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| **Supplementary Table 4. Suggestive SNPs (P < 1×10-5) related to LTPA-EE identified in the Stage 1 GWAS for WHI-AA.** |
| SNP | CHR | BP | Effect allele | Ref. allele | MAF | β | S.E. | *P* value |
| 1:8940666 | 1 | 8940666 | T | A | 0.0107 | 1.72 | 0.35 | 9.92E-07 |
| 1:62312654 | 1 | 62312654 | G | A | 0.1274 | 0.42 | 0.09 | 2.83E-06 |
| 1:62361441 | 1 | 62361441 | A | G | 0.0126 | 1.14 | 0.24 | 1.39E-06 |
| 1:223384674 | 1 | 223384674 | A | T | 0.1077 | 0.34 | 0.07 | 4.97E-06 |
| 2:33459888 | 2 | 33459888 | G | A | 0.0278 | 0.66 | 0.14 | 5.16E-06 |
| 2:33465952 | 2 | 33465952 | C | T | 0.0281 | 0.73 | 0.15 | 7.10E-07 |
| 2:33467010 | 2 | 33467010 | G | A | 0.0260 | 0.77 | 0.15 | 2.82E-07 |
| 2:47149810 | 2 | 47149810 | A | G | 0.0443 | 0.52 | 0.11 | 2.41E-06 |
| 2:47154746 | 2 | 47154746 | T | G | 0.0765 | 0.39 | 0.09 | 8.32E-06 |
| 2:105869261 | 2 | 105869261 | G | A | 0.1370 | -0.38 | 0.09 | 9.41E-06 |
| 2:181969380 | 2 | 181969380 | A | T | 0.3833 | 0.25 | 0.05 | 1.91E-07 |
| 2:212699376 | 2 | 212699376 | G | A | 0.0158 | 1.26 | 0.28 | 6.64E-06 |
| 3:11626486 | 3 | 11626486 | C | A | 0.0431 | 0.57 | 0.11 | 3.14E-07 |
| 3:11629062 | 3 | 11629062 | T | C | 0.0430 | 0.57 | 0.11 | 3.70E-07 |
| 3:11652405 | 3 | 11652405 | G | A | 0.0535 | 0.51 | 0.10 | 1.00E-06 |
| 3:41348662 | 3 | 41348662 | A | C | 0.1556 | -0.31 | 0.07 | 9.15E-06 |
| 3:61490470 | 3 | 61490470 | A | G | 0.0738 | 0.39 | 0.09 | 9.23E-06 |
| 3:61491402 | 3 | 61491402 | G | T | 0.0736 | 0.39 | 0.09 | 8.15E-06 |
| 3:69103392 | 3 | 69103392 | C | T | 0.0131 | 0.99 | 0.22 | 6.20E-06 |
| 3:113315022 | 3 | 113315022 | G | A | 0.0643 | 0.53 | 0.12 | 6.72E-06 |
| 3:116221323 | 3 | 116221323 | G | A | 0.3588 | 0.21 | 0.05 | 6.71E-06 |
| 3:116222157 | 3 | 116222157 | C | G | 0.3587 | 0.21 | 0.05 | 6.58E-06 |
| 3:126838397 | 3 | 126838397 | G | A | 0.0344 | 0.55 | 0.13 | 8.71E-06 |
| 3:129734250 | 3 | 129734250 | A | T | 0.1721 | -0.32 | 0.07 | 5.35E-06 |
| 3:186991856 | 3 | 186991856 | C | T | 0.0164 | 0.90 | 0.20 | 5.50E-06 |
| 3:193226124 | 3 | 193226124 | T | C | 0.0109 | 1.00 | 0.23 | 9.97E-06 |
| 3:193245431 | 3 | 193245431 | C | G | 0.0125 | 1.02 | 0.22 | 3.06E-06 |
| 3:193261499 | 3 | 193261499 | A | C | 0.0126 | 1.01 | 0.22 | 3.08E-06 |
| 4:25658616 | 4 | 25658616 | G | C | 0.0233 | 1.21 | 0.27 | 7.34E-06 |
| 4:132214847 | 4 | 132214847 | G | A | 0.0215 | 0.75 | 0.17 | 5.08E-06 |
| 5:7270814 | 5 | 7270814 | T | C | 0.1702 | -0.29 | 0.07 | 6.21E-06 |
