| Gene | BG95 SC D15 2D vs BG95 SC D25 2D | BG95 SC D15 3DC vs BG95 SC D25 2D | BG95 SC D15 3DC vs BG95 SC D45 2D | BG95 SC D15 3DS vs BG95 SC D25 2D | BG95 SC D15 3DS vs BG95 SC D45 2D | BG95 SC D35 3DS vs BG95 SC D35 3DC | BG95 SC D45 2D vs BG95 SC D25 2D | BG95 SC D45 2D vs BG95 SC D35 2D | BG95 SC D45 2D vs BG95 SC D35 3DC | BG95 SC D45 2D vs BG95 SC D35 3DS | BG95 SC D45 3DC vs BG95 SC D25 2D | BG95 SC D45 3DC vs BG95 SC D35 2D | BG95 SC D45 3DC vs BG95 SC D35 3DC | BG95 SC D45 3DC vs BG95 SC D35 3DS | BG95 SC D45 3DS vs BG95 SC D25 2D | BG95 SC D45 3DS vs BG95 SC D35 2D | BG95 SC D45 3DS vs BG95 SC D35 3DC | BG95 SC D45 3DS vs BG95 SC D35 3DS | BG95 SC D45 3DS vs BG95 SC D45 2D | Primary Adult vs. BG95 SC D25 2D | Primary Adult vs. BG95 SC D35 2D | Primary Adult vs. BG95 SC D35 3DC | Primary Adult vs. BG95 SC D35 3DS | Primary Adult vs. BG95 SC D45 2D | Primary Adult vs. BG95 SC D45 3DC | Primary Adult vs. BG95 SC D45 3DS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A1AT | 0.0295 | 0.0639 | 0.1200 | 1.0000 | 1.0000 | 1.0000 | 0.0406 | 0.5398 | 0.0946 | 1.0000 | 0.0534 | 0.0514 | 0.0357 | 1.0000 | 0.0615 | 0.0166 | 0.0275 | 0.0562 | 1.0000 | 0.0383 | 0.0397 | 0.0000 | 0.0003 | 0.0002 | 1.0000 | 0.0006 | 0.0000 | 0.0000 |
| ABCB4 | 0.0290 | 0.0053 | 0.4731 | 0.0056 | 0.0067 | 0.0064 | 0.0050 | 0.5644 | 0.0609 | 0.0067 | 0.0352 | 0.0704 | 0.0240 | 0.0059 | 0.0045 | 0.0164 | 0.0173 | 0.0171 | 0.0424 | 0.0174 | 0.0167 | 0.0268 | 0.0272 | 0.0271 | 0.0335 | 0.0273 | 0.0269 | 0.0538 |
| ABCC1 | 0.0069 | 0.0027 | 0.0507 | 0.2958 | 0.0131 | 0.0081 | 0.1514 | 0.0163 | 0.0046 | 0.0386 | 0.3841 | 0.0133 | 0.0106 | 0.7180 | 0.0789 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0847 | 0.0026 | 0.0073 | 0.1704 | 0.0189 | 0.1141 | 1.0000 |
| ABCC2 | 0.0108 | 0.0031 | 0.0030 | 0.4872 | 0.0071 | 0.0032 | 0.0134 | 0.0080 | 0.0036 | 0.0141 | 0.0401 | 0.0379 | 0.0369 | 0.0404 | 0.0476 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0436 | 0.0428 | 0.1285 | 0.0437 | 0.0460 | 0.0963 | 1.0000 |
| ABCC4 | 0.0513 | 0.0129 | 0.1274 | 0.0012 | 0.0378 | 0.0063 | 0.6696 | 0.0506 | 0.0052 | 0.0480 | 0.0635 | 0.0434 | 0.0146 | 0.0961 | 0.1532 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0002 | 0.0341 | 0.0049 | 0.0143 | 0.0237 | 0.0287 | 1.0000 |
| AFP | 0.0232 | 0.0068 | 0.0294 | 0.0432 | 0.0209 | 0.0063 | 0.0024 | 0.3146 | 0.0034 | 0.0019 | 0.5672 | 0.0241 | 0.0649 | 0.0779 | 0.0003 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0674 | 0.0214 | 0.0070 | 0.0415 | 0.0020 | 0.1093 | 1.0000 |
