

| Supplementary Material 5 |               |       |          |
|--------------------------|---------------|-------|----------|
| gene1                    | gene2         | cor   | pvalue   |
| LPA                      | HELB          | 0.833 | 3.64E-13 |
| LPA                      | HPCA          | 0.825 | 1.00E-12 |
| LPA                      | ADAD2         | 0.819 | 2.04E-12 |
| LPA                      | GBX1          | 0.819 | 1.94E-12 |
| LPA                      | SNORD45C      | 0.814 | 3.66E-12 |
| LPA                      | HACL1         | 0.811 | 5.08E-12 |
| LPA                      | UTP6          | 0.807 | 7.53E-12 |
| LPA                      | NAT1          | 0.806 | 7.91E-12 |
| LPA                      | SACM1L        | 0.806 | 7.79E-12 |
| LPA                      | TRAPPC6B      | 0.805 | 9.44E-12 |
| LPA                      | HSPA14        | 0.803 | 1.08E-11 |
| LPA                      | PIGA          | 0.802 | 1.29E-11 |
| LPA                      | KRT83         | 0.797 | 2.01E-11 |
| LPA                      | DNMT3A        | 0.795 | 2.43E-11 |
| LPA                      | SLC37A2       | 0.793 | 3.01E-11 |
| LPA                      | CCDC70        | 0.791 | 3.54E-11 |
| LPA                      | BDH1          | 0.79  | 4.16E-11 |
| LPA                      | KRT33B        | 0.788 | 5.09E-11 |
| LPA                      | ZNF140        | 0.788 | 4.81E-11 |
| LPA                      | BCAN          | 0.787 | 5.59E-11 |
| LPA                      | SLC35B3       | 0.787 | 5.16E-11 |
| LPA                      | CLPS          | 0.786 | 6.12E-11 |
| LPA                      | SPACA4        | 0.785 | 6.71E-11 |
| LPA                      | DRAXIN        | 0.784 | 7.35E-11 |
| LPA                      | HCCS          | 0.784 | 7.38E-11 |
| LPA                      | TM2D2         | 0.784 | 7.45E-11 |
| LPA                      | GMPR2         | 0.783 | 7.61E-11 |
| LPA                      | DNAJC25-GNG10 | 0.781 | 9.40E-11 |
| LPA                      | ALG13         | 0.78  | 9.94E-11 |
| LPA                      | VTI1A         | 0.78  | 1.05E-10 |
| LPA                      | MIR34A        | 0.779 | 1.14E-10 |
| LPA                      | SQRDL         | 0.779 | 1.11E-10 |
| LPA                      | HOMER1        | 0.778 | 1.19E-10 |
| LPA                      | EPO           | 0.777 | 1.30E-10 |
| LPA                      | MTNR1B        | 0.777 | 1.37E-10 |
| LPA                      | C5orf22       | 0.776 | 1.48E-10 |
| LPA                      | POC1B         | 0.776 | 1.47E-10 |
| LPA                      | RTCB          | 0.776 | 1.42E-10 |
| LPA                      | SIAH3         | 0.776 | 1.50E-10 |
| LPA                      | DYNLT3        | 0.775 | 1.62E-10 |
| LPA                      | CYMP          | 0.774 | 1.77E-10 |
| LPA                      | EOGT          | 0.774 | 1.73E-10 |
| LPA                      | FASTKD3       | 0.774 | 1.84E-10 |
| LPA                      | IVNS1ABP      | 0.773 | 1.99E-10 |
| LPA                      | HDAC1         | 0.772 | 2.19E-10 |
| LPA                      | ATG5          | 0.771 | 2.39E-10 |
| LPA                      | SH3BP5        | 0.77  | 2.60E-10 |
| LPA                      | ORC2          | 0.769 | 2.84E-10 |
| LPA                      | CTAGE5        | 0.768 | 2.92E-10 |

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|-----|----------|-------|----------|
| LPA | FGF4     | 0.768 | 2.95E-10 |
| LPA | UBXN8    | 0.768 | 3.00E-10 |
| LPA | UBE2Q2   | 0.767 | 3.16E-10 |
| LPA | CDX2     | 0.766 | 3.61E-10 |
| LPA | METTL23  | 0.766 | 3.62E-10 |
| LPA | APAF1    | 0.765 | 3.92E-10 |
| LPA | COX18    | 0.765 | 3.84E-10 |
| LPA | SLC9A2   | 0.765 | 3.73E-10 |
| LPA | BPGM     | 0.764 | 4.03E-10 |
| LPA | B3GNT3   | 0.763 | 4.68E-10 |
| LPA | KRBOX4   | 0.763 | 4.47E-10 |
| LPA | PBDC1    | 0.763 | 4.66E-10 |
| LPA | AK2      | 0.762 | 4.91E-10 |
| LPA | METTL21A | 0.762 | 4.78E-10 |
| LPA | CSTA     | 0.761 | 5.30E-10 |
| LPA | MKKS     | 0.761 | 5.35E-10 |
| LPA | PANK2    | 0.761 | 5.34E-10 |
| LPA | PCGEM1   | 0.761 | 5.14E-10 |
| LPA | BUB3     | 0.76  | 5.83E-10 |
| LPA | CRYZ     | 0.76  | 5.68E-10 |
| LPA | MREG     | 0.76  | 5.79E-10 |
| LPA | PTP4A1   | 0.76  | 5.87E-10 |
| LPA | FAM71E2  | 0.759 | 6.42E-10 |
| LPA | NEPRO    | 0.759 | 6.19E-10 |
| LPA | BLOC1S2  | 0.758 | 7.10E-10 |
| LPA | CSNK1G3  | 0.758 | 7.07E-10 |
| LPA | FAM83E   | 0.758 | 7.02E-10 |
| LPA | NTAN1    | 0.758 | 6.89E-10 |
| LPA | TIAL1    | 0.758 | 6.83E-10 |
| LPA | ABCA13   | 0.757 | 7.53E-10 |
| LPA | SOCS5    | 0.757 | 7.29E-10 |
| LPA | SP100    | 0.757 | 7.47E-10 |
| LPA | FSHB     | 0.756 | 8.13E-10 |
| LPA | EPS8L1   | 0.755 | 8.55E-10 |
| LPA | FAM66D   | 0.755 | 8.63E-10 |
| LPA | TBC1D21  | 0.755 | 8.50E-10 |
| LPA | ZNF267   | 0.755 | 8.44E-10 |
| LPA | DTYMK    | 0.754 | 9.51E-10 |
| LPA | PDHX     | 0.754 | 9.44E-10 |
| LPA | PPIP5K2  | 0.754 | 9.80E-10 |
| LPA | SPCS1    | 0.754 | 9.70E-10 |
| LPA | TINF2    | 0.754 | 9.13E-10 |
| LPA | DNTTIP2  | 0.753 | 1.06E-09 |
| LPA | FOXJ1    | 0.753 | 1.05E-09 |
| LPA | RBM12    | 0.753 | 9.94E-10 |
| LPA | TRIM69   | 0.753 | 9.84E-10 |
| LPA | NDUFAB1  | 0.752 | 1.12E-09 |
| LPA | DARS     | 0.751 | 1.20E-09 |
| LPA | IZUMO1   | 0.751 | 1.16E-09 |
| LPA | NACC1    | 0.751 | 1.18E-09 |
| LPA | C11orf31 | 0.75  | 1.32E-09 |

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|-----|-----------|-------|----------|
| LPA | PAX4      | 0.75  | 1.29E-09 |
| LPA | RDH11     | 0.75  | 1.35E-09 |
| LPA | SNAPC5    | 0.75  | 1.34E-09 |
| LPA | C12orf4   | 0.749 | 1.38E-09 |
| LPA | FASLG     | 0.749 | 1.36E-09 |
| LPA | MAK16     | 0.749 | 1.45E-09 |
| LPA | METTL10   | 0.749 | 1.43E-09 |
| LPA | ABRACL    | 0.748 | 1.50E-09 |
| LPA | ARL8B     | 0.748 | 1.55E-09 |
| LPA | NAA35     | 0.748 | 1.53E-09 |
| LPA | SARAF     | 0.748 | 1.56E-09 |
| LPA | SLC26A4   | 0.748 | 1.49E-09 |
| LPA | ZZZ3      | 0.748 | 1.48E-09 |
| LPA | ASGR2     | 0.747 | 1.70E-09 |
| LPA | DIABLO    | 0.747 | 1.60E-09 |
| LPA | GBAS      | 0.747 | 1.60E-09 |
| LPA | NSMAF     | 0.747 | 1.66E-09 |
| LPA | STAMPB    | 0.747 | 1.61E-09 |
| LPA | ZBTB33    | 0.747 | 1.66E-09 |
| LPA | DIRAS2    | 0.746 | 1.74E-09 |
| LPA | FAM159A   | 0.746 | 1.78E-09 |
| LPA | GHRLOS    | 0.746 | 1.73E-09 |
| LPA | HAP1      | 0.746 | 1.79E-09 |
| LPA | RBM7      | 0.746 | 1.82E-09 |
| LPA | RWDD1     | 0.746 | 1.81E-09 |
| LPA | SLC1A1    | 0.746 | 1.80E-09 |
| LPA | ADGRG3    | 0.745 | 1.97E-09 |
| LPA | CDC27     | 0.745 | 1.94E-09 |
| LPA | MTIF2     | 0.745 | 1.96E-09 |
| LPA | OXNAD1    | 0.745 | 1.92E-09 |
| LPA | STAR      | 0.745 | 1.94E-09 |
| LPA | ARHGAP29  | 0.744 | 2.06E-09 |
| LPA | CCDC90B   | 0.744 | 2.09E-09 |
| LPA | CELF3     | 0.744 | 2.02E-09 |
| LPA | KCMF1     | 0.744 | 2.12E-09 |
| LPA | MTFMT     | 0.744 | 2.01E-09 |
| LPA | NT5C2     | 0.744 | 2.00E-09 |
| LPA | PDCD10    | 0.744 | 2.01E-09 |
| LPA | RORC      | 0.744 | 2.05E-09 |
| LPA | SMYD3     | 0.744 | 2.00E-09 |
| LPA | TRMT12    | 0.744 | 1.99E-09 |
| LPA | DDX20     | 0.743 | 2.16E-09 |
| LPA | DUSP11    | 0.743 | 2.27E-09 |
| LPA | IMP3      | 0.743 | 2.19E-09 |
| LPA | LINC00358 | 0.743 | 2.21E-09 |
| LPA | SNORD77   | 0.743 | 2.29E-09 |
| LPA | USP6NL    | 0.743 | 2.18E-09 |
| LPA | CCSAP     | 0.742 | 2.48E-09 |
| LPA | CEACAM4   | 0.742 | 2.48E-09 |
| LPA | DNA2      | 0.742 | 2.36E-09 |
| LPA | ERCC6L    | 0.742 | 2.41E-09 |

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|-----|----------|-------|----------|
| LPA | LRRC37B  | 0.742 | 2.41E-09 |
| LPA | NMI      | 0.742 | 2.37E-09 |
| LPA | POLR3C   | 0.742 | 2.47E-09 |
| LPA | SMARCAD1 | 0.742 | 2.40E-09 |
| LPA | YWHAB    | 0.742 | 2.33E-09 |
| LPA | CLDN18   | 0.741 | 2.64E-09 |
| LPA | HCG26    | 0.741 | 2.66E-09 |
| LPA | LEPROTL1 | 0.741 | 2.66E-09 |
| LPA | SYNGR2   | 0.741 | 2.61E-09 |
| LPA | TMCC3    | 0.741 | 2.64E-09 |
| LPA | FAM72A   | 0.74  | 2.78E-09 |
| LPA | IL26     | 0.74  | 2.76E-09 |
| LPA | MAGEA2B  | 0.74  | 2.74E-09 |
| LPA | MPLKIP   | 0.74  | 2.74E-09 |
| LPA | TMPPE    | 0.74  | 2.79E-09 |
| LPA | TMPRSS2  | 0.74  | 2.79E-09 |
| LPA | UBE2N    | 0.74  | 2.86E-09 |
| LPA | WDR7     | 0.74  | 2.70E-09 |
| LPA | ACAA1    | 0.739 | 3.01E-09 |
| LPA | AMZ2     | 0.739 | 2.99E-09 |
| LPA | ANXA7    | 0.739 | 3.04E-09 |
| LPA | BTN2A1   | 0.739 | 3.02E-09 |
| LPA | DUSP10   | 0.739 | 2.91E-09 |
| LPA | KRT77    | 0.739 | 2.97E-09 |
| LPA | LINGO3   | 0.739 | 3.01E-09 |
| LPA | SCAMP1   | 0.739 | 2.92E-09 |
| LPA | SHPRH    | 0.739 | 2.97E-09 |
| LPA | ALAS1    | 0.738 | 3.16E-09 |
| LPA | CDC40    | 0.738 | 3.29E-09 |
| LPA | DNAJA2   | 0.738 | 3.34E-09 |
| LPA | GALNT7   | 0.738 | 3.17E-09 |
| LPA | IMMT     | 0.738 | 3.28E-09 |
| LPA | PABPC3   | 0.738 | 3.21E-09 |
| LPA | POLR3GL  | 0.738 | 3.25E-09 |
| LPA | RFK      | 0.738 | 3.19E-09 |
| LPA | SPANXB1  | 0.738 | 3.24E-09 |
| LPA | TEX14    | 0.738 | 3.27E-09 |
| LPA | ZNF415   | 0.738 | 3.23E-09 |
| LPA | ACSL4    | 0.737 | 3.39E-09 |
| LPA | APEX1    | 0.737 | 3.40E-09 |
| LPA | CHM      | 0.737 | 3.46E-09 |
| LPA | JTB      | 0.737 | 3.41E-09 |
| LPA | PLA2R1   | 0.737 | 3.37E-09 |
| LPA | TMEM263  | 0.737 | 3.49E-09 |
| LPA | XRCC4    | 0.737 | 3.56E-09 |
| LPA | A2ML1    | 0.736 | 3.66E-09 |
| LPA | CCPG1    | 0.736 | 3.76E-09 |
| LPA | CENPQ    | 0.736 | 3.65E-09 |
| LPA | MYNN     | 0.736 | 3.79E-09 |
| LPA | SLC6A2   | 0.736 | 3.65E-09 |
| LPA | TMEM65   | 0.736 | 3.88E-09 |

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| LPA | UBE2W     | 0.736 | 3.69E-09 |
| LPA | ZCCHC10   | 0.736 | 3.76E-09 |
| LPA | CHST11    | 0.735 | 3.90E-09 |
| LPA | COQ6      | 0.735 | 4.12E-09 |
| LPA | GLT8D1    | 0.735 | 3.99E-09 |
| LPA | HIST1H4I  | 0.735 | 4.02E-09 |
| LPA | MOB4      | 0.735 | 4.00E-09 |
| LPA | MSM01     | 0.735 | 4.19E-09 |
| LPA | NFXL1     | 0.735 | 4.05E-09 |
| LPA | UNC50     | 0.735 | 3.96E-09 |
| LPA | CNGA1     | 0.734 | 4.21E-09 |
| LPA | CPA6      | 0.734 | 4.49E-09 |
| LPA | GTF2H2C_2 | 0.734 | 4.33E-09 |
| LPA | PRR15L    | 0.734 | 4.33E-09 |
| LPA | SNTG1     | 0.734 | 4.26E-09 |
| LPA | STK26     | 0.734 | 4.26E-09 |
| LPA | TMPRSS3   | 0.734 | 4.27E-09 |
| LPA | UTP15     | 0.734 | 4.47E-09 |
| LPA | CAMK2A    | 0.733 | 4.81E-09 |
| LPA | CD40LG    | 0.733 | 4.71E-09 |
| LPA | EXOSC8    | 0.733 | 4.55E-09 |
| LPA | HMGN4     | 0.733 | 4.80E-09 |
| LPA | NEMP2     | 0.733 | 4.51E-09 |
| LPA | PCDH19    | 0.733 | 4.73E-09 |
| LPA | RNF183    | 0.733 | 4.56E-09 |
| LPA | RPL3      | 0.733 | 4.69E-09 |
| LPA | SLC39A13  | 0.733 | 4.79E-09 |
| LPA | TDP2      | 0.733 | 4.52E-09 |
| LPA | UBE2D2    | 0.733 | 4.81E-09 |
| LPA | UHRF2     | 0.733 | 4.62E-09 |
| LPA | ZNF226    | 0.733 | 4.77E-09 |
| LPA | GRHL1     | 0.732 | 5.18E-09 |
| LPA | GRK1      | 0.732 | 5.18E-09 |
| LPA | MITF      | 0.732 | 5.17E-09 |
| LPA | MRPL9     | 0.732 | 5.03E-09 |
| LPA | PARP8     | 0.732 | 4.99E-09 |
| LPA | RANBP6    | 0.732 | 5.09E-09 |
| LPA | UNK       | 0.732 | 5.03E-09 |
| LPA | ZNF367    | 0.732 | 5.00E-09 |
| LPA | CCNDBP1   | 0.731 | 5.28E-09 |
| LPA | CHAC2     | 0.731 | 5.41E-09 |
| LPA | HIST1H2AC | 0.731 | 5.58E-09 |
| LPA | LRRC40    | 0.731 | 5.42E-09 |
| LPA | SLC39A9   | 0.731 | 5.25E-09 |
| LPA | STK17A    | 0.731 | 5.54E-09 |
| LPA | TIMMDC1   | 0.731 | 5.50E-09 |
| LPA | ZNF268    | 0.731 | 5.23E-09 |
| LPA | CREB3     | 0.73  | 5.67E-09 |
| LPA | EXOC6     | 0.73  | 5.92E-09 |
| LPA | GRAMD1C   | 0.73  | 5.67E-09 |
| LPA | LOC374443 | 0.73  | 5.72E-09 |

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|-----|------------|-------|----------|
| LPA | LPIN2      | 0.73  | 5.90E-09 |
| LPA | MIR142     | 0.73  | 5.83E-09 |
| LPA | TBX4       | 0.73  | 5.95E-09 |
| LPA | ANXA2P2    | 0.729 | 6.20E-09 |
| LPA | C10orf95   | 0.729 | 6.29E-09 |
| LPA | FBX04      | 0.729 | 6.02E-09 |
| LPA | FOPNL      | 0.729 | 6.02E-09 |
| LPA | KDM2B      | 0.729 | 6.01E-09 |
| LPA | KIAA1033   | 0.729 | 6.41E-09 |
| LPA | PPP1R8     | 0.729 | 6.45E-09 |
| LPA | PSMD14     | 0.729 | 6.46E-09 |
| LPA | RAB27A     | 0.729 | 6.45E-09 |
| LPA | RCN2       | 0.729 | 6.35E-09 |
| LPA | SUM01      | 0.729 | 6.27E-09 |
| LPA | ABCG2      | 0.728 | 6.72E-09 |
| LPA | ATP2C1     | 0.728 | 6.59E-09 |
| LPA | BTN2A2     | 0.728 | 6.59E-09 |
| LPA | CD8B       | 0.728 | 6.90E-09 |
| LPA | HCAR3      | 0.728 | 6.58E-09 |
| LPA | SEH1L      | 0.728 | 6.63E-09 |
| LPA | SEPSECS    | 0.728 | 6.59E-09 |
| LPA | WDR70      | 0.728 | 6.88E-09 |
| LPA | ZNF143     | 0.728 | 6.78E-09 |
| LPA | ARL6IP1    | 0.727 | 7.15E-09 |
| LPA | ARPC2      | 0.727 | 7.18E-09 |
| LPA | C1orf52    | 0.727 | 7.20E-09 |
| LPA | CFAP206    | 0.727 | 6.95E-09 |
| LPA | CHRM1      | 0.727 | 7.15E-09 |
| LPA | ETV7       | 0.727 | 7.01E-09 |
| LPA | FAM118B    | 0.727 | 7.09E-09 |
| LPA | FBXL5      | 0.727 | 7.38E-09 |
| LPA | GSG1L      | 0.727 | 6.99E-09 |
| LPA | GTF2E1     | 0.727 | 7.11E-09 |
| LPA | JHDM1D-AS1 | 0.727 | 7.40E-09 |
| LPA | NAP1L1     | 0.727 | 7.09E-09 |
| LPA | RAP1B      | 0.727 | 7.37E-09 |
| LPA | ZNF670     | 0.727 | 7.12E-09 |
| LPA | ZNF92      | 0.727 | 7.38E-09 |
| LPA | ANKRD49    | 0.726 | 7.95E-09 |
| LPA | FBX015     | 0.726 | 7.50E-09 |
| LPA | KIF19      | 0.726 | 7.94E-09 |
| LPA | SAR1B      | 0.726 | 7.58E-09 |
| LPA | SNORA3A    | 0.726 | 7.75E-09 |
| LPA | SREK1IP1   | 0.726 | 7.58E-09 |
| LPA | TRNAU1AP   | 0.726 | 7.98E-09 |
| LPA | WNT8B      | 0.726 | 7.81E-09 |
| LPA | AGTPBP1    | 0.725 | 8.08E-09 |
| LPA | C4orf47    | 0.725 | 8.56E-09 |
| LPA | COMMD1     | 0.725 | 8.30E-09 |
| LPA | CPNE7      | 0.725 | 8.34E-09 |
| LPA | DPH5       | 0.725 | 8.54E-09 |