| 5:8439356 | 5 | 8439356 | C | T | 0.2973 | -0.22 | 0.05 | 9.83E-06 |
| 5:35079357 | 5 | 35079357 | A | G | 0.0156 | 0.94 | 0.20 | 2.57E-06 |
| 5:104737345 | 5 | 104737345 | G | T | 0.0863 | -0.45 | 0.10 | 8.17E-06 |
| 5:113229284 | 5 | 113229284 | C | G | 0.0320 | 0.73 | 0.16 | 6.44E-06 |
| 5:122024751 | 5 | 122024751 | G | A | 0.0674 | -0.44 | 0.10 | 6.12E-06 |
| 5:131633319 | 5 | 131633319 | T | C | 0.1130 | 0.34 | 0.07 | 2.18E-06 |
| 5:131634688 | 5 | 131634688 | T | G | 0.1254 | 0.31 | 0.07 | 5.79E-06 |
| 5:131636975 | 5 | 131636975 | A | G | 0.1257 | 0.31 | 0.07 | 6.32E-06 |
| 5:131637062 | 5 | 131637062 | T | G | 0.1242 | 0.31 | 0.07 | 7.29E-06 |
| 5:131637402 | 5 | 131637402 | A | G | 0.1259 | 0.30 | 0.07 | 6.58E-06 |
| 5:131638104 | 5 | 131638104 | A | G | 0.1260 | 0.30 | 0.07 | 6.76E-06 |
| 5:134609896 | 5 | 134609896 | G | A | 0.0181 | 0.82 | 0.18 | 3.76E-06 |
| 5:134611643 | 5 | 134611643 | G | A | 0.0186 | 0.79 | 0.17 | 5.55E-06 |
| 5:134621660 | 5 | 134621660 | C | T | 0.0181 | 0.81 | 0.18 | 3.19E-06 |
| 5:180542692 | 5 | 180542692 | G | C | 0.0514 | -0.58 | 0.13 | 6.22E-06 |
| 5:180545067 | 5 | 180545067 | G | A | 0.0519 | -0.58 | 0.13 | 6.47E-06 |
| 5:180550236 | 5 | 180550236 | T | G | 0.0521 | -0.59 | 0.13 | 3.91E-06 |
| 6:18544463 | 6 | 18544463 | G | T | 0.4443 | -0.20 | 0.04 | 5.09E-06 |
| 6:18544871 | 6 | 18544871 | T | C | 0.3989 | -0.20 | 0.05 | 7.49E-06 |
| 6:18545948 | 6 | 18545948 | T | C | 0.3863 | 0.20 | 0.05 | 8.58E-06 |
| 6:35106110 | 6 | 35106110 | A | C | 0.0103 | 1.12 | 0.25 | 8.88E-06 |
| 6:113852580 | 6 | 113852580 | A | C | 0.0141 | 1.06 | 0.22 | 1.26E-06 |
| 6:119771891 | 6 | 119771891 | C | T | 0.0128 | 0.97 | 0.22 | 8.94E-06 |
| 6:126097881 | 6 | 126097881 | A | C | 0.0283 | 0.90 | 0.19 | 1.98E-06 |
| 6:167185028 | 6 | 167185028 | G | A | 0.0967 | 0.35 | 0.08 | 7.43E-06 |
| 7:98865433 | 7 | 98865433 | G | A | 0.0263 | -0.91 | 0.16 | 1.97E-08 |
| 7:106261688 | 7 | 106261688 | G | C | 0.2142 | -0.28 | 0.06 | 6.77E-06 |
| 9:31089850 | 9 | 31089850 | C | T | 0.4966 | 0.22 | 0.05 | 1.22E-06 |
| 9:31093962 | 9 | 31093962 | G | T | 0.4985 | 0.20 | 0.04 | 8.96E-06 |
| 9:37429401 | 9 | 37429401 | T | C | 0.2392 | 0.24 | 0.05 | 7.98E-06 |
| 9:37429814 | 9 | 37429814 | G | A | 0.2432 | 0.23 | 0.05 | 7.43E-06 |
| 9:37445462 | 9 | 37445462 | C | G | 0.2305 | 0.25 | 0.06 | 7.65E-06 |
| 9:84209549 | 9 | 84209549 | C | T | 0.1580 | 0.28 | 0.06 | 6.45E-06 |