| AHR | 0.0055 | 0.0583 | 0.0106 | 0.2842 | 0.0098 | 0.0088 | 0.6001 | 0.0022 | 0.0077 | 0.0907 | 0.2050 | 0.0098 | 0.0001 | 0.2745 | 0.0629 | 0.1040 | 0.8355 | 0.2890 | 0.1315 | 0.0847 | 0.1436 | 0.0838 | 0.1248 | 0.1006 | 0.0889 | 0.0811 | 0.0903 | 0.1249 |
| ALB | 0.0236 | 0.0599 | 0.0248 | 0.6225 | 0.0236 | 0.0569 | 0.0061 | 0.5711 | 0.0065 | 0.0061 | 0.0139 | 0.0303 | 0.0132 | 0.0138 | 0.0084 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.1350 | 0.1491 | 0.1353 | 0.1350 | 0.1473 | 0.1365 | 1.0000 |
| CYP1A1 | 0.0091 | 0.0264 | 0.2119 | 0.0005 | 0.0050 | 0.0175 | 0.0074 | 0.0069 | 0.0219 | 0.0027 | 0.0003 | 0.0526 | 0.0007 | 0.0001 | 0.0002 | 0.0509 | 0.0074 | 0.0218 | 0.0427 | 0.6702 | 0.0005 | 0.4883 | 0.0412 | 0.0157 | 0.5741 | 0.8574 | 0.0783 | 0.9168 |
| CYP1A2 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| CYP1B1 | 0.0089 | 0.0159 | 0.0243 | 0.1752 | 0.0110 | 0.0176 | 0.0129 | 0.0126 | 0.0168 | 0.5902 | 0.0022 | 0.0016 | 0.0018 | 0.0006 | 0.0025 | 0.0705 | 0.4104 | 0.0236 | 0.1471 | 0.1034 | 0.0041 | 0.0029 | 0.0065 | 0.0150 | 0.0678 | 0.0069 | 0.0019 | 0.0494 |
| CYP2C19 | 0.0225 | 0.0884 | 0.7461 | 0.1515 | 0.0294 | 0.1113 | 0.0502 | 0.4387 | 0.7916 | 0.0676 | 0.0459 | 0.0171 | 0.0180 | 0.0377 | 0.0369 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.4255 | 0.4289 | 0.4285 | 0.4258 | 0.4282 | 0.4251 | 1.0000 |
| CYP2C9 | 0.0414 | 0.0191 | 0.1508 | 0.0719 | 0.0826 | 0.0898 | 0.0043 | 0.0034 | 0.0074 | 0.1257 | 0.0016 | 0.1245 | 0.0011 | 0.0892 | 0.0131 | 0.0755 | 0.0765 | 0.0770 | 0.0910 | 0.0792 | 0.0770 | 0.0190 | 0.0190 | 0.0190 | 0.0194 | 0.0191 | 0.0190 | 0.0251 |
| CYP3A4 | 0.0129 | 0.0248 | 0.1675 | 0.0998 | 0.1056 | 0.1094 | 0.0009 | 0.0039 | 0.2240 | 0.1123 | 0.0680 | 0.0153 | 0.0207 | 0.1002 | 0.0011 | 0.0358 | 0.0362 | 0.0364 | 0.0554 | 0.0366 | 0.0359 | 0.0089 | 0.0089 | 0.0089 | 0.0089 | 0.0089 | 0.0089 | 0.0090 |
| CYP3A5 | 0.0163 | 0.0706 | 0.0109 | 1.0000 | 1.0000 | 1.0000 | 0.0133 | 0.0335 | 0.0110 | 1.0000 | 0.0006 | 0.2658 | 0.0007 | 1.0000 | 0.0367 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.2967 | 0.3012 | 0.2960 | 1.0000 | 0.3055 | 0.3003 | 1.0000 |
| CYP3A7 | 0.0254 | 0.1559 | 0.0253 | 1.0000 | 1.0000 | 1.0000 | 0.0021 | 0.2854 | 0.0021 | 1.0000 | 0.0997 | 0.0256 | 0.0370 | 1.0000 | 0.0021 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.4412 | 0.5685 | 0.4410 | 1.0000 | 0.5347 | 0.4416 | 1.0000 |
| FXR | 0.0073 | 0.0399 | 0.0105 | 0.0065 | 0.0111 | 0.1582 | 0.0001 | 0.4755 | 0.0177 | 0.0011 | 0.0084 | 0.0540 | 0.0072 | 0.0110 | 0.0540 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0102 | 0.0130 | 0.0111 | 0.0106 | 0.0126 | 0.0149 | 1.0000 |
