA | Far LoA |
| Foros de Vale Figueira | LoA | Far LoA |
| Foros de Vale Figueira | LoA | Far LoA |
| Foros de Vale Figueira | LoA | Far LoA |
| Foros de Vale Figueira | LoA | Far LoA |
| Serra da Malcata | LoA | Far LoA |
| Serra da Malcata | LoA | Far LoA |
| Serra da Malcata | LoA | Far LoA |
| Marinha Grande | LoA | Near LoA |
| Marinha Grande | LoA | Near LoA |
| Marinha Grande | LoA | Near LoA |
| Marinha Grande | LoA | Near LoA |
| Marinha Grande | LoA | Near LoA |
| Marinha Grande | LoA | Near LoA |
| Marinha Grande | LoA | Near LoA |
| Odeceixe | LoA | Far LoA |
| Odeceixe | LoA | Far LoA |
| Odeceixe | LoA | Far LoA |
| Odeceixe | LoA | Far LoA |
| Odeceixe | LoA | Far LoA |
| Odeceixe | LoA | Far LoA |
| Odeceixe | LoA | Far LoA |
| Nazaré | LoA | Near LoA |
| Nazaré | LoA | Near LoA |
| Nazaré | LoA | Near LoA |
| Nazaré | LoA | Near LoA |
| Nazaré | LoA | Near LoA |
| Nazaré | LoA | Near LoA |
| Serra de Aires e Candeeiros | LoA | Near LoA |
| Serra de Aires e Candeeiros | LoA | Near LoA |
| Serra de Aires e Candeeiros | LoA | Near LoA |
| Serra de Aires e Candeeiros | LoA | Near LoA |
| Serra de Aires e Candeeiros | LoA | Near LoA |

| | | |
|---|---|---|
| Serra de São Mamede | LoA | Far LoA |
| Serra de São Mamede | LoA | Far LoA |
| Serra de São Mamede | LoA | Far LoA |
| Serra de São Mamede | LoA | Far LoA |
| Serra de São Mamede | LoA | Far LoA |
| Serra de São Mamede | LoA | Far LoA |
| Turcifal | SSF | SSF |
| Turcifal | SSF | SSF |
| Turcifal | SSF | SSF |
| Turcifal | SSF | SSF |
| Turcifal | SSF | SSF |
| Turcifal | SSF | SSF |
| Turcifal | SSF | SSF |
| Turcifal | SSF | SSF |
| Turcifal | SSF | SSF |
| Sintra | LoA | Near LoA |
| Sintra | LoA | Near LoA |
| Sintra | LoA | Near LoA |
| Sintra | LoA | Near LoA |
| Alcobaça | SSF | SSF |
| Alcobaça | SSF | SSF |
| Alcobaça | SSF | SSF |
| Alcobaça | SSF | SSF |
| Alcobaça | SSF | SSF |
| Alcobaça | SSF | SSF |
| Alcobaça | SSF | SSF |
| Arruda dos Vinhos | SSF | SSF |
| Arruda dos Vinhos | SSF | SSF |
| Arruda dos Vinhos | SSF | SSF |
| Arruda dos Vinhos | SSF | SSF |
| Arruda dos Vinhos | SSF | SSF |
| Arruda dos Vinhos | SSF | SSF |
| Bombarral | SSF | SSF |
| Bombarral | SSF | SSF |
| Bombarral | SSF | SSF |
| Bombarral | SSF | SSF |
| Bombarral | SSF | SSF |
| Bombarral | SSF | SSF |
| Caldas da Rainha | SSF | SSF |
| Caldas da Rainha | SSF | SSF |
| Caldas da Rainha | SSF | SSF |
| Caldas da Rainha | SSF | SSF |
| Caldas da Rainha | SSF | SSF |
| Caldas da Rainha | SSF | SSF |
| Foros de Vale Figueira | LoA | Far LoA |
| Foros de Vale Figueira | LoA | Far LoA |
| Foros de Vale Figueira | LoA | Far LoA |
| Foros de Vale Figueira | LoA | Far LoA |
| Foros de Vale Figueira | LoA | Far LoA |
| Foros de Vale Figueira | LoA | Far LoA |
| Foros de Vale Figueira | LoA | Far LoA |
| Ferreira do Zêzere | LoA | Near LoA |
| Ferreira do Zêzere | LoA | Near LoA |

Table S1

| | | |
|---|---|---|
| Ferreira do Zêzere | LoA | Near LoA |
| Ferreira do Zêzere | LoA | Near LoA |
| Ferreira do Zêzere | LoA | Near LoA |
| Ferreira do Zêzere | LoA | Near LoA |
| Marinha Grande | LoA | Near LoA |
| Marinha Grande | LoA | Near LoA |
| Marinha Grande | LoA | Near LoA |
| Marinha Grande | LoA | Near LoA |
| Marinha Grande | LoA | Near LoA |
| Marinha Grande | LoA | Near LoA |
| Nazaré | LoA | Near LoA |
| Nazaré | LoA | Near LoA |
| Nazaré | LoA | Near LoA |
| Nazaré | LoA | Near LoA |
| Nazaré | LoA | Near LoA |
| Nazaré | LoA | Near LoA |
| Odeceixe | LoA | Far LoA |
| Odeceixe | LoA | Far LoA |
| Odeceixe | LoA | Far LoA |
| Odeceixe | LoA | Far LoA |
| Odeceixe | LoA | Far LoA |
| Odeceixe | LoA | Far LoA |
| Odeceixe | LoA | Far LoA |
| Assafora | SSF | SSF |
| Assafora | SSF | SSF |
| Assafora | SSF | SSF |
| Assafora | SSF | SSF |
| Assafora | SSF | SSF |
| Assafora | SSF | SSF |
| Assafora | SSF | SSF |
| Sintra | LoA | Near LoA |
| Sintra | LoA | Near LoA |
| Sintra | LoA | Near LoA |
| Sintra | LoA | Near LoA |
| Sintra | LoA | Near LoA |
| Sintra | LoA | Near LoA |
| Sintra | LoA | Near LoA |
| Turcifal | SSF | SSF |
| Turcifal | SSF | SSF |
| Turcifal | SSF | SSF |
| Turcifal | SSF | SSF |
| Turcifal | SSF | SSF |
| Turcifal | SSF | SSF |
| Serra de São Mamede | LoA | Far LoA |

**Table S2. Proportional cover of major land-use classes within each sampling loca cover, cropland, built area, rangeland, and bare ground, derived from the ESRI Se dataset.**

| Location | Prop. Trees | Prop. Crops | Prop. Built Area | Prop. Rangeland |
|---|---|---|---|---|
| Alcobaça | 0,228 | 0,325 | 0,411 | 0,035 |
| Arruda dos Vinhos | 0,130 | 0,621 | 0,205 | 0,038 |
| Assafora | 0,058 | 0,050 | 0,229 | 0,663 |
| Bombarral | 0,020 | 0,496 | 0,476 | 0,008 |
| Caldas da Rainha | 0,342 | 0,215 | 0,388 | 0,055 |
| Ferreira do Zêzere | 0,612 | 0,037 | 0,287 | 0,063 |
| Foros Vale Figueira | 0,071 | 0,115 | 0,195 | 0,618 |
| Marinha Grande | 0,298 | 0,092 | 0,405 | 0,189 |
| Nazaré | 0,381 | 0,097 | 0,190 | 0,295 |
| Odeceixe | 0,151 | 0,141 | 0,084 | 0,615 |
| Serra da Malcata | 0,540 | 0,083 | 0,057 | 0,320 |
| Serra de Aire e Candeeiros | 0,679 | 0,004 | 0,188 | 0,123 |
| Serra de São Mamede | 0,234 | 0,211 | 0,045 | 0,510 |
| Sintra | 0,631 | 0,000 | 0,312 | 0,052 |
| Turcifal | 0,098 | 0,666 | 0,233 | 0,003 |

**ıtion, including tree**
**ıntinel-2 Land Cover**

| Prop. Bare ground |
|---|
| 0,002 |
| 0,006 |
| 0,001 |
| 0,000 |
| 0,000 |
| 0,000 |
| 0,000 |
| 0,015 |
| 0,038 |
| 0,009 |
| 0,000 |
| 0,005 |
| 0,000 |
| 0,005 |
| 0,000 |

**Table S3. Description of the 23 metrics used to characterize landscape com**

| Metric ID | Metric name | Category |
|---|---|---|
| area_mn | Mean patch area | Patch size |
| area_sd | Standard deviation of patch area | Patch size |
| area_cv | Coefficient of variation of patch area | Patch size |
| cohesion | Patch cohesion index | Aggregation and connectivity |
| contag | Contagion index | Aggregation and connectivity |
| contig_mn | Mean contiguity index | Aggregation and connectivity |
| contig_sd | Standard deviation of contiguity index | Aggregation and connectivity |
| contig_cv | Coefficient of variation of contiguity index | Aggregation and connectivity |
| ed | Edge density | Edge complexity |
| te | Total edge | Edge complexity |
| iji | Interspersion and Juxtaposition Index | Edge complexity |
| lpi | Largest Patch Index | Edge complexity |
| pr | Patch richness | Patch richness and diversity |
| prd | Patch richness density | Patch richness and diversity |
| shdi | Shannon’s diversity index | Patch richness and diversity |
| sidi | Simpson’s diversity index | Patch richness and diversity |
| shei | Shannon’s evenness index | Patch richness and diversity |
| siei | Simpson’s evenness index | Patch richness and diversity |
| np | Number of patches | Patch density and counts |
| pd | Patch density | Patch density and counts |
| ent | Entropy | Entropy-based metrics |
| condent | Conditional entropy | Entropy-based metrics |
| joinent | Joint entropy | Entropy-based metrics |

Table S3

**ıposition and configuration.**

| Description |
|---|
| Average size of land-use patches, reflecting overall patch size within the landscape. |
| Variability in patch sizes, with higher values indicating greater heterogeneity. |
| Scale-independent measure of heterogeneity in patch sizes across the landscape. |
| Degree of physical connectedness among patches of the same class, with higher values indicating greater aggregation. |
| Degree to which land-use classes are aggregated versus interspersed across the landscape. |
| Average spatial connectedness of cells within patches, accounting for orthogonal and diagonal adjacency. |
| Variability in internal patch connectedness and compactness. |
| Scale-independent measure of heterogeneity in patch connectedness. |
| Total length of all patch edges per unit landscape area (m/ha), increasing with fragmentation. |
| Absolute sum of all patch edge lengths, reflecting overall landscape fragmentation. |
| Evenness of adjacency among different land-use classes across the landscape. |
| Percentage of landscape occupied by the largest patch, indicating dominance and homogenization. |
| Number of distinct land-use classes present in the landscape. |
| Patch richness standardized by landscape area, allowing comparison among landscapes of different sizes. |
| Landscape diversity accounting for both richness and proportional area of land-use classes. |
| Probability that two randomly selected cells belong to different classes, emphasizing dominance patterns. |
| Evenness of land-use area distribution among classes. |
| Evenness component of Simpson’s index, independent of class richness. |
| Total number of discrete land-use patches, increasing with fragmentation. |
| Number of patches per unit area, enabling comparison among landscapes of different sizes. |
| Overall thematic complexity and uncertainty in land-use composition. |
| Configurational complexity based on uncertainty in the class of neighboring cells. |
| Combined thematic and spatial complexity of adjacent land-use classes. |

**Table S4. Summary statistics of landscape metrics for each sampling location. Median, mean, and standard deviation values are presented for all landscape metrics calculated within the studied landscapes.**

| Location | .andscape metri | Median | Mean | SD |
|---|---|---|---|---|
| Alcobaça | area_cv | 326,549 | 336,264 | 80,042 |
| Alcobaça | area_mn | 6,213 | 6,852 | 2,501 |
| Alcobaça | area_sd | 21,393 | 22,493 | 7,885 |
| Alcobaça | cohesion | 98,897 | 98,901 | 0,357 |
| Alcobaça | condent | 0,265 | 0,266 | 0,072 |
| Alcobaça | contag | 54,819 | 58,381 | 10,876 |
| Alcobaça | contig_cv | 63,657 | 63,725 | 6,438 |
| Alcobaça | contig_mn | 0,563 | 0,556 | 0,055 |
| Alcobaça | contig_sd | 0,350 | 0,351 | 0,014 |
| Alcobaça | ed | 74,546 | 74,701 | 22,129 |
| Alcobaça | ent | 1,511 | 1,500 | 0,260 |
| Alcobaça | iji | 76,276 | 67,125 | 22,606 |
| Alcobaça | joinent | 1,807 | 1,766 | 0,324 |
| Alcobaça | lpi | 40,138 | 39,733 | 13,596 |
| Alcobaça | np | 51,000 | 51,100 | 16,093 |
| Alcobaça | pd | 16,101 | 16,134 | 5,081 |
| Alcobaça | pr | 4,000 | 4,600 | 0,966 |
| Alcobaça | prd | 1,263 | 1,452 | 0,305 |
| Alcobaça | shdi | 1,050 | 1,040 | 0,180 |
| Alcobaça | shei | 0,757 | 0,707 | 0,178 |
| Alcobaça | sidi | 0,605 | 0,604 | 0,079 |
| Alcobaça | siei | 0,807 | 0,784 | 0,129 |
| Alcobaça | te | 23610,000 | 23659,000 | 7008,781 |
| Arruda_dos_Vinhos | area_cv | 302,868 | 322,645 | 93,572 |
| Arruda_dos_Vinhos | area_mn | 16,669 | 20,107 | 13,630 |
| Arruda_dos_Vinhos | area_sd | 49,214 | 56,084 | 29,024 |
| Arruda_dos_Vinhos | cohesion | 99,528 | 99,347 | 0,492 |
| Arruda_dos_Vinhos | condent | 0,166 | 0,166 | 0,087 |
| Arruda_dos_Vinhos | contag | 74,871 | 69,982 | 13,352 |
| Arruda_dos_Vinhos | contig_cv | 60,164 | 47,952 | 24,208 |
| Arruda_dos_Vinhos | contig_mn | 0,591 | 0,647 | 0,150 |
| Arruda_dos_Vinhos | contig_sd | 0,334 | 0,279 | 0,103 |
| Arruda_dos_Vinhos | ed | 46,364 | 46,337 | 24,713 |
| Arruda_dos_Vinhos | ent | 0,869 | 0,978 | 0,492 |
| Arruda_dos_Vinhos | iji | 45,908 | 46,847 | 28,487 |
| Arruda_dos_Vinhos | joinent | 1,025 | 1,144 | 0,575 |
| Arruda_dos_Vinhos | lpi | 70,177 | 69,204 | 20,129 |
| Arruda_dos_Vinhos | np | 19,000 | 29,000 | 28,968 |
| Arruda_dos_Vinhos | pd | 5,999 | 9,156 | 9,146 |
| Arruda_dos_Vinhos | pr | 4,500 | 4,000 | 1,195 |
| Arruda_dos_Vinhos | prd | 1,421 | 1,263 | 0,377 |
| Arruda_dos_Vinhos | shdi | 0,603 | 0,679 | 0,341 |
| Arruda_dos_Vinhos | shei | 0,415 | 0,515 | 0,233 |
| Arruda_dos_Vinhos | sidi | 0,407 | 0,387 | 0,183 |
| Arruda_dos_Vinhos | siei | 0,526 | 0,536 | 0,243 |
| Arruda_dos_Vinhos | te | 14685,000 | 14676,250 | 7826,692 |
| Assafora | area_cv | 436,596 | 431,117 | 33,409 |
| Assafora | area_mn | 7,725 | 6,916 | 1,957 |
| Assafora | area_sd | 34,286 | 29,575 | 7,620 |

| | | | | |
|---|---|---|---|---|
| Assafora | cohesion | 99,263 | 99,236 | 0,168 |
| Assafora | condent | 0,219 | 0,236 | 0,042 |
| Assafora | contag | 67,664 | 62,749 | 8,729 |
| Assafora | contig_cv | 67,766 | 72,251 | 14,102 |
| Assafora | contig_mn | 0,516 | 0,492 | 0,080 |
| Assafora | contig_sd | 0,349 | 0,346 | 0,011 |
| Assafora | ed | 60,333 | 65,763 | 12,140 |
| Assafora | ent | 1,479 | 1,438 | 0,164 |
| Assafora | iji | 62,861 | 69,226 | 13,875 |
| Assafora | joinent | 1,672 | 1,674 | 0,195 |
| Assafora | lpi | 56,413 | 59,302 | 9,885 |
| Assafora | np | 41,000 | 49,200 | 15,139 |
| Assafora | pd | 12,946 | 15,533 | 4,778 |
| Assafora | pr | 5,000 | 5,000 | 1,000 |
| Assafora | prd | 1,579 | 1,579 | 0,316 |
| Assafora | shdi | 1,026 | 0,997 | 0,114 |
| Assafora | shei | 0,572 | 0,639 | 0,144 |
| Assafora | sidi | 0,568 | 0,543 | 0,081 |
| Assafora | siei | 0,681 | 0,689 | 0,132 |
| Assafora | te | 19110,000 | 20830,000 | 3847,675 |
| Bombarral | area_cv | 271,474 | 279,032 | 26,285 |
| Bombarral | area_mn | 16,671 | 16,357 | 2,445 |
| Bombarral | area_sd | 50,576 | 45,802 | 8,983 |
| Bombarral | cohesion | 99,436 | 99,430 | 0,068 |
| Bombarral | condent | 0,139 | 0,144 | 0,031 |
| Bombarral | contag | 69,803 | 70,017 | 3,318 |
| Bombarral | contig_cv | 42,522 | 44,674 | 5,661 |
| Bombarral | contig_mn | 0,654 | 0,658 | 0,029 |
| Bombarral | contig_sd | 0,278 | 0,293 | 0,025 |
| Bombarral | ed | 34,637 | 37,687 | 11,332 |
| Bombarral | ent | 1,092 | 1,112 | 0,069 |
| Bombarral | iji | 74,993 | 59,983 | 31,439 |
| Bombarral | joinent | 1,234 | 1,256 | 0,063 |
| Bombarral | lpi | 58,517 | 56,162 | 12,641 |
| Bombarral | np | 19,000 | 19,667 | 3,055 |
| Bombarral | pd | 5,998 | 6,209 | 0,964 |
| Bombarral | pr | 4,000 | 4,333 | 0,577 |
| Bombarral | prd | 1,263 | 1,368 | 0,182 |
| Bombarral | shdi | 0,758 | 0,771 | 0,048 |
| Bombarral | shei | 0,546 | 0,532 | 0,071 |
| Bombarral | sidi | 0,492 | 0,486 | 0,025 |
| Bombarral | siei | 0,615 | 0,634 | 0,036 |
| Bombarral | te | 10970,000 | 11936,667 | 3589,002 |
| Caldas_da_Rainha | area_cv | 320,235 | 306,561 | 58,473 |
| Caldas_da_Rainha | area_mn | 4,340 | 7,864 | 6,254 |
| Caldas_da_Rainha | area_sd | 13,345 | 25,906 | 24,242 |
| Caldas_da_Rainha | cohesion | 98,555 | 98,732 | 0,698 |
| Caldas_da_Rainha | condent | 0,340 | 0,277 | 0,111 |
| Caldas_da_Rainha | contag | 48,827 | 56,363 | 14,183 |
| Caldas_da_Rainha | contig_cv | 70,448 | 70,592 | 11,655 |
| Caldas_da_Rainha | contig_mn | 0,519 | 0,529 | 0,069 |
| Caldas_da_Rainha | contig_sd | 0,366 | 0,368 | 0,014 |
| Caldas_da_Rainha | ed | 94,976 | 77,315 | 32,140 |

| | | | | |
|---|---|---|---|---|
| Caldas_da_Rainha | ent | 1,705 | 1,468 | 0,457 |
| Caldas_da_Rainha | iji | 86,011 | 78,391 | 18,537 |
| Caldas_da_Rainha | joinent | 2,047 | 1,745 | 0,567 |
| Caldas_da_Rainha | lpi | 26,115 | 41,141 | 32,498 |
| Caldas_da_Rainha | np | 73,000 | 56,667 | 30,925 |
| Caldas_da_Rainha | pd | 23,044 | 17,890 | 9,764 |
| Caldas_da_Rainha | pr | 4,000 | 4,000 | 0,000 |
| Caldas_da_Rainha | prd | 1,263 | 1,263 | 0,000 |
| Caldas_da_Rainha | shdi | 1,183 | 1,018 | 0,317 |
| Caldas_da_Rainha | shei | 0,853 | 0,735 | 0,228 |
| Caldas_da_Rainha | sidi | 0,664 | 0,564 | 0,181 |
| Caldas_da_Rainha | siei | 0,885 | 0,752 | 0,242 |
| Caldas_da_Rainha | te | 30080,000 | 24490,000 | 10179,789 |
| Ferreira_do_Zezere | area_cv | 369,394 | 342,463 | 78,453 |
| Ferreira_do_Zezere | area_mn | 9,317 | 9,074 | 2,860 |
| Ferreira_do_Zezere | area_sd | 30,307 | 30,285 | 10,006 |
| Ferreira_do_Zezere | cohesion | 99,204 | 99,172 | 0,231 |
| Ferreira_do_Zezere | condent | 0,233 | 0,237 | 0,037 |
| Ferreira_do_Zezere | contag | 64,631 | 62,417 | 7,781 |
| Ferreira_do_Zezere | contig_cv | 49,899 | 55,524 | 10,497 |
| Ferreira_do_Zezere | contig_mn | 0,651 | 0,607 | 0,070 |
| Ferreira_do_Zezere | contig_sd | 0,328 | 0,332 | 0,025 |
| Ferreira_do_Zezere | ed | 68,089 | 66,748 | 10,001 |
| Ferreira_do_Zezere | ent | 1,182 | 1,303 | 0,230 |
| Ferreira_do_Zezere | iji | 58,441 | 62,092 | 22,464 |
| Ferreira_do_Zezere | joinent | 1,415 | 1,540 | 0,266 |
| Ferreira_do_Zezere | lpi | 41,485 | 50,180 | 19,223 |
| Ferreira_do_Zezere | np | 34,000 | 38,400 | 14,258 |
| Ferreira_do_Zezere | pd | 10,733 | 12,123 | 4,502 |
| Ferreira_do_Zezere | pr | 4,000 | 4,200 | 0,447 |
| Ferreira_do_Zezere | prd | 1,263 | 1,326 | 0,141 |
| Ferreira_do_Zezere | shdi | 0,820 | 0,903 | 0,159 |
| Ferreira_do_Zezere | shei | 0,591 | 0,636 | 0,134 |
| Ferreira_do_Zezere | sidi | 0,523 | 0,519 | 0,091 |
| Ferreira_do_Zezere | siei | 0,698 | 0,686 | 0,133 |
| Ferreira_do_Zezere | te | 21570,000 | 21142,000 | 3167,281 |
| Foros_Vale_Figueira | area_cv | 273,841 | 274,907 | 6,143 |
| Foros_Vale_Figueira | area_mn | 13,772 | 18,520 | 14,874 |
| Foros_Vale_Figueira | area_sd | 38,769 | 50,543 | 39,689 |
| Foros_Vale_Figueira | cohesion | 99,264 | 99,258 | 0,429 |
| Foros_Vale_Figueira | condent | 0,133 | 0,142 | 0,097 |
| Foros_Vale_Figueira | contag | 60,557 | 67,285 | 15,564 |
| Foros_Vale_Figueira | contig_cv | 78,371 | 82,114 | 10,268 |
| Foros_Vale_Figueira | contig_mn | 0,518 | 0,489 | 0,080 |
| Foros_Vale_Figueira | contig_sd | 0,384 | 0,397 | 0,031 |
| Foros_Vale_Figueira | ed | 33,339 | 35,831 | 25,140 |
| Foros_Vale_Figueira | ent | 1,444 | 1,260 | 0,641 |
| Foros_Vale_Figueira | iji | 75,905 | 75,861 | 0,539 |
| Foros_Vale_Figueira | joinent | 1,578 | 1,403 | 0,734 |
| Foros_Vale_Figueira | lpi | 50,248 | 54,564 | 34,215 |
| Foros_Vale_Figueira | np | 23,000 | 26,667 | 19,757 |
| Foros_Vale_Figueira | pd | 7,261 | 8,419 | 6,236 |
| Foros_Vale_Figueira | pr | 4,000 | 4,333 | 0,577 |

| | | | | |
|---|---|---|---|---|
| Foros_Vale_Figueira | prd | 1,263 | 1,368 | 0,182 |
| Foros_Vale_Figueira | shdi | 1,001 | 0,874 | 0,443 |
| Foros_Vale_Figueira | shei | 0,722 | 0,589 | 0,273 |
| Foros_Vale_Figueira | sidi | 0,585 | 0,480 | 0,271 |
| Foros_Vale_Figueira | siei | 0,780 | 0,621 | 0,341 |
| Foros_Vale_Figueira | te | 10560,000 | 11350,000 | 7964,440 |
| Marinha_Grande | area_cv | 327,677 | 324,175 | 68,536 |
| Marinha_Grande | area_mn | 10,294 | 13,729 | 10,411 |
| Marinha_Grande | area_sd | 35,487 | 39,230 | 21,290 |
| Marinha_Grande | cohesion | 99,242 | 99,187 | 0,272 |
| Marinha_Grande | condent | 0,198 | 0,194 | 0,097 |
| Marinha_Grande | contag | 59,772 | 58,654 | 6,901 |
| Marinha_Grande | contig_cv | 66,999 | 67,176 | 12,921 |
| Marinha_Grande | contig_mn | 0,539 | 0,549 | 0,098 |
| Marinha_Grande | contig_sd | 0,364 | 0,359 | 0,015 |
| Marinha_Grande | ed | 51,808 | 51,312 | 27,622 |
| Marinha_Grande | ent | 1,406 | 1,459 | 0,321 |
| Marinha_Grande | iji | 81,896 | 82,125 | 7,002 |
| Marinha_Grande | joinent | 1,605 | 1,653 | 0,417 |
| Marinha_Grande | lpi | 56,436 | 54,029 | 16,449 |
| Marinha_Grande | np | 32,500 | 36,167 | 23,962 |
| Marinha_Grande | pd | 10,261 | 11,419 | 7,566 |
| Marinha_Grande | pr | 4,000 | 4,000 | 0,632 |
| Marinha_Grande | prd | 1,263 | 1,263 | 0,200 |
| Marinha_Grande | shdi | 0,977 | 1,013 | 0,222 |
| Marinha_Grande | shei | 0,722 | 0,733 | 0,103 |
| Marinha_Grande | sidi | 0,549 | 0,568 | 0,111 |
| Marinha_Grande | siei | 0,764 | 0,762 | 0,128 |
| Marinha_Grande | te | 16410,000 | 16251,667 | 8747,238 |
| Nazare | area_cv | 261,693 | 252,965 | 58,986 |
| Nazare | area_mn | 9,596 | 10,457 | 4,879 |
| Nazare | area_sd | 23,094 | 24,590 | 6,393 |
| Nazare | cohesion | 98,840 | 98,859 | 0,115 |
| Nazare | condent | 0,205 | 0,226 | 0,042 |
| Nazare | contag | 55,756 | 54,095 | 4,062 |
| Nazare | contig_cv | 56,773 | 57,276 | 4,282 |
| Nazare | contig_mn | 0,617 | 0,593 | 0,052 |
| Nazare | contig_sd | 0,339 | 0,339 | 0,021 |
| Nazare | ed | 53,708 | 59,064 | 11,190 |
| Nazare | ent | 2,009 | 1,981 | 0,187 |
| Nazare | iji | 69,758 | 67,911 | 3,288 |
| Nazare | joinent | 2,215 | 2,207 | 0,196 |
| Nazare | lpi | 35,833 | 32,210 | 6,751 |
| Nazare | np | 33,000 | 34,800 | 12,736 |
| Nazare | pd | 10,421 | 10,988 | 4,022 |
| Nazare | pr | 6,000 | 5,400 | 0,894 |
| Nazare | prd | 1,894 | 1,705 | 0,282 |
| Nazare | shdi | 1,393 | 1,375 | 0,128 |
| Nazare | shei | 0,781 | 0,825 | 0,083 |
| Nazare | sidi | 0,703 | 0,719 | 0,039 |
| Nazare | siei | 0,885 | 0,889 | 0,054 |
| Nazare | te | 17010,000 | 18706,000 | 3544,027 |
| Odeceixe | area_cv | 327,055 | 341,356 | 63,828 |