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|-----|--------------|-------|----------|
| LPA | FPGT         | 0.725 | 8.42E-09 |
| LPA | GINS4        | 0.725 | 8.05E-09 |
| LPA | HLA-C        | 0.725 | 8.08E-09 |
| LPA | MYCBPAP      | 0.725 | 8.56E-09 |
| LPA | NEK3         | 0.725 | 8.55E-09 |
| LPA | NPFFR1       | 0.725 | 8.21E-09 |
| LPA | NRL          | 0.725 | 8.41E-09 |
| LPA | PIBF1        | 0.725 | 8.23E-09 |
| LPA | SEPT7P2      | 0.725 | 8.25E-09 |
| LPA | USP45        | 0.725 | 8.26E-09 |
| LPA | C1D          | 0.724 | 9.12E-09 |
| LPA | DDI2         | 0.724 | 9.15E-09 |
| LPA | LOC101926963 | 0.724 | 9.05E-09 |
| LPA | LOC152225    | 0.724 | 9.02E-09 |
| LPA | P2RY2        | 0.724 | 8.83E-09 |
| LPA | RABGGTB      | 0.724 | 8.60E-09 |
| LPA | RAP2C        | 0.724 | 9.00E-09 |
| LPA | RNF34        | 0.724 | 8.73E-09 |
| LPA | AKAP14       | 0.723 | 9.69E-09 |
| LPA | ARMCX5       | 0.723 | 9.64E-09 |
| LPA | ATP2B1       | 0.723 | 9.41E-09 |
| LPA | C17orf50     | 0.723 | 9.72E-09 |
| LPA | HOTAIRM1     | 0.723 | 9.31E-09 |
| LPA | MAN2A1       | 0.723 | 9.19E-09 |
| LPA | PTS          | 0.723 | 9.67E-09 |
| LPA | SUPT3H       | 0.723 | 9.79E-09 |
| LPA | COMMD8       | 0.722 | 1.05E-08 |
| LPA | DNAH9        | 0.722 | 1.01E-08 |
| LPA | MRPS10       | 0.722 | 1.05E-08 |
| LPA | PDCL3P4      | 0.722 | 1.01E-08 |
| LPA | RTN4IP1      | 0.722 | 9.92E-09 |
| LPA | SERPINB6     | 0.722 | 1.02E-08 |
| LPA | SNX6         | 0.722 | 1.01E-08 |
| LPA | ZIC4         | 0.722 | 1.01E-08 |
| LPA | ZNF641       | 0.722 | 1.04E-08 |
| LPA | GGT6         | 0.721 | 1.11E-08 |
| LPA | GSKIP        | 0.721 | 1.09E-08 |
| LPA | INTS2        | 0.721 | 1.13E-08 |
| LPA | NOP58        | 0.721 | 1.08E-08 |
| LPA | NTSR2        | 0.721 | 1.12E-08 |
| LPA | NUP88        | 0.721 | 1.13E-08 |
| LPA | PDCD2        | 0.721 | 1.10E-08 |
| LPA | RBBP8        | 0.721 | 1.06E-08 |
| LPA | RBMX2        | 0.721 | 1.10E-08 |
| LPA | REC114       | 0.721 | 1.10E-08 |
| LPA | THOC7        | 0.721 | 1.06E-08 |
| LPA | ATXN10       | 0.72  | 1.16E-08 |
| LPA | CXorf21      | 0.72  | 1.21E-08 |
| LPA | DDX52        | 0.72  | 1.19E-08 |
| LPA | ERICH1       | 0.72  | 1.15E-08 |
| LPA | GORAB        | 0.72  | 1.16E-08 |

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| LPA | HARBI1    | 0.72  | 1.20E-08 |
| LPA | HGC6.3    | 0.72  | 1.20E-08 |
| LPA | NGLY1     | 0.72  | 1.18E-08 |
| LPA | ORC6      | 0.72  | 1.16E-08 |
| LPA | PDE1A     | 0.72  | 1.17E-08 |
| LPA | PPM1N     | 0.72  | 1.14E-08 |
| LPA | RNF139    | 0.72  | 1.20E-08 |
| LPA | ZBTB80S   | 0.72  | 1.15E-08 |
| LPA | ACVR2A    | 0.719 | 1.24E-08 |
| LPA | C11orf97  | 0.719 | 1.24E-08 |
| LPA | CDC123    | 0.719 | 1.26E-08 |
| LPA | CREM      | 0.719 | 1.24E-08 |
| LPA | DIEXF     | 0.719 | 1.29E-08 |
| LPA | EDRF1     | 0.719 | 1.26E-08 |
| LPA | KLRF1     | 0.719 | 1.27E-08 |
| LPA | KRT84     | 0.719 | 1.22E-08 |
| LPA | PDCL      | 0.719 | 1.22E-08 |
| LPA | POT1      | 0.719 | 1.21E-08 |
| LPA | RAP1GDS1  | 0.719 | 1.28E-08 |
| LPA | RMDN1     | 0.719 | 1.25E-08 |
| LPA | THUMPD3   | 0.719 | 1.22E-08 |
| LPA | TMEM38B   | 0.719 | 1.28E-08 |
| LPA | ZNF831    | 0.719 | 1.25E-08 |
| LPA | CHN1      | 0.718 | 1.38E-08 |
| LPA | DNAJC24   | 0.718 | 1.37E-08 |
| LPA | LSM5      | 0.718 | 1.33E-08 |
| LPA | NDUFA4    | 0.718 | 1.34E-08 |
| LPA | ALKBH1    | 0.717 | 1.42E-08 |
| LPA | CCDC102B  | 0.717 | 1.48E-08 |
| LPA | FASTKD1   | 0.717 | 1.46E-08 |
| LPA | GJA4      | 0.717 | 1.41E-08 |
| LPA | JMJD7     | 0.717 | 1.42E-08 |
| LPA | LOC389332 | 0.717 | 1.45E-08 |
| LPA | PSMA2     | 0.717 | 1.46E-08 |
| LPA | ZWINT     | 0.717 | 1.41E-08 |
| LPA | CDC16     | 0.716 | 1.58E-08 |
| LPA | DAPK2     | 0.716 | 1.51E-08 |
| LPA | DMBT1     | 0.716 | 1.56E-08 |
| LPA | KAT2B     | 0.716 | 1.52E-08 |
| LPA | MRPL32    | 0.716 | 1.49E-08 |
| LPA | OBP2A     | 0.716 | 1.53E-08 |
| LPA | PAIP1     | 0.716 | 1.50E-08 |
| LPA | SCEL      | 0.716 | 1.52E-08 |
| LPA | SCFD2     | 0.716 | 1.50E-08 |
| LPA | SH2D4B    | 0.716 | 1.50E-08 |
| LPA | TOMM20    | 0.716 | 1.51E-08 |
| LPA | LBR       | 0.715 | 1.62E-08 |
| LPA | LINC01547 | 0.715 | 1.60E-08 |
| LPA | TMEM133   | 0.715 | 1.59E-08 |
| LPA | WDR5B     | 0.715 | 1.67E-08 |
| LPA | CACNA2D3  | 0.714 | 1.72E-08 |

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| LPA | CCR2      | 0.714 | 1.79E-08 |
| LPA | EXOC8     | 0.714 | 1.74E-08 |
| LPA | FOXD4L1   | 0.714 | 1.75E-08 |
| LPA | GPR31     | 0.714 | 1.78E-08 |
| LPA | LINC01420 | 0.714 | 1.77E-08 |
| LPA | MIOX      | 0.714 | 1.75E-08 |
| LPA | PIK3R3    | 0.714 | 1.81E-08 |
| LPA | PNLIPRP3  | 0.714 | 1.70E-08 |
| LPA | PRIMPOL   | 0.714 | 1.70E-08 |
| LPA | PRR15     | 0.714 | 1.72E-08 |
| LPA | RASGRF2   | 0.714 | 1.78E-08 |
| LPA | TEX101    | 0.714 | 1.70E-08 |
| LPA | TRIT1     | 0.714 | 1.71E-08 |
| LPA | AKIRIN1   | 0.713 | 1.93E-08 |
| LPA | DHRS7C    | 0.713 | 1.87E-08 |
| LPA | LDHC      | 0.713 | 1.83E-08 |
| LPA | SCGB3A1   | 0.713 | 1.83E-08 |
| LPA | SERPINA9  | 0.713 | 1.84E-08 |
| LPA | SMC2      | 0.713 | 1.82E-08 |
| LPA | BOLA3     | 0.712 | 1.96E-08 |
| LPA | CRHR2     | 0.712 | 1.98E-08 |
| LPA | DGKI      | 0.712 | 1.95E-08 |
| LPA | DNM3      | 0.712 | 1.94E-08 |
| LPA | DPP8      | 0.712 | 2.02E-08 |
| LPA | EBAG9     | 0.712 | 2.04E-08 |
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| LPA | GHRL      | 0.712 | 1.98E-08 |
| LPA | HUS1      | 0.712 | 1.96E-08 |
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| LPA | CRNKL1    | 0.711 | 2.18E-08 |
| LPA | DLL4      | 0.711 | 2.19E-08 |
| LPA | EIF3E     | 0.711 | 2.10E-08 |
| LPA | ERGIC2    | 0.711 | 2.07E-08 |
| LPA | FGF7P3    | 0.711 | 2.17E-08 |
| LPA | GIMAP6    | 0.711 | 2.20E-08 |
| LPA | GPC4      | 0.711 | 2.17E-08 |
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| LPA | GRSF1     | 0.711 | 2.11E-08 |
| LPA | MYL12A    | 0.711 | 2.12E-08 |
| LPA | PPP1R15B  | 0.711 | 2.08E-08 |
| LPA | SNRPA1    | 0.711 | 2.19E-08 |
| LPA | SUMO3     | 0.711 | 2.09E-08 |
| LPA | TEX41     | 0.711 | 2.18E-08 |
| LPA | TFRC      | 0.711 | 2.10E-08 |
| LPA | UBE2E1    | 0.711 | 2.12E-08 |

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| LPA | ASPDH          | 0.71  | 2.22E-08 |
| LPA | CDH16          | 0.71  | 2.28E-08 |
| LPA | DHX32          | 0.71  | 2.24E-08 |
| LPA | ERO1B          | 0.71  | 2.32E-08 |
| LPA | INGX           | 0.71  | 2.26E-08 |
| LPA | MSL3           | 0.71  | 2.36E-08 |
| LPA | OSBPL3         | 0.71  | 2.22E-08 |
| LPA | RAB33A         | 0.71  | 2.27E-08 |
| LPA | RNF141         | 0.71  | 2.24E-08 |
| LPA | TEX37          | 0.71  | 2.23E-08 |
| LPA | TMEM189-UBE2V1 | 0.71  | 2.30E-08 |
| LPA | ADM            | 0.709 | 2.37E-08 |
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| LPA | BCL2L11        | 0.709 | 2.49E-08 |
| LPA | COL25A1        | 0.709 | 2.52E-08 |
| LPA | FUNDC2         | 0.709 | 2.50E-08 |
| LPA | IGFALS         | 0.709 | 2.47E-08 |
| LPA | INTS6L         | 0.709 | 2.38E-08 |
| LPA | ISCA1          | 0.709 | 2.44E-08 |
| LPA | KCNQ2          | 0.709 | 2.42E-08 |
| LPA | NKAPL          | 0.709 | 2.38E-08 |
| LPA | PDE4DIP        | 0.709 | 2.41E-08 |
| LPA | PLCL2          | 0.709 | 2.43E-08 |
| LPA | PSMD12         | 0.709 | 2.49E-08 |
| LPA | PTPDC1         | 0.709 | 2.39E-08 |
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| LPA | EPS8           | 0.708 | 2.68E-08 |
| LPA | GOLGA7         | 0.708 | 2.53E-08 |
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| LPA | ITGAV          | 0.708 | 2.65E-08 |
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| LPA | PML            | 0.708 | 2.64E-08 |
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| LPA | ZNF788         | 0.708 | 2.60E-08 |
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| LPA | DCUN1D1        | 0.707 | 2.74E-08 |
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| LPA | IP08         | 0.707 | 2.73E-08 |
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| LPA | MIEN1        | 0.707 | 2.76E-08 |
| LPA | MTX2         | 0.707 | 2.87E-08 |
| LPA | NME8         | 0.707 | 2.80E-08 |
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| LPA | RAB1F        | 0.707 | 2.77E-08 |
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| LPA | SMAD5        | 0.707 | 2.73E-08 |
| LPA | SUPV3L1      | 0.707 | 2.71E-08 |
| LPA | ACOT1        | 0.706 | 2.96E-08 |
| LPA | ACTR6        | 0.706 | 3.01E-08 |
| LPA | ATP11C       | 0.706 | 2.96E-08 |
| LPA | CARD16       | 0.706 | 2.98E-08 |
| LPA | CFAP45       | 0.706 | 2.93E-08 |
| LPA | GLTSCR2      | 0.706 | 2.90E-08 |
| LPA | ITGBL1       | 0.706 | 3.04E-08 |
| LPA | MCMBP        | 0.706 | 3.00E-08 |
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| LPA | TPK1         | 0.706 | 2.90E-08 |
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| LPA | MCOLN2       | 0.705 | 3.08E-08 |
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| LPA | RRAGB        | 0.705 | 3.08E-08 |
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| LPA | CARD8        | 0.704 | 3.38E-08 |
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| LPA | DPY30        | 0.704 | 3.39E-08 |
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| LPA | FAM188A      | 0.704 | 3.44E-08 |
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| LPA | MRPL15       | 0.704 | 3.41E-08 |

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| LPA | PAPOLG    | 0.704 | 3.47E-08 |
| LPA | PDE11A    | 0.704 | 3.40E-08 |
| LPA | PHTF2     | 0.704 | 3.34E-08 |
| LPA | PRPSAP2   | 0.704 | 3.42E-08 |
| LPA | SNAP23    | 0.704 | 3.31E-08 |
| LPA | SRP9      | 0.704 | 3.31E-08 |
| LPA | TSSK1B    | 0.704 | 3.32E-08 |
| LPA | CCNG1     | 0.703 | 3.59E-08 |
| LPA | DDO       | 0.703 | 3.63E-08 |
| LPA | DENND6A   | 0.703 | 3.60E-08 |
| LPA | ERG       | 0.703 | 3.62E-08 |
| LPA | FUNDC1    | 0.703 | 3.58E-08 |
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| LPA | KANSL2    | 0.703 | 3.67E-08 |
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| LPA | PSMA4     | 0.703 | 3.50E-08 |
| LPA | SAMD10    | 0.703 | 3.58E-08 |
| LPA | SMAP1     | 0.703 | 3.52E-08 |
| LPA | TCEAL1    | 0.703 | 3.55E-08 |
| LPA | TCERG1    | 0.703 | 3.69E-08 |
| LPA | TSPAN11   | 0.703 | 3.55E-08 |
| LPA | UBL5      | 0.703 | 3.52E-08 |
| LPA | ZDHHC22   | 0.703 | 3.59E-08 |
| LPA | ZMYM4     | 0.703 | 3.65E-08 |
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| LPA | CRB2      | 0.702 | 3.73E-08 |
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| LPA | FXD4      | 0.702 | 3.85E-08 |
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| LPA | LIN7C     | 0.702 | 3.82E-08 |
| LPA | LRRC17    | 0.702 | 3.74E-08 |
| LPA | NIPAL2    | 0.702 | 3.79E-08 |
| LPA | PSMA1     | 0.702 | 3.77E-08 |
| LPA | RNF14     | 0.702 | 3.72E-08 |
| LPA | SLC25A10  | 0.702 | 3.84E-08 |
| LPA | SNORA60   | 0.702 | 3.81E-08 |
| LPA | VPS54     | 0.702 | 3.86E-08 |
| LPA | ZNF660    | 0.702 | 3.79E-08 |
| LPA | ZNF81     | 0.702 | 3.80E-08 |
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| LPA | C5orf24   | 0.701 | 4.09E-08 |
| LPA | CAMLG     | 0.701 | 4.12E-08 |
| LPA | CCT6P1    | 0.701 | 4.05E-08 |
| LPA | DBF4      | 0.701 | 4.15E-08 |
| LPA | FUT2      | 0.701 | 4.02E-08 |
| LPA | GPN3      | 0.701 | 4.19E-08 |
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| LPA | HAUS3     | 0.701 | 3.98E-08 |
| LPA | HIST1H2AJ | 0.701 | 4.00E-08 |

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| LPA | LOC286238 | 0.701 | 4.01E-08 |
| LPA | PHF11     | 0.701 | 4.11E-08 |
| LPA | PHF20L1   | 0.701 | 4.15E-08 |
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| LPA | RAD17     | 0.701 | 4.10E-08 |
| LPA | SEPT2     | 0.701 | 3.97E-08 |
| LPA | SGO2      | 0.701 | 4.08E-08 |
| LPA | SLC16A4   | 0.701 | 4.19E-08 |
| LPA | TMEM184C  | 0.701 | 4.19E-08 |
| LPA | TSN       | 0.701 | 4.22E-08 |
| LPA | ATF4      | 0.7   | 4.47E-08 |
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| LPA | CAP1      | 0.7   | 4.31E-08 |
| LPA | DCLRE1B   | 0.7   | 4.37E-08 |
| LPA | DDX1      | 0.7   | 4.40E-08 |
| LPA | ESCO1     | 0.7   | 4.29E-08 |
| LPA | GGCT      | 0.7   | 4.32E-08 |
| LPA | GRK3      | 0.7   | 4.43E-08 |
| LPA | HIST2H4B  | 0.7   | 4.25E-08 |
| LPA | KNL1      | 0.7   | 4.37E-08 |
| LPA | NDFIP1    | 0.7   | 4.45E-08 |
| LPA | ST8SIA5   | 0.7   | 4.23E-08 |
| LPA | C10orf76  | 0.699 | 4.64E-08 |
| LPA | C5orf58   | 0.699 | 4.67E-08 |
| LPA | COPS8     | 0.699 | 4.78E-08 |
| LPA | FAM3D     | 0.699 | 4.78E-08 |
| LPA | HCN1      | 0.699 | 4.58E-08 |
| LPA | KLHL18    | 0.699 | 4.52E-08 |
| LPA | MC3R      | 0.699 | 4.72E-08 |
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| LPA | RASA1     | 0.699 | 4.73E-08 |
| LPA | RPP40     | 0.699 | 4.54E-08 |
| LPA | TEX9      | 0.699 | 4.63E-08 |
| LPA | THAP1     | 0.699 | 4.77E-08 |
| LPA | TNFRSF13B | 0.699 | 4.51E-08 |
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| LPA | TRUB2     | 0.699 | 4.76E-08 |
| LPA | ZNF260    | 0.699 | 4.77E-08 |
| LPA | BPIFA3    | 0.698 | 4.80E-08 |
| LPA | BRI3BP    | 0.698 | 4.99E-08 |
| LPA | DNAH14    | 0.698 | 4.92E-08 |
| LPA | DOCK11    | 0.698 | 4.98E-08 |
| LPA | HIST1H2AH | 0.698 | 5.01E-08 |
| LPA | MALT1     | 0.698 | 5.04E-08 |
| LPA | NDUFS6    | 0.698 | 5.04E-08 |
| LPA | POLR2G    | 0.698 | 5.09E-08 |
| LPA | SLC5A3    | 0.698 | 4.91E-08 |
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| LPA | SNRNP27   | 0.698 | 5.01E-08 |
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| LPA | ZNF700    | 0.698 | 5.05E-08 |

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| LPA | ACAN     | 0.697 | 5.41E-08 |
| LPA | ACTL6A   | 0.697 | 5.15E-08 |
| LPA | ASUN     | 0.697 | 5.34E-08 |
| LPA | FBXW7    | 0.697 | 5.36E-08 |
| LPA | FOXG1    | 0.697 | 5.39E-08 |
| LPA | HMX1     | 0.697 | 5.37E-08 |
| LPA | LARP1B   | 0.697 | 5.14E-08 |
| LPA | MAD2L1BP | 0.697 | 5.35E-08 |
| LPA | MICU2    | 0.697 | 5.30E-08 |
| LPA | MIS12    | 0.697 | 5.28E-08 |
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| LPA | PLAG1    | 0.697 | 5.30E-08 |
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| LPA | TSHR     | 0.697 | 5.20E-08 |
| LPA | TSPAN32  | 0.697 | 5.34E-08 |
| LPA | WDR61    | 0.697 | 5.32E-08 |
| LPA | ZBTB26   | 0.697 | 5.23E-08 |
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| LPA | BTBD10   | 0.696 | 5.75E-08 |
| LPA | ELP4     | 0.696 | 5.48E-08 |
| LPA | GPATCH11 | 0.696 | 5.59E-08 |
| LPA | HOXC12   | 0.696 | 5.55E-08 |
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| LPA | TRAF4    | 0.696 | 5.62E-08 |
| LPA | TRIQK    | 0.696 | 5.67E-08 |
| LPA | UBTD2    | 0.696 | 5.57E-08 |
| LPA | ZNF429   | 0.696 | 5.47E-08 |
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| LPA | ANXA5     | 0.694 | 6.23E-08 |
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| LPA | CFH       | 0.694 | 6.46E-08 |
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| LPA | FBXL21    | 0.694 | 6.34E-08 |
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| LPA | TMEM68    | 0.694 | 6.24E-08 |
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| LPA | ACE       | 0.678 | 1.68E-07 |
| LPA | ASH2L     | 0.678 | 1.60E-07 |
| LPA | C1QBP     | 0.678 | 1.60E-07 |
| LPA | C8orf74   | 0.678 | 1.65E-07 |
| LPA | CARD6     | 0.678 | 1.63E-07 |
| LPA | CNIH1     | 0.678 | 1.64E-07 |
| LPA | COLEC11   | 0.678 | 1.67E-07 |
| LPA | CSTF1     | 0.678 | 1.66E-07 |
| LPA | DMRT2     | 0.678 | 1.63E-07 |
| LPA | DUSP12    | 0.678 | 1.65E-07 |
| LPA | DYX1C1    | 0.678 | 1.65E-07 |
| LPA | ELOVL5    | 0.678 | 1.62E-07 |
| LPA | FLVCR1    | 0.678 | 1.66E-07 |
| LPA | GNPNAT1   | 0.678 | 1.66E-07 |

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| LPA | GTF3C3   | 0.678 | 1.62E-07 |
| LPA | LIG4     | 0.678 | 1.66E-07 |
| LPA | LRRN2    | 0.678 | 1.63E-07 |
| LPA | MIOS     | 0.678 | 1.65E-07 |
| LPA | NROB1    | 0.678 | 1.64E-07 |
| LPA | NSMCE2   | 0.678 | 1.61E-07 |
| LPA | PDCD6    | 0.678 | 1.69E-07 |
| LPA | PRKRA    | 0.678 | 1.61E-07 |
| LPA | SELK     | 0.678 | 1.62E-07 |
| LPA | TGFA     | 0.678 | 1.68E-07 |
| LPA | TOP1     | 0.678 | 1.66E-07 |
| LPA | TRIM10   | 0.678 | 1.68E-07 |
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| LPA | ABHD16B  | 0.677 | 1.75E-07 |
| LPA | ADAMTS12 | 0.677 | 1.75E-07 |
| LPA | BIRC2    | 0.677 | 1.72E-07 |
| LPA | C17orf75 | 0.677 | 1.78E-07 |
| LPA | DNAH2    | 0.677 | 1.78E-07 |
| LPA | DNAH3    | 0.677 | 1.74E-07 |
| LPA | DSCC1    | 0.677 | 1.72E-07 |
| LPA | ELOVL4   | 0.677 | 1.70E-07 |
| LPA | ENPP1    | 0.677 | 1.72E-07 |
| LPA | EPS15    | 0.677 | 1.75E-07 |
| LPA | FAN1     | 0.677 | 1.70E-07 |
| LPA | FARS2    | 0.677 | 1.74E-07 |
| LPA | MAP2K4   | 0.677 | 1.73E-07 |
| LPA | MYOD1    | 0.677 | 1.72E-07 |
| LPA | NCBP2    | 0.677 | 1.73E-07 |
| LPA | NXT1     | 0.677 | 1.76E-07 |
| LPA | PKIB     | 0.677 | 1.71E-07 |
| LPA | RGS20    | 0.677 | 1.78E-07 |
| LPA | RNASEL   | 0.677 | 1.75E-07 |
| LPA | RPUSD4   | 0.677 | 1.73E-07 |
| LPA | SLC25A46 | 0.677 | 1.79E-07 |
| LPA | TM2D1    | 0.677 | 1.70E-07 |
| LPA | UGP2     | 0.677 | 1.76E-07 |
| LPA | AIMP1    | 0.676 | 1.83E-07 |
| LPA | AKAP5    | 0.676 | 1.84E-07 |
| LPA | ARHGAP24 | 0.676 | 1.86E-07 |
| LPA | BMT2     | 0.676 | 1.80E-07 |
| LPA | BOD1     | 0.676 | 1.88E-07 |
| LPA | C2orf74  | 0.676 | 1.84E-07 |
| LPA | CPSF3    | 0.676 | 1.82E-07 |
| LPA | CRNDE    | 0.676 | 1.88E-07 |
| LPA | DPH2     | 0.676 | 1.89E-07 |
| LPA | FAM204A  | 0.676 | 1.85E-07 |
| LPA | FMN2     | 0.676 | 1.81E-07 |
| LPA | HADH     | 0.676 | 1.86E-07 |
| LPA | HEBP2    | 0.676 | 1.88E-07 |
| LPA | HSPA13   | 0.676 | 1.87E-07 |
| LPA | MMADHC   | 0.676 | 1.86E-07 |

