**Supplementary Table S1. Candidate genes of referencing cardiovascular disease gene databases**

| Number | Genes |
| --- | --- |
| 1 | ABCC9 |
| 2 | ACADVL |
| 3 | ACTA1 |
| 4 | ACTC1 |
| 5 | ACTN2 |
| 6 | AKAP9 |
| 7 | ALG10 |
| 8 | AMPD1 |
| 9 | ANK2 |
| 10 | ANO5 |
| 11 | B3GALNT2 |
| 12 | B4GAT1 |
| 13 | BAG3 |
| 14 | BIN1 |
| 15 | BMPR2 |
| 16 | CACNA1C |
| 17 | CACNA1D |
| 18 | CACNA2D1 |
| 19 | CACNB2 |
| 20 | CALM1 |
| 21 | CALM2 |
| 22 | CALR3 |
| 23 | CAPN3 |
| 24 | CASQ2 |
| 25 | CAV3 |
| 26 | CCDC78 |
| 27 | CFL2 |
| 28 | CHKB |
| 29 | CLIC2 |
| 30 | CNBP |
| 31 | CNTN1 |
| 32 | COL12A1 |
| 33 | COL6A1 |
| 34 | COL6A2 |
| 35 | COL6A3 |
| 36 | COL9A3 |
| 37 | CRYAB |
| 38 | CSRP3 |
| 39 | CTNNA3 |
| 40 | DAG1 |
| 41 | DES |
| 42 | DMD |
| 43 | DMPK |
| 44 | DNAJB6 |
| 45 | DNAJC19 |
| 46 | DNM2 |
| 47 | DPP6 |
| 48 | DSC2 |
| 49 | DSG2 |
| 50 | DSP |
| 51 | DTNA |
| 52 | DYSF |
| 53 | EMD |
| 54 | EYA4 |
| 55 | FHL1 |
| 56 | FKRP |
| 57 | FKTN |
| 58 | FLNC |
| 59 | GATAD1 |
| 60 | GJA1 |
| 61 | GJA5 |
| 62 | GLA |
| 63 | GMPPB |
| 64 | GNAI2 |
| 65 | GNE |
| 66 | GPD1L |
| 67 | HCN4 |
| 68 | HNRNPDL |
| 69 | HRAS |
| 70 | ISCU |
| 71 | ISPD |
| 72 | ITGA7 |
| 73 | JPH2 |
| 74 | JUP |
| 75 | KBTBD13 |
| 76 | KCNA5 |
| 77 | KCND3 |
| 78 | KCNE1 |
| 79 | KCNE2 |
| 80 | KCNE3 |
| 81 | KCNH2 |
| 82 | KCNJ2 |
| 83 | KCNJ5 |
| 84 | KCNQ1 |
| 85 | KLHL40 |
| 86 | KLHL41 |
| 87 | LAMA2 |
| 88 | LAMA4 |
| 89 | LAMP2 |
| 90 | LARGE |
| 91 | LDB3 |
| 92 | LMNA |
| 93 | LMOD3 |
| 94 | MEGF10 |
| 95 | MIB1 |
| 96 | MTM1 |
| 97 | MYBPC1 |
| 98 | MYBPC3 |
| 99 | MYF6 |
| 100 | MYH2 |
| 101 | MYH6 |
| 102 | MYH7 |
| 103 | MYL2 |
| 104 | MYL3 |
| 105 | MYLK2 |
| 106 | MYOT |
| 107 | MYOZ2 |
| 108 | MYPN |
| 109 | NEB |
| 110 | NEXN |
| 111 | NKX2-5 |
| 112 | NPPA |
| 113 | NUP155 |
| 114 | PABPN1 |
| 115 | PKP2 |
| 116 | PLEC |
| 117 | PLN |
| 118 | PNPLA2 |
| 119 | POLG |
| 120 | POMGNT1 |
| 121 | POMGNT2 |
| 122 | POMK |
| 123 | POMT1 |
| 124 | POMT2 |
| 125 | PRDM16 |
| 126 | PRKAG2 |
| 127 | PSEN1 |
| 128 | PSEN2 |
| 129 | PTRF |
| 130 | RAF1 |
| 131 | RBM20 |
| 132 | RRM2B |
| 133 | RYR1 |
| 134 | RYR2 |
| 135 | SCN10A |
| 136 | SCN1B |
| 137 | SCN2B |
| 138 | SCN3B |
| 139 | SCN4B |
| 140 | SCN5A |
| 141 | SCO2 |
| 142 | SDHA |
| 143 | SEPN1 |
| 144 | SGCA |
| 145 | SGCB |
| 146 | SGCD |
| 147 | SGCG |
| 148 | SLC22A5 |
| 149 | SLC25A4 |
| 150 | SMCHD1 |
| 151 | SNTA1 |
| 152 | SPEG |
| 153 | STAC3 |
| 154 | SYNE1 |
| 155 | SYNE2 |
| 156 | TAZ |
| 157 | TBX20 |
| 158 | TCAP |
| 159 | TGFB3 |
| 160 | TIA1 |
| 161 | TMEM43 |
| 162 | TMEM5 |
| 163 | TMPO |
| 164 | TNNC1 |
| 165 | TNNI2 |
| 166 | TNNI3 |
| 167 | TNNT1 |
| 168 | TNNT2 |
| 169 | TNPO3 |
| 170 | TPM1 |
| 171 | TPM2 |
| 172 | TPM3 |
| 173 | TRAPPC11 |
| 174 | TRDN |
| 175 | TRIM32 |
| 176 | TRPM4 |
| 177 | TTN |
| 178 | TTR |
| 179 | VCL |
| 180 | VCP |
| 181 | VMA21 |