| | | | | |
|---|---|---|---|---|
| Odeceixe | area_mn | 9,598 | 10,795 | 6,294 |
| Odeceixe | area_sd | 38,791 | 36,318 | 21,104 |
| Odeceixe | cohesion | 99,211 | 99,150 | 0,448 |
| Odeceixe | condent | 0,238 | 0,236 | 0,104 |
| Odeceixe | contag | 68,276 | 64,960 | 12,953 |
| Odeceixe | contig_cv | 66,468 | 70,342 | 14,200 |
| Odeceixe | contig_mn | 0,523 | 0,524 | 0,075 |
| Odeceixe | contig_sd | 0,364 | 0,360 | 0,029 |
| Odeceixe | ed | 67,662 | 67,547 | 34,016 |
| Odeceixe | ent | 1,236 | 1,359 | 0,535 |
| Odeceixe | iji | 53,662 | 55,546 | 12,885 |
| Odeceixe | joinent | 1,473 | 1,596 | 0,625 |
| Odeceixe | lpi | 55,039 | 56,964 | 23,152 |
| Odeceixe | np | 33,000 | 40,286 | 23,942 |
| Odeceixe | pd | 10,419 | 12,718 | 7,557 |
| Odeceixe | pr | 5,000 | 4,857 | 0,690 |
| Odeceixe | prd | 1,579 | 1,534 | 0,218 |
| Odeceixe | shdi | 0,855 | 0,941 | 0,371 |
| Odeceixe | shei | 0,531 | 0,595 | 0,216 |
| Odeceixe | sidi | 0,427 | 0,494 | 0,199 |
| Odeceixe | siei | 0,534 | 0,624 | 0,244 |
| Odeceixe | te | 21430,000 | 21395,714 | 10777,193 |
| Serra_da_Malcata | area_cv | 335,349 | 387,245 | 96,453 |
| Serra_da_Malcata | area_mn | 7,366 | 6,854 | 1,042 |
| Serra_da_Malcata | area_sd | 25,287 | 25,876 | 2,086 |
| Serra_da_Malcata | cohesion | 99,198 | 99,175 | 0,041 |
| Serra_da_Malcata | condent | 0,265 | 0,262 | 0,005 |
| Serra_da_Malcata | contag | 60,742 | 59,941 | 1,865 |
| Serra_da_Malcata | contig_cv | 61,093 | 59,942 | 2,174 |
| Serra_da_Malcata | contig_mn | 0,536 | 0,539 | 0,014 |
| Serra_da_Malcata | contig_sd | 0,323 | 0,323 | 0,005 |
| Serra_da_Malcata | ed | 80,734 | 77,644 | 5,941 |
| Serra_da_Malcata | ent | 1,314 | 1,340 | 0,073 |
| Serra_da_Malcata | iji | 43,467 | 53,741 | 24,954 |
| Serra_da_Malcata | joinent | 1,570 | 1,602 | 0,075 |
| Serra_da_Malcata | lpi | 46,031 | 52,522 | 11,253 |
| Serra_da_Malcata | np | 43,000 | 47,000 | 7,810 |
| Serra_da_Malcata | pd | 13,577 | 14,840 | 2,467 |
| Serra_da_Malcata | pr | 4,000 | 4,000 | 0,000 |
| Serra_da_Malcata | prd | 1,263 | 1,263 | 0,000 |
| Serra_da_Malcata | shdi | 0,913 | 0,930 | 0,050 |
| Serra_da_Malcata | shei | 0,658 | 0,671 | 0,036 |
| Serra_da_Malcata | sidi | 0,552 | 0,547 | 0,043 |
| Serra_da_Malcata | siei | 0,736 | 0,730 | 0,058 |
| Serra_da_Malcata | te | 25570,000 | 24590,000 | 1882,206 |
| Serra_de_Aire_e_Candeeiros | area_cv | 407,703 | 407,703 | 64,139 |
| Serra_de_Aire_e_Candeeiros | area_mn | 8,702 | 8,702 | 3,691 |
| Serra_de_Aire_e_Candeeiros | area_sd | 34,293 | 34,293 | 9,466 |
| Serra_de_Aire_e_Candeeiros | cohesion | 99,278 | 99,278 | 0,085 |
| Serra_de_Aire_e_Candeeiros | condent | 0,216 | 0,216 | 0,034 |
| Serra_de_Aire_e_Candeeiros | contag | 67,789 | 67,789 | 4,588 |
| Serra_de_Aire_e_Candeeiros | contig_cv | 53,823 | 53,823 | 18,350 |
| Serra_de_Aire_e_Candeeiros | contig_mn | 0,590 | 0,590 | 0,082 |

| | | | | |
|---|---|---|---|---|
| Serra_de_Aire_e_Candeeiros | contig_sd | 0,310 | 0,310 | 0,064 |
| Serra_de_Aire_e_Candeeiros | ed | 58,910 | 58,910 | 10,216 |
| Serra_de_Aire_e_Candeeiros | ent | 1,242 | 1,242 | 0,022 |
| Serra_de_Aire_e_Candeeiros | iji | 60,029 | 60,029 | 7,606 |
| Serra_de_Aire_e_Candeeiros | joinent | 1,458 | 1,458 | 0,056 |
| Serra_de_Aire_e_Candeeiros | lpi | 63,566 | 63,566 | 5,864 |
| Serra_de_Aire_e_Candeeiros | np | 40,000 | 40,000 | 16,971 |
| Serra_de_Aire_e_Candeeiros | pd | 12,628 | 12,628 | 5,356 |
| Serra_de_Aire_e_Candeeiros | pr | 5,000 | 5,000 | 1,414 |
| Serra_de_Aire_e_Candeeiros | prd | 1,579 | 1,579 | 0,446 |
| Serra_de_Aire_e_Candeeiros | shdi | 0,862 | 0,862 | 0,014 |
| Serra_de_Aire_e_Candeeiros | shei | 0,550 | 0,550 | 0,090 |
| Serra_de_Aire_e_Candeeiros | sidi | 0,482 | 0,482 | 0,002 |
| Serra_de_Aire_e_Candeeiros | siei | 0,611 | 0,611 | 0,043 |
| Serra_de_Aire_e_Candeeiros | te | 18660,000 | 18660,000 | 3238,549 |
| Serra_de_Sao_Mamede | area_cv | 333,067 | 330,323 | 99,886 |
| Serra_de_Sao_Mamede | area_mn | 16,668 | 75,836 | 135,239 |
| Serra_de_Sao_Mamede | area_sd | 33,246 | 43,886 | 34,517 |
| Serra_de_Sao_Mamede | cohesion | 99,354 | 99,359 | 0,552 |
| Serra_de_Sao_Mamede | condent | 0,150 | 0,151 | 0,134 |
| Serra_de_Sao_Mamede | contag | 60,600 | 64,452 | 13,769 |
| Serra_de_Sao_Mamede | contig_cv | 77,234 | 77,131 | 8,659 |
| Serra_de_Sao_Mamede | contig_mn | 0,503 | 0,605 | 0,222 |
| Serra_de_Sao_Mamede | contig_sd | 0,380 | 0,390 | 0,036 |
| Serra_de_Sao_Mamede | ed | 40,702 | 40,648 | 38,122 |
| Serra_de_Sao_Mamede | ent | 1,066 | 0,985 | 0,727 |
| Serra_de_Sao_Mamede | iji | 62,665 | 63,887 | 21,515 |
| Serra_de_Sao_Mamede | joinent | 1,216 | 1,135 | 0,857 |
| Serra_de_Sao_Mamede | lpi | 60,046 | 65,338 | 28,640 |
| Serra_de_Sao_Mamede | np | 19,000 | 31,800 | 33,484 |
| Serra_de_Sao_Mamede | pd | 6,000 | 10,040 | 10,572 |
| Serra_de_Sao_Mamede | pr | 4,000 | 3,400 | 1,517 |
| Serra_de_Sao_Mamede | prd | 1,263 | 1,073 | 0,479 |
| Serra_de_Sao_Mamede | shdi | 0,740 | 0,683 | 0,505 |
| Serra_de_Sao_Mamede | shei | 0,674 | 0,495 | 0,341 |
| Serra_de_Sao_Mamede | sidi | 0,501 | 0,386 | 0,285 |
| Serra_de_Sao_Mamede | siei | 0,739 | 0,650 | 0,275 |
| Serra_de_Sao_Mamede | te | 12890,000 | 12874,000 | 12073,897 |
| Sintra | area_cv | 281,308 | 288,309 | 29,617 |
| Sintra | area_mn | 17,592 | 17,772 | 6,296 |
| Sintra | area_sd | 47,007 | 50,177 | 15,333 |
| Sintra | cohesion | 99,498 | 99,430 | 0,234 |
| Sintra | condent | 0,152 | 0,135 | 0,035 |
| Sintra | contag | 68,568 | 65,288 | 7,800 |
| Sintra | contig_cv | 58,534 | 57,310 | 5,273 |
| Sintra | contig_mn | 0,599 | 0,600 | 0,020 |
| Sintra | contig_sd | 0,350 | 0,343 | 0,026 |
| Sintra | ed | 38,547 | 35,003 | 9,870 |
| Sintra | ent | 1,282 | 1,258 | 0,353 |
| Sintra | iji | 59,586 | 55,041 | 17,539 |
| Sintra | joinent | 1,445 | 1,394 | 0,385 |
| Sintra | lpi | 56,674 | 60,552 | 13,128 |
| Sintra | np | 18,000 | 19,800 | 7,225 |

| | | | | |
|---|---|---|---|---|
| Sintra | pd | 5,684 | 6,252 | 2,281 |
| Sintra | pr | 4,000 | 4,200 | 1,304 |
| Sintra | prd | 1,263 | 1,326 | 0,412 |
| Sintra | shdi | 0,890 | 0,873 | 0,245 |
| Sintra | shei | 0,573 | 0,626 | 0,138 |
| Sintra | sidi | 0,533 | 0,506 | 0,120 |
| Sintra | siei | 0,685 | 0,679 | 0,142 |
| Sintra | te | 12210,000 | 11086,000 | 3124,977 |
| Turcifal | area_cv | 305,100 | 293,310 | 74,956 |
| Turcifal | area_mn | 17,599 | 16,441 | 5,990 |
| Turcifal | area_sd | 42,552 | 45,635 | 14,261 |
| Turcifal | cohesion | 99,391 | 99,413 | 0,160 |
| Turcifal | condent | 0,183 | 0,178 | 0,042 |
| Turcifal | contag | 61,410 | 64,149 | 9,600 |
| Turcifal | contig_cv | 40,171 | 39,288 | 10,092 |
| Turcifal | contig_mn | 0,694 | 0,722 | 0,055 |
| Turcifal | contig_sd | 0,279 | 0,279 | 0,059 |
| Turcifal | ed | 50,987 | 49,323 | 12,314 |
| Turcifal | ent | 1,243 | 1,139 | 0,283 |
| Turcifal | iji | 54,088 | 48,225 | 14,098 |
| Turcifal | joinent | 1,423 | 1,317 | 0,320 |
| Turcifal | lpi | 60,316 | 60,574 | 17,422 |
| Turcifal | np | 18,000 | 22,000 | 8,926 |
| Turcifal | pd | 5,682 | 6,946 | 2,819 |
| Turcifal | pr | 4,000 | 3,714 | 0,756 |
| Turcifal | prd | 1,263 | 1,173 | 0,239 |
| Turcifal | shdi | 0,861 | 0,790 | 0,196 |
| Turcifal | shei | 0,672 | 0,621 | 0,171 |
| Turcifal | sidi | 0,526 | 0,464 | 0,126 |
| Turcifal | siei | 0,724 | 0,646 | 0,180 |
| Turcifal | te | 16150,000 | 15621,429 | 3898,484 |

**Table S5. Forward and reverse primers used for COI amplification in *Andrena flavipes*.**

| | *Andrena flavipes* species-specific primers |
|---|---|
| Forward Primer | 5’-GATAGAATTAAGAAATCCAGG-3’ |
| Reverse Primer | 5’-CTGATCATGGGAATAGTGG-3’ |

**Table S6. Quality control and filtering results obtained from FastQC, FastP,**

| Sample_ID | fastQC | |
|---|---|---|
| | Passed_quality_check | Raw_data_total PE_read |
| AND_ALCA_001_poll002 | Yes | 10811948 |
| AND_ALCA_003_poll002 | Yes | 7929312 |
| AND_ALCA_004_poll002 | Yes | 14628682 |
| AND_ALCA_004_poll003 | Yes | 16375992 |
| AND_ALCA_011_poll001 | Yes | 31683664 |
| AND_ARRA_001_poll027 | Yes | 8570234 |
| AND_ARRA_002_poll028 | Yes | 5595300 |
| AND_ARRA_002_poll029 | Yes | 8319198 |
| AND_ARRA_003_poll028 | Yes | 9407972 |
| AND_ARRA_005_poll027 | Yes | 8527196 |
| AND_ARRA_006_poll027 | Yes | 2727698 |
| AND_BORA_003_poll008 | Yes | 5536488 |
| AND_BORA_004_poll007 | Yes | 5474824 |
| AND_BORA_005_poll007 | Yes | 6263010 |
| AND_BORA_007_poll007 | Yes | 5582686 |
| AND_BORA_009_poll007 | Yes | 13085350 |
| AND_BORA_011_poll007 | Yes | 9950922 |
| AND_CRAA_002_poll068 | Yes | 11830604 |
| AND_CRAA_005_poll070 | Yes | 8327702 |
| AND_CRAA_007_poll068 | Yes | 5487174 |
| AND_CRAA_008_poll070 | Yes | 9697592 |
| AND_CRAA_010_poll068 | Yes | 10647656 |
| AND_CRAA_012_poll070 | Yes | 7842696 |
| AND_FVFN_006_poll015 | Yes | 6494876 |
| AND_FVFN_007_poll015 | Yes | 5526862 |
| AND_FVFN_008_poll015 | Yes | 8570800 |
| AND_FVFN_008_poll016 | Yes | 9988060 |
| AND_FVFN_009_poll015 | Yes | 7766148 |
| AND_FVFN_010_poll015 | Yes | 6736698 |
| AND_FZZN_001_poll085 | Yes | 8151326 |
| AND_FZZN_004_poll086 | Yes | 6965684 |
| AND_FZZN_006_poll085 | Yes | 8717760 |
| AND_FZZN_008_poll086 | Yes | 7872642 |
| AND_FZZN_009_poll085 | Yes | 5650806 |
| AND_FZZN_018_poll084 | Yes | 7706566 |
| AND_MALN_001_poll060 | Yes | 28676532 |
| AND_MALN_002_poll060 | Yes | 7628978 |
| AND_MALN_003_poll060 | Yes | 6875456 |
| AND_MALN_004_poll060 | Yes | 8345506 |
| AND_MALN_010_poll060 | Yes | 6746992 |
| AND_MALN_012_poll060 | Yes | 8990568 |
| AND_MALN_013_poll060 | Yes | 9945404 |
| AND_MGRN_005_poll100 | Yes | 10014654 |
| AND_MGRN_006_poll096 | Yes | 11051702 |
| AND_MGRN_006_poll100 | Yes | 7994432 |
| AND_MGRN_007_poll100 | Yes | 11971000 |
| AND_MGRN_020_poll100 | Yes | 10298230 |
| AND_MGRN_024_poll099 | Yes | 10886846 |

| | | |
|---|---|---|
| AND_NAZN_004_poll023 | Yes | 6696366 |
| AND_NAZN_005_poll023 | Yes | 10330356 |
| AND_NAZN_005_poll024 | Yes | 6040770 |
| AND_NAZN_006_poll024 | Yes | 11612310 |
| AND_NAZN_007_poll024 | Yes | 7848704 |
| AND_NAZN_007_poll065 | Yes | 7713434 |
| AND_ODEN_001_poll020 | Yes | 5492912 |
| AND_ODEN_002_poll020 | Yes | 5736334 |
| AND_ODEN_006_poll018 | Yes | 11407186 |
| AND_ODEN_007_poll018 | Yes | 5627116 |
| AND_ODEN_009_poll019 | Yes | 6297224 |
| AND_ODEN_011_poll019 | Yes | 6495214 |
| AND_SINN_001_poll029 | Yes | 5571814 |
| AND_SINN_002_poll029 | Yes | 9351468 |
| AND_SINN_003_poll029 | Yes | 6190312 |
| AND_SINN_003_poll105 | Yes | 9187796 |
| AND_SINN_006_poll102 | Yes | 6354812 |
| AND_SINN_008_poll030 | Yes | 10397188 |
| AND_SINN_009_poll030 | Yes | 5791322 |
| AND_SINN_009_poll092 | Yes | 9826268 |
| AND_SINN_010_poll102 | Yes | 7765820 |
| AND_SINN_012_poll091 | Yes | 9894584 |
| AND_SINN_018_poll102 | Yes | 10764936 |
| AND_SINN_020_poll102 | Yes | 5609164 |
| AND_SMAN_010_poll055 | Yes | 7870114 |
| AND_SMAN_019_poll136 | Yes | 5564406 |
| AND_SMAN_028_poll055 | Yes | 5579174 |
| AND_SMAN_030_poll055 | Yes | 16398108 |
| AND_SMAN_038_poll055 | Yes | 7379322 |
| AND_SMAN_050_poll055 | Yes | 6949410 |
| AND_TURA_001_poll089 | Yes | 12140142 |
| AND_TURA_007_poll071 | Yes | 8175386 |
| AND_TURA_007_poll089 | Yes | 6802032 |
| AND_TURA_009_poll075 | Yes | 10593314 |
| AND_TURA_024_poll075 | Yes | 10876460 |
| AND_TURA_025_poll075 | Yes | 9644700 |
| AND_ALCA_002_poll002 | No | - |
| AND_CRAA_005_poll068 | No | - |
| AND_FZZN_002_poll086 | No | - |
| AND_SINN_001_poll031 | No | - |
| BOM_ALCA_001_poll001 | Yes | 2657828 |
| BOM_ALCA_001_poll002 | Yes | 15893364 |
| BOM_ALCA_002_poll001 | Yes | 4185898 |
| BOM_ARRA_001_poll026 | Yes | 5631496 |
| BOM_ARRA_002_poll026 | Yes | 13507610 |
| BOM_ARRA_008_poll076 | Yes | 15987808 |
| BOM_ASSA_004_poll032 | Yes | 5897526 |
| BOM_BORA_001_poll009 | Yes | 5655224 |
| BOM_BORA_003_poll009 | Yes | 5523646 |
| BOM_BORA_009_poll008 | Yes | 6156082 |
| BOM_CRAA_002_poll066 | Yes | 10947874 |
| BOM_CRAA_007_poll066 | Yes | 15214308 |
| BOM_CRAA_008_poll066 | Yes | 5546944 |

| | | |
|---|---|---|
| BOM_CRAA_011_poll066 | Yes | 6220950 |
| BOM_CRAA_022_poll066 | Yes | 8403084 |
| BOM_CRUN_004_poll013 | Yes | 5471368 |
| BOM_FVFN_001_poll015 | Yes | 12909442 |
| BOM_FVFN_004_poll016 | Yes | 5545350 |
| BOM_FVFN_005_poll015 | Yes | 5515244 |
| BOM_FVFN_006_poll015 | Yes | 6321280 |
| BOM_MALN_004_poll059 | Yes | 5496314 |
| BOM_MALN_007_poll058 | Yes | 5548972 |
| BOM_MALN_012_poll058 | Yes | 3156748 |
| BOM_MGRN_001_poll080 | Yes | 10458868 |
| BOM_MGRN_001_poll096 | Yes | 5499088 |
| BOM_MGRN_002_poll101 | Yes | 10397064 |
| BOM_MGRN_003_poll079 | Yes | 2710174 |
| BOM_MGRN_004_poll079 | Yes | 5350126 |
| BOM_MGRN_005_poll099 | Yes | 8807442 |
| BOM_MGRN_011_poll101 | Yes | 10597582 |
| BOM_MOL_003_poll500 | Yes | 7965800 |
| BOM_MOL_006_poll501 | Yes | 9358114 |
| BOM_MOL_009_poll502 | Yes | 8440060 |
| BOM_NAZN_001_poll022 | Yes | 5525438 |
| BOM_NAZN_002_poll022 | Yes | 5417836 |
| BOM_NAZN_003_poll021 | Yes | 10766846 |
| BOM_NAZN_003_poll022 | Yes | 6904940 |
| BOM_NAZN_003_poll024 | Yes | 10229450 |
| BOM_ODEN_004_poll020 | Yes | 5511944 |
| BOM_ODEN_009_poll018 | Yes | 5605082 |
| BOM_ODEN_010_poll017 | Yes | 5563550 |
| BOM_ODEN_011_poll017 | Yes | 5530200 |
| BOM_SAH_001_poll503 | Yes | 32880870 |
| BOM_SAH_002_poll504 | Yes | 7920414 |
| BOM_SAL_001_poll505 | Yes | 7862176 |
| BOM_SAL_007_poll506 | Yes | 5484324 |
| BOM_SAL_008_poll506 | Yes | 13300196 |
| BOM_SAL_009_poll506 | Yes | 5636178 |
| BOM_SDAN_004_poll004 | Yes | 12441346 |
| BOM_SDAN_005_poll004 | Yes | 6034804 |
| BOM_SDAN_006_poll004 | Yes | 28230846 |
| BOM_SINN_001_poll105 | Yes | 12794816 |
| BOM_SINN_015_poll030 | Yes | 5546734 |
| BOM_SMAN_002_poll052 | Yes | 5552254 |
| BOM_SMAN_004_poll052 | Yes | 5653286 |
| BOM_SMAN_006_poll052 | Yes | 5608964 |
| BOM_SMH_001_poll507 | Yes | 8911276 |
| BOM_SMH_002_poll507 | Yes | 8173632 |
| BOM_SMH_003_poll508 | Yes | 5509812 |
| BTL_005_2elu_poll509 | Yes | 5460510 |
| BTL_009_2elu_poll510 | Yes | 5476140 |
| BTL_012_2elu_poll510 | Yes | 7763650 |
| BTL_236_1elu_poll511 | Yes | 5574796 |
| BTL_237_1elu_poll511 | Yes | 9323454 |
| BTL_248_1elu_poll512 | Yes | 2083484 |
| BTL_249_1elu_poll513 | Yes | 11743028 |

| | | |
|---|---|---|
| BTL_254_1elu_poll513 | Yes | 12140910 |
| BOM_BORA_001_poll007 | No | - |
| BOM_BORA_002_poll007 | No | - |
| BOM_CRAA_005_poll066 | No | - |
| BOM_FZZN_003_poll083 | No | - |
| BOM_FZZN_017_poll085 | No | - |
| BOM_NAZN_005_poll022 | No | - |
| BOM_SINN_001_poll011 | No | - |
| BOM_SINN_001_poll012 | No | - |
| BOM_SINN_003_poll092 | No | - |
| BOM_SINN_012_poll092 | No | - |
| BOM_TURA_009_poll075 | No | - |
| BOM_TURA_015_poll071 | No | - |
| BTL_004_2elu_poll508 | No | - |
| BTL_006_2elu_poll509 | No | - |
| BTL_007_2elu_poll509 | No | - |
| BTL_010_2elu_poll510 | No | - |
| BTL_011_2elu_poll510 | No | - |
| BTL_247_1elu_poll512 | No | - |
| BTL_255_1elu_poll513 | No | - |
| LGL_ALCA_004_poll094 | Yes | 9625924 |
| LGL_ALCA_004_poll095 | Yes | 10349702 |
| LGL_ALCA_005_poll002 | Yes | 5608466 |
| LGL_ALCA_005_poll094 | Yes | 15630762 |
| LGL_ALCA_006_poll002 | Yes | 10689628 |
| LGL_ALCA_006_poll003 | Yes | 5530108 |
| LGL_ALCA_008_poll002 | Yes | 8089492 |
| LGL_ARRA_001_poll025 | Yes | 10360300 |
| LGL_ARRA_007_poll077 | Yes | 7681064 |
| LGL_ARRA_008_poll027 | Yes | 5635002 |
| LGL_ARRA_009_poll027 | Yes | 6620520 |
| LGL_ARRA_010_poll077 | Yes | 5499368 |
| LGL_BORA_001_poll008 | Yes | 5481256 |
| LGL_BORA_003_poll008 | Yes | 5579950 |
| LGL_BORA_005_poll008 | Yes | 5525860 |
| LGL_BORA_007_poll008 | Yes | 7659824 |
| LGL_BORA_008_poll008 | Yes | 5539988 |
| LGL_BORA_013_poll008 | Yes | 5473408 |
| LGL_CRAA_001_poll070 | Yes | 7710606 |
| LGL_CRAA_002_poll070 | Yes | 7971204 |
| LGL_CRAA_006_poll070 | Yes | 7874790 |
| LGL_CRAA_007_poll070 | Yes | 5489068 |
| LGL_CRAA_009_poll070 | Yes | 9000104 |
| LGL_FVFN_010_poll016 | Yes | 73787306 |
| LGL_FVFN_011_poll015 | Yes | 38466924 |
| LGL_FVFN_012_poll015 | Yes | 6420600 |
| LGL_FVFN_013_poll015 | Yes | 8634906 |
| LGL_FVFN_014_poll015 | Yes | 5514968 |
| LGL_FZZN_003_poll086 | Yes | 11845108 |
| LGL_FZZN_004_poll082 | Yes | 14174802 |
| LGL_FZZN_004_poll084 | Yes | 9376996 |
| LGL_FZZN_005_poll086 | Yes | 12410736 |
| LGL_FZZN_006_poll083 | Yes | 10281980 |

| | | |
|---|---|---|
| LGL_FZZN_012_poll082 | Yes | 2139118 |
| LGL_MGRN_012_poll099 | Yes | 6924724 |
| LGL_MGRN_015_poll099 | Yes | 5568464 |
| LGL_MGRN_025_poll099 | Yes | 5557806 |
| LGL_NAZN_001_poll023 | Yes | 11718716 |
| LGL_NAZN_002_poll023 | Yes | 8579672 |
| LGL_NAZN_003_poll023 | Yes | 14364262 |
| LGL_ODEN_007_poll020 | Yes | 13204580 |
| LGL_ODEN_008_poll017 | Yes | 8979064 |
| LGL_ODEN_008_poll019 | Yes | 5480106 |
| LGL_ODEN_008_poll020 | Yes | 5504676 |
| LGL_ODEN_009_poll017 | Yes | 7185316 |
| LGL_ODEN_009_poll020 | Yes | 8927634 |
| LGL_ODEN_010_poll020 | Yes | 12679514 |
| LGL_SINN_001_poll032 | Yes | 15126882 |
| LGL_SINN_002_poll031 | Yes | 5491476 |
| LGL_SINN_002_poll104 | Yes | 7509484 |
| LGL_SINN_003_poll011 | Yes | 14928458 |
| LGL_SINN_004_poll029 | Yes | 14364672 |
| LGL_SINN_005_poll029 | Yes | 12680044 |
| LGL_SINN_006_poll030 | Yes | 15266492 |
| LGL_SINN_007_poll029 | Yes | 14649066 |
| LGL_SINN_007_poll104 | Yes | 5556892 |
| LGL_SINN_008_poll104 | Yes | 12658178 |
| LGL_SINN_017_poll091 | Yes | 13205216 |
| LGL_SINN_018_poll091 | Yes | 5536748 |
| LGL_TURA_002_poll073 | Yes | 9345524 |
| LGL_TURA_004_poll010 | Yes | 9660250 |
| LGL_TURA_006_poll072 | Yes | 10321880 |
| LGL_TURA_007_poll072 | Yes | 10156866 |
| LGL_TURA_007_poll074 | Yes | 11302066 |
| LGL_TURA_014_poll075 | Yes | 5664502 |
| LGL_ARRA_008_poll029 | No | - |
| LGL_CRAA_002_poll071 | No | - |
| LGL_FVFN_009_poll016 | No | - |
| LGL_FVFN_012_poll016 | No | - |
| LGL_MGRN_004_poll097 | No | - |
| LGL_MGRN_004_poll098 | No | - |
| LGL_MGRN_019_poll099 | No | - |
| LGL_NAZN_003_poll025 | No | - |
| LGL_NAZN_004_poll023 | No | - |
| LGL_NAZN_005_poll065 | No | - |
| LGL_SINN_002_poll105 | No | - |
| LGL_SINN_016_poll102 | No | - |
| LGL_SMAN_015_poll136 | No | - |

