**Table S1. List of the DMD-associated genes.** List of the top 205 genes prioritized from the BIO-NMD project and selected for the SOLiD sequencing enrichment. Different Refseq of the same gene have been reported.

|  |  |  |
| --- | --- | --- |
| number | Refseq SNP | Gene |
| 1 |  NM\_005026  |  PIK3CD  |
| 2 |  NM\_014654  |  SDC3  |
| 3 |  NM\_001142588  |  NFYC  |
| 4 |  NM\_001114172  |  PIK3R3  |
| 5 |  NM\_006252  |  PRKAA2  |
| 6 |  NM\_002228  |  JUN  |
| 7 |  NM\_172212  |  CSF1  |
| 8 |  NM\_003637  |  ITGA10  |
| 9 |  NM\_005399  |  PRKAB2  |
| 10 |  NM\_181715  |  CRTC2  |
| 11 |  NM\_002293  |  LAMC1  |
| 12 |  NM\_005562  |  LAMC2  |
| 13 |  NM\_133262, NM\_133326 |  ATP6V1G3  |
| 14 |  NM\_002479  |  MYOG  |
| 15 |  NM\_002646  |  PIK3C2B  |
| 16 |  NM\_001017402  |  LAMB3  |
| 17 |  NM\_001040619, NM\_001030287  |  ATF3  |
| 18 |  NM\_001134285  |  ESRRG  |
| 19 |  NM\_002189  |  IL15RA  |
| 20 |  NM\_003638  |  ITGA8  |
| 21 |  NM\_033668  |  ITGB1  |
| 22 |  NM\_012238  |  SIRT1  |
| 23 |  NM\_003373, NM\_014000  |  VCL  |
| 24 |  NM\_003375  |  VDAC2  |
| 25 |  NM\_002645  |  PIK3C2A  |
| 26 |  NM\_000614  |  CNTF  |
| 27 |  NM\_004451  |  ESRRA  |
| 28 |  NM\_138456  |  BATF2  |
| 29 |  NM\_005438  |  FOSL1  |
| 30 |  NM\_001104  |  ACTN3  |
| 31 |  NM\_001143836  |  NOX4  |
| 32 |  NM\_000552  |  VWF  |
| 33 |  NM\_004570  |  PIK3C2G  |
| 34 |  NM\_005086, NM\_001135823  |  SSPN  |
| 35 |  NM\_001206709  |  PRKAG1  |
| 36 |  NM\_000889  |  ITGB7  |
| 37 |  NM\_002205  |  ITGA5  |
| 38 |  NM\_002206, NM\_001144997  |  ITGA7  |
| 39 |  NM\_002392  |  MDM2  |
| 40 |  NM\_133503  |  DCN  |
| 41 |  NM\_006166  |  NFYB  |
| 42 |  NM\_006253  |  PRKAB1  |
| 43 |  NM\_025157, NM\_001080855  |  PXN  |
| 44 |  NM\_000231  |  SGCG  |
| 45 |  NM\_004791  |  ITGBL1  |
| 46 |  NM\_001845  |  COL4A1  |
| 47 |  NM\_001846  |  COL4A2  |
| 48 |  NM\_002471  |  MYH6  |
| 49 |  NM\_000257  |  MYH7  |
| 50 |  NM\_005252  |  FOS  |
| 51 |  NM\_001135049, NM\_001135047  |  JDP2  |
| 52 |  NM\_006399  |  BATF  |
| 53 |  NM\_001004439  |  ITGA11  |
| 54 |  NM\_024505, NM\_001184780  |  NOX5  |
| 55 |  NM\_000246  |  CIITA  |
| 56 |  NM\_015092  |  SMG1  |
| 57 |  NM\_001040056  |  MAPK3  |
| 58 |  NM\_002209  |  ITGAL  |
| 59 |  NM\_000632, NM\_001145808  |  ITGAM  |
| 60 |  NM\_000887  |  ITGAX  |
| 61 |  NM\_005353  |  ITGAD  |
| 62 |  NM\_001127891  |  MMP2  |
| 63 |  NM\_020313  |  CIAPIN1  |
| 64 |  NM\_004691  |  ATP6V0D1  |
