

| No. | Symbol  | Accession No.                           |
|-----|---------|---|
| 1   | ACACB   | NM_001093                               |
| 2   | ACSL1   | NM_001995                               |
| 3   | ACSL3   | NM_004457,NM_203372                     |
| 4   | ACSL4   | NM_022977                               |
| 5   | ACSL5   | NM_203379,NM_203380                     |
| 6   | ACSL6   | NM_015256                               |
| 7   | ADIPOQ  | NM_004797                               |
| 8   | ADIPOR1 | NM_015999                               |
| 9   | ADIPOR2 | NM_024551                               |
| 10  | AGRP    | NM_001138,NM_007316                     |
| 11  | AKT1    | NM_001014431,NM_005163,<br>NM_001014432 |
| 12  | AKT2    | NM_001626                               |
| 13  | AKT3    | NM_181690                               |
| 14  | ANPEP   | NM_001150                               |
| 15  | ARAF    | NM_001654                               |
| 16  | BAD     | NM_004322,NM_032989                     |
| 17  | BAX     | NM_004324                               |
| 18  | BCL2    | NM_000633                               |
| 19  | BCL2L1  | NM_138578                               |
| 20  | BCL3    | NM_005178                               |
| 21  | BLVRA   | NM_000712                               |
| 22  | BMP1    | NM_006128                               |
| 23  | BMP2    | NM_001200                               |
| 24  | BMP3    | NM_001201                               |
| 25  | BMP4    | NM_130851,NM_001202,<br>NM_130850       |
| 26  | BMP5    | NM_021073                               |
| 27  | BMP6    | NM_001718                               |
| 28  | BMP7    | NM_001719                               |
| 29  | BMP8B   | NM_001720                               |
| 30  | BRAF    | NM_004333                               |
| 31  | CAMKK1  | NM_172206,NM_032294                     |
| 32  | CAMKK2  | NM_172226,NM_153499                     |
| 33  | CCL1    | NM_002981                               |
| 34  | CCL11   | NM_002986                               |
| 35  | CCL13   | NM_005408                               |
| 36  | CCL2    | NM_002982                               |
| 37  | CCL28   | NM_148672                               |
| 38  | CCL3L1  | NM_021006                               |
| 39  | CCL4    | NM_002984                               |
| 40  | CCL5    | NM_002985                               |
| 41  | CCL7    | NM_006273                               |
| 42  | CCND1   | NM_053056                               |
| 43  | CCND2   | NM_001759                               |
| 44  | CCND3   | NM_001760                               |
| 45  | CCR1    | NM_001295                               |
| 46  | CCR2    | NM_001123041                            |
| 47  | CCR3    | NM_178329,NM_001837                     |
| 48  | CCR4    | NM_005508                               |
| 49  | CCR5    | NM_000579                               |
| 50  | CCR7    | NM_001838                               |
| 51  | CCR8    | NM_005201                               |
| 52  | CD14    | NM_001040021,NM_000591                  |
| 53  | CD36    | NM_001001547,NM_001001548,<br>NM_000072 |
| 54  | CD4     | NM_000616                               |
| 55  | CDKN2D  | NM_001800,NM_079421                     |
| 56  | CHUK    | NM_001278                               |
| 57  | CISH    | NM_145071                               |
| 58  | CPT1A   | NM_001876                               |