Table S6

**STACKS (process_radtags and ref_map.pl), BWA/SAMtools, relatedness filtering, an**

| | fastP | |
|---|---|---|
| **Raw_data_duplicates_percent** | **etained_PE_reads_fastP** | **etained_PE_reads_fastP_percer** |
| 13,44% | 9989968 | 92,40% |
| 11,45% | 6356772 | 80,17% |
| 31,41% | 13113640 | 89,64% |
| 13,07% | 13117276 | 80,10% |
| 17,63% | 25484854 | 80,44% |
| 13,37% | 7633926 | 89,07% |
| 15,05% | 4734130 | 84,61% |
| 12,64% | 7710846 | 92,69% |
| 36,29% | 8344284 | 88,69% |
| 40,30% | 7353912 | 86,24% |
| 19,62% | 2531658 | 92,81% |
| 37,97% | 4270278 | 77,13% |
| 38,51% | 4356398 | 79,57% |
| 10,83% | 5012702 | 80,04% |
| 18,48% | 4676834 | 83,77% |
| 17,46% | 10649390 | 81,38% |
| 39,16% | 8501166 | 85,43% |
| 49,83% | 9705104 | 82,03% |
| 15,99% | 6798924 | 81,64% |
| 8,29% | 4796296 | 87,41% |
| 16,10% | 7789178 | 80,32% |
| 15,70% | 8683992 | 81,56% |
| 51,02% | 6806248 | 86,78% |
| 17,47% | 5308566 | 81,73% |
| 39,15% | 4536546 | 82,08% |
| 18,23% | 6991066 | 81,57% |
| 12,79% | 8124262 | 81,34% |
| 38,02% | 6977496 | 89,85% |
| 34,34% | 5944978 | 88,25% |
| 12,13% | 6667498 | 81,80% |
| 11,13% | 5597962 | 80,36% |
| 11,60% | 7039572 | 80,75% |
| 12,93% | 6542182 | 83,10% |
| 18,65% | 4922596 | 87,11% |
| 11,62% | 6277176 | 81,45% |
| 18,36% | 23690022 | 82,61% |
| 10,77% | 6063714 | 79,48% |
| 15,59% | 5651380 | 82,20% |
| 13,76% | 6681484 | 80,06% |
| 19,69% | 5923308 | 87,79% |
| 15,33% | 7418756 | 82,52% |
| 14,32% | 8928420 | 89,77% |
| 13,05% | 7835178 | 78,24% |
| 11,45% | 9474102 | 85,73% |
| 12,06% | 7215152 | 90,25% |
| 14,37% | 9774640 | 81,65% |
| 12,34% | 8333558 | 80,92% |
| 49,88% | 9021694 | 82,87% |

| | | |
|---|---|---|
| 16,17% | 5437966 | 81,21% |
| 13,93% | 8536558 | 82,64% |
| 37,14% | 5399612 | 89,39% |
| 16,28% | 10667634 | 91,86% |
| 12,65% | 7265154 | 92,57% |
| 12,08% | 6611010 | 85,71% |
| 8,26% | 4743136 | 86,35% |
| 15,82% | 4993248 | 87,05% |
| 14,98% | 9259738 | 81,17% |
| 22,98% | 4723810 | 83,95% |
| 10,82% | 5170224 | 82,10% |
| 12,70% | 5600108 | 86,22% |
| 10,98% | 4483928 | 80,48% |
| 9,81% | 7487424 | 80,07% |
| 15,08% | 5121452 | 82,73% |
| 12,73% | 7686014 | 83,65% |
| 13,89% | 5131920 | 80,76% |
| 13,40% | 8726684 | 83,93% |
| 12,25% | 4586144 | 79,19% |
| 13,31% | 9115224 | 92,76% |
| 11,03% | 6488122 | 83,55% |
| 11,03% | 8379830 | 84,69% |
| 15,98% | 8819652 | 81,93% |
| 11,00% | 4711284 | 83,99% |
| 15,28% | 6282444 | 79,83% |
| 25,17% | 4789144 | 86,07% |
| 12,58% | 4677234 | 83,83% |
| 36,60% | 13928258 | 84,94% |
| 17,23% | 5946266 | 80,58% |
| 18,87% | 5726508 | 82,40% |
| 48,87% | 10970494 | 90,37% |
| 15,07% | 7102858 | 86,88% |
| 17,88% | 5952932 | 87,52% |
| 36,78% | 8691182 | 82,04% |
| 39,87% | 9716350 | 89,33% |
| 16,53% | 8618048 | 89,36% |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| 18,86% | 2466552 | 92,80% |
| 28,06% | 13511760 | 85,02% |
| 56,97% | 3248966 | 77,62% |
| 35,86% | 3765336 | 66,86% |
| 37,79% | 12195934 | 90,29% |
| 17,74% | 14862030 | 92,96% |
| 16,73% | 4676250 | 79,29% |
| 28,68% | 4632986 | 81,92% |
| 35,66% | 4663536 | 84,43% |
| 20,93% | 5769022 | 93,71% |
| 20,10% | 10032388 | 91,64% |
| 17,33% | 14174060 | 93,16% |
| 38,55% | 4907014 | 88,46% |

Table S6

| | | |
|---|---|---|
| 38,83% | 5601446 | 90,04% |
| 20,76% | 7860444 | 93,54% |
| 18,23% | 4381218 | 80,08% |
| 32,96% | 11074884 | 85,79% |
| 12,26% | 4548264 | 82,02% |
| 32,64% | 4401974 | 79,81% |
| 19,95% | 5922706 | 93,69% |
| 14,37% | 4823464 | 87,76% |
| 37,59% | 4939640 | 89,02% |
| 34,01% | 2589646 | 82,04% |
| 19,29% | 8452778 | 80,82% |
| 16,25% | 4508050 | 81,98% |
| 18,77% | 9465678 | 91,04% |
| 11,60% | 1638852 | 60,47% |
| 52,69% | 4295692 | 80,29% |
| 60,93% | 6966378 | 79,10% |
| 52,14% | 9300344 | 87,76% |
| 16,25% | 6430182 | 80,72% |
| 18,91% | 7473228 | 79,86% |
| 13,75% | 6826208 | 80,88% |
| 15,63% | 4736326 | 85,72% |
| 18,54% | 4220836 | 77,91% |
| 39,25% | 9185298 | 85,31% |
| 56,81% | 5434950 | 78,71% |
| 52,32% | 9025302 | 88,23% |
| 15,06% | 4391676 | 79,68% |
| 13,72% | 5051514 | 90,12% |
| 35,47% | 4409032 | 79,25% |
| 12,95% | 4625580 | 83,64% |
| 24,47% | 25121220 | 76,40% |
| 13,76% | 6367312 | 80,39% |
| 18,13% | 7268458 | 92,45% |
| 31,86% | 4795002 | 87,43% |
| 17,34% | 10990362 | 82,63% |
| 18,89% | 4832588 | 85,74% |
| 18,14% | 10268844 | 82,54% |
| 14,39% | 4837542 | 80,16% |
| 19,16% | 21662968 | 76,74% |
| 20,03% | 11733142 | 91,70% |
| 28,36% | 4596486 | 82,87% |
| 44,64% | 4582294 | 82,53% |
| 45,72% | 5027840 | 88,94% |
| 54,51% | 4862492 | 86,69% |
| 21,88% | 7404750 | 83,09% |
| 18,48% | 7381722 | 90,31% |
| 27,55% | 4455746 | 80,87% |
| 21,46% | 5124166 | 93,84% |
| 44,54% | 4428960 | 80,88% |
| 18,03% | 6473632 | 83,38% |
| 10,65% | 4499986 | 80,72% |
| 18,65% | 8132410 | 87,23% |
| 11,16% | 1103132 | 52,95% |
| 20,33% | 10624742 | 90,48% |

Table S6

| | | |
|---|---|---|
| 17,08% | 10179116 | 83,84% |
| - | - | - |
| - | - | - |
| - | - | - |
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| - | - | - |
| - | - | - |
| 44,87% | 7866304 | 81,72% |
| 17,49% | 9404766 | 90,87% |
| 17,03% | 4745336 | 84,61% |
| 16,99% | 12703164 | 81,27% |
| 31,26% | 9450946 | 88,41% |
| 19,66% | 4966736 | 89,81% |
| 13,31% | 6668922 | 82,44% |
| 41,84% | 8723182 | 84,20% |
| 12,13% | 6022240 | 78,40% |
| 11,39% | 3608346 | 64,03% |
| 17,84% | 5291206 | 79,92% |
| 37,80% | 4734510 | 86,09% |
| 37,92% | 4765916 | 86,95% |
| 27,55% | 4203978 | 75,34% |
| 33,36% | 4369974 | 79,08% |
| 51,96% | 6502582 | 84,89% |
| 17,00% | 4589754 | 82,85% |
| 10,85% | 4514726 | 82,48% |
| 18,50% | 6470492 | 83,92% |
| 18,35% | 6490986 | 81,43% |
| 16,85% | 6276798 | 79,71% |
| 39,69% | 4686184 | 85,37% |
| 15,47% | 7172590 | 79,69% |
| 30,93% | 60270534 | 81,68% |
| 30,61% | 32543990 | 84,60% |
| 16,13% | 5196276 | 80,93% |
| 16,14% | 7418302 | 85,91% |
| 29,08% | 4395260 | 79,70% |
| 17,02% | 10206486 | 86,17% |
| 13,29% | 12313240 | 86,87% |
| 36,46% | 8031150 | 85,65% |
| 13,82% | 10650050 | 85,81% |
| 36,10% | 8670270 | 84,32% |

Table S6

| | | |
|---|---|---|
| 11,90% | 1476164 | 69,01% |
| 13,85% | 5783098 | 83,51% |
| 11,73% | 4437384 | 79,69% |
| 18,31% | 4314608 | 77,63% |
| 15,93% | 9543402 | 81,44% |
| 41,30% | 7243004 | 84,42% |
| 30,52% | 12686764 | 88,32% |
| 49,32% | 11951218 | 90,51% |
| 16,07% | 7464984 | 83,14% |
| 49,41% | 4912784 | 89,65% |
| 12,76% | 4673938 | 84,91% |
| 14,07% | 6131110 | 85,33% |
| 12,29% | 7469926 | 83,67% |
| 14,72% | 10316750 | 81,37% |
| 15,94% | 12639604 | 83,56% |
| 9,88% | 4493868 | 81,83% |
| 19,22% | 7154346 | 95,27% |
| 14,72% | 13920312 | 93,25% |
| 14,27% | 13387342 | 93,20% |
| 17,32% | 10537214 | 83,10% |
| 14,99% | 12490186 | 81,81% |
| 16,45% | 12044606 | 82,22% |
| 31,03% | 4776738 | 85,96% |
| 34,61% | 11161674 | 88,18% |
| 14,51% | 10521558 | 79,68% |
| 40,28% | 4614440 | 83,34% |
| 11,89% | 7975162 | 85,34% |
| 37,47% | 8318654 | 86,11% |
| 14,74% | 9107218 | 88,23% |
| 36,62% | 8859724 | 87,23% |
| 14,33% | 9030176 | 79,90% |
| 26,54% | 4732954 | 83,55% |
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**d missing data assessment for all samples included in the RADs**

| ost_fastP_duplicates_percer | Total_PE_Reads | Reads_Low_Quality |
|---|---|---|
| 0,59% | 8593294 | 1819 |
| 0,52% | 5538754 | 459 |
| 0,63% | 8994286 | 7580 |
| 0,69% | 11166966 | 1130 |
| 0,59% | 20460058 | 16518 |
| 0,56% | 6571848 | 2865 |
| 0,45% | 3988832 | 538 |
| 0,59% | 6706504 | 1409 |
| 0,92% | 5371208 | 3540 |
| 0,80% | 4407386 | 2945 |
| 0,87% | 2015278 | 2127 |
| 0,61% | 2573790 | 1855 |
| 0,51% | 2636434 | 263 |
| 0,56% | 4393578 | 413 |
| 9,38% | 3698040 | 2630 |
| 0,74% | 8547914 | 6280 |
| 0,92% | 5170976 | 4976 |
| 0,67% | 4860580 | 4097 |
| 0,72% | 5584272 | 6597 |
| 0,36% | 4379428 | 641 |
| 0,61% | 6348062 | 4702 |
| 0,57% | 7179454 | 8780 |
| 2,71% | 3266080 | 5567 |
| 0,75% | 4245770 | 3301 |
| 0,64% | 2708258 | 3142 |
| 0,72% | 5541304 | 7031 |
| 0,49% | 6967260 | 595 |
| 1,74% | 4280312 | 4420 |
| 1,91% | 3706774 | 3894 |
| 0,47% | 5759330 | 1022 |
| 0,48% | 4907194 | 374 |
| 0,41% | 6140646 | 837 |
| 0,57% | 5612212 | 912 |
| 0,34% | 3985996 | 570 |
| 0,48% | 5481426 | 846 |
| 0,87% | 18821694 | 15328 |
| 0,49% | 5324810 | 373 |
| 0,70% | 4674620 | 5419 |
| 0,48% | 5655476 | 4353 |
| 0,99% | 4650652 | 922 |
| 0,71% | 6127354 | 1063 |
| 0,75% | 7662406 | 8556 |
| 0,51% | 6718188 | 1792 |
| 0,49% | 8314796 | 1169 |
| 0,89% | 6389856 | 6014 |
| 0,54% | 8221636 | 6295 |
| 0,46% | 7206142 | 1029 |
| 0,76% | 4515058 | 1896 |

| | | |
|---|---|---|
| 0,62% | 4448296 | 3200 |
| 0,57% | 7222402 | 5527 |
| 2,05% | 3241126 | 3536 |
| 0,56% | 8882824 | 6792 |
| 0,55% | 6317998 | 1373 |
| 0,54% | 5733008 | 892 |
| 0,33% | 4321914 | 630 |
| 0,70% | 4140676 | 697 |
| 0,50% | 7720054 | 5866 |
| 0,63% | 3575246 | 695 |
| 0,44% | 4553132 | 477 |
| 0,53% | 4835042 | 830 |
| 0,37% | 3916856 | 484 |
| 0,44% | 6658474 | 963 |
| 0,67% | 4249402 | 923 |
| 0,56% | 6616826 | 976 |
| 0,57% | 4327452 | 680 |
| 0,60% | 7456208 | 1174 |
| 0,60% | 3945530 | 430 |
| 0,62% | 7858058 | 1715 |
| 0,47% | 5709932 | 767 |
| 0,52% | 7368386 | 941 |
| 0,59% | 7274362 | 8934 |
| 0,31% | 4142146 | 766 |
| 0,52% | 5214408 | 6488 |
| 0,67% | 3508296 | 4167 |
| 2,50% | 4018504 | 4595 |
| 1,00% | 8981172 | 10646 |
| 0,73% | 4771432 | 5599 |
| 0,78% | 4515558 | 5680 |
| 2,83% | 5519024 | 8508 |
| 0,60% | 5955428 | 7470 |
| 0,76% | 4787182 | 6030 |
| 0,84% | 5587362 | 4328 |
| 1,52% | 5870254 | 5157 |
| 0,63% | 7118044 | 3055 |
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| - | - | - |
| 0,78% | 1982948 | 2076 |
| 1,21% | 9847328 | 10526 |
| 0,99% | 1329396 | 461 |
| 0,61% | 2339754 | 682 |
| 2,35% | 7248798 | 8003 |
| 0,80% | 12105186 | 2836 |
| 0,85% | 3773554 | 597 |
| 0,77% | 3207388 | 2551 |
| 0,53% | 2966518 | 429 |
| 1,00% | 4516646 | 4747 |
| 0,69% | 7921068 | 6184 |
| 0,79% | 11602852 | 2637 |
| 0,62% | 2969742 | 2255 |

Table S6

| | | |
|---|---|---|
| 2,17% | 3269720 | 3656 |
| 0,94% | 6173908 | 6261 |
| 0,62% | 3493528 | 2611 |
| 0,80% | 7503742 | 8668 |
| 1,60% | 3933200 | 388 |
| 0,65% | 2919486 | 279 |
| 0,85% | 4703282 | 4985 |
| 2,01% | 4068554 | 3049 |
| 2,36% | 2921924 | 3172 |
| 2,05% | 1558978 | 1751 |
| 0,88% | 6582698 | 4817 |
| 3,27% | 3666438 | 722 |
| 0,73% | 7590386 | 6009 |
| 0,53% | 1399480 | 323 |
| 0,87% | 1966438 | 566 |
| 0,83% | 2687668 | 3209 |
| 2,88% | 4355236 | 6580 |
| 0,57% | 5285726 | 4187 |
| 0,81% | 5851828 | 4517 |
| 0,50% | 5781412 | 635 |
| 0,52% | 3946900 | 641 |
| 0,88% | 3289836 | 4166 |
| 1,27% | 5649962 | 5697 |
| 0,94% | 2266774 | 2788 |
| 2,67% | 4224020 | 5991 |
| 0,53% | 3655010 | 660 |
| 3,60% | 4317954 | 3111 |
| 0,77% | 2760556 | 2075 |
| 0,56% | 3957578 | 578 |
| 1,30% | 18151282 | 6156 |
| 0,70% | 5370578 | 635 |
| 0,69% | 5896518 | 4399 |
| 0,40% | 3245406 | 502 |
| 0,75% | 8847074 | 1162 |
| 7,24% | 3815014 | 790 |
| 0,73% | 8196248 | 6389 |
| 0,72% | 4040672 | 501 |
| 0,89% | 16774300 | 6370 |
| 0,77% | 9269870 | 7310 |
| 0,91% | 3188488 | 2559 |
| 0,59% | 2497362 | 640 |
| 2,21% | 2580450 | 3081 |
| 2,28% | 2058648 | 2304 |
| 1,00% | 5593272 | 7398 |
| 0,73% | 5944680 | 2671 |
| 0,65% | 3169970 | 342 |
| 1,07% | 3988656 | 4405 |
| 0,68% | 2398416 | 2923 |
| 0,76% | 5195250 | 6590 |
| 2,83% | 3949266 | 759 |
| 0,78% | 6487710 | 8261 |
| 0,62% | 935756 | 238 |
| 0,79% | 8343696 | 6551 |

| | | |
|---|---|---|
| 1,79% | 8265330 | 1544 |
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| 0,94% | 4325648 | 3226 |
| 0,58% | 7662352 | 5696 |
| 0,49% | 3886414 | 536 |
| 0,65% | 10268430 | 12621 |
| 1,26% | 6566874 | 4283 |
| 11,48% | 3973748 | 1413 |
| 0,49% | 5678502 | 4235 |
| 0,99% | 5108766 | 5901 |
| 0,51% | 5167616 | 498 |
| 1,95% | 3113306 | 868 |
| 0,81% | 4184416 | 5197 |
| 0,37% | 2919726 | 404 |
| 0,63% | 2914670 | 401 |
| 0,64% | 2948852 | 768 |
| 0,72% | 2822354 | 447 |
| 2,34% | 3052082 | 3765 |
| 0,51% | 3750276 | 636 |
| 0,50% | 3966236 | 606 |
| 0,80% | 5124314 | 769 |
| 0,71% | 5144118 | 6596 |
| 0,79% | 5053344 | 5867 |
| 0,56% | 2794778 | 465 |
| 0,57% | 5892756 | 4583 |
| 1,72% | 38987534 | 58246 |
| 1,65% | 21474350 | 31315 |
| 0,71% | 4232050 | 3142 |
| 0,70% | 6089428 | 7239 |
| 0,53% | 3049654 | 2375 |
| 0,70% | 8290602 | 10147 |
| 0,62% | 10534644 | 1485 |
| 1,00% | 5187892 | 3135 |
| 0,67% | 9025582 | 1341 |
| 1,26% | 5646386 | 3627 |

Table S6

| | | |
|---|---|---|
| 0,58% | 1261842 | 343 |
| 0,58% | 4888342 | 874 |
| 0,54% | 3829444 | 599 |
| 0,42% | 3444766 | 2643 |
| 0,58% | 7837626 | 6186 |
| 0,92% | 4258894 | 4135 |
| 1,03% | 8827678 | 8600 |
| 3,11% | 5959104 | 10926 |
| 0,61% | 6125990 | 4751 |
| 0,65% | 2441416 | 1920 |
| 2,65% | 4012774 | 711 |
| 0,70% | 5161044 | 665 |
| 0,48% | 6477864 | 1021 |
| 0,52% | 8600956 | 6769 |
| 0,61% | 10407840 | 8014 |
| 2,86% | 3989432 | 705 |
| 0,73% | 5742184 | 847 |
| 0,67% | 11775422 | 2585 |
| 0,66% | 11385338 | 2498 |
| 0,74% | 8479914 | 6229 |
| 0,65% | 10352434 | 1280 |
| 0,64% | 9824002 | 7632 |
| 0,43% | 3266798 | 481 |
| 1,09% | 7327584 | 6040 |
| 0,78% | 8735114 | 1129 |
| 0,56% | 2710962 | 605 |
| 0,57% | 6925902 | 1021 |
| 0,97% | 5203708 | 4146 |
| 0,52% | 7663314 | 1133 |
| 0,66% | 5608512 | 4374 |
| 0,59% | 7542250 | 1157 |
| 0,45% | 3442450 | 456 |
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**eq datasets.**

| STACKS: process_radtags | | |
|---|---|---|
| Reads_Barcode_Not_Found | RAD_cutsite_Not_Found | Retained_PE_Reads |
| 0 | 1232 | 8590243 |
| 0 | 35455 | 5502840 |
| 0 | 98210 | 8888496 |
| 0 | 161752 | 11004084 |
| 0 | 62165 | 20381375 |
| 0 | 4305 | 6564678 |
| 0 | 23818 | 3964476 |
| 0 | 1400 | 6703695 |
| 0 | 193713 | 5173955 |
| 0 | 29031 | 4375410 |
| 0 | 2777 | 2010374 |
| 0 | 55839 | 2516096 |
| 0 | 25911 | 2610260 |
| 0 | 45531 | 4347634 |
| 0 | 266990 | 3428420 |
| 0 | 4907 | 8536727 |
| 0 | 98661 | 5067339 |
| 0 | 32787 | 4823696 |
| 0 | 44844 | 5532831 |
| 0 | 78483 | 4300304 |
| 0 | 106891 | 6236469 |
| 0 | 39063 | 7131611 |
| 0 | 19625 | 3240888 |
| 0 | 196739 | 4045730 |
| 0 | 69299 | 2635817 |
| 0 | 51820 | 5482453 |
| 0 | 28500 | 6938165 |
| 0 | 21476 | 4254416 |
| 0 | 29742 | 3673138 |
| 0 | 127752 | 5630556 |
| 0 | 20534 | 4886286 |
| 0 | 26845 | 6112964 |
| 0 | 47221 | 5564079 |
| 0 | 41218 | 3944208 |
| 0 | 38672 | 5441908 |
| 0 | 8473 | 18797893 |
| 0 | 25219 | 5299218 |
| 0 | 50666 | 4618535 |
| 0 | 39636 | 5611487 |
| 0 | 218722 | 4431008 |
| 0 | 160630 | 5965661 |
| 0 | 56290 | 7597560 |
| 0 | 2632 | 6713764 |
| 0 | 18943 | 8294684 |
| 0 | 28213 | 6355629 |
| 0 | 51742 | 8163599 |
| 0 | 50138 | 7154975 |
| 0 | 57596 | 4455566 |

Table S6

| | | |
|---|---|---|
| 0 | 111811 | 4333285 |
| 0 | 56434 | 7160441 |
| 0 | 3703 | 3233887 |
| 0 | 872 | 8875160 |
| 0 | 1600 | 6315025 |
| 0 | 112085 | 5620031 |
| 0 | 91759 | 4229525 |
| 0 | 54450 | 4085529 |
| 0 | 28319 | 7685869 |
| 0 | 76861 | 3497690 |
| 0 | 59614 | 4493041 |
| 0 | 130992 | 4703220 |
| 0 | 134463 | 3781909 |
| 0 | 44080 | 6613431 |
| 0 | 120231 | 4128248 |
| 0 | 126858 | 6488992 |
| 0 | 87389 | 4239383 |
| 0 | 49727 | 7405307 |
| 0 | 52713 | 3892387 |
| 0 | 1205 | 7855138 |
| 0 | 40166 | 5668999 |
| 0 | 68517 | 7298928 |
| 0 | 34237 | 7231191 |
| 0 | 60259 | 4081121 |
| 0 | 27444 | 5180476 |
| 0 | 62173 | 3441956 |
| 0 | 62263 | 3951646 |
| 0 | 22095 | 8948431 |
| 0 | 77683 | 4688150 |
| 0 | 79631 | 4430247 |
| 0 | 22198 | 5488318 |
| 0 | 13819 | 5934139 |
| 0 | 74865 | 4706287 |
| 0 | 38305 | 5544729 |
| 0 | 18934 | 5846163 |
| 0 | 2662 | 7112327 |
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| 0 | 1660 | 1979212 |
| 0 | 65081 | 9771721 |
| 0 | 51688 | 1277247 |
| 0 | 5357 | 2333715 |
| 0 | 8257 | 7232538 |
| 0 | 979 | 12101371 |
| 0 | 110001 | 3662956 |
| 0 | 182992 | 3021845 |
| 0 | 27213 | 2938876 |
| 0 | 2663 | 4509236 |
| 0 | 2925 | 7911959 |
| 0 | 1289 | 11598926 |
| 0 | 1856 | 2965631 |