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| LPA | NAA20       | 0.676 | 1.87E-07 |
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| LPA | NPRL2       | 0.676 | 1.84E-07 |
| LPA | ORC3        | 0.676 | 1.82E-07 |
| LPA | PDCD1       | 0.676 | 1.86E-07 |
| LPA | PMEL        | 0.676 | 1.81E-07 |
| LPA | PRKACB      | 0.676 | 1.84E-07 |
| LPA | PTPRZ1      | 0.676 | 1.84E-07 |
| LPA | RFPL2       | 0.676 | 1.86E-07 |
| LPA | SECTM1      | 0.676 | 1.82E-07 |
| LPA | SIRT5       | 0.676 | 1.80E-07 |
| LPA | THEM5       | 0.676 | 1.88E-07 |
| LPA | TMEM243     | 0.676 | 1.90E-07 |
| LPA | TMEM255A    | 0.676 | 1.80E-07 |
| LPA | TOMM70      | 0.676 | 1.80E-07 |
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| LPA | UBL4B       | 0.676 | 1.83E-07 |
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| LPA | USPL1       | 0.676 | 1.80E-07 |
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| LPA | YWHAZ       | 0.676 | 1.88E-07 |
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| LPA | BZW1        | 0.675 | 2.01E-07 |
| LPA | CLEC2D      | 0.675 | 1.91E-07 |
| LPA | COPS7A      | 0.675 | 1.98E-07 |
| LPA | CYP2W1      | 0.675 | 1.97E-07 |
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| LPA | GALNT1      | 0.675 | 1.94E-07 |
| LPA | NPTN        | 0.675 | 1.97E-07 |
| LPA | P2RY13      | 0.675 | 1.99E-07 |
| LPA | PTRH2       | 0.675 | 1.92E-07 |
| LPA | RPL19       | 0.675 | 1.91E-07 |
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| LPA | SLC10A7     | 0.675 | 1.95E-07 |
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| LPA | SNORD19B    | 0.675 | 1.95E-07 |
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| LPA | SRD5A1      | 0.675 | 1.99E-07 |
| LPA | TDRD3       | 0.675 | 1.97E-07 |
| LPA | THAP5       | 0.675 | 1.90E-07 |
| LPA | TTC13       | 0.675 | 1.90E-07 |
| LPA | VMA21       | 0.675 | 1.95E-07 |
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| LPA | C10orf88    | 0.674 | 2.03E-07 |
| LPA | C11orf1     | 0.674 | 2.06E-07 |
| LPA | CAAP1       | 0.674 | 2.05E-07 |
| LPA | CACYBP      | 0.674 | 2.13E-07 |
| LPA | CBFB        | 0.674 | 2.08E-07 |
| LPA | CCDC92      | 0.674 | 2.06E-07 |
| LPA | CMTM2       | 0.674 | 2.06E-07 |

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| LPA | ERLEC1   | 0.674 | 2.11E-07 |
| LPA | FAM151A  | 0.674 | 2.04E-07 |
| LPA | GPRIN2   | 0.674 | 2.11E-07 |
| LPA | INTS12   | 0.674 | 2.07E-07 |
| LPA | KCND2    | 0.674 | 2.02E-07 |
| LPA | KNOP1    | 0.674 | 2.07E-07 |
| LPA | NUP98    | 0.674 | 2.07E-07 |
| LPA | PPEF2    | 0.674 | 2.01E-07 |
| LPA | RNF7     | 0.674 | 2.02E-07 |
| LPA | RNGTT    | 0.674 | 2.09E-07 |
| LPA | RRP15    | 0.674 | 2.02E-07 |
| LPA | SAMD14   | 0.674 | 2.06E-07 |
| LPA | SNRNP48  | 0.674 | 2.03E-07 |
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| LPA | TIGD2    | 0.674 | 2.10E-07 |
| LPA | TRAPPC8  | 0.674 | 2.07E-07 |
| LPA | ZC3HC1   | 0.674 | 2.12E-07 |
| LPA | ABHD17B  | 0.673 | 2.18E-07 |
| LPA | BCCIP    | 0.673 | 2.18E-07 |
| LPA | BRCC3    | 0.673 | 2.19E-07 |
| LPA | C8orf76  | 0.673 | 2.23E-07 |
| LPA | CCL17    | 0.673 | 2.16E-07 |
| LPA | CFAP52   | 0.673 | 2.24E-07 |
| LPA | COPS5    | 0.673 | 2.21E-07 |
| LPA | COX7A2L  | 0.673 | 2.25E-07 |
| LPA | DPAGT1   | 0.673 | 2.19E-07 |
| LPA | ECHDC1   | 0.673 | 2.20E-07 |
| LPA | FM04     | 0.673 | 2.17E-07 |
| LPA | INHA     | 0.673 | 2.15E-07 |
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| LPA | KRTAP5-8 | 0.673 | 2.13E-07 |
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| LPA | LYPLA1   | 0.673 | 2.23E-07 |
| LPA | MRPL24   | 0.673 | 2.14E-07 |
| LPA | NDUFS1   | 0.673 | 2.19E-07 |
| LPA | OR7A17   | 0.673 | 2.21E-07 |
| LPA | PVR      | 0.673 | 2.14E-07 |
| LPA | R3HDM1   | 0.673 | 2.19E-07 |
| LPA | RBM26    | 0.673 | 2.15E-07 |
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| LPA | SPIN4    | 0.673 | 2.15E-07 |
| LPA | SSR2     | 0.673 | 2.22E-07 |
| LPA | TCP10    | 0.673 | 2.25E-07 |
| LPA | TNFSF4   | 0.673 | 2.13E-07 |
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| LPA | TRNT1    | 0.673 | 2.19E-07 |
| LPA | UBE2V2   | 0.673 | 2.17E-07 |
| LPA | UNC5A    | 0.673 | 2.13E-07 |
| LPA | WDR12    | 0.673 | 2.14E-07 |

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| LPA | BICD1     | 0.672 | 2.35E-07 |
| LPA | CTNNB1    | 0.672 | 2.27E-07 |
| LPA | DUSP14    | 0.672 | 2.30E-07 |
| LPA | EGFLAM    | 0.672 | 2.38E-07 |
| LPA | GPR55     | 0.672 | 2.33E-07 |
| LPA | IFNA4     | 0.672 | 2.35E-07 |
| LPA | LRBA      | 0.672 | 2.26E-07 |
| LPA | MEI1      | 0.672 | 2.29E-07 |
| LPA | MSC-AS1   | 0.672 | 2.30E-07 |
| LPA | MTMR12    | 0.672 | 2.27E-07 |
| LPA | NUS1      | 0.672 | 2.32E-07 |
| LPA | NUTM1     | 0.672 | 2.28E-07 |
| LPA | RBFOX3    | 0.672 | 2.37E-07 |
| LPA | RPL22     | 0.672 | 2.30E-07 |
| LPA | SNAPIN    | 0.672 | 2.35E-07 |
| LPA | SP110     | 0.672 | 2.30E-07 |
| LPA | SPATA9    | 0.672 | 2.35E-07 |
| LPA | TRAF5     | 0.672 | 2.29E-07 |
| LPA | UBE2D3    | 0.672 | 2.33E-07 |
| LPA | UBLCP1    | 0.672 | 2.38E-07 |
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| LPA | ZNF474    | 0.672 | 2.35E-07 |
| LPA | ABCC13    | 0.671 | 2.49E-07 |
| LPA | ARRDC3    | 0.671 | 2.39E-07 |
| LPA | CCDC30    | 0.671 | 2.46E-07 |
| LPA | CNEP1R1   | 0.671 | 2.39E-07 |
| LPA | FAM174A   | 0.671 | 2.52E-07 |
| LPA | GABARAPL2 | 0.671 | 2.51E-07 |
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| LPA | MRPL35    | 0.671 | 2.48E-07 |
| LPA | PIK3CB    | 0.671 | 2.47E-07 |
| LPA | PSMC6     | 0.671 | 2.48E-07 |
| LPA | RPL27     | 0.671 | 2.46E-07 |
| LPA | SCGB2A1   | 0.671 | 2.47E-07 |
| LPA | SCNN1G    | 0.671 | 2.39E-07 |
| LPA | SFTPC     | 0.671 | 2.45E-07 |
| LPA | SGTB      | 0.671 | 2.39E-07 |
| LPA | SLC38A3   | 0.671 | 2.47E-07 |
| LPA | SMIM13    | 0.671 | 2.45E-07 |
| LPA | SOAT1     | 0.671 | 2.43E-07 |
| LPA | SPRN      | 0.671 | 2.51E-07 |
| LPA | TIMM9     | 0.671 | 2.45E-07 |
| LPA | TMEM60    | 0.671 | 2.50E-07 |
| LPA | TSNAX     | 0.671 | 2.40E-07 |
| LPA | TTC8      | 0.671 | 2.47E-07 |
| LPA | ZNF189    | 0.671 | 2.48E-07 |
| LPA | AQP6      | 0.67  | 2.61E-07 |
| LPA | BTF3      | 0.67  | 2.54E-07 |
| LPA | CCNC      | 0.67  | 2.66E-07 |

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| LPA | CEP44     | 0.67  | 2.52E-07 |
| LPA | FAM155A   | 0.67  | 2.56E-07 |
| LPA | FCRL3     | 0.67  | 2.57E-07 |
| LPA | GNG4      | 0.67  | 2.63E-07 |
| LPA | GORASP2   | 0.67  | 2.59E-07 |
| LPA | HIST1H2BJ | 0.67  | 2.57E-07 |
| LPA | KBTBD4    | 0.67  | 2.54E-07 |
| LPA | KRT32     | 0.67  | 2.64E-07 |
| LPA | LRRC57    | 0.67  | 2.65E-07 |
| LPA | MEA1      | 0.67  | 2.55E-07 |
| LPA | MED17     | 0.67  | 2.62E-07 |
| LPA | MYBL2     | 0.67  | 2.63E-07 |
| LPA | NUDCD1    | 0.67  | 2.54E-07 |
| LPA | PPHLN1    | 0.67  | 2.60E-07 |
| LPA | SARNP     | 0.67  | 2.64E-07 |
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| LPA | SKA3      | 0.67  | 2.59E-07 |
| LPA | SPATC1    | 0.67  | 2.61E-07 |
| LPA | STXBP5    | 0.67  | 2.59E-07 |
| LPA | SUSD3     | 0.67  | 2.58E-07 |
| LPA | UXT       | 0.67  | 2.63E-07 |
| LPA | ZFP62     | 0.67  | 2.60E-07 |
| LPA | ZNF252P   | 0.67  | 2.59E-07 |
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| LPA | AFTPH     | 0.669 | 2.72E-07 |
| LPA | ARR3      | 0.669 | 2.71E-07 |
| LPA | BCKDHB    | 0.669 | 2.73E-07 |
| LPA | C14orf166 | 0.669 | 2.72E-07 |
| LPA | C19orf12  | 0.669 | 2.75E-07 |
| LPA | C2orf47   | 0.669 | 2.77E-07 |
| LPA | C9orf172  | 0.669 | 2.75E-07 |
| LPA | CDK17     | 0.669 | 2.78E-07 |
| LPA | ETAA1     | 0.669 | 2.76E-07 |
| LPA | HMGCR     | 0.669 | 2.82E-07 |
| LPA | HTR7      | 0.669 | 2.76E-07 |
| LPA | IL20RA    | 0.669 | 2.77E-07 |
| LPA | ITGB3     | 0.669 | 2.68E-07 |
| LPA | JAGN1     | 0.669 | 2.75E-07 |
| LPA | LPCAT2    | 0.669 | 2.78E-07 |
| LPA | LRRC42    | 0.669 | 2.75E-07 |
| LPA | MRRF      | 0.669 | 2.71E-07 |
| LPA | NAGA      | 0.669 | 2.77E-07 |
| LPA | NET1      | 0.669 | 2.74E-07 |
| LPA | NSDHL     | 0.669 | 2.74E-07 |
| LPA | RGS9      | 0.669 | 2.81E-07 |
| LPA | RNLS      | 0.669 | 2.74E-07 |
| LPA | SS18L2    | 0.669 | 2.78E-07 |
| LPA | TAF1D     | 0.669 | 2.67E-07 |
| LPA | TFAP2B    | 0.669 | 2.70E-07 |
| LPA | TNFAIP6   | 0.669 | 2.75E-07 |
| LPA | TRAPPC13  | 0.669 | 2.70E-07 |

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| LPA | AACS      | 0.668 | 2.94E-07 |
| LPA | ABCD4     | 0.668 | 2.97E-07 |
| LPA | ANKMY2    | 0.668 | 2.89E-07 |
| LPA | BDH2      | 0.668 | 2.97E-07 |
| LPA | BNIP3     | 0.668 | 2.84E-07 |
| LPA | C9orf72   | 0.668 | 2.89E-07 |
| LPA | CASC2     | 0.668 | 2.90E-07 |
| LPA | CHTOP     | 0.668 | 2.89E-07 |
| LPA | DDX60L    | 0.668 | 2.95E-07 |
| LPA | DLL3      | 0.668 | 2.98E-07 |
| LPA | DRC7      | 0.668 | 2.90E-07 |
| LPA | FBXO38    | 0.668 | 2.97E-07 |
| LPA | GIN51     | 0.668 | 2.83E-07 |
| LPA | GLRX3     | 0.668 | 2.94E-07 |
| LPA | GPR37     | 0.668 | 2.83E-07 |
| LPA | GTF3C6    | 0.668 | 2.95E-07 |
| LPA | HSP90AA1  | 0.668 | 2.92E-07 |
| LPA | KCNK2     | 0.668 | 2.91E-07 |
| LPA | L1TD1     | 0.668 | 2.88E-07 |
| LPA | LILRA1    | 0.668 | 2.87E-07 |
| LPA | MOGAT1    | 0.668 | 2.95E-07 |
| LPA | MPC1      | 0.668 | 2.94E-07 |
| LPA | MRPS35    | 0.668 | 2.95E-07 |
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| LPA | NEFL      | 0.668 | 2.95E-07 |
| LPA | PAGE1     | 0.668 | 2.90E-07 |
| LPA | PKNOX1    | 0.668 | 2.90E-07 |
| LPA | PNN       | 0.668 | 2.85E-07 |
| LPA | RUVBL1    | 0.668 | 2.88E-07 |
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| LPA | SNX7      | 0.668 | 2.97E-07 |
| LPA | TTL       | 0.668 | 2.92E-07 |
| LPA | UBA5      | 0.668 | 2.85E-07 |
| LPA | ZNF813    | 0.668 | 2.87E-07 |
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| LPA | ACRC      | 0.667 | 3.03E-07 |
| LPA | ASMT      | 0.667 | 2.98E-07 |
| LPA | CELF5     | 0.667 | 3.12E-07 |
| LPA | CEMP1     | 0.667 | 2.98E-07 |
| LPA | CHURC1    | 0.667 | 3.07E-07 |
| LPA | DCBLD1    | 0.667 | 3.09E-07 |
| LPA | E2F3      | 0.667 | 3.09E-07 |
| LPA | EXOSC9    | 0.667 | 3.15E-07 |
| LPA | FAM162B   | 0.667 | 3.14E-07 |
| LPA | FBXL2     | 0.667 | 3.13E-07 |
| LPA | HDDC2     | 0.667 | 3.02E-07 |
| LPA | HDX       | 0.667 | 3.05E-07 |
| LPA | HIST1H2BK | 0.667 | 3.13E-07 |
| LPA | HIVEP3    | 0.667 | 3.04E-07 |
| LPA | ICE1      | 0.667 | 3.12E-07 |
| LPA | IMPACT    | 0.667 | 3.12E-07 |

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| LPA | IRF2      | 0.667 | 3.01E-07 |
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| LPA | LOC338620 | 0.667 | 3.10E-07 |
| LPA | LRG1      | 0.667 | 3.09E-07 |
| LPA | MANEAL    | 0.667 | 3.06E-07 |
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| LPA | OR2F2     | 0.667 | 3.00E-07 |
| LPA | PDGFRL    | 0.667 | 3.14E-07 |
| LPA | PGM2      | 0.667 | 3.04E-07 |
| LPA | PWP1      | 0.667 | 3.05E-07 |
| LPA | RAB2B     | 0.667 | 2.99E-07 |
| LPA | REXO2     | 0.667 | 3.02E-07 |
| LPA | SHTN1     | 0.667 | 3.05E-07 |
| LPA | SNORD24   | 0.667 | 3.00E-07 |
| LPA | TAGAP     | 0.667 | 3.11E-07 |
| LPA | TIMM21    | 0.667 | 3.07E-07 |
| LPA | TMEM110   | 0.667 | 3.07E-07 |
| LPA | TNFSF11   | 0.667 | 3.03E-07 |
| LPA | TOMM40L   | 0.667 | 3.08E-07 |
| LPA | ZNF26     | 0.667 | 3.01E-07 |
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| LPA | ANO7      | 0.666 | 3.16E-07 |
| LPA | ARL6IP5   | 0.666 | 3.25E-07 |
| LPA | ASZ1      | 0.666 | 3.29E-07 |
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| LPA | C1orf131  | 0.666 | 3.28E-07 |
| LPA | C21orf91  | 0.666 | 3.30E-07 |
| LPA | CA2       | 0.666 | 3.22E-07 |
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| LPA | CFTR      | 0.666 | 3.17E-07 |
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| LPA | ETFDH     | 0.666 | 3.22E-07 |
| LPA | FBXO33    | 0.666 | 3.26E-07 |
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| LPA | IFI6      | 0.666 | 3.18E-07 |
| LPA | KLRD1     | 0.666 | 3.21E-07 |
| LPA | MAP3K2    | 0.666 | 3.16E-07 |
| LPA | ONECUT3   | 0.666 | 3.21E-07 |
| LPA | PRIM1     | 0.666 | 3.25E-07 |
| LPA | PUS7L     | 0.666 | 3.17E-07 |
| LPA | REG3A     | 0.666 | 3.31E-07 |
| LPA | SARDH     | 0.666 | 3.31E-07 |
| LPA | SPDEF     | 0.666 | 3.24E-07 |
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| LPA | TBCE      | 0.666 | 3.24E-07 |
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| LPA | WDHD1     | 0.666 | 3.25E-07 |
| LPA | WHAMM     | 0.666 | 3.32E-07 |
| LPA | XPR1      | 0.666 | 3.19E-07 |
| LPA | AGPAT4    | 0.665 | 3.49E-07 |

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| LPA | AIPL1     | 0.665 | 3.41E-07 |
| LPA | ARL15     | 0.665 | 3.34E-07 |
| LPA | ARPC5     | 0.665 | 3.43E-07 |
| LPA | C9orf163  | 0.665 | 3.39E-07 |
| LPA | CAPSL     | 0.665 | 3.50E-07 |
| LPA | CEBPZ     | 0.665 | 3.43E-07 |
| LPA | DCUN1D5   | 0.665 | 3.51E-07 |
| LPA | EIF2B2    | 0.665 | 3.41E-07 |
| LPA | EP400NL   | 0.665 | 3.35E-07 |
| LPA | FDX1      | 0.665 | 3.41E-07 |
| LPA | GDNF      | 0.665 | 3.33E-07 |
| LPA | GRPEL2    | 0.665 | 3.44E-07 |
| LPA | HADHB     | 0.665 | 3.38E-07 |
| LPA | HPGD      | 0.665 | 3.39E-07 |
| LPA | LTA       | 0.665 | 3.41E-07 |
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| LPA | NGB       | 0.665 | 3.36E-07 |
| LPA | NOX4      | 0.665 | 3.50E-07 |
| LPA | ORC4      | 0.665 | 3.38E-07 |
| LPA | PCGF6     | 0.665 | 3.51E-07 |
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| LPA | POC5      | 0.665 | 3.50E-07 |
| LPA | PPIC      | 0.665 | 3.48E-07 |
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| LPA | RFESD     | 0.665 | 3.42E-07 |
| LPA | RGPD2     | 0.665 | 3.33E-07 |
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| LPA | SNX4      | 0.665 | 3.42E-07 |
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| LPA | TLR1      | 0.665 | 3.51E-07 |
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| LPA | ZNF207    | 0.665 | 3.36E-07 |
| LPA | ZNF697    | 0.665 | 3.42E-07 |
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| LPA | CDH24     | 0.664 | 3.65E-07 |
| LPA | CR1L      | 0.664 | 3.71E-07 |
| LPA | CREBL2    | 0.664 | 3.54E-07 |
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| LPA | EMC2      | 0.664 | 3.58E-07 |
| LPA | ERMARD    | 0.664 | 3.58E-07 |
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| LPA | MGAT2        | 0.664 | 3.57E-07 |
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| LPA | RPL11        | 0.664 | 3.56E-07 |
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| LPA | SUB1         | 0.664 | 3.55E-07 |
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| LPA | BDNF-AS      | 0.663 | 3.76E-07 |
| LPA | C12orf45     | 0.663 | 3.92E-07 |
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| LPA | CEP57        | 0.663 | 3.92E-07 |
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| LPA | DGKZ         | 0.663 | 3.81E-07 |
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| LPA | HCFC2        | 0.663 | 3.85E-07 |
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| LPA | RCBTB2       | 0.663 | 3.76E-07 |
| LPA | RHBDL3       | 0.663 | 3.89E-07 |
| LPA | SOGA3        | 0.663 | 3.72E-07 |
| LPA | SPTLC1       | 0.663 | 3.90E-07 |
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| LPA | STRAP        | 0.663 | 3.74E-07 |
| LPA | SYT3         | 0.663 | 3.78E-07 |
| LPA | TMEM183B     | 0.663 | 3.79E-07 |
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| LPA | TMEM92       | 0.663 | 3.72E-07 |