| 59  | CPT1C   | NM_152359                               |
| 60  | CPT2    | NM_000098                               |

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|-----|----------|------------------------|
| 61  | CRP      | NM_000567              |
| 62  | CSF1     | NM_172212,NM_000757    |
| 63  | CSF2     | NM_000758              |
| 64  | CSF2RB   | NM_000395              |
| 65  | CSF3     | NM_000759              |
| 66  | CX3CL1   | NM_002996              |
| 67  | CX3CR1   | NM_001337              |
| 68  | CXCL10   | NM_001565              |
| 69  | CXCL12   | NM_001033886           |
| 70  | CXCL2    | NM_002089              |
| 71  | CXCL3    | NM_002090              |
| 72  | CXCL6    | NM_002993              |
| 73  | CXCL9    | NM_002416              |
| 74  | CXCR3    | NM_001504              |
| 75  | CXCR4    | NM_001008540           |
| 76  | DARC     | NM_002036              |
| 77  | ELK1     | NM_005229              |
| 78  | FAM3B    | NM_058186              |
| 79  | FAM3C    | NM_001040020,NM_014888 |
| 80  | FASLG    | NM_000639              |
| 81  | FES      | NM_002005              |
| 82  | FIGF     | NM_004469              |
| 83  | FOS      | NM_005252              |
| 84  | FRAP1    | NM_004958              |
| 85  | FSD1     | NM_024333              |
| 86  | G6PC     | NM_000151              |
| 87  | G6PC2    | NM_021176              |
| 88  | GDF10    | NM_004962              |
| 89  | GDF11    | NM_005811              |
| 90  | GDF2     | NM_016204              |
| 91  | GDF3     | NM_020634              |
| 92  | GDF5     | NM_000557              |
| 93  | GDF9     | NM_005260              |
| 94  | GH1      | NM_000515              |
| 95  | GHRL     | NM_016362              |
| 96  | GNA11    | NM_002067              |
| 97  | GNA12    | NM_007353              |
| 98  | GNA13    | NM_006572              |
| 99  | GNAQ     | NM_002072              |
| 100 | GNAS     | NM_080426              |
| 101 | GNB1     | NM_002074              |
| 102 | GRB2     | NM_002086              |
| 103 | GSK3B    | NM_002093              |
| 104 | GZMA     | NM_006144              |
| 105 | H6PD     | NM_004285              |
| 106 | HLA-DQA1 | XM_001134217           |
| 107 | HLA-DQB1 | NM_002123              |
| 108 | HLA-DRA  | NM_019111              |
| 109 | HLA-DRB1 | NM_002124              |
| 110 | HMOX1    | NM_002133              |
| 111 | HRAS     | NM_005343              |
| 112 | IFI27    | NM_005532              |
| 113 | IFNA1    | NM_024013              |
| 114 | IFNA2    | NM_000605              |
| 115 | IFNA4    | NM_021068              |
| 116 | IFNA5    | NM_002169              |
| 117 | IFNA8    | NM_002170              |
| 118 | IFNB1    | NM_002176              |
| 119 | IFNG     | NM_000619              |
| 120 | IFNK     | NM_020124              |
| 121 | IGF1     | NM_000618              |
| 122 | IKBKB    | NM_001556              |
| 123 | IKBKE    | NM_014002              |
| 124 | IKBKG    | NM_003639              |

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|-----|---------|-----------------------------------|
| 125 | IL10    | NM_000572                         |
| 126 | IL10RA  | NM_001558                         |
| 127 | IL10RB  | NM_000628                         |
| 128 | IL11    | NM_000641                         |
| 129 | IL11RA  | NM_147162                         |
| 130 | IL12A   | NM_000882                         |
| 131 | IL12B   | NM_002187                         |