Table S6

| | | |
|---|---|---|
| 0 | 3232 | 3262832 |
| 0 | 3724 | 6163923 |
| 0 | 59021 | 3431896 |
| 0 | 82250 | 7412824 |
| 0 | 62713 | 3870099 |
| 0 | 50580 | 2868627 |
| 0 | 2077 | 4696220 |
| 0 | 2548 | 4062957 |
| 0 | 5660 | 2913092 |
| 0 | 6276 | 1550951 |
| 0 | 234931 | 6342950 |
| 0 | 176905 | 3488811 |
| 0 | 2234 | 7582143 |
| 0 | 1600 | 1397557 |
| 0 | 67597 | 1898275 |
| 0 | 36022 | 2648437 |
| 0 | 89325 | 4259331 |
| 0 | 42248 | 5239291 |
| 0 | 169758 | 5677553 |
| 0 | 51348 | 5729429 |
| 0 | 110464 | 3835795 |
| 0 | 46009 | 3239661 |
| 0 | 60636 | 5583629 |
| 0 | 50701 | 2213285 |
| 0 | 70947 | 4147082 |
| 0 | 114870 | 3539480 |
| 0 | 5467 | 4309376 |
| 0 | 49523 | 2708958 |
| 0 | 55346 | 3901654 |
| 0 | 45229 | 18099897 |
| 0 | 53110 | 5316833 |
| 0 | 3535 | 5888584 |
| 0 | 26976 | 3217928 |
| 0 | 170235 | 8675677 |
| 0 | 165197 | 3649027 |
| 0 | 47178 | 8142681 |
| 0 | 112579 | 3927592 |
| 0 | 42983 | 16724947 |
| 0 | 2557 | 9260003 |
| 0 | 173157 | 3012772 |
| 0 | 196024 | 2300698 |
| 0 | 3514 | 2573855 |
| 0 | 6263 | 2050081 |
| 0 | 100756 | 5485118 |
| 0 | 4975 | 5937034 |
| 0 | 72261 | 3097367 |
| 0 | 5123 | 3979128 |
| 0 | 34463 | 2361030 |
| 0 | 35178 | 5153482 |
| 0 | 271680 | 3676827 |
| 0 | 74143 | 6405306 |
| 0 | 3853 | 931665 |
| 0 | 4300 | 8332845 |

Table S6

| | | |
|---|---|---|
| 0 | 159713 | 8104073 |
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| 0 | 145336 | 4177086 |
| 0 | 7037 | 7649619 |
| 0 | 52832 | 3833046 |
| 0 | 50263 | 10205546 |
| 0 | 19317 | 6543274 |
| 0 | 4045 | 3968290 |
| 0 | 26967 | 5647300 |
| 0 | 45001 | 5057864 |
| 0 | 39175 | 5127943 |
| 0 | 10155 | 3102283 |
| 0 | 74077 | 4105142 |
| 0 | 42920 | 2876402 |
| 0 | 27660 | 2886609 |
| 0 | 2872 | 2945212 |
| 0 | 110829 | 2711078 |
| 0 | 42034 | 3006283 |
| 0 | 93190 | 3656450 |
| 0 | 62138 | 3903492 |
| 0 | 194052 | 4929493 |
| 0 | 17255 | 5120267 |
| 0 | 92988 | 4954489 |
| 0 | 93071 | 2701242 |
| 0 | 130936 | 5757237 |
| 0 | 9832 | 38919456 |
| 0 | 3488 | 21439547 |
| 0 | 109983 | 4118925 |
| 0 | 80908 | 6001281 |
| 0 | 35945 | 3011334 |
| 0 | 63877 | 8216578 |
| 0 | 41430 | 10491729 |
| 0 | 49702 | 5135055 |
| 0 | 170774 | 8853467 |
| 0 | 31534 | 5611225 |

Table S6

| | | |
|---|---|---|
| 0 | 4934 | 1256565 |
| 0 | 61936 | 4825532 |
| 0 | 141504 | 3687341 |
| 0 | 36807 | 3405316 |
| 0 | 44050 | 7787390 |
| 0 | 38631 | 4216128 |
| 0 | 123452 | 8695626 |
| 0 | 34207 | 5913971 |
| 0 | 122209 | 5999030 |
| 0 | 2652 | 2436844 |
| 0 | 55672 | 3956391 |
| 0 | 275226 | 4885153 |
| 0 | 43007 | 6433836 |
| 0 | 48753 | 8545434 |
| 0 | 108368 | 10291458 |
| 0 | 156187 | 3832540 |
| 0 | 858 | 5740479 |
| 0 | 2333 | 11770504 |
| 0 | 1696 | 11381144 |
| 0 | 282047 | 8191638 |
| 0 | 152394 | 10198760 |
| 0 | 129180 | 9687190 |
| 0 | 35591 | 3230726 |
| 0 | 62815 | 7258729 |
| 0 | 208125 | 8525860 |
| 0 | 143737 | 2566620 |
| 0 | 49150 | 6875731 |
| 0 | 138426 | 5061136 |
| 0 | 114613 | 7547568 |
| 0 | 96330 | 5507808 |
| 0 | 55022 | 7486071 |
| 0 | 36610 | 3405384 |
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Table S6

| | BWA_SamTools | |
|---|---|---|
| etained_Reads_percen | WA_Samtools_Total_PE_read | WA_Samtools_reads_mappe |
| 99,96% | 8587224 | 8364544 |
| 99,35% | 5467124 | 5391641 |
| 98,82% | 8783244 | 8620972 |
| 98,54% | 10841866 | 10709309 |
| 99,62% | 20306232 | 20156778 |
| 99,89% | 6557896 | 6322022 |
| 99,39% | 3940366 | 3866284 |
| 99,96% | 6700920 | 6460270 |
| 96,33% | 4977256 | 4862591 |
| 99,27% | 4343664 | 4278408 |
| 99,76% | 2005932 | 1852994 |
| 97,76% | 2458772 | 2395692 |
| 99,01% | 2584212 | 2541553 |
| 98,95% | 4301896 | 4224580 |
| 92,71% | 3159906 | 2936195 |
| 99,87% | 8525992 | 8385692 |
| 98,00% | 4964414 | 4835582 |
| 99,24% | 4787474 | 4686840 |
| 99,08% | 5483550 | 5351924 |
| 98,19% | 4221572 | 4113259 |
| 98,24% | 6125846 | 5999747 |
| 99,33% | 7086682 | 6979430 |
| 99,23% | 3216324 | 3131584 |
| 95,29% | 3846900 | 3679906 |
| 97,33% | 2564372 | 2502788 |
| 98,94% | 5425968 | 5319947 |
| 99,58% | 6909342 | 6852041 |
| 99,39% | 4228780 | 4071321 |
| 99,09% | 3640264 | 2582253 |
| 97,76% | 5502474 | 5403856 |
| 99,57% | 4865546 | 4814576 |
| 99,55% | 6085588 | 6026378 |
| 99,14% | 5516382 | 5406671 |
| 98,95% | 3902684 | 3828496 |
| 99,28% | 5402784 | 5328363 |
| 99,87% | 18775092 | 18330205 |
| 99,52% | 5273816 | 5188065 |
| 98,80% | 4564266 | 4378287 |
| 99,22% | 5568496 | 5454107 |
| 95,28% | 4212116 | 4012891 |
| 97,36% | 5804684 | 5450220 |
| 99,15% | 7533118 | 7389816 |
| 99,93% | 6709500 | 6410394 |
| 99,76% | 8274988 | 8177381 |
| 99,46% | 6321632 | 6227368 |
| 99,29% | 8107022 | 8001634 |
| 99,29% | 7104280 | 7033811 |
| 98,68% | 4396380 | 4252347 |

Table S6

| | | |
|---|---|---|
| 97,41% | 4218972 | 4129217 |
| 99,14% | 7099706 | 6979051 |
| 99,78% | 3227346 | 3104760 |
| 99,91% | 8869038 | 8793574 |
| 99,95% | 6312078 | 6177987 |
| 98,03% | 5507560 | 5416084 |
| 97,86% | 4137464 | 4026320 |
| 98,67% | 4030776 | 3973393 |
| 99,56% | 7652942 | 7572778 |
| 97,83% | 3420626 | 3374399 |
| 98,68% | 4433136 | 4331512 |
| 97,27% | 4571932 | 4492186 |
| 96,55% | 3647342 | 3526456 |
| 99,32% | 6568774 | 5546302 |
| 97,15% | 4007784 | 3927320 |
| 98,07% | 6361696 | 6269288 |
| 97,96% | 4151726 | 3989715 |
| 99,32% | 7354908 | 7251684 |
| 98,65% | 3839502 | 3752208 |
| 99,96% | 7852252 | 7569957 |
| 99,28% | 5628334 | 5564267 |
| 99,06% | 7229816 | 7041647 |
| 99,41% | 7191094 | 7098648 |
| 98,53% | 4020528 | 3928796 |
| 99,35% | 5148708 | 5080666 |
| 98,11% | 3377150 | 3216754 |
| 98,34% | 3886422 | 3752620 |
| 99,64% | 8917162 | 8721475 |
| 98,25% | 4606750 | 4421051 |
| 98,11% | 4346904 | 4226083 |
| 99,44% | 5458054 | 5359288 |
| 99,64% | 5915410 | 5843451 |
| 98,31% | 4627580 | 3784704 |
| 99,24% | 5502384 | 5393648 |
| 99,59% | 5822340 | 5713489 |
| 99,92% | 7107504 | 6866113 |
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| 99,81% | 1975932 | 1874162 |
| 99,23% | 9696888 | 9114790 |
| 96,08% | 1225348 | 972527 |
| 99,74% | 2327736 | 2160877 |
| 99,78% | 7217830 | 6370498 |
| 99,97% | 12097604 | 11660358 |
| 97,07% | 3552788 | 3328094 |
| 94,22% | 2837326 | 2653861 |
| 99,07% | 2911416 | 2777866 |
| 99,84% | 4502800 | 4082940 |
| 99,89% | 7904114 | 7489279 |
| 99,97% | 11595052 | 10883473 |
| 99,86% | 2962032 | 2744719 |

| | | |
|---|---|---|
| 99,79% | 3256670 | 3085445 |
| 99,84% | 6155250 | 5887554 |
| 98,24% | 3370938 | 3204785 |
| 98,79% | 7323056 | 6937728 |
| 98,40% | 3807152 | 3477356 |
| 98,26% | 2817916 | 2645711 |
| 99,85% | 4690224 | 4370004 |
| 99,86% | 4058010 | 3904530 |
| 99,70% | 2904908 | 2735383 |
| 99,49% | 1543308 | 1394049 |
| 96,36% | 6104258 | 5730893 |
| 95,16% | 3311780 | 2911006 |
| 99,89% | 7575230 | 7261100 |
| 99,86% | 1395666 | 1288823 |
| 96,53% | 1830306 | 1677246 |
| 98,54% | 2610122 | 2426982 |
| 97,80% | 4164014 | 3800530 |
| 99,12% | 5193888 | 4993970 |
| 97,02% | 5504298 | 5174102 |
| 99,10% | 5677768 | 5328163 |
| 97,19% | 3725056 | 3561506 |
| 98,47% | 3190910 | 3006286 |
| 98,83% | 5518220 | 5284451 |
| 97,64% | 2160668 | 1948552 |
| 98,18% | 4070756 | 3755063 |
| 96,84% | 3424382 | 3218082 |
| 99,80% | 4301436 | 4065373 |
| 98,13% | 2657784 | 2405821 |
| 98,59% | 3845968 | 3665612 |
| 99,72% | 18049032 | 16743398 |
| 99,00% | 5263394 | 4980284 |
| 99,87% | 5881606 | 5660521 |
| 99,15% | 3190718 | 3032582 |
| 98,06% | 8505006 | 8039243 |
| 95,65% | 3483672 | 3212840 |
| 99,35% | 8090460 | 7718023 |
| 97,20% | 3814884 | 3624962 |
| 99,71% | 16676544 | 16182289 |
| 99,89% | 9251770 | 8831120 |
| 94,49% | 2838096 | 2572775 |
| 92,13% | 2104654 | 1943049 |
| 99,74% | 2567882 | 2429825 |
| 99,58% | 2041954 | 1887142 |
| 98,07% | 5379538 | 5043224 |
| 99,87% | 5930072 | 5566516 |
| 97,71% | 3024978 | 2881406 |
| 99,76% | 3970580 | 3615206 |
| 98,44% | 2324618 | 2190978 |
| 99,20% | 5113956 | 4793136 |
| 93,10% | 3405060 | 3085754 |
| 98,73% | 6325866 | 6090002 |
| 99,56% | 927582 | 878007 |
| 99,87% | 8323526 | 8057333 |

Table S6

| | | |
|---|---|---|
| 98,05% | 7943804 | 7116097 |
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| 96,57% | 4029180 | 3564594 |
| 99,83% | 7638134 | 7054529 |
| 98,63% | 3779892 | 3499194 |
| 99,39% | 10146748 | 9257923 |
| 99,64% | 6519904 | 5803696 |
| 99,86% | 3963218 | 3556458 |
| 99,45% | 5617004 | 5205481 |
| 99,00% | 5007914 | 4457509 |
| 99,23% | 5088442 | 4619201 |
| 99,65% | 3091350 | 2467323 |
| 98,11% | 4027574 | 3570952 |
| 98,52% | 2833310 | 2541863 |
| 99,04% | 2858752 | 2615592 |
| 99,88% | 2941630 | 2597766 |
| 96,06% | 2600252 | 2355010 |
| 98,50% | 2960776 | 2537364 |
| 97,50% | 3563024 | 3300592 |
| 98,42% | 3841070 | 3393691 |
| 96,20% | 4735014 | 3792454 |
| 99,54% | 5098574 | 4623312 |
| 98,04% | 4857626 | 4433802 |
| 96,65% | 2607996 | 2366951 |
| 97,70% | 5622930 | 5082184 |
| 99,83% | 38859152 | 35791282 |
| 99,84% | 21408904 | 19704295 |
| 97,33% | 4006512 | 3532909 |
| 98,55% | 5915776 | 5304383 |
| 98,74% | 2973640 | 2702608 |
| 99,11% | 8146120 | 7573032 |
| 99,59% | 10449428 | 9600497 |
| 98,98% | 5082414 | 4632081 |
| 98,09% | 8682028 | 7984257 |
| 99,38% | 5576302 | 5107607 |

Table S6

| | | |
|---|---|---|
| 99,58% | 1251324 | 1073615 |
| 98,72% | 4763184 | 4338884 |
| 96,29% | 3545586 | 3115419 |
| 98,85% | 3366570 | 3143896 |
| 99,36% | 7738468 | 7122717 |
| 99,00% | 4173824 | 3815014 |
| 98,50% | 8564208 | 7553494 |
| 99,24% | 5869714 | 5265311 |
| 97,93% | 5873500 | 5412033 |
| 99,81% | 2432728 | 1848141 |
| 98,59% | 3900384 | 3568685 |
| 94,65% | 4609560 | 4124122 |
| 99,32% | 6390284 | 5879382 |
| 99,35% | 8491444 | 7839213 |
| 98,88% | 10177048 | 9519966 |
| 96,07% | 3676024 | 3189071 |
| 99,97% | 5739180 | 5219324 |
| 99,96% | 11765644 | 10693118 |
| 99,96% | 11377022 | 10373583 |
| 96,60% | 7905248 | 7173398 |
| 98,52% | 10045848 | 9226103 |
| 98,61% | 9552262 | 8808642 |
| 98,90% | 3194866 | 2879697 |
| 99,06% | 7190204 | 6384637 |
| 97,60% | 8317428 | 7550610 |
| 94,68% | 2422796 | 2207124 |
| 99,28% | 6826016 | 6316321 |
| 97,26% | 4919066 | 4337860 |
| 98,49% | 7432524 | 6113839 |
| 98,20% | 5407544 | 4857121 |
| 99,26% | 7430410 | 6904046 |
| 98,92% | 3368542 | 3125920 |
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Table S6

| | STACKS: ref_map.pl | | |
|---|---|---|---|
| WA_Samtools_reads_mapped_perce | Number_loci | Mean_coverage | Mean_coverage_ns |
| 97,41% | 98613 | 35,971 | 38,38 |
| 98,62% | 99854 | 22,637 | 24,546 |
| 98,15% | 115695 | 30,398 | 37,027 |
| 98,78% | 108429 | 41,003 | 47,316 |
| 99,26% | 110509 | 75,975 | 89,907 |
| 96,40% | 97698 | 26,758 | 28,471 |
| 98,12% | 96539 | 16,557 | 17,457 |
| 96,41% | 98129 | 27,892 | 29,391 |
| 97,70% | 106892 | 19,666 | 22,575 |
| 98,50% | 106286 | 16,522 | 18,726 |
| 92,38% | 95049 | 7,881 | 8,301 |
| 97,43% | 95770 | 10,284 | 10,805 |
| 98,35% | 97471 | 10,738 | 11,398 |
| 98,20% | 100300 | 17,714 | 19,097 |
| 92,92% | 96645 | 12,238 | 12,928 |
| 98,35% | 106508 | 32,933 | 37,45 |
| 97,40% | 100914 | 19,522 | 21,232 |
| 97,90% | 99182 | 19,712 | 20,997 |
| 97,60% | 106808 | 20,751 | 23,885 |
| 97,43% | 99663 | 16,839 | 18,113 |
| 97,94% | 103110 | 24,409 | 27,101 |
| 98,49% | 104819 | 27,366 | 30,589 |
| 97,37% | 98596 | 13,214 | 14,078 |
| 95,66% | 99900 | 14,928 | 16,194 |
| 97,60% | 96172 | 10,738 | 11,412 |
| 98,05% | 107563 | 20,678 | 23,772 |
| 99,17% | 101067 | 28,194 | 30,997 |
| 96,28% | 101560 | 16,775 | 18,412 |
| 70,94% | 113943 | 8,397 | 10,214 |
| 98,21% | 101579 | 21,843 | 24,075 |
| 98,95% | 99491 | 19,893 | 21,278 |
| 99,03% | 98050 | 25,507 | 27,107 |
| 98,01% | 99827 | 22,774 | 24,624 |
| 98,10% | 104631 | 15,289 | 17,059 |
| 98,62% | 99887 | 21,596 | 23,354 |
| 97,63% | 114331 | 68,038 | 82,439 |
| 98,37% | 100662 | 21,507 | 23,378 |
| 95,93% | 102331 | 17,273 | 19,021 |
| 97,95% | 100261 | 22,509 | 24,353 |
| 95,27% | 103076 | 15,724 | 17,422 |
| 93,89% | 115489 | 19,209 | 23,351 |
| 98,10% | 107234 | 28,015 | 31,914 |
| 95,54% | 97872 | 29,79 | 31,67 |
| 98,82% | 99647 | 34,052 | 36,57 |
| 98,51% | 105961 | 24,25 | 27,442 |
| 98,70% | 102858 | 32,144 | 35,48 |
| 99,01% | 100604 | 28,86 | 31,444 |
| 96,72% | 104982 | 16,818 | 18,945 |

| | | | |
|---|---|---|---|
| 97,87% | 96916 | 17,605 | 18,628 |
| 98,30% | 99916 | 28,898 | 30,983 |
| 96,20% | 95159 | 13,258 | 13,93 |
| 99,15% | 102185 | 35,617 | 39,131 |
| 97,88% | 97115 | 26,876 | 28,17 |
| 98,34% | 99831 | 22,423 | 24,332 |
| 97,31% | 99906 | 16,595 | 17,958 |
| 98,58% | 99398 | 16,419 | 17,656 |
| 98,95% | 97691 | 32,596 | 34,594 |
| 98,65% | 104149 | 13,337 | 15,012 |
| 97,71% | 104790 | 16,835 | 18,87 |
| 98,26% | 99964 | 18,562 | 20,222 |
| 96,69% | 98867 | 14,616 | 15,73 |
| 84,43% | 98720 | 22,035 | 23,568 |
| 97,99% | 104813 | 15,397 | 17,535 |
| 98,55% | 106622 | 23,969 | 27,699 |
| 96,10% | 105594 | 15,231 | 17,224 |
| 98,60% | 102415 | 29,547 | 32,671 |
| 97,73% | 99880 | 15,3 | 16,552 |
| 96,40% | 97410 | 32,733 | 34,786 |
| 98,86% | 97242 | 23,417 | 24,871 |
| 97,40% | 105373 | 27,43 | 30,987 |
| 98,71% | 104537 | 27,646 | 30,952 |
| 97,72% | 102232 | 16,007 | 17,738 |
| 98,68% | 100139 | 20,776 | 22,672 |
| 95,25% | 101754 | 12,959 | 14,274 |
| 96,56% | 102356 | 14,988 | 16,433 |
| 97,81% | 103573 | 34,519 | 38,093 |
| 95,97% | 103604 | 17,224 | 19,467 |
| 97,22% | 106819 | 16,388 | 18,705 |
| 98,19% | 98725 | 22,391 | 23,917 |
| 98,78% | 99557 | 24,187 | 26,072 |
| 81,79% | 103475 | 15,025 | 16,725 |
| 98,02% | 103598 | 21,385 | 23,633 |
| 98,13% | 101472 | 23,266 | 25,532 |
| 96,60% | 99544 | 28,73 | 30,677 |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |
| 94,85% | 65545 | 11,70 | 12,67 |
| 94,00% | 71523 | 52,37 | 60,47 |
| 79,37% | 61770 | 6,22 | 6,50 |
| 92,83% | 63933 | 12,94 | 13,66 |
| 88,26% | 62981 | 39,25 | 40,71 |
| 96,39% | 65271 | 79,01 | 84,64 |
| 93,68% | 68005 | 19,93 | 22,13 |
| 93,53% | 64868 | 16,54 | 17,69 |
| 95,41% | 64820 | 18,21 | 19,47 |
| 90,68% | 64375 | 25,43 | 26,83 |
| 94,75% | 66656 | 45,85 | 50,19 |
| 93,86% | 65602 | 71,33 | 76,62 |
| 92,66% | 62730 | 17,72 | 18,38 |

| | | | |
|---|---|---|---|
| 94,74% | 63496 | 18,69 | 19,65 |
| 95,65% | 66649 | 37,38 | 40,92 |
| 95,07% | 64584 | 20,64 | 21,97 |
| 94,74% | 66336 | 44,45 | 48,83 |
| 91,34% | 64642 | 21,61 | 22,94 |
| 93,89% | 65080 | 17,12 | 18,34 |
| 93,17% | 65047 | 26,84 | 28,75 |
| 96,22% | 65527 | 24,34 | 26,18 |
| 94,16% | 64328 | 16,63 | 17,67 |
| 90,33% | 58711 | 10,47 | 10,80 |
| 93,88% | 68518 | 35,48 | 39,67 |
| 87,90% | 66630 | 17,61 | 19,25 |
| 95,85% | 66018 | 44,41 | 48,06 |
| 92,34% | 60648 | 8,21 | 8,38 |
| 91,64% | 65156 | 10,64 | 11,39 |
| 92,98% | 63919 | 15,36 | 16,16 |
| 91,27% | 65812 | 23,53 | 25,33 |
| 96,15% | 66781 | 31,69 | 34,68 |
| 94,00% | 67165 | 32,53 | 35,82 |
| 93,84% | 66676 | 33,48 | 36,66 |
| 95,61% | 65531 | 23,42 | 25,29 |
| 94,21% | 66391 | 19,06 | 20,71 |
| 95,76% | 71163 | 31,01 | 35,80 |
| 90,18% | 66492 | 12,08 | 13,09 |
| 92,24% | 66605 | 23,58 | 25,70 |
| 93,98% | 64061 | 20,64 | 21,86 |
| 94,51% | 63634 | 26,91 | 28,35 |
| 90,52% | 64411 | 14,71 | 15,63 |
| 95,31% | 63824 | 24,36 | 25,69 |
| 92,77% | 87328 | 54,70 | 76,18 |
| 94,62% | 68963 | 30,51 | 34,26 |
| 96,24% | 69933 | 33,88 | 38,74 |
| 95,04% | 65354 | 19,78 | 21,35 |
| 94,52% | 72693 | 47,15 | 55,69 |
| 92,23% | 65373 | 21,39 | 23,01 |
| 95,40% | 68769 | 48,59 | 55,41 |
| 95,02% | 66818 | 22,79 | 25,01 |
| 97,04% | 177256 | 39,27 | 106,34 |
| 95,45% | 70123 | 50,57 | 57,83 |
| 90,65% | 62887 | 17,55 | 18,26 |
| 92,32% | 63305 | 13,01 | 13,76 |
| 94,62% | 63836 | 15,62 | 16,56 |
| 92,42% | 62138 | 11,86 | 12,39 |
| 93,75% | 72454 | 28,90 | 33,98 |
| 93,87% | 64597 | 36,71 | 38,93 |
| 95,25% | 64019 | 18,63 | 19,69 |
| 91,05% | 68112 | 21,71 | 24,33 |
| 94,25% | 61894 | 15,12 | 16,19 |
| 93,73% | 66714 | 30,00 | 32,95 |
| 90,62% | 64038 | 19,83 | 21,00 |
| 96,27% | 68249 | 38,06 | 42,48 |
| 94,66% | 62174 | 5,82 | 6,08 |
| 96,80% | 80416 | 43,39 | 56,43 |

Table S6

| | | | |
|---|---|---|---|
| 89,58% | 72064 | 41,43 | 48,54 |
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| 88,47% | 103019 | 15,74 | 16,59 |
| 92,36% | 116438 | 27,88 | 33,06 |
| 92,57% | 102218 | 15,56 | 16,39 |
| 91,24% | 106676 | 39,20 | 42,46 |
| 89,02% | 104328 | 25,77 | 27,39 |
| 89,74% | 102521 | 16,14 | 16,92 |
| 92,67% | 102374 | 23,13 | 24,26 |
| 89,01% | 106987 | 19,13 | 20,83 |
| 90,78% | 107751 | 19,46 | 21,34 |
| 79,81% | 101758 | 11,22 | 11,73 |
| 88,66% | 102493 | 15,86 | 16,66 |
| 89,71% | 102966 | 11,19 | 11,86 |
| 91,49% | 99762 | 12,11 | 12,50 |
| 88,31% | 103330 | 11,85 | 12,60 |
| 90,57% | 100337 | 10,78 | 11,17 |
| 85,70% | 103710 | 11,10 | 11,90 |
| 92,63% | 104495 | 14,34 | 15,36 |
| 88,35% | 104267 | 14,65 | 15,61 |
| 80,09% | 107066 | 15,57 | 17,05 |
| 90,68% | 102133 | 20,76 | 21,77 |
| 91,28% | 109194 | 18,46 | 20,48 |
| 90,76% | 103438 | 10,43 | 11,14 |
| 90,38% | 107445 | 21,34 | 23,34 |
| 92,11% | 118919 | 135,04 | 162,53 |
| 92,04% | 105807 | 83,49 | 89,92 |
| 88,18% | 103807 | 15,34 | 16,31 |
| 89,67% | 104555 | 23,02 | 24,57 |
| 90,89% | 102436 | 11,95 | 12,56 |
| 92,96% | 110350 | 31,11 | 34,98 |
| 91,88% | 116556 | 37,02 | 43,66 |
| 91,14% | 104428 | 20,46 | 21,86 |
| 91,96% | 110429 | 32,72 | 36,62 |
| 91,59% | 109034 | 21,73 | 24,06 |