| 9:85552173 | 9 | 85552173 | A | G | 0.1217 | -0.33 | 0.07 | 2.17E-06 |
| 9:119791570 | 9 | 119791570 | T | A | 0.0911 | 0.36 | 0.08 | 5.25E-06 |
| 10:7162082 | 10 | 7162082 | T | C | 0.0799 | 0.40 | 0.09 | 2.45E-06 |
| 10:10437917 | 10 | 10437917 | A | G | 0.0130 | 1.00 | 0.22 | 8.07E-06 |
| 10:20434120 | 10 | 20434120 | G | T | 0.0652 | 0.41 | 0.09 | 7.35E-06 |
| 10:20478433 | 10 | 20478433 | T | C | 0.1461 | 0.33 | 0.07 | 7.17E-06 |
| 10:71263882 | 10 | 71263882 | C | T | 0.0113 | 1.02 | 0.22 | 3.72E-06 |
| 10:123751997 | 10 | 123751997 | C | A | 0.3618 | 0.22 | 0.05 | 8.66E-06 |
| 10:123754489 | 10 | 123754489 | G | C | 0.3845 | 0.22 | 0.05 | 7.40E-06 |
| 11:34874807 | 11 | 34874807 | T | C | 0.0225 | 0.72 | 0.16 | 3.72E-06 |
| 11:34879966 | 11 | 34879966 | C | G | 0.0220 | 0.73 | 0.16 | 2.08E-06 |
| 11:34978352 | 11 | 34978352 | G | T | 0.0269 | 0.67 | 0.14 | 3.35E-06 |
| 11:34985545 | 11 | 34985545 | A | G | 0.0255 | 0.66 | 0.15 | 5.56E-06 |
| 11:35006718 | 11 | 35006718 | G | A | 0.0253 | 0.66 | 0.15 | 5.43E-06 |
| 11:35018492 | 11 | 35018492 | C | T | 0.0248 | 0.67 | 0.15 | 6.21E-06 |
| 11:60336075 | 11 | 60336075 | T | C | 0.0880 | 0.40 | 0.08 | 1.31E-06 |
| 11:60354919 | 11 | 60354919 | G | T | 0.0882 | 0.40 | 0.08 | 1.25E-06 |
| 11:71572024 | 11 | 71572024 | T | C | 0.4167 | 0.21 | 0.05 | 8.79E-06 |
| 12:7044402 | 12 | 7044402 | T | C | 0.0103 | 1.17 | 0.24 | 1.44E-06 |
| 12:90000761 | 12 | 90000761 | A | C | 0.1331 | -0.30 | 0.07 | 6.35E-06 |
| 12:90001917 | 12 | 90001917 | T | C | 0.1394 | -0.30 | 0.07 | 5.90E-06 |
| 12:90002232 | 12 | 90002232 | T | C | 0.1522 | -0.28 | 0.06 | 8.38E-06 |
| 12:90020691 | 12 | 90020691 | T | C | 0.1404 | -0.30 | 0.07 | 3.56E-06 |
| 12:90029737 | 12 | 90029737 | A | G | 0.1382 | -0.31 | 0.07 | 2.90E-06 |
| 12:90029980 | 12 | 90029980 | C | G | 0.1380 | -0.31 | 0.07 | 2.89E-06 |
| 12:90037342 | 12 | 90037342 | T | C | 0.1437 | -0.30 | 0.06 | 4.67E-06 |
| 13:26816509 | 13 | 26816509 | T | C | 0.3530 | 0.22 | 0.05 | 4.12E-06 |
| 13:26816565 | 13 | 26816565 | G | T | 0.3599 | 0.21 | 0.05 | 4.84E-06 |
| 13:26816934 | 13 | 26816934 | C | G | 0.3603 | 0.22 | 0.05 | 4.60E-06 |
| 13:26816953 | 13 | 26816953 | A | G | 0.3602 | 0.22 | 0.05 | 4.58E-06 |
| 13:26817813 | 13 | 26817813 | T | C | 0.3595 | 0.22 | 0.05 | 4.59E-06 |
| 13:26817842 | 13 | 26817842 | T | G | 0.3595 | 0.22 | 0.05 | 4.58E-06 |
| 13:26818035 | 13 | 26818035 | G | A | 0.3595 | 0.22 | 0.05 | 4.56E-06 |
| 13:26818317 | 13 | 26818317 | G | A | 0.3594 | 0.22 | 0.05 | 4.53E-06 |