| 132 | IL12RB1 | NM_005535                         |
| 133 | IL12RB2 | NM_001559                         |
| 134 | IL13    | NM_002188                         |
| 135 | IL13RA2 | NM_000640                         |
| 136 | IL15    | NM_000585,NM_172174               |
| 137 | IL15RA  | NM_002189                         |
| 138 | IL16    | NM_172217                         |
| 139 | IL17A   | NM_002190                         |
| 140 | IL17B   | NM_014443                         |
| 141 | IL17C   | NM_013278                         |
| 142 | IL17F   | NM_052872                         |
| 143 | IL17RA  | NM_014339                         |
| 144 | IL17RB  | NM_172234                         |
| 145 | IL18    | NM_001562                         |
| 146 | IL18R1  | NM_003855                         |
| 147 | IL19    | NM_153758                         |
| 148 | IL1A    | NM_000575                         |
| 149 | IL1B    | NM_000576                         |
| 150 | IL1F10  | NM_032556                         |
| 151 | IL1F5   | NM_173170,NM_012275               |
| 152 | IL1F6   | NM_014440                         |
| 153 | IL1F7   | NM_014439                         |
| 154 | IL1F8   | NM_173178                         |
| 155 | IL1F9   | NM_019618                         |
| 156 | IL1R1   | NM_000877                         |
| 157 | IL1RAP  | NM_134470                         |
| 158 | IL1RL1  | NM_003856                         |
| 159 | IL1RN   | NM_173842                         |
| 160 | IL2     | NM_000586                         |
| 161 | IL20    | NM_018724                         |
| 162 | IL21    | NM_021803                         |
| 163 | IL21R   | NM_181078,NM_181079,<br>NM_021798 |
| 164 | IL22    | NM_020525                         |
| 165 | IL22RA1 | NM_021258                         |
| 166 | IL23A   | NM_016584                         |
| 167 | IL23R   | NM_144701                         |
| 168 | IL24    | NM_006850                         |
| 169 | IL25    | NM_022789                         |
| 170 | IL27    | NM_145659                         |
| 171 | IL27RA  | NM_004843                         |
| 172 | IL2RA   | NM_000417                         |
| 173 | IL2RB   | NM_000878                         |
| 174 | IL2RG   | NM_000206                         |
| 175 | IL3     | NM_000588                         |
| 176 | IL3RA   | NM_002183                         |
| 177 | IL4     | NM_172348                         |
| 178 | IL4R    | NM_000418                         |
| 179 | IL5     | NM_000879                         |
| 180 | IL5RA   | NM_000564,NM_175726               |
| 181 | IL6     | NM_000600                         |
| 182 | IL6R    | NM_181359                         |
| 183 | IL6ST   | NM_175767                         |
| 184 | IL7     | NM_000880                         |
| 185 | IL7R    | NM_002185                         |
| 186 | IL8     | NM_000584                         |
| 187 | IL9     | NM_000590                         |

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| 188 | IL9R     | NM_002186           |
| 189 | INHA     | NM_002191           |
| 190 | INHBA    | NM_002192           |
| 191 | INPP5D   | NM_001017915        |
| 192 | INSR     | NM_000208           |
| 193 | IRAK1    | NM_001025242        |
| 194 | IRAK2    | NM_001570           |
| 195 | IRAK3    | NM_007199           |
| 196 | IRAK4    | NM_016123           |
| 197 | IRS1     | NM_005544           |
| 198 | IRS2     | NM_003749           |
| 199 | IRS4     | NM_003604           |