Table S6

| | | | |
|---|---|---|---|
| 85,80% | 98061 | 5,13 | 5,30 |
| 91,09% | 104184 | 19,00 | 20,28 |
| 87,87% | 106057 | 13,11 | 14,17 |
| 93,39% | 102142 | 13,99 | 14,68 |
| 92,04% | 105692 | 30,71 | 33,11 |
| 91,40% | 103659 | 16,95 | 17,92 |
| 88,20% | 107148 | 32,72 | 35,57 |
| 89,70% | 102500 | 23,71 | 24,90 |
| 92,14% | 106079 | 23,17 | 25,05 |
| 75,97% | 102303 | 8,28 | 8,79 |
| 91,50% | 102624 | 15,92 | 16,75 |
| 89,47% | 107156 | 17,13 | 18,73 |
| 92,01% | 103048 | 26,14 | 27,61 |
| 92,32% | 106231 | 32,95 | 35,59 |
| 93,54% | 114562 | 37,13 | 43,11 |
| 86,75% | 102661 | 13,99 | 14,77 |
| 90,94% | 100980 | 24,27 | 25,27 |
| 90,88% | 102917 | 49,09 | 51,84 |
| 91,18% | 101366 | 48,03 | 49,88 |
| 90,74% | 109258 | 29,37 | 32,59 |
| 91,84% | 112336 | 37,40 | 42,57 |
| 92,22% | 109221 | 36,24 | 40,24 |
| 90,14% | 101207 | 12,96 | 13,49 |
| 88,80% | 108064 | 26,93 | 29,57 |
| 90,78% | 108377 | 31,25 | 34,41 |
| 91,10% | 104417 | 9,59 | 10,30 |
| 92,53% | 105648 | 27,16 | 29,16 |
| 88,18% | 103516 | 19,23 | 20,30 |
| 82,26% | 111350 | 24,51 | 27,78 |
| 89,82% | 107802 | 20,86 | 22,98 |
| 92,92% | 110992 | 28,33 | 31,91 |
| 92,80% | 103006 | 13,84 | 14,67 |
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Table S6

| VCFTools: relatedness2 | BCFtools_Filtered |
|---|---|
| Kept if relatedness < 0.20 | missing_data_per_sample |
| Yes | 2,12 |
| Yes | 2,03 |
| Yes | 2,48 |
| Yes | 1,61 |
| Yes | 1,83 |
| Yes | 2,93 |
| Yes | 2,23 |
| Yes | 1,72 |
| Yes | 3,78 |
| Yes | 3,07 |
| Yes | 7,36 |
| Yes | 3,32 |
| Yes | 2,95 |
| Yes | 2,3 |
| Yes | 3,53 |
| Yes | 1,33 |
| Yes | 4,29 |
| Yes | 1,88 |
| Yes | 2,32 |
| Yes | 3,18 |
| Yes | 1,52 |
| Yes | 1,69 |
| Yes | 6,14 |
| Yes | 2,44 |
| Yes | 3,93 |
| Yes | 1,55 |
| Yes | 2,42 |
| Yes | 4,61 |
| Yes | 10,23 |
| Yes | 1,63 |
| Yes | 2,43 |
| Yes | 1,14 |
| Yes | 1,27 |
| Yes | 2,09 |
| Yes | 1,41 |
| Yes | 1,78 |
| Yes | 1,45 |
| Yes | 2,56 |
| Yes | 1,26 |
| Yes | 2,03 |
| Yes | 1,69 |
| Yes | 13,22 |
| Yes | 1,87 |
| Yes | 1,11 |
| Yes | 10,61 |
| Yes | 1,1 |
| Yes | 1,34 |
| Yes | 2,97 |

| | |
|---|---|
| Yes | 2,46 |
| Yes | 1,47 |
| Yes | 6,62 |
| Yes | 1,29 |
| Yes | 1,46 |
| Yes | 2,08 |
| Yes | 4,27 |
| Yes | 1,58 |
| Yes | 1,97 |
| Yes | 3,36 |
| Yes | 1,58 |
| Yes | 2,38 |
| Yes | 3,53 |
| Yes | 1,4 |
| Yes | 3,5 |
| Yes | 2,3 |
| Yes | 1,89 |
| Yes | 1,21 |
| Yes | 2,22 |
| Yes | 2,92 |
| Yes | 2,36 |
| Yes | 1,21 |
| Yes | 1,27 |
| Yes | 3,29 |
| Yes | 2,69 |
| Yes | 2,33 |
| Yes | 5,07 |
| Yes | 2,61 |
| Yes | 3,94 |
| Yes | 2,28 |
| Yes | 3,78 |
| Yes | 1,83 |
| Yes | 2,6 |
| Yes | 2,94 |
| Yes | 3,06 |
| Yes | 1,32 |
| - | - |
| - | - |
| - | - |
| - | - |
| Yes | 3,51 |
| Yes | 2,58 |
| Yes | 16,6 |
| No | 4,76 |
| Yes | 1,66 |
| Yes | 1,37 |
| Yes | 2,24 |
| Yes | 3,18 |
| Yes | 1,83 |
| Yes | 5,85 |
| Yes | 1,1 |
| Yes | 1,25 |
| Yes | 4,28 |

| | |
|---|---|
| Yes | 5,14 |
| Yes | 1,6 |
| Yes | 1,74 |
| Yes | 2,76 |
| Yes | 2,16 |
| Yes | 2,42 |
| Yes | 1,24 |
| Yes | 2,62 |
| Yes | 5,61 |
| Yes | 17,05 |
| Yes | 0,91 |
| Yes | 3,81 |
| Yes | 1,3 |
| Yes | 10,26 |
| Yes | 5,87 |
| Yes | 3,76 |
| Yes | 6,46 |
| Yes | 1,13 |
| Yes | 1,08 |
| Yes | 1,05 |
| Yes | 1,21 |
| Yes | 2,49 |
| Yes | 2 |
| Yes | 8,92 |
| Yes | 4,08 |
| Yes | 1,99 |
| Yes | 3,3 |
| Yes | 3,1 |
| Yes | 1,3 |
| Yes | 1,56 |
| No | 1,19 |
| Yes | 1,03 |
| Yes | 1,79 |
| Yes | 0,93 |
| Yes | 1,57 |
| Yes | 1,74 |
| Yes | 1,59 |
| Yes | 1,28 |
| Yes | 1,09 |
| Yes | 2,43 |
| Yes | 4,69 |
| Yes | 8,27 |
| Yes | 12,11 |
| Yes | 1,34 |
| Yes | 1,1 |
| Yes | 2,13 |
| Yes | 4,38 |
| Yes | 6,22 |
| Yes | 1,31 |
| Yes | 3,29 |
| Yes | 1,02 |
| Yes | 18,18 |
| Yes | 1,07 |

| | |
|---|---|
| Yes | 0,88 |
| - | - |
| - | - |
| - | - |
| - | - |
| - | - |
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| - | - |
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| - | - |
| - | - |
| - | - |
| - | - |
| - | - |
| - | - |
| Yes | 6,22 |
| Yes | 1,39 |
| Yes | 2,48 |
| Yes | 1,24 |
| Yes | 2,66 |
| Yes | 4,02 |
| Yes | 1,37 |
| Yes | 3,96 |
| Yes | 1,77 |
| Yes | 7,58 |
| Yes | 2,35 |
| Yes | 4,08 |
| Yes | 3,07 |
| Yes | 6,22 |
| Yes | 4,8 |
| Yes | 11,41 |
| Yes | 2,55 |
| Yes | 2,69 |
| Yes | 2,32 |
| Yes | 1,62 |
| Yes | 2,56 |
| Yes | 4,66 |
| Yes | 1,91 |
| Yes | 2,65 |
| Yes | 1,83 |
| Yes | 2,72 |
| Yes | 1,86 |
| Yes | 3,64 |
| Yes | 1,22 |
| Yes | 1,28 |
| Yes | 3,83 |
| Yes | 1,29 |
| Yes | 3,1 |

| | |
|---|---|
| Yes | 20,24 |
| Yes | 1,91 |
| Yes | 3,24 |
| Yes | 3,17 |
| Yes | 1,14 |
| Yes | 4,02 |
| Yes | 3,81 |
| Yes | 6,9 |
| Yes | 1,34 |
| Yes | 7,47 |
| Yes | 2,77 |
| Yes | 2,03 |
| Yes | 1,23 |
| Yes | 1,37 |
| Yes | 1,22 |
| Yes | 4,33 |
| Yes | 2,07 |
| Yes | 1,71 |
| Yes | 1,62 |
| Yes | 1,21 |
| Yes | 1,26 |
| Yes | 1,21 |
| Yes | 2,95 |
| Yes | 2,95 |
| Yes | 1,25 |
| Yes | 4,99 |
| Yes | 1,86 |
| Yes | 4,41 |
| Yes | 1,17 |
| Yes | 3,97 |
| Yes | 1,37 |
| Yes | 2,72 |
| - | - |
| - | - |
| - | - |
| - | - |
| - | - |
| - | - |
| - | - |
| - | - |
| - | - |
| - | - |
| - | - |
| - | - |
| - | - |

**Table S7. Genetic diversity statistics for each sampling location. Estimates incl (He), nucleotide diversity (π), number of segregating sites, number of private al inbreeding coefficient (Fis) for each species and location.**

| Species | Location | N | Ho | He |
|---|---|---|---|---|
| ***Andrena flavipes*** **(n = 78)** | Alcobaça | 5 | 0,08 | 0,09 |
| | Arruda dos Vinhos | 6 | 0,08 | 0,09 |
| | Bombarral | 6 | 0,08 | 0,09 |
| | Caldas da Rainha | 6 | 0,09 | 0,09 |
| | Ferreira do Zêzere | 6 | 0,07 | 0,09 |
| | Foros de Vale Figueira | 6 | 0,09 | 0,09 |
| | Marinha Grande | 6 | 0,09 | 0,09 |
| | Nazaré | 6 | 0,08 | 0,09 |
| | Odeceixe | 6 | 0,09 | 0,09 |
| | Serra da Malcata | 7 | 0,09 | 0,09 |
| | Serra de São Mamede | 6 | 0,08 | 0,09 |
| | Sintra | 6 | 0,07 | 0,09 |
| | Turcifal | 6 | 0,08 | 0,09 |
| **Species** | **Location** | **N** | **Ho** | **He** |
| ***Bombus terrestris*** **(n = 62)** | Alcobaça | 6 | 0,14 | 0,13 |
| | Arruda dos Vinhos | 6 | 0,15 | 0,14 |
| | Bombarral | 3 | 0,15 | 0,12 |
| | Caldas da Rainha | 5 | 0,15 | 0,14 |
| | Foros de Vale Figueira | 5 | 0,12 | 0,14 |
| | Marinha Grande | 7 | 0,14 | 0,13 |
| | Nazaré | 5 | 0,15 | 0,13 |
| | Odeceixe | 7 | 0,15 | 0,14 |
| | Serra da Malcata | 3 | 0,13 | 0,12 |
| | Serra de Aire e Candeeiros | 4 | 0,11 | 0,13 |
| | Serra de São Mamede | 6 | 0,14 | 0,13 |
| | Turcifal | 5 | 0,14 | 0,13 |
| **Species** | **Location** | **N** | **Ho** | **He** |
| ***asioglossum malachurun*** **(n = 59)** | Alcobaça | 7 | 0,17 | 0,16 |
| | Arruda dos Vinhos | 5 | 0,17 | 0,15 |
| | Bombarral | 6 | 0,16 | 0,15 |
| | Caldas da Rainha | 5 | 0,17 | 0,16 |
| | Ferreira do Zêzere | 6 | 0,17 | 0,15 |
| | Foros de Vale Figueira | 5 | 0,17 | 0,16 |
| | Marinha Grande | 3 | 0,17 | 0,14 |
| | Nazaré | 3 | 0,16 | 0,14 |
| | Odeceixe | 7 | 0,17 | 0,16 |
| | Sintra | 6 | 0,17 | 0,16 |
| | Turcifal | 6 | 0,17 | 0,16 |

Table S7

**lude sample size (N), observed heterozygosity (Ho), expected heterozygosity lleles, gene diversity (Hs), proportion of polymorphic loci, allelic richness, and**

| Pi | Seg. Sites | Priv. Alleles | Hs | Prop. Poly. | All. Richness | Fis |
|---|---|---|---|---|---|---|
| 0,10 | 20510 | 122 | 1,00 | 0,31 | 1,29 | 0,19 |
| 0,10 | 20026 | 1419 | 0,94 | 0,33 | 1,29 | 0,23 |
| 0,09 | 20101 | 1148 | 1,03 | 0,33 | 1,29 | 0,13 |
| 0,10 | 20698 | 1156 | 1,04 | 0,34 | 1,30 | 0,13 |
| 0,10 | 19802 | 1423 | 0,91 | 0,32 | 1,29 | 0,24 |
| 0,10 | 21512 | 1186 | 1,11 | 0,35 | 1,31 | 0,11 |
| 0,10 | 20527 | 1159 | 1,03 | 0,34 | 1,29 | 0,15 |
| 0,10 | 20800 | 1483 | 1,00 | 0,34 | 1,30 | 0,20 |
| 0,10 | 20361 | 929 | 1,07 | 0,33 | 1,29 | 0,09 |
| 0,10 | 20574 | 1273 | 1,04 | 0,37 | 1,30 | 0,14 |
| 0,10 | 20628 | 1533 | 0,95 | 0,34 | 1,30 | 0,24 |
| 0,10 | 20095 | 1587 | 0,89 | 0,33 | 1,29 | 0,28 |
| 0,10 | 20542 | 1445 | 0,97 | 0,34 | 1,30 | 0,20 |
| **Pi** | **Seg. Sites** | **Priv. Alleles** | **Hs** | **Prop. Poly.** | **All. Richness** | **Fis** |
| 0,14 | 14378 | 799 | 1,02 | 0,48 | 1,31 | 0,03 |
| 0,16 | 15134 | 829 | 1,07 | 0,52 | 1,33 | 0,04 |
| 0,15 | 15017 | 150 | 1,09 | 0,35 | 1,33 | 0,00 |
| 0,15 | 14802 | 881 | 1,05 | 0,46 | 1,32 | 0,03 |
| 0,15 | 13959 | 965 | 0,85 | 0,45 | 1,32 | 0,23 |
| 0,14 | 14297 | 828 | 1,00 | 0,52 | 1,31 | 0,05 |
| 0,15 | 14709 | 859 | 1,06 | 0,45 | 1,32 | 0,01 |
| 0,15 | 14865 | 818 | 1,05 | 0,54 | 1,32 | 0,04 |
| 0,14 | 14141 | 42 | 0,95 | 0,32 | 1,31 | 0,10 |
| 0,15 | 14053 | 949 | 0,81 | 0,41 | 1,32 | 0,29 |
| 0,15 | 14354 | 852 | 0,99 | 0,49 | 1,32 | 0,07 |
| 0,15 | 14518 | 904 | 1,01 | 0,45 | 1,32 | 0,05 |
| **Pi** | **Seg. Sites** | **Priv. Alleles** | **Hs** | **Prop. Poly.** | **All. Richness** | **Fis** |
| 0,18 | 25182 | 1060 | 1,01 | 0,61 | 1,39 | 0,04 |
| 0,17 | 24775 | 1049 | 0,99 | 0,52 | 1,39 | 0,04 |
| 0,17 | 24361 | 1158 | 0,98 | 0,54 | 1,38 | 0,03 |
| 0,18 | 24960 | 1247 | 1,03 | 0,51 | 1,39 | 0,00 |
| 0,17 | 24759 | 1023 | 0,99 | 0,56 | 1,39 | 0,03 |
| 0,18 | 25090 | 1030 | 1,01 | 0,52 | 1,39 | 0,04 |
| 0,18 | 25256 | 58 | 1,02 | 0,41 | 1,39 | 0,02 |
| 0,17 | 24605 | 56 | 0,98 | 0,40 | 1,38 | 0,04 |
| 0,17 | 25036 | 1114 | 1,00 | 0,60 | 1,39 | 0,04 |
| 0,17 | 24874 | 1033 | 0,99 | 0,56 | 1,39 | 0,04 |
| 0,18 | 25060 | 1058 | 1,00 | 0,57 | 1,39 | 0,04 |

**Table S8. Genetic diversity statistics grouped by landscape category level agricultural (LoA) and small-scale farming (SSF) landscapes for each species. expected heterozygosity (He), nucleotide diversity (π), number of segregating s loci, allelic richness, and inbreeding coefficient (Fis)**

| Species | Location | N | Ho | He | Pi |
|---|---|---|---|---|---|
| ***Andrena flavipes*** | LoA | 49 | 0,08 | 0,10 | 0,10 |
| **(n = 78)** | SSF | 29 | 0,08 | 0,10 | 0,10 |
| **Species** | **Location** | **N** | **Ho** | **He** | **Pi** |
| ***Bombus terrestris*** | LoA | 37 | 0,14 | 0,15 | 0,15 |
| **(n = 62)** | SSF | 25 | 0,15 | 0,15 | 0,15 |
| **Species** | **Location** | **N** | **Ho** | **He** | **Pi** |
| ***asioglossum malachurui*** | LoA | 30 | 0,17 | 0,17 | 0,17 |
| **(n = 59)** | SSF | 29 | 0,17 | 0,17 | 0,17 |

Table S8

**1. Estimates of genetic diversity are shown separately for low- Statistics include sample size (N), observed heterozygosity (Ho), sites, private alleles, gene diversity (Hs), proportion of polymorphic**

| Seg. Sites | Priv. Alleles | Hs | Prop. Poly. | All. Richness | Fis |
|---|---|---|---|---|---|
| 50406 | 15998 | 1,00 | 0,89 | 1,77 | 0,18 |
| 50366 | 0 | 1,00 | 0,73 | 1,73 | 0,18 |
| **Seg. Sites** | **Priv. Alleles** | **Hs** | **Prop. Poly.** | **All. Richness** | **Fis** |
| 38875 | 6480 | 0,97 | 0,94 | 1,86 | 0,10 |
| 38736 | 0 | 1,04 | 0,85 | 1,84 | 0,04 |
| **Seg. Sites** | **Priv. Alleles** | **Hs** | **Prop. Poly.** | **All. Richness** | **Fis** |
| 58519 | 3183 | 1,00 | 0,92 | 1,91 | 0,04 |
| 58886 | 218 | 1,00 | 0,92 | 1,92 | 0,03 |

**Table S9. Genetic diversity statistics grouped by landscape category level 2: agricultural (Near_LoA), and far low-agricultural (Far_LoA) populations. Statistic heterozygosity (He), nucleotide diversity (π), number of segregating sites, pr allelic richness, and inbreeding coefficient (Fis)**

| Species | Location | N | Ho | He | Pi |
|---|---|---|---|---|---|
| ***Andrena flavipes*** **(n = 78)** | Far_LoA | 25 | 0,09 | 0,10 | 0,10 |
| | Near_LoA | 24 | 0,08 | 0,10 | 0,10 |
| | SSF | 29 | 0,08 | 0,10 | 0,10 |
| **Species** | **Location** | **N** | **Ho** | **He** | **Pi** |
| ***Bombus terrestris*** **(n = 62)** | Far_LoA | 21 | 0,14 | 0,15 | 0,15 |
| | Near_LoA | 16 | 0,13 | 0,14 | 0,15 |
| | SSF | 25 | 0,15 | 0,15 | 0,15 |
| **Species** | **Location** | **N** | **Ho** | **He** | **Pi** |
| ***asioglossum malachurui*** **(n = 59)** | Far_LoA | 12 | 0,17 | 0,17 | 0,18 |
| | Near_LoA | 18 | 0,17 | 0,17 | 0,17 |
| | SSF | 29 | 0,17 | 0,17 | 0,17 |

Table S9

**Estimates are presented for small-scale farming (SSF), near low-**
**cs include sample size (N), observed heterozygosity (Ho), expected**
**rivate alleles, gene diversity (Hs), proportion of polymorphic loci,**

| Seg. Sites | Priv. Alleles | Hs | Prop. Poly. | All. Richness | Fis |
|---|---|---|---|---|---|
| 46122 | 4955 | 1,04 | 0,68 | 1,67 | 0,14 |
| 46399 | 319 | 0,96 | 0,68 | 1,67 | 0,21 |
| 46177 | 7397 | 1,00 | 0,73 | 1,68 | 0,18 |
| **Seg. Sites** | **Priv. Alleles** | **Hs** | **Prop. Poly.** | **All. Richness** | **Fis** |
| 33813 | 3477 | 0,97 | 0,81 | 1,74 | 0,10 |
| 33618 | 1 | 0,97 | 0,74 | 1,73 | 0,11 |
| 33867 | 3396 | 1,04 | 0,85 | 1,74 | 0,04 |
| **Seg. Sites** | **Priv. Alleles** | **Hs** | **Prop. Poly.** | **All. Richness** | **Fis** |
| 46760 | 1 | 1,00 | 0,73 | 1,73 | 0,04 |
| 46544 | 4476 | 1,00 | 0,82 | 1,73 | 0,04 |
| 46924 | 4934 | 1,00 | 0,92 | 1,74 | 0,03 |

**Table S10. Candidate SNPs identified by PCAdapt in *Andrena flavipes*. For e (CHR), genomic position (POS), SNP ID, raw and adjusted p-values, minor all chi-square value. Candidate loci were identified after correction for multiple te**

| CHR | POS | SNP ID | P-value | P-value adjusted |
|---|---|---|---|---|
| CHR1 | 39466 | CHR1:39466 | 1,7863359024122E-39 | 1,02073494245455E-37 |
| CHR1 | 64875 | CHR1:64875 | 4,485437253E-11 | 5,1969385718E-10 |
| CHR1 | 76046 | CHR1:76046 | 1,1716418463174E-93 | 1,19233155352416E-90 |
| CHR1 | 84364 | CHR1:84364 | 0,0005119237993515 | 0,0028149332806659 |
| CHR1 | 90826 | CHR1:90826 | 9,114044E-14 | 1,35307207E-12 |
| CHR1 | 90829 | CHR1:90829 | 4,504472E-14 | 6,85451E-13 |
| CHR1 | 120718 | CHR1:120718 | 1,8577626E-12 | 2,460355402E-11 |
| CHR1 | 136782 | CHR1:136782 | 4,02763029075E-09 | 3,730445637324E-08 |
| CHR1 | 160058 | CHR1:160058 | 1,47438260626E-09 | 1,441060368076E-08 |
| CHR1 | 164118 | CHR1:164118 | 1,2151033668896E-15 | 2,104642E-14 |
| CHR1 | 183800 | CHR1:183800 | 2,7326135175928E-07 | 1,99288686323134E-06 |
| CHR1 | 244049 | CHR1:244049 | 0,0003577880560442 | 0,0019908598110685 |
| CHR1 | 255937 | CHR1:255937 | 1,263576193E-11 | 1,5427733508E-10 |
| CHR1 | 260769 | CHR1:260769 | 4,41304692E-12 | 5,62488013E-11 |
| CHR1 | 275131 | CHR1:275131 | 2,6746723126354E-06 | 1,73247048538934E-05 |
| CHR1 | 275139 | CHR1:275139 | 2,1438355777235E-06 | 1,40323285836443E-05 |
| CHR1 | 275140 | CHR1:275140 | 2,6746723126354E-06 | 1,73247048538934E-05 |
| CHR1 | 275204 | CHR1:275204 | 8,11764710815E-08 | 6,3569396631402E-07 |
| CHR1 | 275206 | CHR1:275206 | 8,11764710815E-08 | 6,3569396631402E-07 |
| CHR1 | 352168 | CHR1:352168 | 2,2083582933556E-06 | 1,44340270244432E-05 |
| CHR1 | 406913 | CHR1:406913 | 3,3629118229089E-64 | 5,50714391433576E-62 |
| CHR1 | 432171 | CHR1:432171 | 0,0058905654939714 | 0,0288487419014772 |
| CHR1 | 434658 | CHR1:434658 | 7,129921190442E-08 | 5,6205222220853E-07 |
| CHR1 | 440957 | CHR1:440957 | 1,396430055E-11 | 1,6973859496E-10 |
| CHR1 | 442914 | CHR1:442914 | 0,0027708041948112 | 0,0141955556928106 |
| CHR1 | 442918 | CHR1:442918 | 6,8890785503999E-32 | 2,86616514317012E-30 |
| CHR1 | 442953 | CHR1:442953 | 0,0033137973952301 | 0,0168255195613915 |
| CHR1 | 443012 | CHR1:443012 | 0,0028223588327213 | 0,0144462874060312 |
| CHR1 | 487642 | CHR1:487642 | 5,553512486613E-100 | 1,69547413951421E-96 |
| CHR1 | 498488 | CHR1:498488 | 3,5727623415743E-06 | 2,28727071370694E-05 |
| CHR1 | 531254 | CHR1:531254 | 0,0003564857145641 | 0,00198393254975955 |
| CHR1 | 568978 | CHR1:568978 | 7,698623E-14 | 1,14919198E-12 |
| CHR1 | 568979 | CHR1:568979 | 7,698623E-14 | 1,14919198E-12 |
| CHR1 | 672857 | CHR1:672857 | 2,9054538863857E-26 | 9,58455941810679E-25 |
| CHR1 | 703824 | CHR1:703824 | 5,0182371399507E-07 | 3,53357197841942E-06 |
| CHR1 | 726775 | CHR1:726775 | 4,1453815937794E-07 | 2,94973115905861E-06 |
| CHR1 | 769506 | CHR1:769506 | 9,4531861682072E-28 | 3,31818997103304E-26 |
| CHR1 | 787679 | CHR1:787679 | 6,114126304198E-06 | 3,8317881004682E-05 |
| CHR1 | 815368 | CHR1:815368 | 1,9140415779821E-22 | 5,25429204317609E-21 |
| CHR1 | 919445 | CHR1:919445 | 0,0085702579829079 | 0,040676685292359 |
| CHR1 | 920872 | CHR1:920872 | 5,19410373E-12 | 6,583117034E-11 |
| CHR1 | 964598 | CHR1:964598 | 2,5364586676061E-05 | 0,00015163290253802 |
| CHR1 | 1052373 | CHR1:1052373 | 4,1739452E-13 | 5,83455931E-12 |
| CHR1 | 1086762 | CHR1:1086762 | 5,5917136442382E-24 | 1,66588634301219E-22 |
| CHR1 | 1337911 | CHR1:1337911 | 2,3145966994914E-73 | 6,32812711710633E-71 |
| CHR1 | 1375384 | CHR1:1375384 | 0,0063938559306444 | 0,03111275385021 |
| CHR1 | 1407146 | CHR1:1407146 | 1,6208527005383E-07 | 1,2178239630055E-06 |
| CHR1 | 1422194 | CHR1:1422194 | 1,541779131909E-07 | 1,16236258930523E-06 |
| CHR1 | 1442364 | CHR1:1442364 | 3,905674239837E-08 | 3,1876079142201E-07 |

| | | | | |
|---|---|---|---|---|
| CHR1 | 1449039 | CHR1:1449039 | 0,0001089719306547 | 0,00062619547406079 |
| CHR1 | 1450786 | CHR1:1450786 | 3,1079765528199E-41 | 1,90953662427087E-39 |
| CHR1 | 1450815 | CHR1:1450815 | 6,548836581197E-08 | 5,1841250192863E-07 |
| CHR1 | 1470846 | CHR1:1470846 | 2,130344048394E-07 | 1,57597280104611E-06 |
| CHR1 | 1481850 | CHR1:1481850 | 6,6646606465461E-07 | 4,62157866747807E-06 |
| CHR1 | 1540763 | CHR1:1540763 | 6,2316480895764E-40 | 3,63536431431272E-38 |
| CHR1 | 1540846 | CHR1:1540846 | 5,4603047077648E-89 | 3,8682186251555E-86 |
| CHR1 | 1540956 | CHR1:1540956 | 7,6207610072E-10 | 7,7039741418E-09 |
| CHR1 | 1677018 | CHR1:1677018 | 8,6104746045627E-07 | 5,89627827060109E-06 |
| CHR1 | 1710873 | CHR1:1710873 | 1,923492516103E-27 | 6,65694542178962E-26 |
| CHR1 | 1711122 | CHR1:1711122 | 3,2883141570332E-31 | 1,32509139781768E-29 |
| CHR1 | 1713125 | CHR1:1713125 | 1,3635573256156E-58 | 1,68117440458713E-56 |
| CHR1 | 1752994 | CHR1:1752994 | 9,9847468888462E-07 | 6,78517234523451E-06 |
| CHR1 | 1753016 | CHR1:1753016 | 5,03679737964E-09 | 4,603630650822E-08 |
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| CHR1 | 1967762 | CHR1:1967762 | 7,189378777573E-18 | 1,48113446939957E-16 |
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| CHR1 | 3793740 | CHR1:3793740 | 0,0022479483913933 | 0,011644307283122 |
| CHR1 | 3793777 | CHR1:3793777 | 1,8935870695866E-06 | 1,24630531771756E-05 |
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| CHR1 | 4344588 | CHR1:4344588 | 0,0013006059524515 | 0,00690817274566469 |
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Table S10