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| LPA | CLEC4F     | 0.662 | 4.00E-07 |
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| LPA | DAD1       | 0.662 | 4.05E-07 |
| LPA | ECD        | 0.662 | 4.09E-07 |
| LPA | EPDR1      | 0.662 | 4.10E-07 |
| LPA | GTF2IRD2   | 0.662 | 3.94E-07 |
| LPA | IER3IP1    | 0.662 | 3.98E-07 |
| LPA | MOCS2      | 0.662 | 4.04E-07 |
| LPA | OTUD4      | 0.662 | 4.09E-07 |
| LPA | PNLIPRP2   | 0.662 | 3.94E-07 |
| LPA | RAB29      | 0.662 | 4.09E-07 |
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| LPA | RNF152     | 0.662 | 3.97E-07 |
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| LPA | B3GALNT1  | 0.66  | 4.52E-07 |
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| LPA | CDC26     | 0.66  | 4.57E-07 |
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| LPA | SEPHS2    | 0.66  | 4.53E-07 |
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| LPA | GTPBP4    | 0.659 | 4.71E-07 |
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| LPA | LYST      | 0.659 | 4.66E-07 |
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| LPA | NKX2-3    | 0.659 | 4.79E-07 |
| LPA | PDCD6IP   | 0.659 | 4.81E-07 |
| LPA | PFN2      | 0.659 | 4.87E-07 |
| LPA | RASAL2    | 0.659 | 4.63E-07 |
| LPA | RSL24D1   | 0.659 | 4.75E-07 |
| LPA | SCP2D1    | 0.659 | 4.82E-07 |
| LPA | SPTA1     | 0.659 | 4.84E-07 |
| LPA | TADA2A    | 0.659 | 4.73E-07 |
| LPA | TMSB4Y    | 0.659 | 4.79E-07 |
| LPA | TUBD1     | 0.659 | 4.76E-07 |
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| LPA | WDYHV1    | 0.659 | 4.71E-07 |
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| LPA | NUDT15    | 0.658 | 5.06E-07 |
| LPA | PCDHGC4   | 0.658 | 5.05E-07 |
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| LPA | RAB25     | 0.658 | 4.93E-07 |
| LPA | RIC1      | 0.658 | 4.97E-07 |
| LPA | RNF6      | 0.658 | 4.89E-07 |
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| LPA | SCYL3     | 0.658 | 4.94E-07 |
| LPA | SDHAF3    | 0.658 | 4.98E-07 |
| LPA | SLC13A2   | 0.658 | 5.06E-07 |
| LPA | SWSAP1    | 0.658 | 5.10E-07 |
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| LPA | TIGD3     | 0.658 | 5.07E-07 |
| LPA | ZBTB32    | 0.658 | 5.12E-07 |
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| LPA | ZNF497    | 0.658 | 5.08E-07 |
| LPA | ADAMTSL1  | 0.657 | 5.24E-07 |
| LPA | ARL14EP   | 0.657 | 5.22E-07 |
| LPA | BECN1     | 0.657 | 5.27E-07 |
| LPA | BFSP1     | 0.657 | 5.37E-07 |
| LPA | C10orf53  | 0.657 | 5.17E-07 |
| LPA | C11orf58  | 0.657 | 5.40E-07 |
| LPA | CALCR     | 0.657 | 5.42E-07 |

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| LPA | CSTF3     | 0.657 | 5.22E-07 |
| LPA | DGKH      | 0.657 | 5.24E-07 |
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| LPA | GLMN      | 0.657 | 5.19E-07 |
| LPA | HOXD8     | 0.657 | 5.34E-07 |
| LPA | HPGDS     | 0.657 | 5.38E-07 |
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| LPA | KRT33A    | 0.657 | 5.34E-07 |
| LPA | LBX1      | 0.657 | 5.24E-07 |
| LPA | LRRC70    | 0.657 | 5.27E-07 |
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| LPA | NOL11     | 0.657 | 5.33E-07 |
| LPA | PCID2     | 0.657 | 5.35E-07 |
| LPA | PEX2      | 0.657 | 5.20E-07 |
| LPA | PSMA5     | 0.657 | 5.23E-07 |
| LPA | PSMG1     | 0.657 | 5.35E-07 |
| LPA | RLIM      | 0.657 | 5.37E-07 |
| LPA | RND1      | 0.657 | 5.19E-07 |
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| LPA | CCDC59    | 0.656 | 5.53E-07 |
| LPA | CERS6     | 0.656 | 5.59E-07 |
| LPA | CHMP2B    | 0.656 | 5.44E-07 |
| LPA | FBX08     | 0.656 | 5.69E-07 |
| LPA | FKBPL     | 0.656 | 5.72E-07 |
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| LPA | HNRNPDL   | 0.656 | 5.43E-07 |
| LPA | HSD17B11  | 0.656 | 5.44E-07 |
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| LPA | MED20     | 0.656 | 5.58E-07 |
| LPA | MINOS1    | 0.656 | 5.47E-07 |
| LPA | N4BP1     | 0.656 | 5.65E-07 |
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| LPA | PNLIP     | 0.656 | 5.62E-07 |

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| LPA | PUS3      | 0.656 | 5.71E-07 |
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| LPA | SMARCE1   | 0.656 | 5.60E-07 |
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| LPA | GJB3      | 0.655 | 5.74E-07 |
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| LPA | KIR2DS3   | 0.655 | 5.84E-07 |
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| LPA | PLPP5    | 0.654 | 6.17E-07 |
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| LPA | TACSTD2   | 0.645 | 9.65E-07 |
| LPA | TFAP2C    | 0.645 | 1.01E-06 |
| LPA | TMEM167A  | 0.645 | 9.91E-07 |
| LPA | TRAM1L1   | 0.645 | 9.67E-07 |
| LPA | UBA52     | 0.645 | 1.00E-06 |
| LPA | VRK1      | 0.645 | 9.74E-07 |
| LPA | XRCC5     | 0.645 | 1.00E-06 |
| LPA | ZNF32     | 0.645 | 9.68E-07 |
| LPA | ZYG11A    | 0.645 | 9.96E-07 |
| LPA | ADSL      | 0.644 | 1.06E-06 |
| LPA | ALG1      | 0.644 | 1.06E-06 |
| LPA | AP4S1     | 0.644 | 1.07E-06 |
| LPA | ATP1B3    | 0.644 | 1.04E-06 |
| LPA | BCL2A1    | 0.644 | 1.06E-06 |
| LPA | C10orf67  | 0.644 | 1.02E-06 |
| LPA | CCIN      | 0.644 | 1.04E-06 |
| LPA | CCNB1     | 0.644 | 1.06E-06 |
| LPA | CELA3A    | 0.644 | 1.04E-06 |
| LPA | DSCR4     | 0.644 | 1.02E-06 |
| LPA | DTL       | 0.644 | 1.02E-06 |
| LPA | ENDOV     | 0.644 | 1.03E-06 |
| LPA | FLT1      | 0.644 | 1.03E-06 |
| LPA | GJA1      | 0.644 | 1.01E-06 |

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| LPA | GPR160    | 0.644 | 1.04E-06 |
| LPA | GPR45     | 0.644 | 1.06E-06 |
| LPA | HOXC5     | 0.644 | 1.04E-06 |
| LPA | HSBP1     | 0.644 | 1.04E-06 |
| LPA | IL27      | 0.644 | 1.03E-06 |
| LPA | KIAA1468  | 0.644 | 1.07E-06 |
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| LPA | MRPL14    | 0.644 | 1.02E-06 |
| LPA | NCOA4     | 0.644 | 1.06E-06 |
| LPA | NIPBL     | 0.644 | 1.02E-06 |
| LPA | NUDT5     | 0.644 | 1.05E-06 |
| LPA | OMA1      | 0.644 | 1.02E-06 |
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| LPA | RUNX1-IT1 | 0.644 | 1.06E-06 |
| LPA | SCARNA17  | 0.644 | 1.04E-06 |
| LPA | SETD3     | 0.644 | 1.04E-06 |
| LPA | SLC35A1   | 0.644 | 1.04E-06 |
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| LPA | ATPAF2    | 0.643 | 1.08E-06 |
| LPA | CCNE2     | 0.643 | 1.10E-06 |
| LPA | CDRT15L2  | 0.643 | 1.12E-06 |
| LPA | CPT2      | 0.643 | 1.08E-06 |
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| LPA | PRG2      | 0.643 | 1.12E-06 |
| LPA | RFWD2     | 0.643 | 1.08E-06 |
| LPA | RPL10A    | 0.643 | 1.11E-06 |

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| LPA | RPL12     | 0.643 | 1.12E-06 |
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| LPA | SLC36A4   | 0.643 | 1.10E-06 |
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| LPA | SNX3      | 0.643 | 1.12E-06 |
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| LPA | ST8SIA4   | 0.643 | 1.12E-06 |
| LPA | THAP11    | 0.643 | 1.10E-06 |
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| LPA | ZMYM2     | 0.643 | 1.11E-06 |
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| LPA | CGB1      | 0.642 | 1.18E-06 |
| LPA | CHRNA4    | 0.642 | 1.13E-06 |
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| LPA | CTSK      | 0.642 | 1.18E-06 |
| LPA | DEK       | 0.642 | 1.17E-06 |
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| LPA | IL12RB1   | 0.642 | 1.17E-06 |
| LPA | KRT31     | 0.642 | 1.13E-06 |
| LPA | LMBR1L    | 0.642 | 1.13E-06 |
| LPA | MAPK14    | 0.642 | 1.13E-06 |
| LPA | MOGAT2    | 0.642 | 1.18E-06 |
| LPA | NGDN      | 0.642 | 1.14E-06 |
| LPA | NR3C1     | 0.642 | 1.18E-06 |
| LPA | PAPD7     | 0.642 | 1.15E-06 |
| LPA | PCBD2     | 0.642 | 1.17E-06 |
| LPA | PPP3R1    | 0.642 | 1.15E-06 |
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| LPA | RWDD2A    | 0.642 | 1.13E-06 |
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| LPA | WAPL      | 0.642 | 1.17E-06 |
| LPA | AFP       | 0.641 | 1.21E-06 |
| LPA | AIFM1     | 0.641 | 1.18E-06 |
| LPA | C2orf42   | 0.641 | 1.20E-06 |
| LPA | CABP1     | 0.641 | 1.19E-06 |
| LPA | CHUK      | 0.641 | 1.20E-06 |
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| LPA | HSPA4     | 0.641 | 1.20E-06 |
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| LPA | CLCNKB    | 0.64  | 1.29E-06 |
| LPA | CNN3      | 0.64  | 1.28E-06 |
| LPA | CNOT9     | 0.64  | 1.29E-06 |

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| LPA | GDAP2     | 0.64  | 1.26E-06 |
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| LPA | LSMEM2    | 0.64  | 1.30E-06 |
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| LPA | CMAHP     | 0.639 | 1.37E-06 |
| LPA | COQ9      | 0.639 | 1.34E-06 |
| LPA | CPXM1     | 0.639 | 1.32E-06 |
| LPA | EFR3A     | 0.639 | 1.31E-06 |
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| LPA | FOXL1     | 0.639 | 1.35E-06 |
| LPA | GPR21     | 0.639 | 1.35E-06 |
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| LPA | HPF1      | 0.639 | 1.37E-06 |
| LPA | HSD11B2   | 0.639 | 1.33E-06 |
| LPA | IRAK2     | 0.639 | 1.32E-06 |
| LPA | KATNA1    | 0.639 | 1.33E-06 |
| LPA | LINC01405 | 0.639 | 1.36E-06 |
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| LPA | MMGT1     | 0.639 | 1.35E-06 |
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| LPA | NEDD8     | 0.639 | 1.36E-06 |
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| LPA | PIGV      | 0.639 | 1.31E-06 |

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| LPA | PKP3         | 0.639 | 1.35E-06 |
| LPA | RNF125       | 0.639 | 1.33E-06 |
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| LPA | SERPINB4     | 0.639 | 1.37E-06 |
| LPA | SLC4A7       | 0.639 | 1.32E-06 |
| LPA | SLC6A15      | 0.639 | 1.31E-06 |
| LPA | SYT15        | 0.639 | 1.34E-06 |
| LPA | TMEM72       | 0.639 | 1.34E-06 |
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| LPA | CBR4         | 0.638 | 1.43E-06 |
| LPA | CIB1         | 0.638 | 1.43E-06 |
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| LPA | GLRX5        | 0.638 | 1.39E-06 |
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| LPA | LRRC56       | 0.638 | 1.39E-06 |
| LPA | MALSU1       | 0.638 | 1.41E-06 |
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| LPA | MEOX2        | 0.638 | 1.43E-06 |
| LPA | MRPL53       | 0.638 | 1.44E-06 |
| LPA | MYLK4        | 0.638 | 1.39E-06 |
| LPA | PDE3A        | 0.638 | 1.43E-06 |
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| LPA | TP53AIP1     | 0.638 | 1.44E-06 |
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| LPA | BCL7B     | 0.637 | 1.45E-06 |
| LPA | BLVRA     | 0.637 | 1.49E-06 |
| LPA | CAPZA1    | 0.637 | 1.49E-06 |
| LPA | CCDC91    | 0.637 | 1.51E-06 |
| LPA | CFAP97    | 0.637 | 1.48E-06 |
| LPA | CFC1B     | 0.637 | 1.49E-06 |
| LPA | CLDN12    | 0.637 | 1.45E-06 |
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| LPA | FAU       | 0.637 | 1.46E-06 |
| LPA | FOXA1     | 0.637 | 1.46E-06 |
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| LPA | SLCO3A1   | 0.637 | 1.46E-06 |
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| LPA | ASF1A     | 0.636 | 1.55E-06 |
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| LPA | C17orf51  | 0.636 | 1.56E-06 |

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| LPA | PSMB3    | 0.636 | 1.55E-06 |
| LPA | PSMG2    | 0.636 | 1.55E-06 |
| LPA | RPL36AL  | 0.636 | 1.53E-06 |
| LPA | RSRP1    | 0.636 | 1.58E-06 |
| LPA | SHFM1    | 0.636 | 1.57E-06 |
| LPA | SLC18A1  | 0.636 | 1.58E-06 |
| LPA | SLC38A9  | 0.636 | 1.54E-06 |
| LPA | STX3     | 0.636 | 1.57E-06 |
| LPA | SWAP70   | 0.636 | 1.55E-06 |
| LPA | TCEAL4   | 0.636 | 1.57E-06 |
| LPA | ZCRB1    | 0.636 | 1.58E-06 |
| LPA | ZDHHC20  | 0.636 | 1.56E-06 |
| LPA | ZNF23    | 0.636 | 1.56E-06 |
| LPA | ZNF350   | 0.636 | 1.54E-06 |
| LPA | ZNF584   | 0.636 | 1.58E-06 |
| LPA | ABCD3    | 0.635 | 1.62E-06 |
| LPA | ATL1     | 0.635 | 1.62E-06 |
| LPA | ATP5G2   | 0.635 | 1.63E-06 |
| LPA | AZI2     | 0.635 | 1.64E-06 |
| LPA | B9D2     | 0.635 | 1.64E-06 |
| LPA | CARD14   | 0.635 | 1.60E-06 |
| LPA | CPE      | 0.635 | 1.60E-06 |
| LPA | CXorf40A | 0.635 | 1.64E-06 |
| LPA | DDX46    | 0.635 | 1.60E-06 |
| LPA | DHRS9    | 0.635 | 1.66E-06 |

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| LPA | DMRTB1    | 0.635 | 1.64E-06 |
| LPA | DNAJC1    | 0.635 | 1.65E-06 |
| LPA | ERCC5     | 0.635 | 1.66E-06 |
| LPA | EVPLL     | 0.635 | 1.59E-06 |
| LPA | GNAI1     | 0.635 | 1.62E-06 |
| LPA | HGD       | 0.635 | 1.65E-06 |
| LPA | IFRD1     | 0.635 | 1.64E-06 |
| LPA | LETMD1    | 0.635 | 1.65E-06 |
| LPA | LIN28B    | 0.635 | 1.60E-06 |
| LPA | LINC00543 | 0.635 | 1.67E-06 |
| LPA | MAP4K4    | 0.635 | 1.62E-06 |
| LPA | MPZL3     | 0.635 | 1.67E-06 |
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| LPA | MRPS25    | 0.635 | 1.60E-06 |
| LPA | MYL12B    | 0.635 | 1.60E-06 |
| LPA | NDUFAF7   | 0.635 | 1.60E-06 |
| LPA | NOL8      | 0.635 | 1.61E-06 |
| LPA | NOS2      | 0.635 | 1.61E-06 |
| LPA | PCTP      | 0.635 | 1.64E-06 |
| LPA | RGS10     | 0.635 | 1.64E-06 |
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| LPA | SPRY4     | 0.635 | 1.64E-06 |
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| LPA | TMEM14A   | 0.635 | 1.64E-06 |
| LPA | TMEM161B  | 0.635 | 1.59E-06 |
| LPA | TRAF6     | 0.635 | 1.65E-06 |
| LPA | USHBP1    | 0.635 | 1.64E-06 |
| LPA | WDR20     | 0.635 | 1.60E-06 |
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| LPA | AP3S1     | 0.634 | 1.75E-06 |
| LPA | ATG9B     | 0.634 | 1.75E-06 |
| LPA | CAPZA2    | 0.634 | 1.69E-06 |
| LPA | CENPVL2   | 0.634 | 1.75E-06 |
| LPA | CHST8     | 0.634 | 1.76E-06 |
| LPA | CNIH2     | 0.634 | 1.70E-06 |
| LPA | CST7      | 0.634 | 1.70E-06 |
| LPA | DMXL2     | 0.634 | 1.70E-06 |
| LPA | EVI2A     | 0.634 | 1.68E-06 |
| LPA | FIRRE     | 0.634 | 1.73E-06 |
| LPA | FRMD6     | 0.634 | 1.73E-06 |
| LPA | GGTA1P    | 0.634 | 1.68E-06 |
| LPA | HMP19     | 0.634 | 1.72E-06 |
| LPA | IFI44L    | 0.634 | 1.74E-06 |
| LPA | ITFG1     | 0.634 | 1.74E-06 |
| LPA | KLRG1     | 0.634 | 1.73E-06 |
| LPA | LY75      | 0.634 | 1.69E-06 |
| LPA | MB21D2    | 0.634 | 1.71E-06 |
| LPA | MRPL36    | 0.634 | 1.70E-06 |
| LPA | MRPS28    | 0.634 | 1.72E-06 |

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| LPA | NEK4     | 0.634 | 1.71E-06 |
| LPA | OXSM     | 0.634 | 1.73E-06 |
| LPA | PELI1    | 0.634 | 1.74E-06 |
| LPA | PGM2L1   | 0.634 | 1.71E-06 |
| LPA | PTGDR2   | 0.634 | 1.72E-06 |
| LPA | PUS7     | 0.634 | 1.73E-06 |
| LPA | RPS24    | 0.634 | 1.73E-06 |
| LPA | SEPT11   | 0.634 | 1.70E-06 |
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| LPA | SMAD2    | 0.634 | 1.70E-06 |
| LPA | SRSF10   | 0.634 | 1.71E-06 |
| LPA | TNFSF13  | 0.634 | 1.70E-06 |
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| LPA | AP4B1    | 0.633 | 1.77E-06 |
| LPA | ASB7     | 0.633 | 1.84E-06 |
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| LPA | CD244    | 0.633 | 1.81E-06 |
| LPA | DCTN4    | 0.633 | 1.81E-06 |
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| LPA | EXOSC10  | 0.633 | 1.77E-06 |
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| LPA | GGCX     | 0.633 | 1.84E-06 |
| LPA | GPALPP1  | 0.633 | 1.83E-06 |
| LPA | HSH2D    | 0.633 | 1.79E-06 |
| LPA | IARS     | 0.633 | 1.81E-06 |
| LPA | KBTBD3   | 0.633 | 1.82E-06 |
| LPA | LRIF1    | 0.633 | 1.79E-06 |
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| LPA | NDUFA5   | 0.633 | 1.78E-06 |
| LPA | NHS      | 0.633 | 1.82E-06 |
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| LPA | NSMCE4A  | 0.633 | 1.83E-06 |
| LPA | PIGN     | 0.633 | 1.80E-06 |
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| LPA | SLC25A24   | 0.633 | 1.78E-06 |
| LPA | SLC43A3    | 0.633 | 1.83E-06 |
| LPA | SLC7A60S   | 0.633 | 1.81E-06 |
| LPA | SMURF2     | 0.633 | 1.78E-06 |
| LPA | SNORD10    | 0.633 | 1.78E-06 |
| LPA | TAS2R16    | 0.633 | 1.82E-06 |
| LPA | THAP2      | 0.633 | 1.82E-06 |
| LPA | TM2D3      | 0.633 | 1.78E-06 |
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| LPA | TYR        | 0.633 | 1.78E-06 |
| LPA | VWA5B1     | 0.633 | 1.84E-06 |
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| LPA | B3GNT2     | 0.632 | 1.88E-06 |
| LPA | BARX1      | 0.632 | 1.85E-06 |
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| LPA | C1orf43    | 0.632 | 1.93E-06 |
| LPA | C5orf34    | 0.632 | 1.92E-06 |
| LPA | CD1D       | 0.632 | 1.90E-06 |
| LPA | CDK7       | 0.632 | 1.86E-06 |
| LPA | CHST5      | 0.632 | 1.92E-06 |
| LPA | COL20A1    | 0.632 | 1.85E-06 |
| LPA | COPB1      | 0.632 | 1.87E-06 |
| LPA | COX5B      | 0.632 | 1.91E-06 |
| LPA | F11R       | 0.632 | 1.91E-06 |
| LPA | FAM208A    | 0.632 | 1.88E-06 |
| LPA | GLCE       | 0.632 | 1.87E-06 |
| LPA | GNRH2      | 0.632 | 1.86E-06 |
| LPA | HIPK4      | 0.632 | 1.93E-06 |
| LPA | HPRT1      | 0.632 | 1.89E-06 |
| LPA | KCNJ6      | 0.632 | 1.87E-06 |
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| LPA | NCAM2      | 0.632 | 1.86E-06 |
| LPA | NHLRC3     | 0.632 | 1.85E-06 |
| LPA | NME1       | 0.632 | 1.93E-06 |
| LPA | NPM1       | 0.632 | 1.89E-06 |
| LPA | NRSN1      | 0.632 | 1.87E-06 |
| LPA | NUP160     | 0.632 | 1.85E-06 |
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| LPA | PECR       | 0.632 | 1.85E-06 |
| LPA | PHF19      | 0.632 | 1.94E-06 |
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| LPA | RUNDC3A    | 0.632 | 1.90E-06 |
| LPA | STAM       | 0.632 | 1.88E-06 |
| LPA | SUCLG2-AS1 | 0.632 | 1.89E-06 |
| LPA | TIGAR      | 0.632 | 1.89E-06 |
| LPA | TMEM55A    | 0.632 | 1.91E-06 |