| 200 | ITLN1    | NM_017625           |
| 201 | JAK1     | NM_002227           |
| 202 | JAK2     | NM_004972           |
| 203 | JAK3     | NM_000215           |
| 204 | JUN      | NM_002228           |
| 205 | KIT      | NM_000222           |
| 206 | KITLG    | NM_003994           |
| 207 | KRAS     | NM_004985           |
| 208 | LCK      | NM_005356           |
| 209 | LEFTY2   | NM_003240           |
| 210 | LEP      | NM_000230           |
| 211 | LEPR     | NM_001003680        |
| 212 | LIF      | NM_002309           |
| 213 | LIFR     | NM_002310           |
| 214 | LIPA     | NM_000235           |
| 215 | LTA      | NM_000595           |
| 216 | LTB      | NM_002341           |
| 217 | MAP2K1   | NM_002755           |
| 218 | MAP2K2   | NM_030662           |
| 219 | MAP2K3   | XM_001130488        |
| 220 | MAP2K4   | NM_003010           |
| 221 | MAP2K5   | NM_002757           |
| 222 | MAP2K6   | NM_002758           |
| 223 | MAP3K1   | XM_001128827        |
| 224 | MAP3K14  | NM_003954           |
| 225 | MAP3K7   | NM_003188           |
| 226 | MAPK1    | NM_002745,NM_138957 |
| 227 | MAPK10   | NM_138980           |
| 228 | MAPK11   | NM_002751,NM_138993 |
| 229 | MAPK12   | NM_002969           |
| 230 | MAPK13   | NM_002754           |
| 231 | MAPK14   | NM_001315           |
| 232 | MAPK3    | NM_001040056        |
| 233 | MAPK6    | NM_002748           |
| 234 | MAPK7    | NM_139034,NM_139033 |
| 235 | MAPK8    | NM_002750           |
| 236 | MAPK9    | NM_139070           |
| 237 | MAPKAPK2 | NM_032960           |
| 238 | MID1     | NM_033290,NM_000381 |
| 239 | MRAS     | NM_012219           |
| 240 | MYC      | NM_002467           |
| 241 | MYD88    | NM_002468           |
| 242 | NFAT5    | NM_138713           |
| 243 | NFATC1   | NM_006162           |
| 244 | NFATC2   | NM_012340           |
| 245 | NFATC3   | NM_004555           |
| 246 | NFATC4   | NM_004554           |
| 247 | NFKB1    | NM_003998           |
| 248 | NFKB2    | NM_002502           |
| 249 | NFKBIA   | NM_020529           |
| 250 | NFKBIB   | NM_001001716        |
| 251 | NODAL    | NM_018055           |

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| 252 | NPY      | NM_000905  |
| 253 | NRAS     | NM_002524  |
| 254 | PCK1     | NM_002591  |
| 255 | PCK2     | NM_001018073   |
| 256 | PDGFA    | XM_001126441   |
| 257 | PDPK1    | NM_031268  |
| 258 | PIAS3    | NM_006099  |
| 259 | PIK3C2A  | NM_002645  |
| 260 | PIK3C2B  | NM_002646  |
| 261 | PIK3C2G  | NM_004570  |
| 262 | PIK3C3   | NM_002647  |
| 263 | PIK3CA   | NM_006218  |
| 264 | PIK3CB   | NM_006219  |
| 265 | PIK3CD   | NM_005026  |
| 266 | PIK3R1   | NM_181523  |
| 267 | PIK3R2   | NM_005027  |
| 268 | PIK3R3   | NM_003629  |
| 269 | PIK3R4   | NM_014602  |
| 270 | PIK3R5   | NM_014308  |
| 271 | PIM1     | NM_002648  |
| 272 | PLCG1    | NM_002660  |
| 273 | PLCG2    | NM_002661  |
| 274 | POMC     | NM_001035256,NM_000939                               |
| 275 | PPARA    | NM_005036,NM_001001928,<br>NM_001001930,NM_001001929 |
| 276 | PPARG    | NM_015869  |
| 277 | PPARGC1A | NM_013261  |
| 278 | PPBP     | NM_002704  |
| 279 | PPP1R12A | NM_002480  |
| 280 | PPP1R15A | NM_014330  |
| 281 | PPP1R1B  | NM_181505  |
| 282 | PPP2CA   | NM_002715  |
| 283 | PPP2CB   | NM_004156,NM_001009552                               |
| 284 | PPP2R1A  | NM_014225  |
| 285 | PPP2R1B  | NM_002716  |
| 286 | PPP2R2A  | NM_002717  |
| 287 | PPP2R2B  | NM_004576,NM_181674,NM_181675                        |
| 288 | PPP2R4   | NM_178001  |