| 13:26818637 | 13 | 26818637 | T | C | 0.3635 | 0.21 | 0.05 | 5.36E-06 |
| 13:26819041 | 13 | 26819041 | A | G | 0.3592 | 0.22 | 0.05 | 4.43E-06 |
| 13:26819208 | 13 | 26819208 | T | A | 0.3592 | 0.22 | 0.05 | 4.41E-06 |
| 13:26819698 | 13 | 26819698 | T | C | 0.3592 | 0.22 | 0.05 | 4.26E-06 |
| 13:26819833 | 13 | 26819833 | T | C | 0.3537 | 0.22 | 0.05 | 5.01E-06 |
| 13:26826532 | 13 | 26826532 | G | A | 0.3789 | 0.21 | 0.05 | 9.30E-06 |
| 13:104330668 | 13 | 104330668 | C | T | 0.0992 | -0.33 | 0.08 | 8.53E-06 |
| 13:108088370 | 13 | 108088370 | A | T | 0.1041 | 0.38 | 0.08 | 3.23E-06 |
| 13:108088755 | 13 | 108088755 | A | G | 0.1190 | 0.35 | 0.08 | 3.04E-06 |
| 13:108089354 | 13 | 108089354 | T | C | 0.1385 | 0.32 | 0.07 | 6.06E-06 |
| 13:108089664 | 13 | 108089664 | G | C | 0.1387 | 0.32 | 0.07 | 4.95E-06 |
| 13:108096126 | 13 | 108096126 | G | T | 0.1217 | 0.33 | 0.07 | 5.30E-06 |
| 13:108098507 | 13 | 108098507 | G | A | 0.1056 | 0.34 | 0.08 | 7.09E-06 |
| 13:108100548 | 13 | 108100548 | G | A | 0.1057 | 0.34 | 0.07 | 4.45E-06 |
| 13:108105224 | 13 | 108105224 | T | C | 0.1136 | 0.32 | 0.07 | 6.20E-06 |
| 13:108108804 | 13 | 108108804 | T | G | 0.1360 | 0.31 | 0.07 | 3.03E-06 |
| 13:108114356 | 13 | 108114356 | A | T | 0.1333 | 0.31 | 0.07 | 4.55E-06 |
| 13:108118536 | 13 | 108118536 | T | A | 0.1319 | 0.31 | 0.07 | 3.90E-06 |
| 13:108118771 | 13 | 108118771 | G | C | 0.1264 | 0.31 | 0.07 | 8.36E-06 |
| 13:108124855 | 13 | 108124855 | A | G | 0.1317 | 0.31 | 0.07 | 5.00E-06 |
| 13:108127905 | 13 | 108127905 | G | A | 0.1122 | 0.32 | 0.07 | 7.87E-06 |
| 15:28145374 | 15 | 28145374 | C | A | 0.0386 | 0.52 | 0.12 | 8.09E-06 |
| 16:86805692 | 16 | 86805692 | G | T | 0.1277 | 0.31 | 0.07 | 5.84E-06 |
| 17:5310188 | 17 | 5310188 | G | A | 0.0496 | 0.48 | 0.11 | 5.15E-06 |
| 17:5315987 | 17 | 5315987 | T | C | 0.0495 | 0.48 | 0.11 | 4.64E-06 |
| 17:9193643 | 17 | 9193643 | T | C | 0.0340 | 0.59 | 0.13 | 5.13E-06 |
| 17:76597884 | 17 | 76597884 | G | A | 0.0135 | 1.12 | 0.25 | 6.53E-06 |
| 17:76598602 | 17 | 76598602 | A | T | 0.0130 | 1.20 | 0.27 | 7.67E-06 |
| 18:58818475 | 18 | 58818475 | C | T | 0.1179 | 0.36 | 0.07 | 2.20E-07 |
| 20:46985288 | 20 | 46985288 | C | G | 0.0394 | 0.53 | 0.12 | 7.00E-06 |
| 20:46987021 | 20 | 46987021 | C | A | 0.0394 | 0.53 | 0.12 | 7.25E-06 |
| 20:46988069 | 20 | 46988069 | A | C | 0.0394 | 0.53 | 0.12 | 7.51E-06 |
| 20:46988976 | 20 | 46988976 | C | T | 0.0394 | 0.53 | 0.12 | 7.67E-06 |