| 65 |  NM\_006750  |  SNTB2  |
| 66 |  NM\_001170720, NM\_001170714  |  BCAR1  |
| 67 |  NM\_002208  |  ITGAE  |
| 68 |  NM\_001142633  |  PIK3R5  |
| 69 |  NM\_003802  |  MYH13  |
| 70 |  NM\_002472  |  MYH8  |
| 71 |  NM\_017533  |  MYH4  |
| 72 |  NM\_005963  |  MYH1  |
| 73 |  NM\_017534  |  MYH2  |
| 74 |  NM\_002470  |  MYH3  |
| 75 |  NM\_001005291  |  SREBF1  |
| 76 |  NM\_000638  |  VTN  |
| 77 |  NM\_002982  |  CCL2  |
| 78 |  NM\_003250  |  THRA  |
| 79 |  NM\_005177  |  ATP6V0A1  |
| 80 |  NM\_013999  |  MEOX1  |
| 81 |  NM\_000419  |  ITGA2B  |
| 82 |  NM\_000212  |  ITGB3  |
| 83 |  NM\_005501  |  ITGA3  |
| 84 |  NM\_000023  |  SGCA  |
| 85 |  NM\_000088  |  COL1A1  |
| 86 |  NM\_000789, NM\_001178057  |  ACE  |
| 87 |  NM\_000515  |  GH1  |
| 88 |  NM\_001005619  |  ITGB4  |
| 89 |  NM\_001614  |  ACTG1  |
| 90 |  NM\_005559  |  LAMA1  |
| 91 |  NM\_005406  |  ROCK1  |
| 92 |  NM\_001127717, NM\_001127718  |  LAMA3  |
| 93 |  NM\_001198939, NM\_032981  |  DTNA  |
| 94 |  NM\_002647  |  PIK3C3  |
| 95 |  NM\_001190821, NM\_001190823  |  SMAD7  |
| 96 |  NM\_000657  |  BCL2  |
| 97 |  NM\_005027  |  PIK3R2  |
| 98 |  NM\_002911  |  UPF1  |
| 99 |  NM\_002503  |  NFKBIB  |
| 100 |  NM\_001042544  |  LTBP4  |
| 101 |  NM\_000660  |  TGFB1  |
| 102 |  NM\_007121  |  NR1H2  |
| 103 |  NM\_001039362  |  ATP6V1C2  |
| 104 |  NM\_001006946  |  SDC1  |
| 105 |  NM\_033147  |  DTNB  |
| 106 |  NM\_005253  |  FOSL2  |
| 107 |  NM\_001692  |  ATP6V1B1  |
| 108 |  NM\_000575  |  IL1A  |
| 109 |  NM\_000576  |  IL1B  |
| 110 |  NM\_014440  |  IL36A  |
| 111 |  NM\_014438, NM\_173178  |  IL36B  |
| 112 |  NM\_173842, NM\_000577  |  IL1RN  |
| 113 |  NM\_000888  |  ITGB6  |
| 114 |  NM\_001935  |  DPP4  |
| 115 |  NM\_002054  |  GCG  |
| 116 |  NM\_000210, NM\_001079818  |  ITGA6  |
| 117 |  NM\_000885  |  ITGA4  |
| 118 |  NM\_001145000  |  ITGAV  |
| 119 |  NM\_005259  |  MSTN  |
| 120 |  NM\_001608  |  ACADL  |
| 121 |  NM\_004044  |  ATIC  |
| 122 |  NM\_212482  |  FN1  |
| 123 |  NM\_017431  |  PRKAG3  |
| 124 |  NM\_000092  |  COL4A4  |
| 125 |  NM\_000091  |  COL4A3  |
| 126 |  NM\_057166, NM\_057164, NM\_057167  |  COL6A3  |
| 127 |  NM\_001200  |  BMP2  |
| 128 |  NM\_003098  |  SNTA1  |
| 129 |  NM\_005560  |  LAMA5  |
| 130 |  NM\_001853  |  COL9A3  |
| 131 |  NM\_001697  |  ATP5O  |
| 132 |  NM\_001001890  |  RUNX1  |
| 133 |  NM\_000211  |  ITGB2  |
| 134 |  NM\_001848  |  COL6A1  |
| 135 |  NM\_058174, NM\_001849  |  COL6A2  |
| 136 |  NM\_001039366  |  ATP6V1E1  |