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| CHR1 | 4763595 | CHR1:4763595 | 0,0012948143635315 | 0,00687969053842549 |
| CHR1 | 4774344 | CHR1:4774344 | 5,5768026453473E-06 | 3,50532117254733E-05 |
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| CHR1 | 4776759 | CHR1:4776759 | 8,7247845070348E-36 | 4,26509909803483E-34 |
| CHR1 | 4793839 | CHR1:4793839 | 0,0003428934639762 | 0,00191021916054875 |
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| CHR1 | 4801398 | CHR1:4801398 | 0,0047276391452751 | 0,0235052938892165 |
| CHR1 | 4812405 | CHR1:4812405 | 3,2261299379718E-15 | 5,38844E-14 |
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| CHR1 | 4991672 | CHR1:4991672 | 8,66767239149E-26 | 2,80447209790262E-24 |
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| CHR1 | 5172643 | CHR1:5172643 | 0,0052041840767956 | 0,0256982517521127 |
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Table S10

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Table S10

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| CHR1 | 9433719 | CHR1:9433719 | 0,0062270524459593 | 0,0303621492084238 |
| CHR1 | 9437886 | CHR1:9437886 | 4,3157745031E-10 | 4,49362716737E-09 |

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| CHR1 | 9518511 | CHR1:9518511 | 5,5861523105306E-07 | 3,90835586848796E-06 |
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| CHR1 | 9531002 | CHR1:9531002 | 1,2723700685106E-17 | 2,57415039499473E-16 |
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| CHR1 | 9659926 | CHR1:9659926 | 2,638844E-14 | 4,0909902E-13 |
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| CHR1 | 9749721 | CHR1:9749721 | 0,0020215059438477 | 0,0105253420899772 |
| CHR1 | 9749745 | CHR1:9749745 | 0,0081548223061183 | 0,0389021946576144 |
| CHR1 | 9749757 | CHR1:9749757 | 0,0105698448085448 | 0,0492466970886105 |
| CHR1 | 9749799 | CHR1:9749799 | 1,580145688E-11 | 1,9092930719E-10 |
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| CHR1 | 9757167 | CHR1:9757167 | 0,0020253741981332 | 0,0105450546758011 |
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| CHR1 | 9763678 | CHR1:9763678 | 0,0010005308639511 | 0,00537083225311373 |
| CHR1 | 9765561 | CHR1:9765561 | 1,014068181358E-08 | 8,939151144965E-08 |
| CHR1 | 9776955 | CHR1:9776955 | 1,9303728241565E-05 | 0,00011639332990571 |
| CHR1 | 9777000 | CHR1:9777000 | 1,6830090285633E-15 | 2,882766E-14 |
| CHR1 | 9782441 | CHR1:9782441 | 6,15125442E-12 | 7,746460404E-11 |
| CHR1 | 9789359 | CHR1:9789359 | 7,1131194501111E-05 | 0,00041377296261421 |
| CHR1 | 9813637 | CHR1:9813637 | 1,28420619E-12 | 1,725710953E-11 |
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| CHR1 | 9873153 | CHR1:9873153 | 8,641504854212E-08 | 6,7428768936364E-07 |
| CHR1 | 9880665 | CHR1:9880665 | 5,6276794695521E-07 | 3,93676595735581E-06 |
| CHR1 | 9880695 | CHR1:9880695 | 1,59063578E-12 | 2,119938393E-11 |
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| CHR1 | 9887681 | CHR1:9887681 | 1,1674300770974E-06 | 7,85917580909405E-06 |
| CHR1 | 9894643 | CHR1:9894643 | 1,14995046166E-09 | 1,139068350298E-08 |
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| CHR1 | 9894688 | CHR1:9894688 | 5,25456401145E-09 | 4,791057885006E-08 |
| CHR1 | 9938959 | CHR1:9938959 | 2,47650706275E-09 | 2,352048871347E-08 |
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| CHR1 | 1E+07 | CHR1:10016729 | 0,0025739638405786 | 0,0132410540583405 |
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| CHR1 | 1E+07 | CHR1:10016780 | 1,7672870961977E-07 | 1,32095825071378E-06 |
| CHR1 | 1E+07 | CHR1:10016782 | 2,1023189201539E-06 | 1,37739432597585E-05 |
| CHR1 | 1E+07 | CHR1:10030855 | 6,6648576E-13 | 9,16560888E-12 |
| CHR1 | 1E+07 | CHR1:10030996 | 1,1901138200234E-06 | 8,0038993272053E-06 |
| CHR1 | 1E+07 | CHR1:10036082 | 0,0002231106613844 | 0,00125756580755282 |
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| CHR1 | 1E+07 | CHR1:10049553 | 6,1992945946532E-07 | 4,31427163853136E-06 |
| CHR1 | 1E+07 | CHR1:10049673 | 1,4029391679521E-37 | 7,38775666573564E-36 |
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| CHR1 | 1E+07 | CHR1:10063853 | 0,0034116149757202 | 0,0172961541302277 |
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| CHR1 | 10518540 | CHR1:10518540 | 5,252286157E-11 | 6,047179604E-10 |
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| CHR1 | 10590188 | CHR1:10590188 | 0,0064135894733333 | 0,0312016735674834 |
| CHR1 | 10591315 | CHR1:10591315 | 8,9819626500655E-15 | 1,4507018E-13 |
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| CHR1 | 10672647 | CHR1:10672647 | 5,9165471E-13 | 8,16717894E-12 |
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| CHR1 | 10712719 | CHR1:10712719 | 0,0044540528590386 | 0,0222373137036257 |
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| CHR1 10955781 | CHR1:10955781 | 5,0223626615387E-05 | 0,0002949628783382 |
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| CHR1 11049421 | CHR1:11049421 | 6,045282E-14 | 9,1076998E-13 |
| CHR1 11123310 | CHR1:11123310 | 9,9845481339171E-15 | 1,6043467E-13 |
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| CHR1 11183580 | CHR1:11183580 | 2,6351608E-13 | 3,75645909E-12 |
| CHR1 11203232 | CHR1:11203232 | 1,7344474818725E-05 | 0,00010501937402045 |
| CHR1 11203277 | CHR1:11203277 | 7,578850123E-11 | 8,5772114477E-10 |
| CHR1 11213625 | CHR1:11213625 | 0,0060434825591791 | 0,0295372305197084 |
| CHR1 11221839 | CHR1:11221839 | 3,0834592280518E-05 | 0,00018347791522434 |
| CHR1 11221891 | CHR1:11221891 | 7,4623095811133E-05 | 0,00043343660356869 |
| CHR1 11223312 | CHR1:11223312 | 1,275961428962E-08 | 1,1102752051345E-07 |
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| CHR1 11248059 | CHR1:11248059 | 0,0002842782442943 | 0,00159163295234609 |
| CHR1 11248072 | CHR1:11248072 | 0,0020877704828178 | 0,0108540532824891 |
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Table S10

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| CHR1 14816670 | CHR1:14816670 | 0,0019232452800685 | 0,0100405755188631 |
| CHR1 14816694 | CHR1:14816694 | 0,0093841352130522 | 0,044191146854222 |
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| CHR1 15214432 | CHR1:15214432 | 0,0001053042236188 | 0,00060587965868788 |
| CHR1 15217768 | CHR1:15217768 | 0,0094435798448044 | 0,0444465946850697 |
| CHR1 15234017 | CHR1:15234017 | 3,0507134966881E-16 | 5,58187411690683E-15 |
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| CHR1 15407795 | CHR1:15407795 | 9,184799949722E-08 | 7,1355405849927E-07 |
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| CHR1 15418199 | CHR1:15418199 | 5,764678281E-11 | 6,609817335E-10 |
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| CHR1 15475854 | CHR1:15475854 | 9,85854999E-12 | 1,2161945089E-10 |
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| CHR1 15475891 | CHR1:15475891 | 0,0004039131772909 | 0,00224032213678199 |
| CHR1 15475908 | CHR1:15475908 | 0,0012686191363153 | 0,00674749828911674 |
| CHR1 15475939 | CHR1:15475939 | 0,0005087440696859 | 0,00279780872943337 |
| CHR1 15475947 | CHR1:15475947 | 1,5975444195689E-16 | 2,99131327685772E-15 |
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| CHR1 15512777 | CHR1:15512777 | 0,0012557293641045 | 0,00668115758142306 |
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| CHR1 15568074 | CHR1:15568074 | 2,4806628168072E-06 | 1,61283333173664E-05 |
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| CHR1 15576532 | CHR1:15576532 | 0,0053722207829448 | 0,0264688956731259 |
| CHR1 15576544 | CHR1:15576544 | 0,0022500863841583 | 0,0116544404026779 |
| CHR1 15576559 | CHR1:15576559 | 9,5400890110762E-05 | 0,00055048056585602 |
| CHR1 15629209 | CHR1:15629209 | 0,0004949423941164 | 0,00272564801948027 |
| CHR1 15646471 | CHR1:15646471 | 0,0059804199637055 | 0,029247467479543 |
| CHR1 15675251 | CHR1:15675251 | 0,0004135495149473 | 0,00229218408204875 |
| CHR1 15675290 | CHR1:15675290 | 0,0092629614752776 | 0,0436782714363059 |
| CHR1 15675367 | CHR1:15675367 | 2,047864186E-11 | 2,4499662744E-10 |
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| CHR1 15693821 | CHR1:15693821 | 3,524332E-14 | 5,4101219E-13 |
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| CHR1 15761424 | CHR1:15761424 | 9,1303679850109E-16 | 1,602658E-14 |
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| CHR1 15771023 | CHR1:15771023 | 4,4969557275041E-20 | 1,07618915296606E-18 |
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| CHR1 15867231 | CHR1:15867231 | 0,0098293030737903 | 0,0460978891275652 |
| CHR1 15867236 | CHR1:15867236 | 1,496978631E-11 | 1,8125598202E-10 |
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| CHR1 15874571 | CHR1:15874571 | 6,0547921940329E-05 | 0,00035389540025521 |
| CHR1 15893989 | CHR1:15893989 | 6,68206E-14 | 1,0029348E-12 |
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| CHR1 15902494 | CHR1:15902494 | 0,0096866251748951 | 0,0454886472459596 |
| CHR1 15912706 | CHR1:15912706 | 3,564659E-14 | 5,4707172E-13 |
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| CHR1 15979640 | CHR1:15979640 | 0,0023243307115553 | 0,012021026317476 |
| CHR1 15979651 | CHR1:15979651 | 0,0001510120094073 | 0,00086040946039766 |
| CHR1 15979673 | CHR1:15979673 | 3,5463397103895E-07 | 2,54679030727913E-06 |
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| CHR1 15993338 | CHR1:15993338 | 0,0089857425664033 | 0,0424898344424921 |
| CHR1 15993340 | CHR1:15993340 | 0,0089857425664033 | 0,0424898344424921 |
| CHR1 15993343 | CHR1:15993343 | 1,18175653214E-09 | 1,169218605968E-08 |
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| CHR1 15993350 | CHR1:15993350 | 0,0068758033523867 | 0,0332497316661558 |
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| CHR1 16005974 | CHR1:16005974 | 0,0047135221397656 | 0,0234378321003392 |
| CHR1 16006013 | CHR1:16006013 | 0,0098529046832488 | 0,0461967494152983 |
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| CHR1 16077690 | CHR1:16077690 | 0,0005864468007875 | 0,00321026046068028 |
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| CHR1 17348421 | CHR1:17348421 | 1,5008675198417E-07 | 1,13311786229215E-06 |
| CHR1 17359861 | CHR1:17359861 | 4,3361081605523E-06 | 2,7530078673342E-05 |
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| CHR1 17475315 | CHR1:17475315 | 0,0035998120126692 | 0,0181999012429821 |

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| CHR1 17475322 | CHR1:17475322 | 0,0007252185352148 | 0,00394030282533541 |
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| CHR1 17475343 | CHR1:17475343 | 4,6410905397974E-15 | 7,67183E-14 |
| CHR1 17475353 | CHR1:17475353 | 1,932295861E-11 | 2,3171106029E-10 |
| CHR1 17475379 | CHR1:17475379 | 6,9399975240475E-21 | 1,74589205909552E-19 |
| CHR1 17481453 | CHR1:17481453 | 5,4662753386737E-06 | 3,43938934835585E-05 |
| CHR1 17481581 | CHR1:17481581 | 0,0011663097266888 | 0,0062239913727595 |
| CHR1 17481597 | CHR1:17481597 | 2,49732654341E-08 | 2,0922554461205E-07 |
| CHR1 17481606 | CHR1:17481606 | 1,256334225307E-08 | 1,0943105498271E-07 |
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| CHR1 17495831 | CHR1:17495831 | 1,8392272473E-10 | 1,99269044177E-09 |
| CHR1 17504633 | CHR1:17504633 | 1,338112E-14 | 2,1211442E-13 |
| CHR1 17504678 | CHR1:17504678 | 2,126832E-13 | 3,05355547E-12 |
| CHR1 17529192 | CHR1:17529192 | 0,0001006652945796 | 0,0005801001032525 |
| CHR1 17529351 | CHR1:17529351 | 0,0001636424900432 | 0,00093055382880793 |
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| CHR1 17605945 | CHR1:17605945 | 4,5906490127944E-05 | 0,00027037617457423 |
| CHR1 17615530 | CHR1:17615530 | 0,0095864874969179 | 0,0450646097185283 |
| CHR1 17617182 | CHR1:17617182 | 4,6399521219237E-20 | 1,10854827805787E-18 |
| CHR1 17622741 | CHR1:17622741 | 0,0001187011097691 | 0,00068060858561634 |
| CHR1 17633956 | CHR1:17633956 | 0,0017601037137197 | 0,00922234793607843 |
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| CHR1 17717604 | CHR1:17717604 | 0,0005405929319464 | 0,00296609023101547 |
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| CHR1 17781337 | CHR1:17781337 | 2,9411900943799E-05 | 0,00017519120167783 |
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| CHR1 17816140 | CHR1:17816140 | 2,795534743E-11 | 3,2979799657E-10 |
| CHR1 17836782 | CHR1:17836782 | 7,2887877357362E-06 | 4,53823835784585E-05 |
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| CHR1 17886686 | CHR1:17886686 | 4,6039776E-13 | 6,41818901E-12 |
| CHR1 17886688 | CHR1:17886688 | 4,6039776E-13 | 6,41818901E-12 |
| CHR1 17886707 | CHR1:17886707 | 4,7405846E-13 | 6,59858294E-12 |
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| CHR1 17911045 | CHR1:17911045 | 3,356553423832E-08 | 2,7637196607642E-07 |
| CHR1 17923902 | CHR1:17923902 | 0,0001479427512969 | 0,00084333419067525 |
| CHR1 17923938 | CHR1:17923938 | 2,2998433340962E-06 | 1,50021575781904E-05 |
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| CHR1 17958260 | CHR1:17958260 | 0,0101304639602642 | 0,0473889584949429 |
| CHR1 17963391 | CHR1:17963391 | 0,0048455112286692 | 0,0240577587429765 |
| CHR1 17964112 | CHR1:17964112 | 1,064753141E-10 | 1,18524152706E-09 |
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| CHR1 17979086 | CHR1:17979086 | 3,9305243389009E-35 | 1,86249624299913E-33 |
| CHR1 17979087 | CHR1:17979087 | 4,4248491202034E-34 | 2,00983449676966E-32 |
| CHR1 17979135 | CHR1:17979135 | 0,0081929976243898 | 0,0390654142639958 |
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| CHR1 18122627 | CHR1:18122627 | 0,000315467537484 | 0,00176141193093355 |
| CHR1 18139147 | CHR1:18139147 | 3,1652102242E-10 | 3,3395793713E-09 |
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| CHR1 18154149 | CHR1:18154149 | 1,191359761497E-08 | 1,0406846884525E-07 |
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| CHR1 18154195 | CHR1:18154195 | 0,0044309904155934 | 0,022130789001654 |
| CHR1 18252051 | CHR1:18252051 | 2,482384E-14 | 3,8572907E-13 |
| CHR1 18252118 | CHR1:18252118 | 7,5711349808317E-15 | 1,2288719E-13 |
| CHR1 18264959 | CHR1:18264959 | 5,83625431E-12 | 7,362063045E-11 |
| CHR1 18264978 | CHR1:18264978 | 1,95111092E-12 | 2,576266072E-11 |
| CHR1 18266445 | CHR1:18266445 | 7,6435935E-13 | 1,045105331E-11 |
| CHR1 18276453 | CHR1:18276453 | 2,2448626841885E-06 | 1,46584263217433E-05 |
| CHR1 18276460 | CHR1:18276460 | 1,1651733293688E-05 | 7,14614005635957E-05 |
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| CHR1 18276484 | CHR1:18276484 | 4,204065364483E-06 | 2,67195182830648E-05 |
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| CHR1 18283685 | CHR1:18283685 | 4,8715567808424E-05 | 0,00028644718128285 |
| CHR1 18283689 | CHR1:18283689 | 0,00021940005248 | 0,00123773908791631 |
| CHR1 18286024 | CHR1:18286024 | 3,6737481063851E-19 | 8,27157771626388E-18 |
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| CHR1 18298704 | CHR1:18298704 | 8,15025489E-12 | 1,0140369036E-10 |
| CHR1 18303630 | CHR1:18303630 | 3,9671321448927E-05 | 0,00023441728999026 |
| CHR1 18333098 | CHR1:18333098 | 0,0009505002615575 | 0,00511533182398283 |
| CHR1 18333139 | CHR1:18333139 | 2,2405937725602E-05 | 0,00013447233161083 |
| CHR1 18333143 | CHR1:18333143 | 2,2405937725602E-05 | 0,00013447233161083 |
| CHR1 18336600 | CHR1:18336600 | 0,0101224589781144 | 0,0473549674365618 |
| CHR1 18341125 | CHR1:18341125 | 9,262261327E-11 | 1,0383401457E-09 |
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| CHR1 18376231 | CHR1:18376231 | 0,0010128094265986 | 0,00543401350372828 |
| CHR1 18377059 | CHR1:18377059 | 4,8128977436253E-07 | 3,39737854762647E-06 |
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| CHR1 18441834 | CHR1:18441834 | 2,84882393581E-09 | 2,685959185065E-08 |
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| CHR1 18529820 | CHR1:18529820 | 1,589606005464E-06 | 1,05511559193822E-05 |
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| CHR1 18590374 | CHR1:18590374 | 2,6269563416185E-21 | 6,81589390740661E-20 |
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| CHR1 18643033 | CHR1:18643033 | 0,000290693560092 | 0,0016265570668006 |
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| CHR1 18702867 | CHR1:18702867 | 8,0430059727243E-05 | 0,00046615188973629 |
| CHR1 18702889 | CHR1:18702889 | 0,0006995854192459 | 0,00380685396087881 |
| CHR1 18708186 | CHR1:18708186 | 0,0085633706222633 | 0,0406485099041097 |
| CHR1 18711397 | CHR1:18711397 | 0,0004997566639691 | 0,00275062446827629 |
| CHR1 18747567 | CHR1:18747567 | 1,1652808585E-10 | 1,28997788213E-09 |
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| CHR1 18770072 | CHR1:18770072 | 4,861752353E-11 | 5,6167059685E-10 |
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| CHR1 18805620 | CHR1:18805620 | 0,0034993571379055 | 0,017712974459495 |
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| CHR1 18985867 | CHR1:18985867 | 0,0001108329284822 | 0,00063654717614581 |
| CHR1 18985870 | CHR1:18985870 | 0,0001628049692777 | 0,0009259144498197 |
| CHR1 18985906 | CHR1:18985906 | 2,9530613528E-10 | 3,12783984768E-09 |
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| CHR1 19038056 | CHR1:19038056 | 0,0076371169744606 | 0,0366520444662852 |
| CHR1 19039955 | CHR1:19039955 | 0,0031003641850049 | 0,015796876643974 |
| CHR1 19045350 | CHR1:19045350 | 1,0711297575736E-07 | 8,2445292733583E-07 |
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| CHR1 19281979 | CHR1:19281979 | 0,0088338512102064 | 0,0418209551939713 |
| CHR1 19281991 | CHR1:19281991 | 0,0001437574511253 | 0,00081998661790662 |
| CHR1 19305877 | CHR1:19305877 | 0,0002995232930319 | 0,00167428789637061 |
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| CHR1 | 19376619 | CHR1:19376619 | 0,0009478985193349 | 0,0051021865352078 |
| CHR1 | 19386801 | CHR1:19386801 | 0,0030288108570282 | 0,0154550229671871 |
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| CHR1 | 19386947 | CHR1:19386947 | 3,7874425101386E-05 | 0,00022406792279345 |
| CHR1 | 19403865 | CHR1:19403865 | 6,097334642758E-08 | 4,8500665916109E-07 |
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| CHR1 | 19412353 | CHR1:19412353 | 4,0670492998679E-16 | 7,35643104070484E-15 |
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| CHR1 | 2E+07 | CHR1:19605050 | 4,24454335E-10 | 4,42161484322E-09 |
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| CHR1 | 2E+07 | CHR1:19656570 | 3,4609667703592E-07 | 2,48953987992908E-06 |
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| CHR1 | 2E+07 | CHR1:19673928 | 4,504812E-14 | 6,85451E-13 |
| CHR1 | 2E+07 | CHR1:19673935 | 2,958709E-14 | 4,5702979E-13 |
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| CHR1 | 2E+07 | CHR1:19706819 | 0,007658569787203 | 0,0367385002231242 |
| CHR1 | 2E+07 | CHR1:19730049 | 0,0006800683600987 | 0,00370409334269191 |
| CHR1 | 2E+07 | CHR1:19751269 | 7,4577199372872E-06 | 4,63981629771298E-05 |
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| CHR1 | 2E+07 | CHR1:19898840 | 7,353833107845E-16 | 1,300076E-14 |
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| CHR1 | 2E+07 | CHR1:19961817 | 2,56610861E-12 | 3,346275571E-11 |
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| CHR1 | 2E+07 | CHR1:20244025 | 0,0018372820727331 | 0,00960867500514717 |
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| CHR1 | 2E+07 | CHR1:20244080 | 2,604444394443E-08 | 2,1771620214969E-07 |
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| CHR1 20883224 | CHR1:20883224 | 0,0062055226591629 | 0,0302698346319917 |
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| CHR1 20897862 | CHR1:20897862 | 8,092489E-14 | 1,20545931E-12 |
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| CHR1 20939288 | CHR1:20939288 | 0,0002369313604901 | 0,00133312228262956 |
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| CHR1 20939545 | CHR1:20939545 | 4,695372931459E-08 | 3,7863291248116E-07 |
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| CHR1 21395681 | CHR1:21395681 | 9,2781953372668E-07 | 6,32615440349375E-06 |
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Table S10

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Table S10

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| CHR1 69386106 | CHR1:69386106 | 3,8184439286524E-05 | 0,00022583947082632 |
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| CHR1 69402092 | CHR1:69402092 | 4,63536624773E-09 | 4,25674881555E-08 |
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| CHR1 | 7E+07 | CHR1:69555653 | 1,4588170632627E-47 | 1,13920108365931E-45 |
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| CHR1 | 7E+07 | CHR1:69979970 | 2,8607357039201E-17 | 5,63728040010991E-16 |
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Table S10

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| CHR1 79314455 | CHR1:79314455 | 6,8046756301969E-17 | 1,30598642820235E-15 |
| CHR1 79340307 | CHR1:79340307 | 2,0356043762E-10 | 2,19414400758E-09 |
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| CHR1 79464255 | CHR1:79464255 | 4,0409090097474E-06 | 2,57271875757133E-05 |
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| CHR1 | 8E+07 | CHR1:79541798 | 1,5479857361619E-06 | 1,02844803636974E-05 |
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| CHR1 | 8E+07 | CHR1:79576459 | 1,1220932053213E-06 | 7,57305127913692E-06 |
| CHR1 | 8E+07 | CHR1:79588266 | 2,7810775273512E-07 | 2,02696337148074E-06 |
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| CHR1 | 8E+07 | CHR1:79617485 | 9,9560375743862E-18 | 2,02913368063245E-16 |
| CHR1 | 8E+07 | CHR1:79617549 | 2,2733031774608E-24 | 6,92550011712794E-23 |
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| CHR1 | 8E+07 | CHR1:79617557 | 1,5385409576976E-33 | 6,81919855861639E-32 |
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| CHR2 17664764 | CHR2:17664764 | 7,8730879089326E-15 | 1,2762664E-13 |
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| CHR2 18048002 | CHR2:18048002 | 0,007487444635441 | 0,0359808712805689 |
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| CHR2 18175184 | CHR2:18175184 | 1,2217039395691E-05 | 7,48104048000251E-05 |
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| CHR2 18843166 | CHR2:18843166 | 4,3455472659697E-41 | 2,6546345792233E-39 |
| CHR2 18858898 | CHR2:18858898 | 5,369767962712E-08 | 4,2990665398275E-07 |
| CHR2 18898103 | CHR2:18898103 | 1,155491E-14 | 1,8435096E-13 |
| CHR2 18898208 | CHR2:18898208 | 0,0027742996179824 | 0,0142123279470954 |
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| CHR2 18917457 | CHR2:18917457 | 5,8200528474268E-17 | 1,12221996445309E-15 |
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| CHR2 19158699 | CHR2:19158699 | 0,0003938808682018 | 0,00218628519653591 |
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| CHR2 19324241 | CHR2:19324241 | 0,0081612048729601 | 0,03893119400429 |
| CHR2 19350827 | CHR2:19350827 | 8,3701425571622E-15 | 1,3539315E-13 |
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| CHR2 | 2E+07 | CHR2:19507940 | 2,9867576781707E-07 | 2,16640458922638E-06 |
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| CHR2 38277604 | CHR2:38277604 | 7,9382152364786E-15 | 1,2866612E-13 |
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| CHR2 43337796 | CHR2:43337796 | 9,7593599858306E-17 | 1,8550162083948E-15 |
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| CHR2 43457314 | CHR2:43457314 | 1,0103509185E-10 | 1,1284055964E-09 |
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| CHR2 44596829 | CHR2:44596829 | 0,0104013777730878 | 0,0485482187301318 |
| CHR2 44596837 | CHR2:44596837 | 5,19939528295E-09 | 4,742891147007E-08 |
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| CHR2 44619307 | CHR2:44619307 | 3,43949134E-12 | 4,427999776E-11 |
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| CHR2 44690623 | CHR2:44690623 | 0,0068842103253836 | 0,0332828545725175 |
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| CHR2 44725464 | CHR2:44725464 | 0,0016951457545866 | 0,00889835282195404 |
| CHR2 44725468 | CHR2:44725468 | 0,0019488177644328 | 0,0101683482337494 |
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| CHR2 44732878 | CHR2:44732878 | 1,3204072717326E-07 | 1,00438525489656E-06 |
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| CHR2 49042178 | CHR2:49042178 | 6,9435860517464E-16 | 1,230603E-14 |

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| CHR2 49050372 | CHR2:49050372 | 0,0094974163709587 | 0,044673742265817 |
| CHR2 49051975 | CHR2:49051975 | 1,2622757495101E-36 | 6,38986608689053E-35 |
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| CHR2 49081584 | CHR2:49081584 | 5,544767120534E-101 | 2,03136504008709E-97 |
| CHR2 49081689 | CHR2:49081689 | 1,1851826266539E-21 | 3,13017594856229E-20 |
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| CHR2 49157134 | CHR2:49157134 | 7,9728827540123E-19 | 1,75807891854382E-17 |
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| CHR2 49444887 | CHR2:49444887 | 7,247547E-14 | 1,08451005E-12 |
| CHR2 49480135 | CHR2:49480135 | 8,251759447832E-08 | 6,4548673450359E-07 |
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| CHR2 49487691 | CHR2:49487691 | 8,0104905529033E-26 | 2,59511154913094E-24 |
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| CHR2 49499906 | CHR2:49499906 | 1,9372814E-13 | 2,79361118E-12 |
| CHR2 5E+07 | CHR2:49538736 | 3,1169182651E-10 | 3,29079328563E-09 |