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| LPA | TTC4     | 0.632 | 1.86E-06 |
| LPA | UACA     | 0.632 | 1.86E-06 |
| LPA | UBE2J2   | 0.632 | 1.87E-06 |
| LPA | USP1     | 0.632 | 1.92E-06 |
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| LPA | ZNF224   | 0.632 | 1.87E-06 |
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| LPA | CCDC57   | 0.631 | 1.94E-06 |
| LPA | CWC15    | 0.631 | 1.98E-06 |
| LPA | DNAAF3   | 0.631 | 2.00E-06 |
| LPA | DYRK3    | 0.631 | 2.00E-06 |
| LPA | ELOVL6   | 0.631 | 1.94E-06 |
| LPA | EMC6     | 0.631 | 1.99E-06 |
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| LPA | FAM8A1   | 0.631 | 2.03E-06 |
| LPA | GCA      | 0.631 | 2.01E-06 |
| LPA | GCN1     | 0.631 | 2.01E-06 |
| LPA | GUCA1B   | 0.631 | 2.02E-06 |
| LPA | H2AFZ    | 0.631 | 1.99E-06 |
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| LPA | KERA     | 0.631 | 1.94E-06 |
| LPA | KLRC2    | 0.631 | 2.03E-06 |
| LPA | LAMP2    | 0.631 | 1.95E-06 |
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| LPA | MLKL     | 0.631 | 2.03E-06 |
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| LPA | PDZD11   | 0.631 | 2.03E-06 |
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| LPA | POGLUT1  | 0.631 | 2.02E-06 |
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| LPA | RFC2     | 0.631 | 2.03E-06 |
| LPA | RPS3     | 0.631 | 1.97E-06 |
| LPA | SFT2D1   | 0.631 | 1.96E-06 |
| LPA | SFXN1    | 0.631 | 1.95E-06 |
| LPA | SLC44A1  | 0.631 | 2.01E-06 |
| LPA | SNHG1    | 0.631 | 2.03E-06 |
| LPA | TIA1     | 0.631 | 2.00E-06 |
| LPA | TMEM126B | 0.631 | 2.03E-06 |
| LPA | TMEM99   | 0.631 | 2.02E-06 |
| LPA | VTI1B    | 0.631 | 1.94E-06 |
| LPA | YTHDC2   | 0.631 | 1.95E-06 |
| LPA | ZFR2     | 0.631 | 2.03E-06 |
| LPA | ZNHIT3   | 0.631 | 1.94E-06 |
| LPA | CCDC51   | 0.63  | 2.06E-06 |
| LPA | CD47     | 0.63  | 2.07E-06 |

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| LPA | CDK10     | 0.63  | 2.07E-06 |
| LPA | CEP76     | 0.63  | 2.11E-06 |
| LPA | CRADD     | 0.63  | 2.07E-06 |
| LPA | DHFR2     | 0.63  | 2.06E-06 |
| LPA | DLEU1     | 0.63  | 2.11E-06 |
| LPA | EIF3I     | 0.63  | 2.08E-06 |
| LPA | FAM60A    | 0.63  | 2.09E-06 |
| LPA | FAM98A    | 0.63  | 2.13E-06 |
| LPA | FUT5      | 0.63  | 2.13E-06 |
| LPA | IL10RB    | 0.63  | 2.09E-06 |
| LPA | IL4       | 0.63  | 2.04E-06 |
| LPA | KMT2E-AS1 | 0.63  | 2.06E-06 |
| LPA | LCK       | 0.63  | 2.06E-06 |
| LPA | MDFIC     | 0.63  | 2.08E-06 |
| LPA | MGAT5     | 0.63  | 2.08E-06 |
| LPA | MPHOSPH10 | 0.63  | 2.12E-06 |
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| LPA | N4BP2L1   | 0.63  | 2.12E-06 |
| LPA | NDUFAF2   | 0.63  | 2.07E-06 |
| LPA | NGF       | 0.63  | 2.06E-06 |
| LPA | NMT2      | 0.63  | 2.07E-06 |
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| LPA | OTUD6B    | 0.63  | 2.09E-06 |
| LPA | PABPC1L2B | 0.63  | 2.09E-06 |
| LPA | PAGE5     | 0.63  | 2.04E-06 |
| LPA | RDX       | 0.63  | 2.10E-06 |
| LPA | RMI1      | 0.63  | 2.13E-06 |
| LPA | RPS25     | 0.63  | 2.11E-06 |
| LPA | SHOX2     | 0.63  | 2.07E-06 |
| LPA | SNRK      | 0.63  | 2.05E-06 |
| LPA | TBPL1     | 0.63  | 2.06E-06 |
| LPA | TIGIT     | 0.63  | 2.11E-06 |
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| LPA | TMEM9B    | 0.63  | 2.05E-06 |
| LPA | TRMT11    | 0.63  | 2.06E-06 |
| LPA | TXNL1     | 0.63  | 2.06E-06 |
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| LPA | AMIGO3    | 0.629 | 2.17E-06 |
| LPA | ATP6V1A   | 0.629 | 2.15E-06 |
| LPA | AVEN      | 0.629 | 2.21E-06 |
| LPA | C4orf33   | 0.629 | 2.14E-06 |
| LPA | CEND1     | 0.629 | 2.22E-06 |
| LPA | CLEC18A   | 0.629 | 2.19E-06 |
| LPA | CMPK2     | 0.629 | 2.14E-06 |
| LPA | COMMD10   | 0.629 | 2.24E-06 |
| LPA | DAZAP2    | 0.629 | 2.16E-06 |
| LPA | DYNLL1    | 0.629 | 2.22E-06 |
| LPA | ENTPD1    | 0.629 | 2.18E-06 |
| LPA | GABARAP   | 0.629 | 2.17E-06 |

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| LPA | GPANK1       | 0.629 | 2.14E-06 |
| LPA | KRTAP2-3     | 0.629 | 2.15E-06 |
| LPA | KRTCAP2      | 0.629 | 2.23E-06 |
| LPA | LIF          | 0.629 | 2.22E-06 |
| LPA | LUC7L2       | 0.629 | 2.18E-06 |
| LPA | MYO5C        | 0.629 | 2.23E-06 |
| LPA | NUP107       | 0.629 | 2.22E-06 |
| LPA | OLFM3        | 0.629 | 2.20E-06 |
| LPA | PIWIL4       | 0.629 | 2.23E-06 |
| LPA | POLR3D       | 0.629 | 2.20E-06 |
| LPA | PRDM15       | 0.629 | 2.17E-06 |
| LPA | RNF17        | 0.629 | 2.23E-06 |
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| LPA | SMARCA5      | 0.629 | 2.21E-06 |
| LPA | STK4         | 0.629 | 2.24E-06 |
| LPA | TBC1D12      | 0.629 | 2.22E-06 |
| LPA | TCEAL9       | 0.629 | 2.16E-06 |
| LPA | TCL1B        | 0.629 | 2.22E-06 |
| LPA | TMLHE        | 0.629 | 2.17E-06 |
| LPA | WDR89        | 0.629 | 2.15E-06 |
| LPA | ZNF709       | 0.629 | 2.17E-06 |
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| LPA | BCAS3        | 0.628 | 2.31E-06 |
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| LPA | C17orf98     | 0.628 | 2.26E-06 |
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| LPA | CPB1         | 0.628 | 2.27E-06 |
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| LPA | EDF1         | 0.628 | 2.28E-06 |
| LPA | EIF2S2       | 0.628 | 2.35E-06 |
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| LPA | FBXO3        | 0.628 | 2.29E-06 |
| LPA | FGF10        | 0.628 | 2.31E-06 |
| LPA | GPR157       | 0.628 | 2.32E-06 |
| LPA | GPRIN3       | 0.628 | 2.25E-06 |
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| LPA | MGARP        | 0.628 | 2.28E-06 |
| LPA | MME          | 0.628 | 2.32E-06 |
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| LPA | NT5C         | 0.628 | 2.30E-06 |

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| LPA | PLEK2        | 0.628 | 2.30E-06 |
| LPA | PUS10        | 0.628 | 2.34E-06 |
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| LPA | RAB3GAP2     | 0.628 | 2.30E-06 |
| LPA | RAD51D       | 0.628 | 2.33E-06 |
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| LPA | SYTL1        | 0.628 | 2.25E-06 |
| LPA | TMEM117      | 0.628 | 2.32E-06 |
| LPA | TMEM120B     | 0.628 | 2.32E-06 |
| LPA | TNFSF8       | 0.628 | 2.26E-06 |
| LPA | TOE1         | 0.628 | 2.34E-06 |
| LPA | UHRF1BP1L    | 0.628 | 2.34E-06 |
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| LPA | BCLAF1       | 0.627 | 2.47E-06 |
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| LPA | PADI3        | 0.627 | 2.36E-06 |
| LPA | PFDN2        | 0.627 | 2.45E-06 |

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| LPA | PIK3R6    | 0.627 | 2.36E-06 |
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| LPA | RBM22     | 0.627 | 2.38E-06 |
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| LPA | SCGB1D1   | 0.627 | 2.41E-06 |
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| LPA | FOXP3-AS1 | 0.622 | 3.07E-06 |
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| LPA | ZNF542P  | 0.62  | 3.43E-06 |
| LPA | ZNF626   | 0.62  | 3.29E-06 |
| LPA | ADAMTSL5 | 0.619 | 3.52E-06 |
| LPA | ALG14    | 0.619 | 3.48E-06 |
| LPA | ALYREF   | 0.619 | 3.48E-06 |
| LPA | ANKS6    | 0.619 | 3.55E-06 |
| LPA | ATP2B2   | 0.619 | 3.57E-06 |
| LPA | BCL2     | 0.619 | 3.45E-06 |
| LPA | BDKRB1   | 0.619 | 3.47E-06 |
| LPA | BMPR2    | 0.619 | 3.51E-06 |
| LPA | BNC2     | 0.619 | 3.56E-06 |
| LPA | BRIP1    | 0.619 | 3.47E-06 |
| LPA | BTAF1    | 0.619 | 3.44E-06 |
| LPA | CCDC62   | 0.619 | 3.59E-06 |
| LPA | CDKL1    | 0.619 | 3.59E-06 |
| LPA | CEP57L1  | 0.619 | 3.57E-06 |
| LPA | CYP4F30P | 0.619 | 3.54E-06 |
| LPA | DNASE1   | 0.619 | 3.51E-06 |
| LPA | DPF1     | 0.619 | 3.52E-06 |
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| LPA | EIF3M    | 0.619 | 3.50E-06 |
| LPA | GMEB1    | 0.619 | 3.46E-06 |
| LPA | GPATCH2L | 0.619 | 3.46E-06 |
| LPA | GYPC     | 0.619 | 3.55E-06 |
| LPA | INTS8    | 0.619 | 3.52E-06 |
| LPA | JKAMP    | 0.619 | 3.53E-06 |
| LPA | KIN      | 0.619 | 3.54E-06 |
| LPA | KLK15    | 0.619 | 3.44E-06 |
| LPA | MPEG1    | 0.619 | 3.48E-06 |
| LPA | MRC1     | 0.619 | 3.56E-06 |
| LPA | NOM1     | 0.619 | 3.49E-06 |
| LPA | PASK     | 0.619 | 3.48E-06 |
| LPA | PCDHA10  | 0.619 | 3.54E-06 |
| LPA | PLGLB1   | 0.619 | 3.56E-06 |
| LPA | POLD3    | 0.619 | 3.53E-06 |
| LPA | RBM28    | 0.619 | 3.58E-06 |
| LPA | RECQL4   | 0.619 | 3.45E-06 |
| LPA | RFX4     | 0.619 | 3.45E-06 |
| LPA | SFTPB    | 0.619 | 3.50E-06 |

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| LPA | SH3BP4      | 0.619 | 3.44E-06 |
| LPA | SHQ1        | 0.619 | 3.50E-06 |
| LPA | SIAH1       | 0.619 | 3.54E-06 |
| LPA | SLC35F5     | 0.619 | 3.44E-06 |
| LPA | SNORD87     | 0.619 | 3.58E-06 |
| LPA | STXBP3      | 0.619 | 3.48E-06 |
| LPA | SVIP        | 0.619 | 3.44E-06 |
| LPA | TIMM8B      | 0.619 | 3.51E-06 |
| LPA | TOMM6       | 0.619 | 3.51E-06 |
| LPA | TRIM67      | 0.619 | 3.47E-06 |
| LPA | TTC32       | 0.619 | 3.50E-06 |
| LPA | TTC33       | 0.619 | 3.60E-06 |
| LPA | UBE2G1      | 0.619 | 3.45E-06 |
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| LPA | AIM1L       | 0.618 | 3.62E-06 |
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| LPA | ATP5B       | 0.618 | 3.62E-06 |
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| LPA | FDXR        | 0.618 | 3.73E-06 |
| LPA | GRAMD3      | 0.618 | 3.75E-06 |
| LPA | GTPBP8      | 0.618 | 3.70E-06 |
| LPA | HIST1H1T    | 0.618 | 3.65E-06 |
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| LPA | LAMTOR5-AS1 | 0.618 | 3.67E-06 |
| LPA | MEST        | 0.618 | 3.60E-06 |
| LPA | MTO1        | 0.618 | 3.68E-06 |
| LPA | NEK10       | 0.618 | 3.66E-06 |
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| LPA | OSER1       | 0.618 | 3.75E-06 |
| LPA | P4HA1       | 0.618 | 3.74E-06 |
| LPA | PCCA        | 0.618 | 3.69E-06 |
| LPA | PHKB        | 0.618 | 3.66E-06 |
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| LPA | RPS27L      | 0.618 | 3.67E-06 |
| LPA | SCYL2       | 0.618 | 3.74E-06 |
| LPA | SLC25A13    | 0.618 | 3.64E-06 |
| LPA | SLC39A7     | 0.618 | 3.69E-06 |
| LPA | SPRED1      | 0.618 | 3.75E-06 |
| LPA | SSR1        | 0.618 | 3.76E-06 |
| LPA | TASP1       | 0.618 | 3.77E-06 |
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| LPA | TMED5       | 0.618 | 3.71E-06 |
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| LPA | ZDHHC13     | 0.618 | 3.66E-06 |

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| LPA | BTBD1     | 0.617 | 3.88E-06 |
| LPA | C3orf14   | 0.617 | 3.94E-06 |
| LPA | CACNA2D4  | 0.617 | 3.78E-06 |
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| LPA | COX7C     | 0.617 | 3.88E-06 |
| LPA | DEPDC7    | 0.617 | 3.84E-06 |
| LPA | DOK5      | 0.617 | 3.84E-06 |
| LPA | DUSP22    | 0.617 | 3.83E-06 |
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| LPA | EXOSC1    | 0.617 | 3.87E-06 |
| LPA | FAM57B    | 0.617 | 3.86E-06 |
| LPA | GOLGA8DP  | 0.617 | 3.83E-06 |
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| LPA | DEFB127  | 0.616 | 4.04E-06 |
| LPA | DNASE1L1 | 0.616 | 4.01E-06 |
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| LPA | IGF2BP1  | 0.616 | 4.10E-06 |
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| LPA | YME1L1   | 0.616 | 3.96E-06 |
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| LPA | FEM1B        | 0.615 | 4.31E-06 |
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| LPA | GOLT1B       | 0.615 | 4.30E-06 |
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| LPA | ASB6         | 0.614 | 4.35E-06 |
| LPA | ATP5F1       | 0.614 | 4.33E-06 |
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| LPA | CCNT1        | 0.614 | 4.36E-06 |
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| LPA | DNAJC15      | 0.614 | 4.49E-06 |

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| LPA | UGT2A3     | 0.614 | 4.34E-06 |
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| LPA | DAPL1      | 0.613 | 4.58E-06 |
| LPA | DNAJB11    | 0.613 | 4.66E-06 |
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| LPA | GABRD      | 0.613 | 4.72E-06 |
| LPA | GNMT       | 0.613 | 4.68E-06 |
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| LPA | IFNA7      | 0.613 | 4.58E-06 |

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| LPA | METAP1   | 0.613 | 4.54E-06 |
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| LPA | SUCO     | 0.613 | 4.71E-06 |
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| LPA | IRF7     | 0.612 | 4.77E-06 |
| LPA | JAKMIP1  | 0.612 | 4.96E-06 |
| LPA | KRTAP2-2 | 0.612 | 4.87E-06 |

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| LPA | PCK2            | 0.612 | 4.92E-06 |
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| LPA | DLGAP1-AS1 | 0.596 | 9.95E-06 |
| LPA | EVL        | 0.596 | 9.95E-06 |
| LPA | FCHO2      | 0.596 | 9.90E-06 |
| LPA | FCRL2      | 0.596 | 9.77E-06 |
| LPA | FUT9       | 0.596 | 9.76E-06 |
| LPA | GIMAP8     | 0.596 | 9.72E-06 |
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| LPA | CD200      | 0.595 | 1.05E-05 |

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| LPA | EGOT         | 0.593 | 1.14E-05 |
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| LPA | MED27    | 0.589 | 1.33E-05 |

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| LPA | MKL2      | 0.589 | 1.34E-05 |
| LPA | NCEH1     | 0.589 | 1.34E-05 |
| LPA | NR5A1     | 0.589 | 1.33E-05 |
| LPA | NTN3      | 0.589 | 1.32E-05 |
| LPA | OGFRL1    | 0.589 | 1.33E-05 |
| LPA | PCDH10    | 0.589 | 1.35E-05 |
| LPA | PGBD2     | 0.589 | 1.31E-05 |
| LPA | PXT1      | 0.589 | 1.34E-05 |
| LPA | RAB43     | 0.589 | 1.32E-05 |
| LPA | RRN3      | 0.589 | 1.31E-05 |
| LPA | SEC23A    | 0.589 | 1.33E-05 |
| LPA | SIKE1     | 0.589 | 1.36E-05 |
| LPA | SPTBN5    | 0.589 | 1.33E-05 |
| LPA | STRADB    | 0.589 | 1.34E-05 |
| LPA | SYNJ1     | 0.589 | 1.34E-05 |
| LPA | TMC8      | 0.589 | 1.35E-05 |
| LPA | TNFRSF11A | 0.589 | 1.33E-05 |
| LPA | TNFSF13B  | 0.589 | 1.31E-05 |
| LPA | TPGS2     | 0.589 | 1.35E-05 |
| LPA | TPRG1     | 0.589 | 1.34E-05 |
| LPA | UPF2      | 0.589 | 1.30E-05 |
| LPA | VTCN1     | 0.589 | 1.34E-05 |
| LPA | ZNF280B   | 0.589 | 1.33E-05 |
| LPA | ADGRF4    | 0.588 | 1.39E-05 |
| LPA | ADH6      | 0.588 | 1.39E-05 |
| LPA | ADM5      | 0.588 | 1.37E-05 |
| LPA | ANKRD18A  | 0.588 | 1.41E-05 |
| LPA | BRD8      | 0.588 | 1.36E-05 |
| LPA | CAND1     | 0.588 | 1.38E-05 |
| LPA | CCDC129   | 0.588 | 1.40E-05 |
| LPA | CECR6     | 0.588 | 1.38E-05 |
| LPA | CHRM4     | 0.588 | 1.36E-05 |
| LPA | CNNM2     | 0.588 | 1.41E-05 |
| LPA | COIL      | 0.588 | 1.40E-05 |
| LPA | CWF19L2   | 0.588 | 1.40E-05 |
| LPA | DAZAP1    | 0.588 | 1.38E-05 |
| LPA | DCTPP1    | 0.588 | 1.39E-05 |
| LPA | DPY19L3   | 0.588 | 1.36E-05 |
| LPA | ENOX1     | 0.588 | 1.36E-05 |
| LPA | ERCC6     | 0.588 | 1.41E-05 |
| LPA | FAM103A1  | 0.588 | 1.37E-05 |
| LPA | FAM81A    | 0.588 | 1.37E-05 |
| LPA | FGF17     | 0.588 | 1.40E-05 |
| LPA | GPR155    | 0.588 | 1.39E-05 |
| LPA | GSK3A     | 0.588 | 1.36E-05 |
| LPA | GUCY2F    | 0.588 | 1.41E-05 |
| LPA | HEXB      | 0.588 | 1.40E-05 |
| LPA | HSF2      | 0.588 | 1.38E-05 |
| LPA | IFNAR2    | 0.588 | 1.41E-05 |
| LPA | IFT43     | 0.588 | 1.36E-05 |
| LPA | IMPA1     | 0.588 | 1.39E-05 |

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| LPA | JMY      | 0.588 | 1.40E-05 |
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| LPA | KRTCAP3  | 0.588 | 1.36E-05 |
| LPA | LECT1    | 0.588 | 1.40E-05 |
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| LPA | LSMEM1   | 0.588 | 1.40E-05 |
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| LPA | NAV2     | 0.588 | 1.37E-05 |
| LPA | NRP2     | 0.588 | 1.38E-05 |
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| LPA | REG3G    | 0.588 | 1.40E-05 |
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| LPA | RPS6KC1  | 0.588 | 1.37E-05 |
| LPA | S100A13  | 0.588 | 1.39E-05 |
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| LPA | SEPT4    | 0.588 | 1.38E-05 |
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| LPA | STAT1    | 0.588 | 1.37E-05 |
| LPA | TAF12    | 0.588 | 1.39E-05 |
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| LPA | TRMT112  | 0.588 | 1.38E-05 |
| LPA | TRPC6    | 0.588 | 1.36E-05 |
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| LPA | XIAP     | 0.588 | 1.37E-05 |
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| LPA | ADH4     | 0.587 | 1.42E-05 |
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| LPA | BMS1     | 0.587 | 1.45E-05 |
| LPA | C12orf76 | 0.587 | 1.42E-05 |
| LPA | CCDC112  | 0.587 | 1.45E-05 |
| LPA | CDR1     | 0.587 | 1.45E-05 |
| LPA | CDS2     | 0.587 | 1.45E-05 |
| LPA | CMAS     | 0.587 | 1.44E-05 |
| LPA | DCAF13   | 0.587 | 1.47E-05 |
| LPA | DEPDC1   | 0.587 | 1.45E-05 |
| LPA | DOK3     | 0.587 | 1.43E-05 |
| LPA | DPCR1    | 0.587 | 1.46E-05 |
| LPA | ESPN     | 0.587 | 1.43E-05 |
| LPA | ETS1     | 0.587 | 1.46E-05 |
| LPA | FCHSD1   | 0.587 | 1.46E-05 |