| 289 | PPP2R5A  | NM_006243  |
| 290 | PPP2R5C  | NM_178586  |
| 291 | PPP3CA   | NM_000944  |
| 292 | PPP3CB   | NM_021132  |
| 293 | PPP3CC   | NM_005605  |
| 294 | PPP3R1   | NM_000945  |
| 295 | PPP3R2   | NM_147180  |
| 296 | PRKAA1   | NM_206907  |
| 297 | PRKAA2   | NM_006252  |
| 298 | PRKAB1   | NM_006253  |
| 299 | PRKAB2   | NM_005399  |
| 300 | PRKAG1   | NM_002733  |
| 301 | PRKAG2   | NM_016203  |
| 302 | PRKCA    | NM_002737  |
| 303 | PRKCB    | NM_002738  |
| 304 | PRKCD    | NM_212539,NM_006254                                  |
| 305 | PRKCE    | NM_005400  |
| 306 | PRKCG    | NM_002739  |
| 307 | PRKCH    | NM_006255  |
| 308 | PRKCI    | NM_002740  |
| 309 | PRKCQ    | NM_006257  |
| 310 | PRKCZ    | NM_002744  |
| 311 | PRKD1    | NM_002742  |
| 312 | PRKD3    | NM_005813  |
| 313 | PTEN     | NM_000314  |
| 314 | PTPN11   | NM_002834  |

|     |           |                     |
|-----|-----------|---------------------|
| 315 | PTPN6     | NM_002831           |
| 316 | RAF1      | NM_002880           |
| 317 | RARRES2   | NM_002889           |
| 318 | RBP4      | NM_006744           |
| 319 | REL       | NM_002908           |
| 320 | RELA      | NM_021975           |
| 321 | RELB      | NM_006509           |
| 322 | RETN      | NM_020415           |
| 323 | RPS6KB1   | NM_003161           |
| 324 | RRAS      | NM_006270           |
| 325 | RXRA      | NM_002957           |
| 326 | RXRB      | NM_021976           |
| 327 | RXRG      | NM_006917           |
| 328 | SERPINE1  | NM_000602           |
| 329 | SHC1      | NM_183001           |
| 330 | SHC3      | NM_016848           |
| 331 | SLC2A1    | NM_006516           |
| 332 | SLC2A4    | NM_001042           |
| 333 | SOCS1     | NM_003745           |
| 334 | SOCS2     | NM_003877           |
| 335 | SOCS3     | NM_003955           |
| 336 | SOCS5     | NM_014011,NM_144949 |
| 337 | SOCS6     | NM_004232           |
| 338 | SOS1      | NM_005633           |
| 339 | SOS2      | NM_006939           |
| 340 | STAT1     | NM_139266           |
| 341 | STAT3     | NM_213662           |
| 342 | STAT4     | NM_003151           |
| 343 | STAT5A    | NM_003152           |
| 344 | STAT5B    | NM_012448           |
| 345 | STAT6     | NM_003153           |
| 346 | STK11     | NM_000455           |
| 347 | SYK       | NM_003177           |
| 348 | TFAP2B    | NM_003221           |
| 349 | TGFA      | NM_003236           |
| 350 | TGFB1     | NM_000660           |
| 351 | TGFB2     | NM_003238           |
| 352 | TGFB3     | NM_003239           |
| 353 | TIA1      | NM_022173           |
| 354 | TIMP1     | NM_003254           |
| 355 | TLR4      | NM_138554           |
| 356 | TNF       | NM_000594           |
| 357 | TNFRSF11B | NM_002546           |
| 358 | TNFRSF19L | NM_032871,NM_152222 |
| 359 | TNFRSF1A  | NM_001065           |
| 360 | TNFRSF1B  | NM_001066           |
| 361 | TNFSF10   | NM_003810           |
| 362 | TNFSF11   | NM_033012           |
| 363 | TNFSF12   | NM_003809           |
| 364 | TNFSF13   | NM_003809           |
| 365 | TNFSF13B  | NM_006573           |
| 366 | TNFSF14   | NM_003807           |
| 367 | TNFSF4    | NM_003326           |
| 368 | TNFSF8    | NM_001244           |
| 369 | TOLLIP    | NM_019009           |
| 370 | TP53BP2   | NM_001031685        |
| 371 | TRADD     | NM_003789,NM_153425 |
| 372 | TRAF2     | NM_021138           |
| 373 | TRAF6     | NM_145803,NM_004620 |
| 374 | TXLNA     | NM_175852           |
| 375 | TYK2      | NM_003331           |
| 376 | YWHAZ     | NM_145690,NM_003406 |