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| CHR2 | 5E+07 | CHR2:49541616 | 2,3144565191121E-15 | 3,914154E-14 |
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| CHR2 | 5E+07 | CHR2:49547139 | 9,2126953863408E-43 | 5,99643586758144E-41 |
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| CHR2 | 5E+07 | CHR2:49560941 | 2,466554338208E-20 | 6,0093849518662E-19 |
| CHR2 | 5E+07 | CHR2:49563977 | 2,59200401992E-09 | 2,456101946899E-08 |
| CHR2 | 5E+07 | CHR2:49569620 | 7,0884914047734E-15 | 1,1528689E-13 |
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| CHR2 | 5E+07 | CHR2:49569835 | 0,0076949325117867 | 0,0369005094178483 |
| CHR2 | 5E+07 | CHR2:49583439 | 0,0015049626269209 | 0,00794588787107538 |
| CHR2 | 5E+07 | CHR2:49583458 | 0,0013547265427397 | 0,00718194943328246 |
| CHR2 | 5E+07 | CHR2:49583539 | 0,0028330115768135 | 0,0144974621637431 |
| CHR2 | 5E+07 | CHR2:49591626 | 0,0042773094161578 | 0,0213945815480721 |
| CHR2 | 5E+07 | CHR2:49597051 | 4,7020300256828E-24 | 1,40704270721862E-22 |
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| CHR2 | 5E+07 | CHR2:49597564 | 6,4190021003222E-49 | 5,33080663415682E-47 |
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| CHR2 | 5E+07 | CHR2:49719209 | 3,585579516E-09 | 3,340557534254E-08 |
| CHR2 | 5E+07 | CHR2:49719228 | 1,403291685723E-08 | 1,2148880993977E-07 |
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| CHR2 | 5E+07 | CHR2:49787224 | 3,713933496082E-30 | 1,43482712423957E-28 |
| CHR2 | 5E+07 | CHR2:49789843 | 1,1963705856637E-21 | 3,15907368918315E-20 |
| CHR2 | 5E+07 | CHR2:49789857 | 4,4834263412082E-47 | 3,43626624388181E-45 |
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| CHR2 | 5E+07 | CHR2:49960756 | 1,4802659583421E-06 | 9,85396648885951E-06 |
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| CHR2 | 5E+07 | CHR2:50333426 | 9,88728266E-12 | 1,2196217602E-10 |
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| CHR2 | 5E+07 | CHR2:50411159 | 4,5147347865298E-37 | 2,33052281804664E-35 |
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| CHR2 | 5E+07 | CHR2:50427677 | 8,19200516417E-09 | 7,30472783154E-08 |
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| CHR2 | 5E+07 | CHR2:50440441 | 1,5823016481824E-36 | 7,98153535948819E-35 |
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| CHR2 | 5E+07 | CHR2:50449334 | 0,0014639095726621 | 0,00773837675535278 |
| CHR2 | 5E+07 | CHR2:50449375 | 6,263556E-14 | 9,4221553E-13 |
| CHR2 | 5E+07 | CHR2:50449380 | 3,3342259723251E-15 | 5,56319E-14 |
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| CHR2 | 50531741 | CHR2:50531741 | 1,9468466873697E-26 | 6,45884648093096E-25 |
| CHR2 | 50531837 | CHR2:50531837 | 1,0136322281463E-21 | 2,68761357431886E-20 |
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| CHR2 | 50630713 | CHR2:50630713 | 1,0354184067238E-48 | 8,53255303355797E-47 |
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| CHR2 | 50737557 | CHR2:50737557 | 1,5621341751E-10 | 1,70312604884E-09 |
| CHR2 | 50737605 | CHR2:50737605 | 9,6831398223897E-06 | 5,97076510567885E-05 |
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| CHR2 | 50760422 | CHR2:50760422 | 0,0105650762404625 | 0,0492266196423463 |
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| CHR2 54244126 | CHR2:54244126 | 2,1272572966401E-07 | 1,57378009959427E-06 |
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| CHR2 | 6E+07 | CHR2:60062245 | 7,08116953E-10 | 7,18454631259E-09 |
| CHR2 | 6E+07 | CHR2:60062361 | 1,011556E-14 | 1,624584E-13 |
| CHR2 | 6E+07 | CHR2:60067241 | 1,838929440578E-08 | 1,5673805338879E-07 |
| CHR2 | 6E+07 | CHR2:60075759 | 0,0052290409418816 | 0,0258130423396638 |

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| CHR2 | 6E+07 | CHR2:60075781 | 1,08815645151E-09 | 1,080781262545E-08 |
| CHR2 | 6E+07 | CHR2:60098991 | 1,7841306841627E-07 | 1,33238297598577E-06 |
| CHR2 | 6E+07 | CHR2:60107887 | 1,3493263967769E-17 | 2,72296785059363E-16 |
| CHR2 | 6E+07 | CHR2:60119535 | 9,1274986874102E-07 | 6,23102549748798E-06 |
| CHR2 | 6E+07 | CHR2:60119549 | 4,5217518260726E-06 | 2,86604858081146E-05 |
| CHR2 | 6E+07 | CHR2:60119598 | 4,722030685458E-07 | 3,33580730892429E-06 |
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| CHR2 | 6E+07 | CHR2:60129605 | 2,21363923961E-09 | 2,11555408436E-08 |
| CHR2 | 6E+07 | CHR2:60149488 | 4,519727E-14 | 6,8755719E-13 |
| CHR2 | 6E+07 | CHR2:60149500 | 3,0017821725465E-24 | 9,0800547080626E-23 |
| CHR2 | 6E+07 | CHR2:60149521 | 1,9534217728585E-40 | 1,16015519603882E-38 |
| CHR2 | 6E+07 | CHR2:60149542 | 0,0021509469453659 | 0,011164393299447 |
| CHR2 | 6E+07 | CHR2:60159334 | 8,0048370709869E-28 | 2,8190613387182E-26 |
| CHR2 | 6E+07 | CHR2:60159382 | 6,8554725051408E-43 | 4,50560206033663E-41 |
| CHR2 | 6E+07 | CHR2:60159424 | 3,6707308606383E-40 | 2,15710112101443E-38 |
| CHR2 | 6E+07 | CHR2:60159448 | 2,9800339921304E-20 | 7,20699469334057E-19 |
| CHR2 | 6E+07 | CHR2:60159460 | 2,11332092E-12 | 2,779287946E-11 |
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| CHR2 | 6E+07 | CHR2:60172888 | 5,5312655660066E-31 | 2,2046830189655E-29 |
| CHR2 | 6E+07 | CHR2:60174521 | 1,9451661250666E-24 | 5,9512986491689E-23 |
| CHR2 | 6E+07 | CHR2:60175604 | 3,07338270488E-09 | 2,886431533977E-08 |
| CHR2 | 6E+07 | CHR2:60175648 | 4,1826331262566E-39 | 2,34609856786639E-37 |
| CHR2 | 6E+07 | CHR2:60187068 | 0,0104848547161287 | 0,0488969083824553 |
| CHR2 | 6E+07 | CHR2:60187378 | 4,04997651108E-09 | 3,749788707724E-08 |
| CHR2 | 6E+07 | CHR2:60187406 | 3,2626061133E-10 | 3,43781468386E-09 |
| CHR2 | 6E+07 | CHR2:60187480 | 9,7914535719E-10 | 9,77582445115E-09 |
| CHR2 | 6E+07 | CHR2:60190077 | 0,0021125986496805 | 0,0109751220263868 |
| CHR2 | 6E+07 | CHR2:60190107 | 0,0007253538388167 | 0,0039408709792918 |
| CHR2 | 6E+07 | CHR2:60193119 | 1,5537009E-13 | 2,25927986E-12 |
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| CHR2 | 6E+07 | CHR2:60205292 | 2,2633203594138E-15 | 3,834755E-14 |
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| CHR2 | 6E+07 | CHR2:60217415 | 8,552225047526E-36 | 4,18233812631207E-34 |
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| CHR2 | 6E+07 | CHR2:60221654 | 8,2213149792499E-25 | 2,55744326349907E-23 |
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| CHR2 | 6E+07 | CHR2:60223378 | 1,9778028331947E-15 | 3,368359E-14 |
| CHR2 | 6E+07 | CHR2:60223381 | 1,5355245077885E-39 | 8,80557379298638E-38 |
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| CHR2 | 6E+07 | CHR2:60264360 | 1,9496194519232E-18 | 4,19516620612266E-17 |
| CHR2 | 6E+07 | CHR2:60281268 | 1,1404620876981E-22 | 3,16459102348167E-21 |
| CHR2 | 6E+07 | CHR2:60282922 | 3,4559615E-13 | 4,86593457E-12 |
| CHR2 | 6E+07 | CHR2:60284833 | 3,5255031730718E-07 | 2,53267770949146E-06 |
| CHR2 | 6E+07 | CHR2:60284894 | 2,4317894681223E-07 | 1,78629814705537E-06 |
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| CHR2 | 6E+07 | CHR2:60323961 | 2,8194025280118E-70 | 6,28726763746624E-68 |
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| CHR2 | 6E+07 | CHR2:60331340 | 3,9983481517063E-44 | 2,74752514336839E-42 |
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| CHR2 | 6E+07 | CHR2:60337318 | 3,6110205939328E-31 | 1,45239371285141E-29 |
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| CHR2 | 6E+07 | CHR2:60337340 | 2,3441567775249E-32 | 9,9168427185129E-31 |
| CHR2 | 6E+07 | CHR2:60337371 | 1,4250793528E-10 | 1,56126794264E-09 |
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| CHR2 | 6E+07 | CHR2:60382216 | 0,0003785337055293 | 0,00210355744090739 |
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| CHR2 | 6E+07 | CHR2:60426831 | 4,0034717919641E-37 | 2,07412190110949E-35 |
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| CHR2 | 6E+07 | CHR2:60494427 | 2,9741053138174E-29 | 1,110849559756E-27 |
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| CHR2 | 60552094 | CHR2:60552094 | 4,3977850393617E-33 | 1,91414116317771E-31 |
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| CHR2 | 60591410 | CHR2:60591410 | 3,2893611562124E-69 | 6,89180284730933E-67 |
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| CHR2 | 60591429 | CHR2:60591429 | 2,5797955793674E-51 | 2,36112982272937E-49 |
| CHR2 | 60591441 | CHR2:60591441 | 3,777345625848E-15 | 6,275591E-14 |
| CHR2 | 60591463 | CHR2:60591463 | 3,0968868751501E-17 | 6,0820695292713E-16 |
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| CHR2 | 60616907 | CHR2:60616907 | 2,0357203439199E-29 | 7,65933806042044E-28 |
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| CHR2 60790015 | CHR2:60790015 | 4,7812801005E-10 | 4,95017877179E-09 |
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| CHR2 | 7E+07 | CHR2:69505631 | 1,1503090281E-10 | 1,27516534218E-09 |
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| CHR2 | 7E+07 | CHR2:69634803 | 3,9273215823E-09 | 3,642800997473E-08 |
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| CHR2 | 7E+07 | CHR2:69818113 | 4,09346756E-12 | 5,229499636E-11 |
| CHR2 | 7E+07 | CHR2:69821889 | 2,142453109404E-08 | 1,810797244436E-07 |
| CHR2 | 7E+07 | CHR2:69849955 | 3,2076844936637E-18 | 6,80405863027339E-17 |
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| CHR2 | 7E+07 | CHR2:69899558 | 4,7398069720465E-05 | 0,00027891773703105 |
| CHR2 | 7E+07 | CHR2:69918632 | 4,1612840483754E-27 | 1,4213656022987E-25 |
| CHR2 | 7E+07 | CHR2:69920708 | 1,966709056674E-06 | 1,29230946393368E-05 |
| CHR2 | 7E+07 | CHR2:69920920 | 1,1037247237659E-06 | 7,45496748340101E-06 |
| CHR2 | 7E+07 | CHR2:69920928 | 1,2951374889377E-06 | 8,67110508140344E-06 |
| CHR2 | 7E+07 | CHR2:69924713 | 3,8030379741333E-72 | 9,48724794228099E-70 |
| CHR2 | 7E+07 | CHR2:69932704 | 8,459557961295E-08 | 6,6089491231768E-07 |
| CHR2 | 7E+07 | CHR2:69932923 | 3,3353608336462E-30 | 1,29090444580226E-28 |
| CHR2 | 7E+07 | CHR2:69944726 | 6,058631578E-11 | 6,9326078364E-10 |

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| CHR2 | 7E+07 | CHR2:69945088 | 0,0013338322462606 | 0,0070743977406007 |
| CHR2 | 7E+07 | CHR2:69949348 | 2,97154346769E-09 | 2,794676258941E-08 |
| CHR2 | 7E+07 | CHR2:69949353 | 1,5899131238282E-53 | 1,58281529738253E-51 |
| CHR2 | 7E+07 | CHR2:69963441 | 1,63764436796E-09 | 1,591171850279E-08 |
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| CHR2 | 7E+07 | CHR2:69974162 | 6,94425E-14 | 1,0408258E-12 |
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| CHR2 | 7E+07 | CHR2:70001664 | 1,2746560848638E-06 | 8,54200776009544E-06 |
| CHR2 | 7E+07 | CHR2:70006493 | 1,8776705624639E-28 | 6,79284638080657E-27 |
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| CHR2 | 7E+07 | CHR2:70061729 | 2,5347792707123E-07 | 1,85673848607303E-06 |
| CHR2 | 7E+07 | CHR2:70070747 | 1,0407536594902E-15 | 1,815408E-14 |
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| CHR2 | 7E+07 | CHR2:70079205 | 1,7846687268213E-22 | 4,90649973191806E-21 |
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| CHR2 | 7E+07 | CHR2:70114916 | 0,0013230920091576 | 0,00702237149195863 |
| CHR2 | 7E+07 | CHR2:70115009 | 5,2772000835084E-41 | 3,21000465231435E-39 |
| CHR2 | 7E+07 | CHR2:70115015 | 2,14481085927E-08 | 1,8125510606335E-07 |
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| CHR2 | 7E+07 | CHR2:70115114 | 8,9448032774369E-32 | 3,69863721460607E-30 |
| CHR2 | 7E+07 | CHR2:70135633 | 3,2625547368334E-39 | 1,83724673311577E-37 |
| CHR2 | 7E+07 | CHR2:70149328 | 1,3604867258702E-15 | 2,348209E-14 |
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| CHR2 | 7E+07 | CHR2:70162756 | 1,8663691892355E-76 | 6,19987537020007E-74 |
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| CHR2 | 7E+07 | CHR2:70188260 | 0,0002480058196778 | 0,0013942715813831 |
| CHR2 | 7E+07 | CHR2:70191718 | 0,0098900309114232 | 0,0463623446648355 |
| CHR2 | 7E+07 | CHR2:70191755 | 2,4967944721878E-65 | 4,34988411951464E-63 |
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| CHR2 | 7E+07 | CHR2:70218205 | 8,6091427484536E-17 | 1,64174201207684E-15 |
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| CHR2 | 7E+07 | CHR2:70373025 | 9,417930749699E-08 | 7,308243587389E-07 |
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| CHR2 | 70503251 | CHR2:70503251 | 4,65215421021E-09 | 4,271859593274E-08 |
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| CHR2 70540553 | CHR2:70540553 | 1,6506139305892E-37 | 8,67062561449403E-36 |
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| CHR2 70575680 | CHR2:70575680 | 1,0049186042368E-60 | 1,38853112099419E-58 |
| CHR2 70575695 | CHR2:70575695 | 6,031624E-14 | 9,0881899E-13 |
| CHR2 70580750 | CHR2:70580750 | 4,1982614524E-09 | 3,878401114802E-08 |
| CHR2 70591780 | CHR2:70591780 | 4,366569025234E-16 | 7,86823093396044E-15 |
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| CHR2 70596516 | CHR2:70596516 | 6,31113478473E-09 | 5,707350714238E-08 |
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| CHR2 70658927 | CHR2:70658927 | 1,4774924523916E-22 | 4,07685538428909E-21 |
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| CHR2 70732753 | CHR2:70732753 | 1,0212854E-13 | 1,50990792E-12 |
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| CHR2 70752062 | CHR2:70752062 | 2,8898161066591E-32 | 1,22091159893364E-30 |
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| CHR2 70859061 | CHR2:70859061 | 1,3540820422134E-35 | 6,54702752122237E-34 |
| CHR2 70859082 | CHR2:70859082 | 4,6953064817263E-43 | 3,10018369525932E-41 |
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| CHR2 70894905 | CHR2:70894905 | 1,641006904342E-82 | 7,54186775301969E-80 |
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| CHR2 70942488 | CHR2:70942488 | 1,85975269095E-09 | 1,796224682116E-08 |
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| CHR2 70949494 | CHR2:70949494 | 0,0085426703699637 | 0,0405652671254527 |
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| CHR2 70949525 | CHR2:70949525 | 5,192345505222E-20 | 1,23798531500017E-18 |
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| CHR2 70949638 | CHR2:70949638 | 4,5418800556E-10 | 4,71641213261E-09 |
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| CHR2 74629215 | CHR2:74629215 | 1,8066497774265E-19 | 4,16051845744449E-18 |
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| CHR2 77775309 | CHR2:77775309 | 6,736858707E-11 | 7,6723839387E-10 |
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| CHR2 78042341 | CHR2:78042341 | 0,0062321372226692 | 0,0303834757376814 |
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| CHR2 78229418 | CHR2:78229418 | 9,88839423287E-09 | 8,728156883803E-08 |
| CHR2 78235096 | CHR2:78235096 | 0,0100524996032591 | 0,0470482812580904 |
| CHR2 78235139 | CHR2:78235139 | 0,0012903923608834 | 0,00685818455086955 |
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| CHR2 78237590 | CHR2:78237590 | 9,5334118E-13 | 1,29384179E-11 |
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| CHR2 78237777 | CHR2:78237777 | 0,0041923065257647 | 0,0210024811199914 |
| CHR2 78237919 | CHR2:78237919 | 1,4504235295394E-06 | 9,66383772799125E-06 |
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| CHR2 78242993 | CHR2:78242993 | 5,6090607438538E-15 | 9,211345E-14 |
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| CHR2 78265825 | CHR2:78265825 | 3,6271156432198E-05 | 0,00021481081860046 |
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| CHR2 | 8E+07 | CHR2:79522618 | 0,0012934155737268 | 0,0068731128031957 |
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| CHR2 | 8E+07 | CHR2:79649967 | 0,0001952400859014 | 0,00110489275376033 |
| CHR2 | 8E+07 | CHR2:79695742 | 1,6987539186977E-06 | 1,12395624987109E-05 |
| CHR2 | 8E+07 | CHR2:79698831 | 1,15360725422E-09 | 1,142337556356E-08 |
| CHR2 | 8E+07 | CHR2:79698834 | 8,648791189566E-08 | 6,7481516994161E-07 |
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| CHR2 | 8E+07 | CHR2:79747128 | 1,2816532592548E-15 | 2,216318E-14 |
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| CHR2 | 8E+07 | CHR2:79757455 | 1,734803E-14 | 2,7263768E-13 |
| CHR2 | 8E+07 | CHR2:79757456 | 1,734803E-14 | 2,7263768E-13 |
| CHR2 | 8E+07 | CHR2:79771627 | 4,2604782190052E-06 | 2,7067324958229E-05 |
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| CHR2 | 8E+07 | CHR2:79789482 | 0,0045980505472353 | 0,0229080713144207 |
| CHR2 | 8E+07 | CHR2:79805935 | 2,729978855E-11 | 3,2230138906E-10 |
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| CHR2 | 8E+07 | CHR2:79807868 | 0,003303231604472 | 0,016773865291807 |
| CHR2 | 8E+07 | CHR2:79815406 | 3,3913773689E-10 | 3,56617486569E-09 |
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| CHR2 | 8E+07 | CHR2:79855096 | 0,0002297372122514 | 0,00129400632729771 |
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| CHR2 | 8E+07 | CHR2:79888663 | 3,65092644E-12 | 4,685148541E-11 |
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| CHR2 | 8E+07 | CHR2:79917529 | 5,3716498049111E-07 | 3,76588188209256E-06 |
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| CHR2 | 8E+07 | CHR2:79939471 | 7,1537232511719E-05 | 0,00041607827446318 |
| CHR2 | 8E+07 | CHR2:79939479 | 0,0015889537496578 | 0,00836351523130691 |
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| CHR2 | 8E+07 | CHR2:79945823 | 0,00152199931851 | 0,00803319184226334 |
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| CHR2 | 8E+07 | CHR2:79950360 | 4,400618463172E-08 | 3,5621657577744E-07 |
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| CHR2 | 8E+07 | CHR2:79957862 | 1,1796655416349E-05 | 7,23087212945814E-05 |
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| CHR2 | 8E+07 | CHR2:79967665 | 2,7997958926678E-06 | 1,81031631454453E-05 |
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| CHR2 | 8E+07 | CHR2:79974009 | 0,005515612194709 | 0,0271336801713625 |
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| CHR2 | 8E+07 | CHR2:80002861 | 4,7884904E-13 | 6,66309477E-12 |
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| CHR2 | 8E+07 | CHR2:80018547 | 3,7103787836009E-07 | 2,65745025709226E-06 |
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| CHR2 | 8E+07 | CHR2:80053519 | 1,825386E-14 | 2,8655752E-13 |
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| CHR2 | 8E+07 | CHR2:80087128 | 5,8723274818197E-47 | 4,47935271479075E-45 |
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| CHR2 | 8E+07 | CHR2:80110566 | 0,0025204025116413 | 0,0129774971712327 |
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| CHR2 | 8E+07 | CHR2:80219640 | 0,0105735202481542 | 0,0492602417548803 |
| CHR2 | 8E+07 | CHR2:80239117 | 0,0032060414424403 | 0,0163111472525441 |
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| CHR2 | 8E+07 | CHR2:80335517 | 5,3418982844351E-05 | 0,00031324137171157 |
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| CHR2 | 80508905 | CHR2:80508905 | 1,4881513993901E-16 | 2,79382449761039E-15 |
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| CHR2 | 80945871 | CHR2:80945871 | 1,8146888047058E-05 | 0,00010969144957498 |
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| CHR2 | 81072514 | CHR2:81072514 | 5,976759040894E-08 | 4,7591748619428E-07 |
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| CHR3 | 40515972 | CHR3:40515972 | 1,129723883E-11 | 1,386076403E-10 |
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| CHR3 | 40666802 | CHR3:40666802 | 0,0057641457976764 | 0,028271720724747 |
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| CHR3 40827193 | CHR3:40827193 | 1,203561E-14 | 1,9173393E-13 |
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| CHR3 40913258 | CHR3:40913258 | 0,0083887451219741 | 0,0399082418753062 |
| CHR3 40927500 | CHR3:40927500 | 4,2457323057231E-31 | 1,70127820281669E-29 |
| CHR3 40942423 | CHR3:40942423 | 4,51352773E-12 | 5,748952945E-11 |
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| CHR3 | 5E+07 | CHR3:49502767 | 1,8107763268094E-07 | 1,35118013562114E-06 |
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| CHR3 | 5E+07 | CHR3:49546786 | 6,2905964532614E-07 | 4,37401296144158E-06 |
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| CHR3 | 5E+07 | CHR3:49550098 | 0,0002690780989253 | 0,00150969367439795 |
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| CHR3 | 5E+07 | CHR3:49550290 | 0,0016906867445787 | 0,00887603618668546 |
| CHR3 | 5E+07 | CHR3:49550304 | 0,0029442710025807 | 0,0150433993188522 |
| CHR3 | 5E+07 | CHR3:49550315 | 0,0016906867445787 | 0,00887603618668546 |
| CHR3 | 5E+07 | CHR3:49550317 | 0,0020112266814206 | 0,0104743731458982 |
| CHR3 | 5E+07 | CHR3:49550320 | 0,0020112266814206 | 0,0104743731458982 |
| CHR3 | 5E+07 | CHR3:49567005 | 7,7704618331589E-22 | 2,07188078302516E-20 |
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| CHR3 | 5E+07 | CHR3:49600550 | 3,9167021579649E-06 | 2,497484381148E-05 |
| CHR3 | 5E+07 | CHR3:49600653 | 5,5560819607343E-47 | 4,24823261428236E-45 |
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| CHR3 | 5E+07 | CHR3:49678435 | 6,2460461377222E-16 | 1,110355E-14 |
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| CHR3 | 5E+07 | CHR3:49678482 | 5,1380286020526E-07 | 3,61236822841426E-06 |
| CHR3 | 5E+07 | CHR3:49691591 | 4,2145889612343E-06 | 2,67837473139845E-05 |
| CHR3 | 5E+07 | CHR3:49691729 | 1,562481904741E-08 | 1,3448062977273E-07 |
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| CHR3 | 5E+07 | CHR3:49725566 | 1,3014836993757E-06 | 8,71131948386755E-06 |
| CHR3 | 5E+07 | CHR3:49732144 | 2,5342506261276E-06 | 1,64600489583229E-05 |
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| CHR3 | 5E+07 | CHR3:49884145 | 2,2484454009345E-46 | 1,68403569821741E-44 |
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| CHR3 | 5E+07 | CHR3:49948100 | 2,8049710922616E-07 | 2,04263640564083E-06 |
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| CHR3 | 5E+07 | CHR3:49992412 | 5,5742723067632E-16 | 9,95488950605445E-15 |
| CHR3 | 5E+07 | CHR3:49992441 | 5,2604694975205E-36 | 2,60132549679738E-34 |
| CHR3 | 5E+07 | CHR3:50010451 | 3,4823741045221E-27 | 1,19456238510526E-25 |
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| CHR3 | 5E+07 | CHR3:50020988 | 1,7590238E-12 | 2,334894687E-11 |
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| CHR3 | 5E+07 | CHR3:50250645 | 4,2237573910106E-18 | 8,85242385521959E-17 |
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| CHR3 | 5E+07 | CHR3:50367565 | 3,484154E-14 | 5,3516482E-13 |
| CHR3 | 5E+07 | CHR3:50367572 | 1,2567395E-13 | 1,83955958E-12 |
| CHR3 | 5E+07 | CHR3:50372725 | 9,021601E-14 | 1,33981324E-12 |
| CHR3 | 5E+07 | CHR3:50373954 | 2,5697489889324E-05 | 0,00015358723972493 |
| CHR3 | 5E+07 | CHR3:50373986 | 0,0036105847949078 | 0,0182514876341185 |
| CHR3 | 5E+07 | CHR3:50394405 | 9,968101E-14 | 1,47491319E-12 |
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| CHR3 | 5E+07 | CHR3:50489191 | 1,2852776488883E-31 | 5,27206418837823E-30 |
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| CHR3 59170671 | CHR3:59170671 | 0,0083121417870601 | 0,0395731771672586 |
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| CHR3 | 7E+07 | CHR3:69833490 | 8,9814205917105E-20 | 2,11000852944682E-18 |
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| CHR3 | 7E+07 | CHR3:69862830 | 0,0009835257767401 | 0,00528530207126687 |
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| CHR3 | 7E+07 | CHR3:69889149 | 0,0027041774522894 | 0,0138747210523712 |
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| CHR3 | 7E+07 | CHR3:69895384 | 0,006030151858055 | 0,0294749446117145 |
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| CHR3 | 7E+07 | CHR3:69899465 | 9,552164824878E-07 | 6,50258194239743E-06 |
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| CHR3 | 7E+07 | CHR3:69962704 | 0,0001969707625155 | 0,00111444098413958 |
| CHR3 | 7E+07 | CHR3:69962809 | 3,4218344961091E-06 | 2,19503090831751E-05 |
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| CHR3 | 7E+07 | CHR3:69967349 | 5,40130774958E-08 | 4,3224282980085E-07 |
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| CHR3 | 7E+07 | CHR3:70025936 | 0,0085594947202223 | 0,0406331202288144 |