| 137 |  NM\_001196  |  BID  |
| 138 |  NM\_138957  |  MAPK1  |
| 139 |  NM\_004599  |  SREBF2  |
| 140 |  NM\_001001928  |  PPARA  |
| 141 |  NM\_002880  |  RAF1  |
| 142 |  NM\_002207  |  ITGA9  |
| 143 |  NM\_001123041, NM\_001123396  |  CCR2  |
| 144 |  NM\_002292  |  LAMB2  |
| 145 |  NM\_001177636  |  DAG1  |
| 146 |  NM\_001690  |  ATP6V1A  |
| 147 |  NM\_001178065  |  CASR  |
| 148 |  NM\_002213  |  ITGB5  |
| 149 |  NM\_014602  |  PIK3R4  |
| 150 |  NM\_006219  |  PIK3CB  |
| 151 |  NM\_006218  |  PIK3CA  |
| 152 |  NM\_001177800  |  ADIPOQ  |
| 153 |  NM\_001130845  |  BCL6  |
| 154 |  NM\_013261  |  PPARGC1A  |
| 155 |  NM\_005038  |  PPID  |
| 156 |  NM\_032991  |  CASP3  |
| 157 |  NM\_001151  |  SLC25A4  |
| 158 |  NM\_181501  |  ITGA1  |
| 159 |  NM\_002203  |  ITGA2  |
| 160 |  NM\_181523, NM\_181504, NM\_001242466  |  PIK3R1  |
| 161 |  NM\_001126336, NM\_001164098, NM\_001164097  |  VCAN  |
| 162 |  NM\_002188  |  IL13  |
| 163 |  NM\_000589  |  IL4  |
| 164 |  NM\_003374  |  VDAC1  |
| 165 |  NM\_001018074  |  NR3C1  |
| 166 |  NM\_172244  |  SGCD  |
| 167 |  NM\_001171819  |  PPARD  |
| 168 |  NM\_001105207, NM\_001105208  |  LAMA4  |
| 169 |  NM\_001079823  |  LAMA2  |
| 170 |  NM\_001122740  |  ESR1  |
| 171 |  NM\_015718  |  NOX3  |
| 172 |  NM\_001101  |  ACTB  |
| 173 |  NM\_002214  |  ITGB8  |
| 174 |  NM\_000600  |  IL6  |
| 175 |  NM\_000089  |  COL1A2  |
| 176 |  NM\_005746  |  NAMPT  |
| 177 |  NM\_002649  |  PIK3CG  |
| 178 |  NM\_002291  |  LAMB1  |
| 179 |  NM\_007356  |  LAMB4  |
| 180 |  NM\_000245  |  MET  |
| 181 |  NM\_000230  |  LEP  |
| 182 |  NM\_001628  |  AKR1B1  |
| 183 |  NM\_130840  |  ATP6V0A4  |
| 184 |  NM\_001040633, NM\_016203  |  PRKAG2  |
| 185 |  NM\_139167  |  SGCZ  |
| 186 |  NM\_001693  |  ATP6V1B2  |
| 187 |  NM\_003844  |  TNFRSF10A  |
| 188 |  NM\_005662  |  VDAC3  |
| 189 |  NM\_015941  |  ATP6V1H  |
| 190 |  NM\_152565  |  ATP6V0D2  |
| 191 |  NM\_004349  |  RUNX1T1  |
| 192 |  NM\_002998  |  SDC2  |
| 193 |  NM\_001695  |  ATP6V1C1  |
| 194 |  NM\_001199649, NM\_005607  |  PTK2  |
| 195 |  NM\_001916  |  CYC1  |
| 196 |  NM\_001127610  |  BAAT  |
| 197 |  NM\_001099679  |  TRIM32  |
| 198 |  NM\_006059  |  LAMC3  |
| 199 |  NM\_002957  |  RXRA  |
| 200 |  NM\_004016, NM\_004007, NM\_000109  |  DMD  |
| 201 |  NM\_001170931  |  FOXO4  |
| 202 |  NM\_000291  |  PGK1  |
| 203 |  NM\_007052  |  NOX1  |
| 204 |  NM\_033641  |  COL4A6  |
| 205 |  NM\_000495  |  COL4A5  |