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| LPA | FZD4         | 0.587 | 1.45E-05 |
| LPA | GABRG2       | 0.587 | 1.46E-05 |
| LPA | GFM1         | 0.587 | 1.44E-05 |
| LPA | GUCD1        | 0.587 | 1.42E-05 |
| LPA | HEATR5B      | 0.587 | 1.43E-05 |
| LPA | HPS3         | 0.587 | 1.46E-05 |
| LPA | HSD17B12     | 0.587 | 1.42E-05 |
| LPA | HSPG2        | 0.587 | 1.44E-05 |
| LPA | IQCB1        | 0.587 | 1.47E-05 |
| LPA | KCNK3        | 0.587 | 1.42E-05 |
| LPA | KCNQ1        | 0.587 | 1.46E-05 |
| LPA | KHK          | 0.587 | 1.44E-05 |
| LPA | KLK8         | 0.587 | 1.43E-05 |
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| LPA | MIR1292      | 0.587 | 1.43E-05 |
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| LPA | POLR2D       | 0.587 | 1.47E-05 |
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| LPA | SCAND2P      | 0.587 | 1.43E-05 |
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| LPA | ZNF696       | 0.587 | 1.45E-05 |
| LPA | ZNHIT6       | 0.587 | 1.47E-05 |
| LPA | ADGRF2       | 0.586 | 1.52E-05 |
| LPA | AKR1A1       | 0.586 | 1.54E-05 |
| LPA | ANKHD1       | 0.586 | 1.48E-05 |
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| LPA | CACNB2       | 0.586 | 1.50E-05 |
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| LPA | CDCA7        | 0.586 | 1.49E-05 |
| LPA | CPEB4        | 0.586 | 1.52E-05 |
| LPA | CPXCR1       | 0.586 | 1.50E-05 |
| LPA | CTNNAL1      | 0.586 | 1.50E-05 |
| LPA | CTR9         | 0.586 | 1.53E-05 |
| LPA | DNMT1        | 0.586 | 1.52E-05 |
| LPA | FBXO6        | 0.586 | 1.51E-05 |
| LPA | FGF21        | 0.586 | 1.53E-05 |
| LPA | GJB5         | 0.586 | 1.49E-05 |

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| LPA | IL21R        | 0.586 | 1.54E-05 |
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| LPA | LIPC         | 0.586 | 1.48E-05 |
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| LPA | LPIN1        | 0.586 | 1.52E-05 |
| LPA | MLPH         | 0.586 | 1.52E-05 |
| LPA | MPV17L2      | 0.586 | 1.53E-05 |
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| LPA | NIFK         | 0.586 | 1.48E-05 |
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| LPA | POLI         | 0.586 | 1.50E-05 |
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| LPA | RCAN3        | 0.586 | 1.53E-05 |
| LPA | SECISBP2     | 0.586 | 1.48E-05 |
| LPA | SNORD8       | 0.586 | 1.53E-05 |
| LPA | SNX11        | 0.586 | 1.48E-05 |
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| LPA | SYTL2        | 0.586 | 1.48E-05 |
| LPA | TBCC         | 0.586 | 1.51E-05 |
| LPA | TIMM13       | 0.586 | 1.48E-05 |
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| LPA | UGT2B4       | 0.586 | 1.54E-05 |
| LPA | USP37        | 0.586 | 1.49E-05 |
| LPA | ZBTB21       | 0.586 | 1.53E-05 |
| LPA | ZMAT4        | 0.586 | 1.48E-05 |
| LPA | ZMYM5        | 0.586 | 1.52E-05 |
| LPA | ZNF48        | 0.586 | 1.51E-05 |
| LPA | ZNF618       | 0.586 | 1.52E-05 |
| LPA | ALG5         | 0.585 | 1.57E-05 |
| LPA | ATP5J        | 0.585 | 1.59E-05 |
| LPA | CHMP6        | 0.585 | 1.55E-05 |
| LPA | CNOT8        | 0.585 | 1.54E-05 |
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| LPA | CSRNP2       | 0.585 | 1.59E-05 |
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| LPA | FRMD7        | 0.585 | 1.55E-05 |
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| LPA | KIRREL       | 0.585 | 1.54E-05 |
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| LPA | LOC90768     | 0.585 | 1.59E-05 |

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| LPA | LYG1      | 0.585 | 1.55E-05 |
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| LPA | MFAP3     | 0.585 | 1.56E-05 |
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| LPA | PAFAH1B1  | 0.585 | 1.57E-05 |
| LPA | PLB1      | 0.585 | 1.54E-05 |
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| LPA | RIOK2     | 0.585 | 1.60E-05 |
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| LPA | SIX2      | 0.585 | 1.54E-05 |
| LPA | TMEM241   | 0.585 | 1.60E-05 |
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| LPA | TRMT61A   | 0.585 | 1.57E-05 |
| LPA | TSPAN6    | 0.585 | 1.60E-05 |
| LPA | TXNDC11   | 0.585 | 1.54E-05 |
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| LPA | VPS13A    | 0.585 | 1.58E-05 |
| LPA | ZNF107    | 0.585 | 1.58E-05 |
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| LPA | ADAM30    | 0.584 | 1.62E-05 |
| LPA | ADAT1     | 0.584 | 1.64E-05 |
| LPA | ATXN1     | 0.584 | 1.61E-05 |
| LPA | BUD31     | 0.584 | 1.64E-05 |
| LPA | CCDC115   | 0.584 | 1.66E-05 |
| LPA | CEBPG     | 0.584 | 1.63E-05 |
| LPA | COX7B2    | 0.584 | 1.62E-05 |
| LPA | CREB3L4   | 0.584 | 1.64E-05 |
| LPA | DCX       | 0.584 | 1.66E-05 |
| LPA | DDX39A    | 0.584 | 1.61E-05 |
| LPA | DIS3      | 0.584 | 1.63E-05 |
| LPA | EMC3      | 0.584 | 1.63E-05 |
| LPA | EMX1      | 0.584 | 1.61E-05 |
| LPA | GJA3      | 0.584 | 1.64E-05 |
| LPA | HIST1H2BD | 0.584 | 1.63E-05 |
| LPA | IL18      | 0.584 | 1.61E-05 |
| LPA | IPPK      | 0.584 | 1.64E-05 |
| LPA | ITIH3     | 0.584 | 1.61E-05 |
| LPA | KRTAP4-8  | 0.584 | 1.64E-05 |
| LPA | LZTFL1    | 0.584 | 1.64E-05 |
| LPA | MAGEA9B   | 0.584 | 1.66E-05 |
| LPA | MRGBP     | 0.584 | 1.63E-05 |

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| LPA | NELL1     | 0.584 | 1.61E-05 |
| LPA | PAF1      | 0.584 | 1.62E-05 |
| LPA | PGAP2     | 0.584 | 1.62E-05 |
| LPA | PPIA      | 0.584 | 1.63E-05 |
| LPA | PSCA      | 0.584 | 1.65E-05 |
| LPA | PTGER1    | 0.584 | 1.66E-05 |
| LPA | PTOV1-AS1 | 0.584 | 1.66E-05 |
| LPA | PTPRJ     | 0.584 | 1.67E-05 |
| LPA | RASSF2    | 0.584 | 1.67E-05 |
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| LPA | VPS8      | 0.584 | 1.66E-05 |
| LPA | WBP11     | 0.584 | 1.62E-05 |
| LPA | ZNF529    | 0.584 | 1.66E-05 |
| LPA | ARAP2     | 0.583 | 1.73E-05 |
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| LPA | ATP13A3   | 0.583 | 1.72E-05 |
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| LPA | EPG5      | 0.583 | 1.69E-05 |
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| LPA | FGD6      | 0.583 | 1.69E-05 |
| LPA | GSTM3     | 0.583 | 1.74E-05 |
| LPA | HINT1     | 0.583 | 1.74E-05 |
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| LPA | MGMT      | 0.583 | 1.71E-05 |
| LPA | MRAP2     | 0.583 | 1.69E-05 |
| LPA | NAA15     | 0.583 | 1.70E-05 |
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| LPA | OSTF1     | 0.583 | 1.72E-05 |
| LPA | OXSRI     | 0.583 | 1.72E-05 |
| LPA | PARPBP    | 0.583 | 1.70E-05 |

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| LPA | PTER         | 0.583 | 1.67E-05 |
| LPA | RBM17        | 0.583 | 1.71E-05 |
| LPA | RBM25        | 0.583 | 1.67E-05 |
| LPA | SIGLEC7      | 0.583 | 1.71E-05 |
| LPA | SLC25A2      | 0.583 | 1.71E-05 |
| LPA | SLC39A12     | 0.583 | 1.67E-05 |
| LPA | SNORD42A     | 0.583 | 1.69E-05 |
| LPA | SULT2B1      | 0.583 | 1.69E-05 |
| LPA | TMTC3        | 0.583 | 1.72E-05 |
| LPA | TTC37        | 0.583 | 1.67E-05 |
| LPA | U2AF1L4      | 0.583 | 1.71E-05 |
| LPA | UCA1         | 0.583 | 1.74E-05 |
| LPA | VEGFA        | 0.583 | 1.72E-05 |
| LPA | ZNF16        | 0.583 | 1.73E-05 |
| LPA | ZNF382       | 0.583 | 1.67E-05 |
| LPA | ADCY3        | 0.582 | 1.80E-05 |
| LPA | ANKRD17      | 0.582 | 1.81E-05 |
| LPA | ATXN1L       | 0.582 | 1.77E-05 |
| LPA | C4orf32      | 0.582 | 1.76E-05 |
| LPA | CDY1         | 0.582 | 1.77E-05 |
| LPA | CITED2       | 0.582 | 1.77E-05 |
| LPA | COL6A3       | 0.582 | 1.80E-05 |
| LPA | COMMD6       | 0.582 | 1.81E-05 |
| LPA | CPNE2        | 0.582 | 1.76E-05 |
| LPA | EIF3D        | 0.582 | 1.81E-05 |
| LPA | ERCC1        | 0.582 | 1.75E-05 |
| LPA | FAM160B1     | 0.582 | 1.75E-05 |
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| LPA | HECTD2       | 0.582 | 1.75E-05 |
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| LPA | IMPDH2       | 0.582 | 1.77E-05 |
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| LPA | KIF2A        | 0.582 | 1.79E-05 |
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| LPA | MRPS33       | 0.582 | 1.75E-05 |
| LPA | MTSS1        | 0.582 | 1.74E-05 |
| LPA | OCIAD2       | 0.582 | 1.81E-05 |
| LPA | PDZD9        | 0.582 | 1.79E-05 |
| LPA | PIH1D1       | 0.582 | 1.80E-05 |
| LPA | PLAA         | 0.582 | 1.81E-05 |
| LPA | PLPP1        | 0.582 | 1.76E-05 |
| LPA | PMF1         | 0.582 | 1.78E-05 |

|     |          |       |          |
|-----|----------|-------|----------|
| LPA | PNMA1    | 0.582 | 1.80E-05 |
| LPA | PNPLA3   | 0.582 | 1.78E-05 |
| LPA | POLA1    | 0.582 | 1.79E-05 |
| LPA | PRRC2C   | 0.582 | 1.79E-05 |
| LPA | PSMB8    | 0.582 | 1.78E-05 |
| LPA | RANBP17  | 0.582 | 1.75E-05 |
| LPA | RBKS     | 0.582 | 1.80E-05 |
| LPA | ROPN1    | 0.582 | 1.80E-05 |
| LPA | SDE2     | 0.582 | 1.78E-05 |
| LPA | SEMA4F   | 0.582 | 1.80E-05 |
| LPA | SLFNL1   | 0.582 | 1.76E-05 |
| LPA | SNORD65  | 0.582 | 1.76E-05 |
| LPA | SNORD83B | 0.582 | 1.78E-05 |
| LPA | TFIP11   | 0.582 | 1.76E-05 |
| LPA | TH       | 0.582 | 1.76E-05 |
| LPA | TIGD1    | 0.582 | 1.80E-05 |
| LPA | TLR2     | 0.582 | 1.81E-05 |
| LPA | TMEM102  | 0.582 | 1.75E-05 |
| LPA | TOX4     | 0.582 | 1.79E-05 |
| LPA | TRIP4    | 0.582 | 1.80E-05 |
| LPA | TRPM6    | 0.582 | 1.75E-05 |
| LPA | TUBA3D   | 0.582 | 1.78E-05 |
| LPA | UGGT2    | 0.582 | 1.75E-05 |
| LPA | VAMP4    | 0.582 | 1.79E-05 |
| LPA | VPS72    | 0.582 | 1.79E-05 |
| LPA | WBP4     | 0.582 | 1.76E-05 |
| LPA | WDR27    | 0.582 | 1.75E-05 |
| LPA | A1BG-AS1 | 0.581 | 1.82E-05 |
| LPA | ARF6     | 0.581 | 1.83E-05 |
| LPA | BLNK     | 0.581 | 1.87E-05 |
| LPA | BST1     | 0.581 | 1.89E-05 |
| LPA | BTBD6    | 0.581 | 1.86E-05 |
| LPA | CALCA    | 0.581 | 1.86E-05 |
| LPA | CARTPT   | 0.581 | 1.82E-05 |
| LPA | COX11    | 0.581 | 1.86E-05 |
| LPA | CXCR4    | 0.581 | 1.85E-05 |
| LPA | CXCR6    | 0.581 | 1.82E-05 |
| LPA | DCXR     | 0.581 | 1.88E-05 |
| LPA | DIRAS1   | 0.581 | 1.82E-05 |
| LPA | DMD      | 0.581 | 1.87E-05 |
| LPA | DRAM2    | 0.581 | 1.85E-05 |
| LPA | EPHA4    | 0.581 | 1.87E-05 |
| LPA | FAM134B  | 0.581 | 1.83E-05 |
| LPA | FAR2     | 0.581 | 1.83E-05 |
| LPA | GABPA    | 0.581 | 1.84E-05 |
| LPA | GBP3     | 0.581 | 1.84E-05 |
| LPA | GPR39    | 0.581 | 1.88E-05 |
| LPA | GRK2     | 0.581 | 1.84E-05 |
| LPA | HLA-DPB2 | 0.581 | 1.86E-05 |
| LPA | HMHB1    | 0.581 | 1.85E-05 |
| LPA | HOXB1    | 0.581 | 1.82E-05 |

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|-----|-----------|-------|----------|
| LPA | IMPAD1    | 0.581 | 1.88E-05 |
| LPA | ISG15     | 0.581 | 1.85E-05 |
| LPA | KDR       | 0.581 | 1.87E-05 |
| LPA | LINC00052 | 0.581 | 1.89E-05 |
| LPA | LINC00470 | 0.581 | 1.86E-05 |
| LPA | MINA      | 0.581 | 1.85E-05 |
| LPA | MYZAP     | 0.581 | 1.88E-05 |
| LPA | NUDT4P1   | 0.581 | 1.85E-05 |
| LPA | OCIAD1    | 0.581 | 1.86E-05 |
| LPA | OSCP1     | 0.581 | 1.86E-05 |
| LPA | PAICS     | 0.581 | 1.87E-05 |
| LPA | PNPLA5    | 0.581 | 1.88E-05 |
| LPA | PRSS50    | 0.581 | 1.86E-05 |
| LPA | RDH8      | 0.581 | 1.89E-05 |
| LPA | RPL5      | 0.581 | 1.82E-05 |
| LPA | SH3BP2    | 0.581 | 1.82E-05 |
| LPA | SLITRK2   | 0.581 | 1.83E-05 |
| LPA | SPHK1     | 0.581 | 1.82E-05 |
| LPA | TGOLN2    | 0.581 | 1.87E-05 |
| LPA | THAP4     | 0.581 | 1.86E-05 |
| LPA | TMEM163   | 0.581 | 1.88E-05 |
| LPA | UGT1A3    | 0.581 | 1.84E-05 |
| LPA | VPS37C    | 0.581 | 1.83E-05 |
| LPA | VSIG1     | 0.581 | 1.87E-05 |
| LPA | ZNF221    | 0.581 | 1.86E-05 |
| LPA | ZNF655    | 0.581 | 1.87E-05 |
| LPA | ZNF782    | 0.581 | 1.86E-05 |
| LPA | ZSCAN2    | 0.581 | 1.82E-05 |
| LPA | AGXT2     | 0.58  | 1.97E-05 |
| LPA | AMER1     | 0.58  | 1.94E-05 |
| LPA | ATM       | 0.58  | 1.94E-05 |
| LPA | BHLHE22   | 0.58  | 1.91E-05 |
| LPA | BPTF      | 0.58  | 1.91E-05 |
| LPA | C22orf24  | 0.58  | 1.90E-05 |
| LPA | CCR6      | 0.58  | 1.97E-05 |
| LPA | CD247     | 0.58  | 1.97E-05 |
| LPA | COX4I1    | 0.58  | 1.92E-05 |
| LPA | DNAH17    | 0.58  | 1.96E-05 |
| LPA | DNMT3L    | 0.58  | 1.91E-05 |
| LPA | EDIL3     | 0.58  | 1.94E-05 |
| LPA | ENOSF1    | 0.58  | 1.97E-05 |
| LPA | FBN1      | 0.58  | 1.97E-05 |
| LPA | FLAD1     | 0.58  | 1.94E-05 |
| LPA | GART      | 0.58  | 1.95E-05 |
| LPA | GH2       | 0.58  | 1.91E-05 |
| LPA | HIST1H4G  | 0.58  | 1.96E-05 |
| LPA | LRCH1     | 0.58  | 1.95E-05 |
| LPA | MFSD4B    | 0.58  | 1.93E-05 |
| LPA | MRPS31    | 0.58  | 1.97E-05 |
| LPA | NCR2      | 0.58  | 1.93E-05 |
| LPA | NFKBIL1   | 0.58  | 1.94E-05 |

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| LPA | OR2W1     | 0.58  | 1.95E-05 |
| LPA | OR6W1P    | 0.58  | 1.93E-05 |
| LPA | OR7E37P   | 0.58  | 1.90E-05 |
| LPA | P2RX6     | 0.58  | 1.94E-05 |
| LPA | PCMTD1    | 0.58  | 1.95E-05 |
| LPA | PCNP      | 0.58  | 1.94E-05 |
| LPA | PIN1      | 0.58  | 1.93E-05 |
| LPA | PPP1R2    | 0.58  | 1.96E-05 |
| LPA | PRDX3     | 0.58  | 1.95E-05 |
| LPA | PRPF4     | 0.58  | 1.94E-05 |
| LPA | PRSS55    | 0.58  | 1.94E-05 |
| LPA | PSEN1     | 0.58  | 1.93E-05 |
| LPA | PSMD9     | 0.58  | 1.95E-05 |
| LPA | QKI       | 0.58  | 1.89E-05 |
| LPA | RASGEF1B  | 0.58  | 1.92E-05 |
| LPA | RNF8      | 0.58  | 1.97E-05 |
| LPA | RPL9      | 0.58  | 1.95E-05 |
| LPA | SEC23IP   | 0.58  | 1.91E-05 |
| LPA | SNX30     | 0.58  | 1.93E-05 |
| LPA | SPATA31E1 | 0.58  | 1.96E-05 |
| LPA | SUOX      | 0.58  | 1.92E-05 |
| LPA | TBCK      | 0.58  | 1.92E-05 |
| LPA | TNK1      | 0.58  | 1.96E-05 |
| LPA | WNT10B    | 0.58  | 1.95E-05 |
| LPA | ZDHHC21   | 0.58  | 1.95E-05 |
| LPA | ZFP30     | 0.58  | 1.95E-05 |
| LPA | ZNF354A   | 0.58  | 1.91E-05 |
| LPA | ZNF485    | 0.58  | 1.97E-05 |
| LPA | ABHD3     | 0.579 | 1.99E-05 |
| LPA | AIFM3     | 0.579 | 1.97E-05 |
| LPA | ANGPT1    | 0.579 | 2.03E-05 |
| LPA | BORCS6    | 0.579 | 2.02E-05 |
| LPA | BRD7P3    | 0.579 | 2.04E-05 |
| LPA | C2orf83   | 0.579 | 2.02E-05 |
| LPA | CACNA2D1  | 0.579 | 1.98E-05 |
| LPA | CCDC137   | 0.579 | 1.98E-05 |
| LPA | CRIP3     | 0.579 | 2.02E-05 |
| LPA | CYP2C9    | 0.579 | 2.02E-05 |
| LPA | ECI2      | 0.579 | 1.99E-05 |
| LPA | EFNB2     | 0.579 | 1.98E-05 |
| LPA | EXOC2     | 0.579 | 2.04E-05 |
| LPA | FAM199X   | 0.579 | 2.00E-05 |
| LPA | FBXO44    | 0.579 | 2.04E-05 |
| LPA | FXN       | 0.579 | 2.02E-05 |
| LPA | HIST1H3I  | 0.579 | 1.98E-05 |
| LPA | HSD11B1   | 0.579 | 2.00E-05 |
| LPA | IARS2     | 0.579 | 1.97E-05 |
| LPA | IGFBP3    | 0.579 | 2.00E-05 |
| LPA | ITIH6     | 0.579 | 1.99E-05 |
| LPA | KCNK7     | 0.579 | 1.99E-05 |
| LPA | KLC3      | 0.579 | 1.97E-05 |