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| CHR3 | 7E+07 | CHR3:70025942 | 1,4066572388569E-05 | 8,5759140572666E-05 |
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| CHR3 | 7E+07 | CHR3:70063338 | 0,0009025108078219 | 0,00486543823136271 |
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| CHR3 | 7E+07 | CHR3:70234174 | 1,2987505961904E-73 | 3,58133968164539E-71 |
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| CHR3 | 7E+07 | CHR3:70321581 | 0,0066003187437438 | 0,0320408068038371 |
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| CHR3 | 7E+07 | CHR3:70392961 | 0,0014051445272529 | 0,00743908575586321 |
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| CHR3 | 70629828 | CHR3:70629828 | 2,327478187E-11 | 2,7682115804E-10 |
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| CHR3 70776023 | CHR3:70776023 | 1,019387711001E-07 | 7,8656269853832E-07 |
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| CHR3 70785057 | CHR3:70785057 | 1,72412543E-12 | 2,290468125E-11 |
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| CHR3 70788498 | CHR3:70788498 | 8,2074595933547E-06 | 5,09070529849519E-05 |
| CHR3 70794172 | CHR3:70794172 | 0,0102059196396454 | 0,047719298635995 |
| CHR3 70798011 | CHR3:70798011 | 1,2548193934134E-07 | 9,5693598620455E-07 |
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| CHR3 70801955 | CHR3:70801955 | 0,0101093151582015 | 0,0473021068515687 |
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| CHR3 70814460 | CHR3:70814460 | 0,0051469393659479 | 0,0254410508538093 |
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| CHR3 70817091 | CHR3:70817091 | 0,0023856343833749 | 0,012322670351605 |
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| CHR3 70916300 | CHR3:70916300 | 2,196073773E-11 | 2,6179951609E-10 |
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| CHR3 70927607 | CHR3:70927607 | 1,0582523E-13 | 1,56150056E-12 |
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| CHR3 70937534 | CHR3:70937534 | 0,0001976937036191 | 0,00111838326773857 |
| CHR3 70937637 | CHR3:70937637 | 0,0055561492625445 | 0,0273215692280166 |
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| CHR3 70994703 | CHR3:70994703 | 1,8650422574E-10 | 2,01861267369E-09 |
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| CHR3 71028499 | CHR3:71028499 | 1,8530453756889E-06 | 1,22100073637054E-05 |
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| CHR3 71039238 | CHR3:71039238 | 4,4720478285189E-06 | 2,83594625525144E-05 |
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| CHR4 | 466376 | CHR4:466376 | 0,0070048320196343 | 0,0338226610075919 |
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| CHR4 | 596885 | CHR4:596885 | 0,0053089299568746 | 0,0261771791470965 |
| CHR4 | 596926 | CHR4:596926 | 0,0029340272254056 | 0,0149934497440471 |
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| CHR4 | 950209 | CHR4:950209 | 0,0003194432377683 | 0,00178275631802073 |
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| CHR4 | 5373173 | CHR4:5373173 | 0,0046680151367574 | 0,0232286650462089 |
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| CHR4 | 5E+07 | CHR4:49952152 | 9,57723104547E-09 | 8,466325065876E-08 |
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| CHR4 | 5E+07 | CHR4:50011880 | 1,9647341601691E-15 | 3,347436E-14 |
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| CHR4 | 5E+07 | CHR4:50463585 | 2,1710062750325E-46 | 1,62698585398035E-44 |
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| CHR4 51350361 | CHR4:51350361 | 1,5864597072272E-05 | 9,63682770189031E-05 |
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| CHR4 | 6E+07 | CHR4:60261440 | 1,1284611856101E-06 | 7,61162206864038E-06 |
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| CHR4 61394461 | CHR4:61394461 | 0,0051492966035764 | 0,0254507403536053 |
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| CHR4 61440932 | CHR4:61440932 | 1,9336766991E-10 | 2,08972351231E-09 |
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| CHR4 63603203 | CHR4:63603203 | 0,0008092332026779 | 0,00438025781642823 |
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| CHR4 63643571 | CHR4:63643571 | 2,3220641244941E-15 | 3,925985E-14 |
| CHR4 63643651 | CHR4:63643651 | 4,56122159E-12 | 5,806240832E-11 |
| CHR4 63643692 | CHR4:63643692 | 0,0084655031726644 | 0,0402375780967079 |
| CHR4 63643693 | CHR4:63643693 | 0,0002712917561708 | 0,00152158102681292 |
| CHR4 63643763 | CHR4:63643763 | 4,5325310518414E-06 | 2,87259684718444E-05 |
| CHR4 63643817 | CHR4:63643817 | 3,009124097726E-06 | 1,940674667694E-05 |
| CHR4 63705756 | CHR4:63705756 | 6,3437734982274E-06 | 3,9708584662446E-05 |
| CHR4 63800782 | CHR4:63800782 | 4,3347809627131E-16 | 7,81424559178805E-15 |
| CHR4 63862476 | CHR4:63862476 | 1,6175463306249E-21 | 4,23826464198036E-20 |
| CHR4 63928331 | CHR4:63928331 | 0,0024647612495819 | 0,0127088632470502 |
| CHR4 63929564 | CHR4:63929564 | 3,0728930559807E-05 | 0,00018285767222161 |
| CHR4 63937241 | CHR4:63937241 | 0,0053553615470343 | 0,0263888722760923 |
| CHR4 63937301 | CHR4:63937301 | 5,5010573270445E-06 | 3,46025546117378E-05 |
| CHR4 63946009 | CHR4:63946009 | 5,2645307992E-10 | 5,4272749777E-09 |
| CHR4 63959856 | CHR4:63959856 | 0,0006751015878595 | 0,00367813473988873 |
| CHR4 63959928 | CHR4:63959928 | 1,3205023622283E-06 | 8,83400716840005E-06 |
| CHR4 63973668 | CHR4:63973668 | 6,7839922903107E-18 | 1,3994166850468E-16 |
| CHR4 64000753 | CHR4:64000753 | 0,0036221117507049 | 0,0183054264241738 |
| CHR4 64002725 | CHR4:64002725 | 0,0006765094402944 | 0,00368549190558475 |
| CHR4 64015012 | CHR4:64015012 | 4,3458437769068E-05 | 0,00025632282350224 |
| CHR4 64015017 | CHR4:64015017 | 7,9957912746833E-06 | 4,96518154000809E-05 |
| CHR4 64015168 | CHR4:64015168 | 1,3143617497502E-07 | 1,00014263463126E-06 |
| CHR4 64026298 | CHR4:64026298 | 8,8433989445861E-05 | 0,00051138487853773 |
| CHR4 64032220 | CHR4:64032220 | 7,3803888667E-10 | 7,4768931219E-09 |
| CHR4 64071871 | CHR4:64071871 | 0,0059625132609533 | 0,0291665686066356 |
| CHR4 64081327 | CHR4:64081327 | 0,0002666609837825 | 0,00149645956696185 |
| CHR4 64081637 | CHR4:64081637 | 3,3641755783782E-21 | 8,64645046176676E-20 |
| CHR4 64081760 | CHR4:64081760 | 0,00644277003712 | 0,0313281830872093 |
| CHR4 64111214 | CHR4:64111214 | 1,0278777596349E-07 | 7,9273202050511E-07 |
| CHR4 64118782 | CHR4:64118782 | 0,0001094631215201 | 0,00062896167578932 |
| CHR4 64136250 | CHR4:64136250 | 0,0037317489821036 | 0,0188201971771968 |
| CHR4 64138282 | CHR4:64138282 | 6,9813689648611E-17 | 1,33949728493089E-15 |
| CHR4 64234234 | CHR4:64234234 | 7,0142530914564E-18 | 1,44598489172347E-16 |
| CHR4 64234374 | CHR4:64234374 | 0,0006362016687486 | 0,00347268992274861 |

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| CHR4 64244996 | CHR4:64244996 | 0,0002078694189738 | 0,00117449793989232 |
| CHR4 64261405 | CHR4:64261405 | 6,9862301289E-10 | 7,09259686695E-09 |
| CHR4 64268744 | CHR4:64268744 | 0,0026196406833294 | 0,013460365723098 |
| CHR4 64283886 | CHR4:64283886 | 6,9575428246755E-07 | 4,8163414603143E-06 |
| CHR4 64299135 | CHR4:64299135 | 2,726459200642E-08 | 2,2727878754543E-07 |
| CHR4 64317114 | CHR4:64317114 | 0,0003732748816741 | 0,00207496300787551 |
| CHR4 64356157 | CHR4:64356157 | 1,3335137296E-10 | 1,46646481971E-09 |
| CHR4 64358968 | CHR4:64358968 | 0,0084128399071428 | 0,040010993549697 |
| CHR4 64399035 | CHR4:64399035 | 2,02182975868E-09 | 1,944125390372E-08 |
| CHR4 64406139 | CHR4:64406139 | 4,273110052E-11 | 4,9625897687E-10 |
| CHR4 64406188 | CHR4:64406188 | 2,9332824E-13 | 4,15832104E-12 |
| CHR4 64427243 | CHR4:64427243 | 4,38350185028E-09 | 4,041375645329E-08 |
| CHR4 64470963 | CHR4:64470963 | 4,27798245E-12 | 5,458152235E-11 |
| CHR4 64497898 | CHR4:64497898 | 4,8290663019466E-21 | 1,22809802968485E-19 |
| CHR4 64515577 | CHR4:64515577 | 2,09181896771E-09 | 2,007510569078E-08 |
| CHR4 64519695 | CHR4:64519695 | 3,9337101813204E-22 | 1,06391054207933E-20 |
| CHR4 64542435 | CHR4:64542435 | 1,453181415463E-08 | 1,2559597398067E-07 |
| CHR4 64542527 | CHR4:64542527 | 1,226212270454E-05 | 7,50721296691024E-05 |
| CHR4 64547532 | CHR4:64547532 | 9,6416141323567E-15 | 1,5519658E-13 |
| CHR4 64547597 | CHR4:64547597 | 2,1782854115697E-07 | 1,60850797704942E-06 |
| CHR4 64556606 | CHR4:64556606 | 0,0045860773117286 | 0,022852858825447 |
| CHR4 64556639 | CHR4:64556639 | 0,0006293101987713 | 0,00343595061688071 |
| CHR4 64556643 | CHR4:64556643 | 0,0028430111421671 | 0,0145463111489715 |
| CHR4 64561085 | CHR4:64561085 | 7,09740938307E-09 | 6,377472446705E-08 |
| CHR4 64571299 | CHR4:64571299 | 2,5751864808763E-17 | 5,09337168765026E-16 |
| CHR4 64631810 | CHR4:64631810 | 2,6151299229E-10 | 2,78393552809E-09 |
| CHR4 64632471 | CHR4:64632471 | 3,233942463893E-08 | 2,6694494169732E-07 |
| CHR4 64649296 | CHR4:64649296 | 0,0093015320741992 | 0,0438407994932618 |
| CHR4 64703618 | CHR4:64703618 | 0,0007470564755774 | 0,00405551721341699 |
| CHR4 64706017 | CHR4:64706017 | 5,1636935217008E-05 | 0,0003030411468809 |
| CHR4 64727559 | CHR4:64727559 | 1,376537E-14 | 2,1809774E-13 |
| CHR4 64733168 | CHR4:64733168 | 2,2982480665E-10 | 2,46316330933E-09 |
| CHR4 64780592 | CHR4:64780592 | 7,1211502467359E-15 | 1,1577399E-13 |
| CHR4 64780680 | CHR4:64780680 | 1,43274222531E-09 | 1,402547835379E-08 |
| CHR4 64802985 | CHR4:64802985 | 1,5100376930172E-06 | 1,00427688375068E-05 |
| CHR4 64824339 | CHR4:64824339 | 8,4494259E-13 | 1,15209234E-11 |
| CHR4 64831100 | CHR4:64831100 | 1,0681258296464E-06 | 7,22784497896496E-06 |
| CHR4 64834950 | CHR4:64834950 | 1,13210891867E-09 | 1,122002365869E-08 |
| CHR4 64835116 | CHR4:64835116 | 1,9698660249854E-05 | 0,00011865742991204 |
| CHR4 64838341 | CHR4:64838341 | 0,0027461173856605 | 0,0140741397248619 |
| CHR4 64887999 | CHR4:64887999 | 0,0072212549452904 | 0,0347995120024001 |
| CHR4 64888049 | CHR4:64888049 | 1,3504105492124E-07 | 1,0259295691004E-06 |
| CHR4 64901915 | CHR4:64901915 | 1,243584099806E-18 | 2,71095836786169E-17 |
| CHR4 64954624 | CHR4:64954624 | 2,945679412012E-05 | 0,00017545045643127 |
| CHR4 64965895 | CHR4:64965895 | 0,0001743803162263 | 0,00098981478743343 |
| CHR4 64974175 | CHR4:64974175 | 0,0001041945178057 | 0,0005997370402494 |
| CHR4 65010028 | CHR4:65010028 | 1,8416589698877E-18 | 3,96818553879763E-17 |
| CHR4 65034160 | CHR4:65034160 | 2,1579244945769E-05 | 0,00012965646798047 |
| CHR4 65037789 | CHR4:65037789 | 1,1233221E-13 | 1,65256977E-12 |
| CHR4 65038109 | CHR4:65038109 | 0,009268153947374 | 0,0436995418239395 |
| CHR4 65057178 | CHR4:65057178 | 0,0073026097970477 | 0,0351611708620196 |
| CHR4 65085626 | CHR4:65085626 | 1,202623707609E-18 | 2,62255824673749E-17 |
| CHR4 65103382 | CHR4:65103382 | 5,6586605292451E-21 | 1,43395602047917E-19 |

Table S10

| | | | |
|---|---|---|---|
| CHR4 65106799 | CHR4:65106799 | 3,5399879914267E-23 | 1,01049634951176E-21 |
| CHR4 65160364 | CHR4:65160364 | 0,0027344958830198 | 0,0140190609971698 |
| CHR4 65174570 | CHR4:65174570 | 3,306138834E-11 | 3,8729184356E-10 |
| CHR4 65272487 | CHR4:65272487 | 0,0022791409570594 | 0,0117977816486594 |

**ach candidate SNP, the table reports chromosome ele frequency (MAF), test statistic, and associated sting.**

| MAF | Stat | Chi2 |
|---|---|---|
| 0,09090909090909 | 22,300508880911 | 172,8260264839 |
| 0,34027777777778 | 5,5987650400914 | 43,38969663262 |
| 0,05194805194805 | 54,383367101568 | 421,463980628 |
| 0,20138888888889 | 1,5576679093843 | 12,07172252427 |
| 0,25384615384615 | 7,1677832853297 | 55,54938277492 |
| 0,25 | 7,3465811584928 | 56,93504290167 |
| 0,31168831168831 | 6,4038110858605 | 49,62869817155 |
| 0,33552631578947 | 4,4659245724148 | 34,61033120584 |
| 0,33823529411765 | 4,7185209807447 | 36,56792032584 |
| 0,21333333333333 | 8,2642179121478 | 64,04660769764 |
| 0,46527777777778 | 3,4103818504128 | 26,43001319598 |
| 0,08088235294118 | 1,6439861438472 | 12,74067754924 |
| 0,29850746268657 | 5,9188271302775 | 45,87013596118 |
| 0,25333333333333 | 6,1848533170008 | 47,93180410685 |
| 0,42028985507246 | 2,8435111871135 | 22,03683971319 |
| 0,41176470588235 | 2,8983236967724 | 22,4616294925 |
| 0,42028985507246 | 2,8435111871135 | 22,03683971319 |
| 0,38235294117647 | 3,7133266244022 | 28,77779556329 |
| 0,38235294117647 | 3,7133266244022 | 28,77779556329 |
| 0,47260273972603 | 2,8909745928891 | 22,40467489881 |
| 0,05333333333333 | 36,92837949355 | 286,19011012 |
| 0,47761194029851 | 0,9785298953998 | 7,58347867848 |
| 0,40131578947368 | 3,7457534341532 | 29,0290990968 |
| 0,30263157894737 | 5,8935574263404 | 45,67429906144 |
| 0,48701298701299 | 1,1551890444854 | 8,952563973418 |
| 0,125 | 17,821165077058 | 138,1116979899 |
| 0,48684210526316 | 1,1130643274466 | 8,626102927105 |
| 0,45588235294118 | 1,1508440389873 | 8,918890749219 |
| 0,05405405405405 | 58,132820425391 | 450,5217533857 |
| 0,453125 | 2,771841106755 | 21,48140596627 |
| 0,05405405405405 | 1,6448662155617 | 12,7474979899 |
| 0,26351351351351 | 7,2105958573398 | 55,88117460727 |
| 0,26351351351351 | 7,2105958573398 | 55,88117460727 |
| 0,13157894736842 | 14,504773418204 | 112,4100964827 |
| 0,38235294117647 | 3,2589967588317 | 25,25679854036 |
| 0,4041095890411 | 3,3065641213847 | 25,62543937741 |
| 0,11940298507463 | 15,38131888638 | 119,2032091918 |
| 0,4469696969697 | 2,6390299107334 | 20,4521365714 |
| 0,13380281690141 | 12,256908064404 | 94,98943405558 |
| 0,46212121212121 | 0,8916613629157 | 6,910258915833 |
| 0,28378378378378 | 6,1436288501814 | 47,61231988197 |
| 0,47945205479452 | 2,2886828124278 | 17,73699239179 |
| 0,29605263157895 | 6,7819940885085 | 52,55956696833 |
| 0,11971830985916 | 13,15969872691 | 101,9859435873 |
| 0,06578947368421 | 42,355238134454 | 328,2475546476 |
| 0,46 | 0,9594756225054 | 7,43581055622 |
| 0,3984375 | 3,540642329449 | 27,43951486789 |
| 0,38461538461539 | 3,5531239013356 | 27,53624541718 |
| 0,38 | 3,8962896301558 | 30,19573492274 |

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| 0,48571428571429 | 1,9322304928306 | 14,97453354586 |
| 0,08552631578947 | 23,340224807353 | 180,8836888986 |
| 0,45890410958904 | 3,7670057581465 | 29,19380182753 |
| 0,40277777777778 | 3,4724556553493 | 26,91107706377 |
| 0,44029850746269 | 3,1884070126095 | 24,70973724166 |
| 0,10666666666667 | 22,570747136006 | 174,9203376084 |
| 0,05769230769231 | 51,61597817767 | 400,0170784964 |
| 0,33552631578947 | 4,8845827879818 | 37,8548776078 |
| 0,42647058823529 | 3,1247243407947 | 24,21620486604 |
| 0,09868421052632 | 15,199502487877 | 117,7941558885 |
| 0,125 | 17,420688822233 | 135,0080594051 |
| 0,06428571428571 | 33,608057098412 | 260,4580459208 |
| 0,35616438356164 | 3,0879315720513 | 23,93106572149 |
| 0,36923076923077 | 4,4097716004026 | 34,17515301866 |
| 0,37878787878788 | 4,7616257860597 | 36,90197692808 |
| 0,3671875 | 5,138262948625 | 39,82086566645 |
| 0,0859375 | 20,24026931133 | 156,8594393393 |
| 0,18382352941177 | 2,3577783037134 | 18,27247341021 |
| 0,125 | 3,6862308241995 | 28,56780665638 |
| 0,45833333333333 | 1,0854176096629 | 8,411844481013 |
| 0,06 | 11,925321225327 | 92,41967943078 |
| 0,07142857142857 | 8,303008100115 | 64,34722657987 |
| 0,26086956521739 | 1,8576430313692 | 14,39649047703 |
| 0,28260869565217 | 1,7904278650346 | 13,875581731 |
| 0,38732394366197 | 0,8973724515151 | 6,954519105356 |
| 0,05263157894737 | 54,922169842341 | 425,639631383 |
| 0,1953125 | 9,5696944824237 | 74,16388033538 |
| 0,125 | 10,8615499407 | 84,17559113704 |
| 0,35714285714286 | 5,0080062319219 | 38,81139315213 |
| 0,3046875 | 5,7523159382567 | 44,57969600594 |
| 0,08783783783784 | 19,403681301138 | 150,3759917024 |
| 0,09459459459459 | 20,726124306512 | 160,6247519926 |
| 0,109375 | 17,901042826395 | 138,7307400977 |
| 0,41891891891892 | 3,9906856548012 | 30,92729176489 |
| 0,07692307692308 | 25,466172867515 | 197,3595082492 |
| 0,2887323943662 | 5,9092768426696 | 45,79612248158 |
| 0,46031746031746 | 2,5561230357887 | 19,80961913642 |
| 0,42857142857143 | 1,0269181825623 | 7,958481573854 |
| 0,11111111111111 | 5,1935912108586 | 40,24965246074 |
| 0,3828125 | 0,8748148825597 | 6,779700896923 |
| 0,08461538461538 | 2,1445977805283 | 16,62035224372 |
| 0,07462686567164 | 25,059764602502 | 194,2098973615 |
| 0,08208955223881 | 21,531660629317 | 166,8675531144 |
| 0,1 | 18,642219793761 | 144,4747646343 |
| 0,43571428571429 | 3,2687422110632 | 25,33232452026 |
| 0,47101449275362 | 2,9287320174245 | 22,69728999955 |
| 0,125 | 16,408308764244 | 127,1622463949 |
| 0,16447368421053 | 2,8619435009723 | 22,17968773429 |
| 0,28472222222222 | 1,6985388768196 | 13,16345409321 |
| 0,29166666666667 | 1,3304916772039 | 10,31113644397 |
| 0,43333333333333 | 3,3457219968564 | 25,9289077897 |
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| 0,33333333333333 | 4,502449902739 | 34,89339773763 |

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| 0,17105263157895 | 12,067066735202 | 93,51818858923 |
| 0,3030303030303 | 4,7371898350742 | 36,71260150465 |
| 0,06944444444444 | 32,959565179792 | 255,432318387 |
| 0,32666666666667 | 4,6790352599417 | 36,26191115513 |
| 0,47260273972603 | 2,718966685132 | 21,0716361157 |
| 0,49315068493151 | 2,3465891733346 | 18,18575911354 |
| 0,11111111111111 | 19,150362625905 | 148,4128051084 |
| 0,23648648648649 | 8,4030031332848 | 65,12217500563 |
| 0,31944444444444 | 5,5484328097546 | 42,99962843196 |
| 0,25694444444444 | 7,2947639585502 | 56,53346638082 |
| 0,33783783783784 | 6,1727626513783 | 47,83810302997 |
| 0,46621621621622 | 4,1335051414332 | 32,03412410271 |
| 0,30281690140845 | 5,4744542258764 | 42,42630408475 |
| 0,23287671232877 | 8,141584031927 | 63,09621116884 |
| 0,05405405405405 | 32,839100845356 | 254,4987355542 |
| 0,43571428571429 | 2,724439220255 | 21,11404754698 |
| 0,06338028169014 | 34,648078223052 | 268,5180735817 |
| 0,06338028169014 | 34,648078223052 | 268,5180735817 |
| 0,07042253521127 | 26,028366439673 | 201,7164348875 |
| 0,09154929577465 | 21,652095141954 | 167,8009048322 |
| 0,33333333333333 | 4,6309693560823 | 35,88940668818 |
| 0,34920634920635 | 4,0669176287259 | 31,51807959018 |
| 0,07432432432432 | 18,806993980697 | 145,7517430274 |
| 0,27027027027027 | 6,6169938521396 | 51,28083672173 |
| 0,06338028169014 | 46,897362021506 | 363,4484205735 |
| 0,24615384615385 | 6,0785936999569 | 47,1083059756 |
| 0,07894736842105 | 31,804754435298 | 246,482686189 |
| 0,07792207792208 | 32,227998553098 | 249,7627727333 |
| 0,13157894736842 | 17,692918382526 | 137,1178028845 |
| 0,09333333333333 | 28,436975749152 | 220,3828419427 |
| 0,24285714285714 | 7,5586739742435 | 58,57873447784 |
| 0,23571428571429 | 8,1780009593121 | 63,37843759203 |
| 0,23571428571429 | 8,1780009593121 | 63,37843759203 |
| 0,15753424657534 | 10,53003953514 | 81,606428862 |
| 0,14393939393939 | 13,430152622262 | 104,0819258956 |
| 0,20289855072464 | 2,2111212331109 | 17,13590029866 |
| 0,12121212121212 | 22,347862216489 | 173,1930086399 |
| 0,49275362318841 | 2,1974729329423 | 17,03012775782 |
| 0,41269841269841 | 3,8036404733407 | 29,47771607775 |
| 0,34615384615385 | 4,0481431954105 | 31,37258018804 |
| 0,33333333333333 | 0,9153526151095 | 7,093863021055 |
| 0,43243243243243 | 3,3278543852789 | 25,7904361374 |
| 0,34722222222222 | 5,6234087788093 | 43,5806823838 |
| 0,21875 | 8,1023492519311 | 62,79214675655 |
| 0,05633802816901 | 32,791803776691 | 254,1321894594 |
| 0,26923076923077 | 5,4197395013519 | 42,00227212744 |
| 0,22 | 9,9179143154417 | 76,8625384873 |
| 0,49333333333333 | 3,3849389947808 | 26,23283439326 |
| 0,46527777777778 | 3,5997438794621 | 27,89754414885 |
| 0,44736842105263 | 2,3163101975444 | 17,95110101225 |
| 0,18666666666667 | 11,347798743082 | 87,94395574464 |
| 0,14666666666667 | 11,46879512846 | 88,88166190262 |

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| 0,47619047619048 | 3,9636685989403 | 30,71791311633 |
| 0,10526315789474 | 15,389807327012 | 119,2689934962 |
| 0,26865671641791 | 4,9069330835318 | 38,02808947445 |
| 0,3695652173913 | 4,3186421396352 | 33,46891161923 |
| 0,31578947368421 | 5,6055552117508 | 43,4423195747 |
| 0,30921052631579 | 5,6153887145592 | 43,51852793505 |
| 0,26315789473684 | 5,3901385469348 | 41,77286860309 |
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Table S10

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Table S10

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Table S10

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Table S10

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Table S10

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Table S10

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Table S10

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Table S10

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Table S10

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Table S10

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Table S10

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Table S10

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Table S10

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Table S10

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Table S10

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Table S10

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Table S10

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Table S10

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Table S10

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Table S10

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Table S10

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Table S10

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Table S10

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Table S10

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Table S10

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Table S10

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Table S10

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Table S10

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Table S10

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Table S10

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Table S10

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Table S10

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Table S10

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Table S10

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Table S10

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Table S10

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Table S10

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Table S10

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Table S10

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Table S10

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Table S10

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Table S10

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Table S10

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Table S10

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Table S10

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Table S10

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Table S10

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Table S10

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Table S10

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| 0,0530303030303 | 1,8179385774571 | 14,08878615333 |
| 0,16176470588235 | 1,9431475358287 | 15,05913920093 |
| 0,20394736842105 | 9,9166867836372 | 76,8530252764 |
| 0,19594594594595 | 2,3283718093196 | 18,04457692561 |
| 0,07236842105263 | 7,1147579177086 | 55,13844311261 |
| 0,35074626865672 | 0,873616039868 | 6,770410022895 |
| 0,34507042253521 | 0,9286591228171 | 7,196986715037 |
| 0,05072463768116 | 10,02529444169 | 77,6947204183 |
| 0,15540540540541 | 11,392188177093 | 88,28796805122 |

Table S10

| | | |
|---|---|---|
| 0,05194805194805 | 12,688072238127 | 98,33089999722 |
| 0,30405405405405 | 1,1582986491363 | 8,976663002665 |
| 0,08108108108108 | 5,6757997055123 | 43,98670521199 |
| 0,27857142857143 | 1,201302703048 | 9,309938794709 |