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|-----|----------|-------|----------|
| LPA | LGSN     | 0.579 | 2.01E-05 |
| LPA | LYRM4    | 0.579 | 2.01E-05 |
| LPA | MAP6D1   | 0.579 | 2.03E-05 |
| LPA | METTL6   | 0.579 | 2.04E-05 |
| LPA | PALB2    | 0.579 | 2.01E-05 |
| LPA | PLPP4    | 0.579 | 2.00E-05 |
| LPA | PNLDC1   | 0.579 | 1.98E-05 |
| LPA | PPP4R3B  | 0.579 | 1.97E-05 |
| LPA | PPP4R4   | 0.579 | 2.01E-05 |
| LPA | RNASE1   | 0.579 | 2.03E-05 |
| LPA | RPS12    | 0.579 | 2.02E-05 |
| LPA | SDHAP2   | 0.579 | 2.05E-05 |
| LPA | SH3BP1   | 0.579 | 2.05E-05 |
| LPA | SLC1A6   | 0.579 | 2.03E-05 |
| LPA | SLC2A2   | 0.579 | 1.98E-05 |
| LPA | TALDO1   | 0.579 | 2.04E-05 |
| LPA | TBK1     | 0.579 | 2.01E-05 |
| LPA | TENM2    | 0.579 | 2.00E-05 |
| LPA | TGM1     | 0.579 | 2.00E-05 |
| LPA | TMEM169  | 0.579 | 2.04E-05 |
| LPA | TNKS2    | 0.579 | 2.03E-05 |
| LPA | TVP23C   | 0.579 | 2.03E-05 |
| LPA | USP12    | 0.579 | 2.05E-05 |
| LPA | VAMP5    | 0.579 | 2.03E-05 |
| LPA | VWA1     | 0.579 | 1.98E-05 |
| LPA | XPNPEP1  | 0.579 | 1.98E-05 |
| LPA | YARS2    | 0.579 | 2.02E-05 |
| LPA | YPEL2    | 0.579 | 1.98E-05 |
| LPA | ZNF208   | 0.579 | 2.01E-05 |
| LPA | AGBL1    | 0.578 | 2.12E-05 |
| LPA | ANKRD2   | 0.578 | 2.07E-05 |
| LPA | ATPAF1   | 0.578 | 2.10E-05 |
| LPA | C17orf78 | 0.578 | 2.11E-05 |
| LPA | C1orf174 | 0.578 | 2.06E-05 |
| LPA | C2orf49  | 0.578 | 2.10E-05 |
| LPA | C3orf52  | 0.578 | 2.11E-05 |
| LPA | CD96     | 0.578 | 2.09E-05 |
| LPA | CLCN1    | 0.578 | 2.06E-05 |
| LPA | CYP46A1  | 0.578 | 2.13E-05 |
| LPA | DIP2B    | 0.578 | 2.12E-05 |
| LPA | DNAJB5   | 0.578 | 2.09E-05 |
| LPA | DRICH1   | 0.578 | 2.13E-05 |
| LPA | EVPL     | 0.578 | 2.07E-05 |
| LPA | F3       | 0.578 | 2.06E-05 |
| LPA | FAM134C  | 0.578 | 2.06E-05 |
| LPA | FATE1    | 0.578 | 2.08E-05 |
| LPA | HOXD1    | 0.578 | 2.10E-05 |
| LPA | ICA1     | 0.578 | 2.08E-05 |
| LPA | ICAM4    | 0.578 | 2.06E-05 |
| LPA | IPO9     | 0.578 | 2.06E-05 |
| LPA | KCNJ14   | 0.578 | 2.13E-05 |

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| LPA | MAT2B    | 0.578 | 2.08E-05 |
| LPA | MCM9     | 0.578 | 2.13E-05 |
| LPA | MKI67    | 0.578 | 2.07E-05 |
| LPA | MPHOSPH6 | 0.578 | 2.12E-05 |
| LPA | OR5H1    | 0.578 | 2.07E-05 |
| LPA | RBSN     | 0.578 | 2.06E-05 |
| LPA | RTTN     | 0.578 | 2.08E-05 |
| LPA | RYK      | 0.578 | 2.08E-05 |
| LPA | SEC61A2  | 0.578 | 2.09E-05 |
| LPA | SFPQ     | 0.578 | 2.06E-05 |
| LPA | SH2B3    | 0.578 | 2.10E-05 |
| LPA | SIGLEC11 | 0.578 | 2.10E-05 |
| LPA | SLC2A14  | 0.578 | 2.07E-05 |
| LPA | SNORD68  | 0.578 | 2.12E-05 |
| LPA | SNRNP25  | 0.578 | 2.08E-05 |
| LPA | SNX2     | 0.578 | 2.09E-05 |
| LPA | SRP54    | 0.578 | 2.13E-05 |
| LPA | TACR1    | 0.578 | 2.12E-05 |
| LPA | TLR9     | 0.578 | 2.12E-05 |
| LPA | TRIM46   | 0.578 | 2.08E-05 |
| LPA | UPF3B    | 0.578 | 2.06E-05 |
| LPA | VCP      | 0.578 | 2.05E-05 |
| LPA | VIPAS39  | 0.578 | 2.07E-05 |
| LPA | WDR38    | 0.578 | 2.06E-05 |
| LPA | ADAM18   | 0.577 | 2.14E-05 |
| LPA | ADPRM    | 0.577 | 2.16E-05 |
| LPA | ADRA2B   | 0.577 | 2.17E-05 |
| LPA | AGR2     | 0.577 | 2.20E-05 |
| LPA | ANGPTL6  | 0.577 | 2.21E-05 |
| LPA | ARHGDIB  | 0.577 | 2.19E-05 |
| LPA | ASPG     | 0.577 | 2.15E-05 |
| LPA | ATMIN    | 0.577 | 2.20E-05 |
| LPA | BOLA2B   | 0.577 | 2.19E-05 |
| LPA | CCDC85A  | 0.577 | 2.21E-05 |
| LPA | CD36     | 0.577 | 2.21E-05 |
| LPA | CDK1     | 0.577 | 2.21E-05 |
| LPA | CXCL12   | 0.577 | 2.21E-05 |
| LPA | CYP2D6   | 0.577 | 2.15E-05 |
| LPA | DHRS7B   | 0.577 | 2.20E-05 |
| LPA | ELP2     | 0.577 | 2.15E-05 |
| LPA | ER01A    | 0.577 | 2.17E-05 |
| LPA | FAM163B  | 0.577 | 2.21E-05 |
| LPA | FAM83G   | 0.577 | 2.21E-05 |
| LPA | GHSR     | 0.577 | 2.17E-05 |
| LPA | GNG13    | 0.577 | 2.19E-05 |
| LPA | HIC1     | 0.577 | 2.15E-05 |
| LPA | HNRNPR   | 0.577 | 2.20E-05 |
| LPA | ITGB5    | 0.577 | 2.22E-05 |
| LPA | KIAA1456 | 0.577 | 2.22E-05 |
| LPA | KLC4     | 0.577 | 2.14E-05 |
| LPA | LOXHD1   | 0.577 | 2.20E-05 |

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| LPA | MCTP2    | 0.577 | 2.16E-05 |
| LPA | METTL3   | 0.577 | 2.21E-05 |
| LPA | MYBPH    | 0.577 | 2.22E-05 |
| LPA | NOV      | 0.577 | 2.17E-05 |
| LPA | NXF2B    | 0.577 | 2.17E-05 |
| LPA | OR10H2   | 0.577 | 2.22E-05 |
| LPA | PHC2     | 0.577 | 2.14E-05 |
| LPA | PPA2     | 0.577 | 2.18E-05 |
| LPA | PPP1R32  | 0.577 | 2.15E-05 |
| LPA | PRR14L   | 0.577 | 2.18E-05 |
| LPA | RBP7     | 0.577 | 2.20E-05 |
| LPA | RNASEH2A | 0.577 | 2.22E-05 |
| LPA | SLC26A3  | 0.577 | 2.16E-05 |
| LPA | TERT     | 0.577 | 2.21E-05 |
| LPA | TMEM219  | 0.577 | 2.19E-05 |
| LPA | TMEM234  | 0.577 | 2.19E-05 |
| LPA | TRIM54   | 0.577 | 2.19E-05 |
| LPA | TSPEAR   | 0.577 | 2.19E-05 |
| LPA | TUSC5    | 0.577 | 2.14E-05 |
| LPA | WNT5A    | 0.577 | 2.19E-05 |
| LPA | ZBED8    | 0.577 | 2.16E-05 |
| LPA | ANXA11   | 0.576 | 2.28E-05 |
| LPA | AP1S3    | 0.576 | 2.32E-05 |
| LPA | ARHGAP27 | 0.576 | 2.29E-05 |
| LPA | ARL17B   | 0.576 | 2.23E-05 |
| LPA | ARMCX6   | 0.576 | 2.23E-05 |
| LPA | CFAP44   | 0.576 | 2.25E-05 |
| LPA | CHCHD3   | 0.576 | 2.27E-05 |
| LPA | CHKB-AS1 | 0.576 | 2.31E-05 |
| LPA | CLPX     | 0.576 | 2.25E-05 |
| LPA | COMMD7   | 0.576 | 2.31E-05 |
| LPA | CYP4F22  | 0.576 | 2.23E-05 |
| LPA | DGUOK    | 0.576 | 2.24E-05 |
| LPA | EDNRB    | 0.576 | 2.24E-05 |
| LPA | EID2     | 0.576 | 2.23E-05 |
| LPA | ELK4     | 0.576 | 2.29E-05 |
| LPA | FAM65B   | 0.576 | 2.31E-05 |
| LPA | HBM      | 0.576 | 2.28E-05 |
| LPA | IFITM1   | 0.576 | 2.30E-05 |
| LPA | INSM2    | 0.576 | 2.26E-05 |
| LPA | KIF21B   | 0.576 | 2.29E-05 |
| LPA | LFNG     | 0.576 | 2.26E-05 |
| LPA | LRGUK    | 0.576 | 2.28E-05 |
| LPA | MMP25    | 0.576 | 2.31E-05 |
| LPA | MS4A2    | 0.576 | 2.24E-05 |
| LPA | MT4      | 0.576 | 2.23E-05 |
| LPA | MXD1     | 0.576 | 2.29E-05 |
| LPA | NOTCH4   | 0.576 | 2.24E-05 |
| LPA | NWD2     | 0.576 | 2.29E-05 |
| LPA | PCDHGC5  | 0.576 | 2.25E-05 |
| LPA | PFDN5    | 0.576 | 2.23E-05 |

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| LPA | PITX1         | 0.576 | 2.27E-05 |
| LPA | POLM          | 0.576 | 2.29E-05 |
| LPA | POU1F1        | 0.576 | 2.25E-05 |
| LPA | RBBP7         | 0.576 | 2.28E-05 |
| LPA | S100P         | 0.576 | 2.31E-05 |
| LPA | SATB2-AS1     | 0.576 | 2.23E-05 |
| LPA | SHCBP1L       | 0.576 | 2.28E-05 |
| LPA | SMPDL3A       | 0.576 | 2.23E-05 |
| LPA | SNHG3         | 0.576 | 2.25E-05 |
| LPA | SOX30         | 0.576 | 2.27E-05 |
| LPA | SPRY3         | 0.576 | 2.23E-05 |
| LPA | TMBIM6        | 0.576 | 2.29E-05 |
| LPA | UBQLN2        | 0.576 | 2.23E-05 |
| LPA | ZNF654        | 0.576 | 2.27E-05 |
| LPA | ZNF684        | 0.576 | 2.31E-05 |
| LPA | ZNF750        | 0.576 | 2.26E-05 |
| LPA | AHR           | 0.575 | 2.41E-05 |
| LPA | APOBEC3F      | 0.575 | 2.35E-05 |
| LPA | AQP3          | 0.575 | 2.34E-05 |
| LPA | C10orf99      | 0.575 | 2.33E-05 |
| LPA | C15orf40      | 0.575 | 2.39E-05 |
| LPA | C1orf74       | 0.575 | 2.35E-05 |
| LPA | C7orf61       | 0.575 | 2.37E-05 |
| LPA | CALHM1        | 0.575 | 2.38E-05 |
| LPA | CCDC180       | 0.575 | 2.32E-05 |
| LPA | CD109         | 0.575 | 2.38E-05 |
| LPA | COL12A1       | 0.575 | 2.36E-05 |
| LPA | CPOX          | 0.575 | 2.32E-05 |
| LPA | CREB5         | 0.575 | 2.34E-05 |
| LPA | CUEDC2        | 0.575 | 2.37E-05 |
| LPA | DDC           | 0.575 | 2.38E-05 |
| LPA | DEFA4         | 0.575 | 2.37E-05 |
| LPA | DKFZP586I1420 | 0.575 | 2.34E-05 |
| LPA | EFCC1         | 0.575 | 2.40E-05 |
| LPA | EFNB1         | 0.575 | 2.39E-05 |
| LPA | EMC7          | 0.575 | 2.36E-05 |
| LPA | ETV2          | 0.575 | 2.36E-05 |
| LPA | FRAT2         | 0.575 | 2.34E-05 |
| LPA | GAMT          | 0.575 | 2.33E-05 |
| LPA | GDAP1L1       | 0.575 | 2.40E-05 |
| LPA | GFRA2         | 0.575 | 2.41E-05 |
| LPA | HSF2BP        | 0.575 | 2.32E-05 |
| LPA | KIAA0355      | 0.575 | 2.38E-05 |
| LPA | KIF20B        | 0.575 | 2.35E-05 |
| LPA | KLHL17        | 0.575 | 2.37E-05 |
| LPA | KLK3          | 0.575 | 2.39E-05 |
| LPA | LAP3          | 0.575 | 2.37E-05 |
| LPA | LINC00921     | 0.575 | 2.40E-05 |
| LPA | LOC101928614  | 0.575 | 2.39E-05 |
| LPA | LRRC73        | 0.575 | 2.40E-05 |
| LPA | MAPK9         | 0.575 | 2.38E-05 |

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| LPA | METTL13    | 0.575 | 2.32E-05 |
| LPA | MRPL40     | 0.575 | 2.40E-05 |
| LPA | MRT04      | 0.575 | 2.34E-05 |
| LPA | MSANTD3    | 0.575 | 2.34E-05 |
| LPA | MSH3       | 0.575 | 2.36E-05 |
| LPA | NCAPH2     | 0.575 | 2.38E-05 |
| LPA | NEB        | 0.575 | 2.33E-05 |
| LPA | P2RY14     | 0.575 | 2.33E-05 |
| LPA | PIGF       | 0.575 | 2.36E-05 |
| LPA | PLA2G3     | 0.575 | 2.38E-05 |
| LPA | PRRX1      | 0.575 | 2.41E-05 |
| LPA | PSG3       | 0.575 | 2.38E-05 |
| LPA | RAB24      | 0.575 | 2.39E-05 |
| LPA | RAB2A      | 0.575 | 2.41E-05 |
| LPA | REG1A      | 0.575 | 2.38E-05 |
| LPA | SGMS2      | 0.575 | 2.34E-05 |
| LPA | SLC01C1    | 0.575 | 2.36E-05 |
| LPA | SMC4       | 0.575 | 2.35E-05 |
| LPA | SNX24      | 0.575 | 2.40E-05 |
| LPA | STK16      | 0.575 | 2.33E-05 |
| LPA | TES        | 0.575 | 2.41E-05 |
| LPA | TM9SF1     | 0.575 | 2.33E-05 |
| LPA | TP53I3     | 0.575 | 2.40E-05 |
| LPA | TRAPPC5    | 0.575 | 2.40E-05 |
| LPA | TRIM21     | 0.575 | 2.41E-05 |
| LPA | TUSC7      | 0.575 | 2.38E-05 |
| LPA | ZNF155     | 0.575 | 2.32E-05 |
| LPA | ZNF765     | 0.575 | 2.39E-05 |
| LPA | ALG10B     | 0.574 | 2.44E-05 |
| LPA | ARMC1      | 0.574 | 2.44E-05 |
| LPA | ATP1A1-AS1 | 0.574 | 2.46E-05 |
| LPA | BAHD1      | 0.574 | 2.51E-05 |
| LPA | C6orf118   | 0.574 | 2.50E-05 |
| LPA | CNOT1      | 0.574 | 2.44E-05 |
| LPA | DMXL1      | 0.574 | 2.47E-05 |
| LPA | DNAJC17    | 0.574 | 2.44E-05 |
| LPA | DNAJC21    | 0.574 | 2.50E-05 |
| LPA | DOK1       | 0.574 | 2.49E-05 |
| LPA | FAM91A1    | 0.574 | 2.49E-05 |
| LPA | FGD4       | 0.574 | 2.47E-05 |
| LPA | FGL1       | 0.574 | 2.44E-05 |
| LPA | FIG4       | 0.574 | 2.43E-05 |
| LPA | GPR182     | 0.574 | 2.48E-05 |
| LPA | GPR87      | 0.574 | 2.47E-05 |
| LPA | GVINP1     | 0.574 | 2.45E-05 |
| LPA | HECW2      | 0.574 | 2.47E-05 |
| LPA | HIST1H4H   | 0.574 | 2.49E-05 |
| LPA | HNF1A      | 0.574 | 2.44E-05 |
| LPA | HPS4       | 0.574 | 2.51E-05 |
| LPA | HSPB11     | 0.574 | 2.49E-05 |
| LPA | IFIT2      | 0.574 | 2.44E-05 |

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| LPA | KCTD18    | 0.574 | 2.49E-05 |
| LPA | KCTD9     | 0.574 | 2.51E-05 |
| LPA | KIR2DL1   | 0.574 | 2.46E-05 |
| LPA | KPNA3     | 0.574 | 2.44E-05 |
| LPA | LACC1     | 0.574 | 2.50E-05 |
| LPA | LINC00493 | 0.574 | 2.44E-05 |
| LPA | LINC00526 | 0.574 | 2.45E-05 |
| LPA | LINC00643 | 0.574 | 2.46E-05 |
| LPA | MDH1      | 0.574 | 2.43E-05 |
| LPA | MOXD1     | 0.574 | 2.45E-05 |
| LPA | NDUFB1    | 0.574 | 2.49E-05 |
| LPA | NECAB2    | 0.574 | 2.44E-05 |
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| LPA | PHB       | 0.574 | 2.43E-05 |
| LPA | POLR1C    | 0.574 | 2.43E-05 |
| LPA | POU3F2    | 0.574 | 2.42E-05 |
| LPA | RAB42     | 0.574 | 2.48E-05 |
| LPA | SMIM8     | 0.574 | 2.46E-05 |
| LPA | SNX5      | 0.574 | 2.42E-05 |
| LPA | SPCS3     | 0.574 | 2.45E-05 |
| LPA | SS18      | 0.574 | 2.47E-05 |
| LPA | TRAPPC11  | 0.574 | 2.44E-05 |
| LPA | VAC14     | 0.574 | 2.47E-05 |
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| LPA | AIMP2     | 0.573 | 2.57E-05 |
| LPA | ALMS1     | 0.573 | 2.55E-05 |
| LPA | ANKRD44   | 0.573 | 2.52E-05 |
| LPA | ATP50     | 0.573 | 2.60E-05 |
| LPA | ATRX      | 0.573 | 2.60E-05 |
| LPA | C1orf109  | 0.573 | 2.61E-05 |
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| LPA | CCDC34    | 0.573 | 2.52E-05 |
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| LPA | CDK20     | 0.573 | 2.54E-05 |
| LPA | CDKN2D    | 0.573 | 2.55E-05 |
| LPA | CNN2      | 0.573 | 2.52E-05 |
| LPA | CRTAM     | 0.573 | 2.51E-05 |
| LPA | CWC22     | 0.573 | 2.55E-05 |
| LPA | DCAF1     | 0.573 | 2.56E-05 |
| LPA | DDX27     | 0.573 | 2.61E-05 |
| LPA | DLL1      | 0.573 | 2.54E-05 |
| LPA | EIF2B3    | 0.573 | 2.53E-05 |
| LPA | EQTN      | 0.573 | 2.57E-05 |
| LPA | FAM156B   | 0.573 | 2.54E-05 |
| LPA | FAM43A    | 0.573 | 2.55E-05 |
| LPA | GGA1      | 0.573 | 2.56E-05 |
| LPA | HENMT1    | 0.573 | 2.52E-05 |
| LPA | HIST1H3F  | 0.573 | 2.51E-05 |
| LPA | INTU      | 0.573 | 2.54E-05 |
| LPA | ITK       | 0.573 | 2.53E-05 |

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| LPA | ITPR2     | 0.573 | 2.53E-05 |
| LPA | KDM7A     | 0.573 | 2.55E-05 |
| LPA | KIAA1147  | 0.573 | 2.55E-05 |
| LPA | LAMB4     | 0.573 | 2.52E-05 |
| LPA | LRP12     | 0.573 | 2.60E-05 |
| LPA | MAPK4     | 0.573 | 2.52E-05 |
| LPA | MARC2     | 0.573 | 2.59E-05 |
| LPA | METTL2B   | 0.573 | 2.58E-05 |
| LPA | OR2H1     | 0.573 | 2.52E-05 |
| LPA | OXR1      | 0.573 | 2.54E-05 |
| LPA | PADI1     | 0.573 | 2.55E-05 |
| LPA | PSD       | 0.573 | 2.51E-05 |
| LPA | PSMD6-AS2 | 0.573 | 2.60E-05 |
| LPA | RPUSD2    | 0.573 | 2.56E-05 |
| LPA | SFT2D2    | 0.573 | 2.59E-05 |
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| LPA | SLC45A2   | 0.573 | 2.52E-05 |
| LPA | TEAD4     | 0.573 | 2.58E-05 |
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| LPA | TRAM1     | 0.573 | 2.52E-05 |
| LPA | TUBA1A    | 0.573 | 2.54E-05 |
| LPA | UFL1      | 0.573 | 2.56E-05 |
| LPA | ULK4      | 0.573 | 2.55E-05 |
| LPA | ZCCHC17   | 0.573 | 2.56E-05 |
| LPA | ZNF317    | 0.573 | 2.56E-05 |
| LPA | ZNF320    | 0.573 | 2.59E-05 |
| LPA | ZNF645    | 0.573 | 2.55E-05 |
| LPA | AMPD2     | 0.572 | 2.67E-05 |
| LPA | AMZ1      | 0.572 | 2.68E-05 |
| LPA | ARHGEF10L | 0.572 | 2.72E-05 |
| LPA | ARID4B    | 0.572 | 2.72E-05 |
| LPA | ATP6V1C1  | 0.572 | 2.69E-05 |
| LPA | AVP       | 0.572 | 2.66E-05 |
| LPA | B3GNT6    | 0.572 | 2.63E-05 |
| LPA | CALN1     | 0.572 | 2.61E-05 |
| LPA | CCZ1B     | 0.572 | 2.69E-05 |
| LPA | CDK13     | 0.572 | 2.66E-05 |
| LPA | CEP95     | 0.572 | 2.66E-05 |
| LPA | CGN       | 0.572 | 2.68E-05 |
| LPA | CLDN14    | 0.572 | 2.62E-05 |
| LPA | CRCP      | 0.572 | 2.64E-05 |
| LPA | CTNNA3    | 0.572 | 2.63E-05 |
| LPA | DUSP13    | 0.572 | 2.66E-05 |
| LPA | FAR1      | 0.572 | 2.68E-05 |
| LPA | FIBP      | 0.572 | 2.63E-05 |
| LPA | FKBP15    | 0.572 | 2.68E-05 |
| LPA | GBGT1     | 0.572 | 2.63E-05 |
| LPA | GNGT2     | 0.572 | 2.70E-05 |
| LPA | GRIK3     | 0.572 | 2.64E-05 |
| LPA | GUSBP5    | 0.572 | 2.62E-05 |

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| LPA | IL7R      | 0.572 | 2.63E-05 |
| LPA | LANCL3    | 0.572 | 2.62E-05 |
| LPA | LOC148696 | 0.572 | 2.65E-05 |
| LPA | LOXL4     | 0.572 | 2.66E-05 |
| LPA | LRIG3     | 0.572 | 2.62E-05 |
| LPA | MAGEA11   | 0.572 | 2.65E-05 |
| LPA | MEPE      | 0.572 | 2.65E-05 |
| LPA | NCOA6     | 0.572 | 2.68E-05 |
| LPA | NOVA2     | 0.572 | 2.67E-05 |
| LPA | NPB       | 0.572 | 2.65E-05 |
| LPA | OR13C4    | 0.572 | 2.62E-05 |
| LPA | OTULIN    | 0.572 | 2.70E-05 |
| LPA | PSMD5     | 0.572 | 2.68E-05 |
| LPA | PWP2      | 0.572 | 2.64E-05 |
| LPA | RHOV      | 0.572 | 2.62E-05 |
| LPA | RNF32     | 0.572 | 2.71E-05 |
| LPA | SERHL2    | 0.572 | 2.69E-05 |
| LPA | SLC17A6   | 0.572 | 2.63E-05 |
| LPA | SNORD38B  | 0.572 | 2.65E-05 |
| LPA | TFB2M     | 0.572 | 2.67E-05 |
| LPA | THUMPD2   | 0.572 | 2.62E-05 |
| LPA | TNFSF10   | 0.572 | 2.62E-05 |
| LPA | UBE2G2    | 0.572 | 2.69E-05 |
| LPA | UNC79     | 0.572 | 2.66E-05 |
| LPA | WFDC8     | 0.572 | 2.66E-05 |
| LPA | XCL2      | 0.572 | 2.69E-05 |
| LPA | ZDHHC8P1  | 0.572 | 2.71E-05 |
| LPA | ZG16B     | 0.572 | 2.66E-05 |
| LPA | ZNF174    | 0.572 | 2.65E-05 |
| LPA | ZNF507    | 0.572 | 2.67E-05 |
| LPA | ZNF576    | 0.572 | 2.68E-05 |
| LPA | ZNF75D    | 0.572 | 2.67E-05 |
| LPA | ZNF805    | 0.572 | 2.70E-05 |
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| LPA | ARNTL     | 0.571 | 2.80E-05 |
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| LPA | BAK1      | 0.571 | 2.79E-05 |
| LPA | CELA3B    | 0.571 | 2.82E-05 |
| LPA | CEP128    | 0.571 | 2.82E-05 |
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| LPA | IDE       | 0.571 | 2.73E-05 |
| LPA | INIP      | 0.571 | 2.76E-05 |
| LPA | KIAA1614  | 0.571 | 2.80E-05 |
| LPA | LRP2BP    | 0.571 | 2.80E-05 |
| LPA | MARK3     | 0.571 | 2.83E-05 |
| LPA | NR1I3     | 0.571 | 2.80E-05 |

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| LPA | NSUN5    | 0.571 | 2.78E-05 |
| LPA | OVCA2    | 0.571 | 2.73E-05 |
| LPA | PARP1    | 0.571 | 2.82E-05 |
| LPA | PRDX6    | 0.571 | 2.78E-05 |
| LPA | PROX1    | 0.571 | 2.76E-05 |
| LPA | RAP2B    | 0.571 | 2.74E-05 |
| LPA | RCAN1    | 0.571 | 2.72E-05 |
| LPA | RFX6     | 0.571 | 2.74E-05 |
| LPA | SEMA7A   | 0.571 | 2.80E-05 |
| LPA | SLC26A11 | 0.571 | 2.77E-05 |
| LPA | SMC04    | 0.571 | 2.74E-05 |
| LPA | TBC1D10A | 0.571 | 2.76E-05 |
| LPA | TBC1D8B  | 0.571 | 2.73E-05 |
| LPA | TEX10    | 0.571 | 2.72E-05 |
| LPA | TLCD1    | 0.571 | 2.77E-05 |
| LPA | TMEM200A | 0.571 | 2.81E-05 |
| LPA | TMEM9    | 0.571 | 2.73E-05 |
| LPA | TRPC2    | 0.571 | 2.76E-05 |
| LPA | TRUB1    | 0.571 | 2.78E-05 |
| LPA | TTC39C   | 0.571 | 2.73E-05 |
| LPA | UBE3A    | 0.571 | 2.82E-05 |
| LPA | UCHL5    | 0.571 | 2.73E-05 |
| LPA | UPK1A    | 0.571 | 2.82E-05 |
| LPA | WWP1     | 0.571 | 2.80E-05 |
| LPA | ZNF30    | 0.571 | 2.81E-05 |
| LPA | ACSL3    | 0.57  | 2.91E-05 |
| LPA | ANAPC15  | 0.57  | 2.94E-05 |
| LPA | ANXA8L1  | 0.57  | 2.91E-05 |
| LPA | BAG5     | 0.57  | 2.86E-05 |
| LPA | BAIAP2L2 | 0.57  | 2.91E-05 |
| LPA | BCAS1    | 0.57  | 2.90E-05 |
| LPA | BEND2    | 0.57  | 2.85E-05 |
| LPA | CACNG3   | 0.57  | 2.84E-05 |
| LPA | CAPN3    | 0.57  | 2.94E-05 |
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| LPA | CCDC93   | 0.57  | 2.90E-05 |
| LPA | CD2BP2   | 0.57  | 2.92E-05 |
| LPA | CENPM    | 0.57  | 2.89E-05 |
| LPA | CGB7     | 0.57  | 2.89E-05 |
| LPA | CLPB     | 0.57  | 2.88E-05 |
| LPA | CSF1R    | 0.57  | 2.94E-05 |
| LPA | CYP2C18  | 0.57  | 2.84E-05 |
| LPA | CYTIP    | 0.57  | 2.86E-05 |
| LPA | DACH1    | 0.57  | 2.91E-05 |
| LPA | DUT      | 0.57  | 2.86E-05 |
| LPA | EID3     | 0.57  | 2.83E-05 |
| LPA | EMC9     | 0.57  | 2.90E-05 |
| LPA | FAM223B  | 0.57  | 2.91E-05 |
| LPA | GFOD2    | 0.57  | 2.83E-05 |
| LPA | HOXC4    | 0.57  | 2.94E-05 |
| LPA | HRH2     | 0.57  | 2.87E-05 |

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| LPA | IL18RAP   | 0.57  | 2.85E-05 |
| LPA | KLF8      | 0.57  | 2.86E-05 |
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| LPA | MIRLET7D  | 0.57  | 2.85E-05 |
| LPA | NDC1      | 0.57  | 2.92E-05 |
| LPA | NENF      | 0.57  | 2.83E-05 |
| LPA | NRIP1     | 0.57  | 2.88E-05 |
| LPA | NUB1      | 0.57  | 2.88E-05 |
| LPA | PARP2     | 0.57  | 2.94E-05 |
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| LPA | SLC2A10   | 0.57  | 2.84E-05 |
| LPA | SLC6A19   | 0.57  | 2.90E-05 |
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| LPA | SPRR1B    | 0.57  | 2.88E-05 |
| LPA | SRBD1     | 0.57  | 2.83E-05 |
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| LPA | UBE2Q1    | 0.57  | 2.87E-05 |
| LPA | VENTX     | 0.57  | 2.84E-05 |
| LPA | VGLL1     | 0.57  | 2.91E-05 |
| LPA | WNT11     | 0.57  | 2.85E-05 |
| LPA | WNT7B     | 0.57  | 2.94E-05 |
| LPA | ZNF419    | 0.57  | 2.92E-05 |
| LPA | ZXDA      | 0.57  | 2.85E-05 |
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| LPA | ACVRL1    | 0.569 | 3.00E-05 |
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| LPA | AKR7A2    | 0.569 | 2.98E-05 |
| LPA | AP1G1     | 0.569 | 3.00E-05 |
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| LPA | C20orf141 | 0.569 | 3.00E-05 |
| LPA | C2orf70   | 0.569 | 3.04E-05 |
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| LPA | C9orf3    | 0.569 | 3.03E-05 |
| LPA | CCDC185   | 0.569 | 3.02E-05 |

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| LPA | CDYL       | 0.569 | 2.95E-05 |
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| LPA | CHRNA2     | 0.569 | 2.95E-05 |
| LPA | CHRNA6     | 0.569 | 3.06E-05 |
| LPA | DGAT1      | 0.569 | 3.04E-05 |
| LPA | EXOC3L2    | 0.569 | 2.99E-05 |
| LPA | FAT2       | 0.569 | 3.00E-05 |
| LPA | GDF11      | 0.569 | 2.99E-05 |
| LPA | GLYCTK     | 0.569 | 3.05E-05 |
| LPA | GNAI3      | 0.569 | 2.96E-05 |
| LPA | ICAM5      | 0.569 | 3.02E-05 |
| LPA | KCNA1      | 0.569 | 2.98E-05 |
| LPA | KIAA2022   | 0.569 | 2.96E-05 |
| LPA | LINC00597  | 0.569 | 3.03E-05 |
| LPA | LMO2       | 0.569 | 2.97E-05 |
| LPA | LSM14B     | 0.569 | 3.04E-05 |
| LPA | NFKBIE     | 0.569 | 2.95E-05 |
| LPA | NOSIP      | 0.569 | 2.95E-05 |
| LPA | PARP4      | 0.569 | 3.06E-05 |
| LPA | PDE6D      | 0.569 | 3.02E-05 |
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| LPA | PLAC8      | 0.569 | 3.06E-05 |
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| LPA | PPARGC1A   | 0.569 | 2.96E-05 |
| LPA | PPAT       | 0.569 | 2.96E-05 |
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| LPA | PYY        | 0.569 | 3.04E-05 |
| LPA | QPCT       | 0.569 | 2.95E-05 |
| LPA | RAB31      | 0.569 | 3.03E-05 |
| LPA | RSPH6A     | 0.569 | 3.03E-05 |
| LPA | SCG2       | 0.569 | 2.95E-05 |
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| LPA | TACO1      | 0.569 | 2.96E-05 |
| LPA | TRAF1      | 0.569 | 3.05E-05 |
| LPA | TSNAXIP1   | 0.569 | 2.98E-05 |
| LPA | YIPF4      | 0.569 | 2.97E-05 |
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| LPA | ANKRD27    | 0.568 | 3.12E-05 |
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| LPA | ARPC1A     | 0.568 | 3.18E-05 |
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| LPA | ATP4B      | 0.568 | 3.09E-05 |

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| LPA | C11orf88     | 0.568 | 3.11E-05 |
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| LPA | SLC6A11  | 0.563 | 3.86E-05 |
| LPA | SNX12    | 0.563 | 3.84E-05 |
| LPA | SRSF6    | 0.563 | 3.82E-05 |
| LPA | SSTR3    | 0.563 | 3.82E-05 |
| LPA | SUCNR1   | 0.563 | 3.81E-05 |
| LPA | TBC1D19  | 0.563 | 3.79E-05 |
| LPA | TMC06    | 0.563 | 3.79E-05 |
| LPA | TMEM190  | 0.563 | 3.87E-05 |
| LPA | TUBB6    | 0.563 | 3.79E-05 |
| LPA | TULP1    | 0.563 | 3.75E-05 |
| LPA | TXNRD3NB | 0.563 | 3.81E-05 |
| LPA | UBAC1    | 0.563 | 3.87E-05 |
| LPA | VGF      | 0.563 | 3.77E-05 |
| LPA | XCR1     | 0.563 | 3.79E-05 |
| LPA | XPO4     | 0.563 | 3.74E-05 |
| LPA | ZBTB14   | 0.563 | 3.76E-05 |
| LPA | ACAD8    | 0.562 | 3.95E-05 |
| LPA | ACOD1    | 0.562 | 3.99E-05 |
| LPA | ARL5C    | 0.562 | 3.95E-05 |
| LPA | ASNA1    | 0.562 | 4.01E-05 |
| LPA | ATP6V1D  | 0.562 | 3.91E-05 |
| LPA | B3GALT1  | 0.562 | 3.99E-05 |

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| LPA | BDKRB2   | 0.562 | 3.96E-05 |
| LPA | C19orf53 | 0.562 | 3.92E-05 |
| LPA | C7orf57  | 0.562 | 3.94E-05 |
| LPA | CASP9    | 0.562 | 3.90E-05 |
| LPA | CBLL1    | 0.562 | 3.96E-05 |
| LPA | CDH7     | 0.562 | 3.93E-05 |
| LPA | CEP63    | 0.562 | 3.99E-05 |
| LPA | CX3CR1   | 0.562 | 3.98E-05 |
| LPA | DNTT     | 0.562 | 3.95E-05 |
| LPA | ECSCR    | 0.562 | 3.92E-05 |
| LPA | EPSTI1   | 0.562 | 3.98E-05 |
| LPA | F8A3     | 0.562 | 3.98E-05 |
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| LPA | LPAR6    | 0.562 | 3.91E-05 |
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| LPA | CASR     | 0.561 | 4.18E-05 |
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| LPA | CYP39A1  | 0.561 | 4.14E-05 |
| LPA | DNAJC18  | 0.561 | 4.15E-05 |
| LPA | ERVW-1   | 0.561 | 4.07E-05 |
| LPA | GALNTL6  | 0.561 | 4.16E-05 |
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| LPA | GSTO1    | 0.561 | 4.12E-05 |
| LPA | GSTZ1    | 0.561 | 4.05E-05 |
| LPA | HIGD1B   | 0.561 | 4.03E-05 |
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| LPA | USP32    | 0.561 | 4.13E-05 |
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| LPA | VEZF1    | 0.561 | 4.09E-05 |
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| LPA | BRAF     | 0.56  | 4.33E-05 |
| LPA | C2orf40  | 0.56  | 4.23E-05 |
| LPA | C6orf58  | 0.56  | 4.33E-05 |
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| LPA | CSHL1     | 0.56  | 4.19E-05 |
| LPA | CYLC2     | 0.56  | 4.25E-05 |
| LPA | DDHD2     | 0.56  | 4.19E-05 |
| LPA | DLX5      | 0.56  | 4.20E-05 |
| LPA | DUSP3     | 0.56  | 4.24E-05 |
| LPA | ERAP1     | 0.56  | 4.22E-05 |
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| LPA | SNAI3-AS1 | 0.56  | 4.29E-05 |
| LPA | SNRNP200  | 0.56  | 4.30E-05 |
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| LPA | BBOX1     | 0.559 | 4.40E-05 |

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| LPA | BOLL         | 0.559 | 4.40E-05 |
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| LPA | C2orf15      | 0.559 | 4.36E-05 |
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| LPA | CCNG2        | 0.559 | 4.42E-05 |
| LPA | CCR5         | 0.559 | 4.35E-05 |
| LPA | CLC          | 0.559 | 4.48E-05 |
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| LPA | XRCC6     | 0.559 | 4.50E-05 |
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| LPA | MSRA     | 0.557 | 4.69E-05 |
| LPA | MTM1     | 0.557 | 4.84E-05 |
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| LPA | SIGIRR   | 0.557 | 4.80E-05 |
| LPA | SKAP2    | 0.557 | 4.78E-05 |
| LPA | SLC12A6  | 0.557 | 4.73E-05 |
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| LPA | STOML2    | 0.557 | 4.82E-05 |
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| LPA | CDH8      | 0.556 | 4.88E-05 |
| LPA | CDK2AP1   | 0.556 | 5.02E-05 |
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| LPA | EIF2D     | 0.556 | 4.94E-05 |
| LPA | EPHX3     | 0.556 | 4.87E-05 |
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| LPA | APLNR       | 0.55  | 6.24E-05 |
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| LPA | C12orf56    | 0.55  | 6.29E-05 |
| LPA | C16orf78    | 0.55  | 6.13E-05 |
| LPA | C3AR1       | 0.55  | 6.32E-05 |
| LPA | CASK        | 0.55  | 6.18E-05 |
| LPA | CATSPERG    | 0.55  | 6.31E-05 |
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| LPA | CDH13       | 0.55  | 6.27E-05 |
| LPA | CLRN1-AS1   | 0.55  | 6.21E-05 |
| LPA | COMTD1      | 0.55  | 6.18E-05 |
| LPA | CYB561D2    | 0.55  | 6.25E-05 |
| LPA | DPP10       | 0.55  | 6.15E-05 |
| LPA | ECT2        | 0.55  | 6.13E-05 |
| LPA | EHHADH      | 0.55  | 6.19E-05 |
| LPA | EXOSC3      | 0.55  | 6.12E-05 |
| LPA | FAM120B     | 0.55  | 6.27E-05 |
| LPA | FLVCR1-AS1  | 0.55  | 6.16E-05 |
| LPA | FZD7        | 0.55  | 6.22E-05 |
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| LPA | GPR135      | 0.55  | 6.21E-05 |
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| LPA | GSTA4       | 0.55  | 6.32E-05 |
| LPA | HABP4       | 0.55  | 6.10E-05 |

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| LPA | HAUS6     | 0.55  | 6.17E-05 |
| LPA | HECTD3    | 0.55  | 6.19E-05 |
| LPA | HSD17B6   | 0.55  | 6.23E-05 |
| LPA | HYAL3     | 0.55  | 6.21E-05 |
| LPA | IMMP1L    | 0.55  | 6.21E-05 |
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| LPA | KCNH2     | 0.55  | 6.31E-05 |
| LPA | KDEL2     | 0.55  | 6.14E-05 |
| LPA | KLHDC9    | 0.55  | 6.11E-05 |
| LPA | KLRC3     | 0.55  | 6.14E-05 |
| LPA | LCN1      | 0.55  | 6.27E-05 |
| LPA | LILRB2    | 0.55  | 6.16E-05 |
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| LPA | NTHL1        | 0.544 | 7.81E-05 |

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| LPA | DNAJA3       | 0.538 | 9.70E-05 |
| LPA | DNALI1       | 0.538 | 9.63E-05 |
| LPA | EIF4E2       | 0.538 | 9.78E-05 |
| LPA | EPC1         | 0.538 | 9.75E-05 |
| LPA | FAM168A      | 0.538 | 9.46E-05 |
| LPA | GPRIN1       | 0.538 | 9.49E-05 |
| LPA | GUSB         | 0.538 | 9.72E-05 |
| LPA | HLA-DMA      | 0.538 | 9.66E-05 |
| LPA | HLA-DRB4     | 0.538 | 9.50E-05 |
| LPA | IFNW1        | 0.538 | 9.72E-05 |
| LPA | IL20         | 0.538 | 9.54E-05 |
| LPA | L3MBTL3      | 0.538 | 9.60E-05 |
| LPA | LOC100505920 | 0.538 | 9.47E-05 |
| LPA | MUSK         | 0.538 | 9.61E-05 |
| LPA | PCDH1        | 0.538 | 9.62E-05 |
| LPA | PDS5B        | 0.538 | 9.45E-05 |
| LPA | PTGR2        | 0.538 | 9.57E-05 |
| LPA | RBL1         | 0.538 | 9.74E-05 |
| LPA | RGS14        | 0.538 | 9.64E-05 |
| LPA | SAPCD2       | 0.538 | 9.69E-05 |
| LPA | SLC15A4      | 0.538 | 9.47E-05 |
| LPA | SLC9A3       | 0.538 | 9.64E-05 |
| LPA | SLITRK4      | 0.538 | 9.72E-05 |
| LPA | SOS2         | 0.538 | 9.74E-05 |
| LPA | SOX18        | 0.538 | 9.46E-05 |
| LPA | SREK1        | 0.538 | 9.71E-05 |
| LPA | SRRD         | 0.538 | 9.64E-05 |
| LPA | ST7-AS2      | 0.538 | 9.53E-05 |
| LPA | TBC1D7       | 0.538 | 9.71E-05 |
| LPA | TEPSIN       | 0.538 | 9.44E-05 |
| LPA | TGIF1        | 0.538 | 9.61E-05 |
| LPA | UQCC1        | 0.538 | 9.61E-05 |
| LPA | ZNF385D      | 0.538 | 9.63E-05 |
| LPA | ZNF511       | 0.538 | 9.65E-05 |
| LPA | ZNF587       | 0.538 | 9.73E-05 |
| LPA | ZNF608       | 0.538 | 9.64E-05 |
| LPA | ZNF674       | 0.538 | 9.46E-05 |
| LPA | ACP6         | 0.537 | 9.79E-05 |
| LPA | ALG12        | 0.537 | 9.91E-05 |
| LPA | ATOH7        | 0.537 | 9.92E-05 |

|     |                |        |          |
|-----|----------------|--------|----------|
| LPA | CDK5RAP3       | 0.537  | 9.79E-05 |
| LPA | COL16A1        | 0.537  | 9.83E-05 |
| LPA | COQ2           | 0.537  | 9.95E-05 |
| LPA | FAM219B        | 0.537  | 9.94E-05 |
| LPA | FEN1           | 0.537  | 9.88E-05 |
| LPA | FRMPD4         | 0.537  | 9.79E-05 |
| LPA | GOSR1          | 0.537  | 9.78E-05 |
| LPA | HBG2           | 0.537  | 9.89E-05 |
| LPA | HNRNPD         | 0.537  | 9.80E-05 |
| LPA | IRF4           | 0.537  | 9.83E-05 |
| LPA | KCNAB3         | 0.537  | 9.97E-05 |
| LPA | KRT76          | 0.537  | 9.82E-05 |
| LPA | LIPJ           | 0.537  | 1.00E-04 |
| LPA | MAD2L2         | 0.537  | 9.93E-05 |
| LPA | MC1R           | 0.537  | 9.93E-05 |
| LPA | MFAP5          | 0.537  | 9.99E-05 |
| LPA | NEK11          | 0.537  | 9.81E-05 |
| LPA | PJA1           | 0.537  | 9.92E-05 |
| LPA | PLPPR3         | 0.537  | 9.85E-05 |
| LPA | PPIL2          | 0.537  | 9.82E-05 |
| LPA | PTGES3L-AARSD1 | 0.537  | 9.90E-05 |
| LPA | SIK3           | 0.537  | 9.94E-05 |
| LPA | SLC25A15       | 0.537  | 9.84E-05 |
| LPA | SLC29A3        | 0.537  | 9.86E-05 |
| LPA | SLC04C1        | 0.537  | 9.85E-05 |
| LPA | TANC1          | 0.537  | 9.84E-05 |
| LPA | TIMM10         | 0.537  | 9.98E-05 |
| LPA | UBFD1          | 0.537  | 9.87E-05 |
| LPA | ZC3H7B         | 0.537  | 9.93E-05 |
| LPA | FBXO39         | -0.54  | 8.99E-05 |
| LPA | GAS2           | -0.542 | 8.40E-05 |
| LPA | FOLH1          | -0.55  | 6.12E-05 |
| LPA | MAMSTR         | -0.55  | 6.19E-05 |
| LPA | LINC00856      | -0.558 | 4.68E-05 |
| LPA | DEFB132        | -0.567 | 3.30E-05 |
| LPA | FSCB           | -0.592 | 1.17E-05 |
| LPA | C15orf56       | -0.604 | 7.00E-06 |
| LPA | SALL4          | -0.606 | 6.30E-06 |
| LPA | KIRREL3-AS2    | -0.62  | 3.35E-06 |