| GSTA4 | 0.0780 | 0.0210 | 0.2695 | 0.0042 | 0.0261 | 0.0088 | 0.0238 | 0.0626 | 0.1329 | 0.0134 | 0.0116 | 0.3282 | 0.0041 | 0.0045 | 0.1405 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0484 | 0.1201 | 0.2926 | 0.0276 | 0.9125 | 0.2502 | 1.0000 |
| GSTT1 | 0.0127 | 0.0042 | 0.0049 | 0.0173 | 0.0122 | 0.0054 | 0.0062 | 0.0060 | 0.5823 | 0.0067 | 0.0248 | 0.0101 | 0.0099 | 0.0111 | 0.3179 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.5898 | 0.5739 | 0.6190 | 0.5761 | 0.6162 | 0.6235 | 1.0000 |
| HNF4 | 0.0035 | 0.0063 | 0.0173 | 0.0014 | 0.0027 | 0.0043 | 0.0253 | 0.0078 | 0.0941 | 0.0151 | 0.0022 | 0.0110 | 0.0011 | 0.0012 | 0.8978 | 0.0444 | 0.0106 | 0.1059 | 0.0261 | 0.8400 | 0.8894 | 0.1267 | 0.2259 | 0.1797 | 0.1186 | 0.1597 | 0.1585 | 0.1578 |
| HNMT | 0.0221 | 0.2309 | 0.0218 | 0.2189 | 0.0225 | 0.0527 | 0.1296 | 0.0217 | 0.6375 | 0.0327 | 0.6767 | 0.0220 | 0.0003 | 0.1266 | 0.0955 | 0.0049 | 0.0395 | 0.0046 | 0.0053 | 0.0044 | 0.0046 | 0.0072 | 0.0238 | 0.0031 | 0.0182 | 0.0021 | 0.0099 | 0.0067 |
| LXRa | 0.0266 | 0.0191 | 0.0440 | 0.0339 | 0.0360 | 0.0419 | 0.0938 | 0.2937 | 0.1793 | 0.0386 | 0.0791 | 0.3389 | 0.0189 | 0.0377 | 0.7480 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0261 | 0.0281 | 0.0337 | 0.5748 | 0.0306 | 0.0298 | 1.0000 |
| MAOA | 0.0031 | 0.4392 | 0.0032 | 0.0046 | 0.0022 | 0.0148 | 0.0303 | 0.0148 | 0.0289 | 0.0167 | 0.0143 | 0.0035 | 0.0010 | 0.0001 | 0.0400 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0352 | 0.0394 | 0.0351 | 0.0345 | 0.0371 | 0.0354 | 1.0000 |
| MAOB | 0.0265 | 0.0022 | 0.0098 | 1.0000 | 1.0000 | 1.0000 | 0.0034 | 0.4951 | 0.0037 | 1.0000 | 0.0028 | 0.0032 | 0.0027 | 1.0000 | 0.0086 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0188 | 0.0221 | 0.0266 | 1.0000 | 0.0224 | 0.0313 | 1.0000 |
| MGST1 | 0.0014 | 0.0017 | 0.0232 | 0.0007 | 0.0716 | 0.0775 | 0.0010 | 0.0181 | 0.6056 | 0.0975 | 0.0029 | 0.0000 | 0.0001 | 0.0660 | 0.6421 | 0.0005 | 0.0075 | 0.5557 | 0.0703 | 0.9598 | 0.4350 | 0.0383 | 0.0308 | 0.0330 | 0.0318 | 0.0327 | 0.0329 | 0.0327 |
| MGST2 | 0.0046 | 0.0441 | 0.0048 | 0.0638 | 0.0045 | 0.0266 | 0.3054 | 0.0045 | 0.0385 | 0.0763 | 0.0001 | 0.0051 | 0.0005 | 0.0003 | 0.0012 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0049 | 0.0063 | 0.0019 | 0.0045 | 0.0048 | 0.0125 | 1.0000 |
| NAT1 | 0.0440 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.4079 | 0.0440 | 1.0000 | 1.0000 | 0.2667 | 0.0441 | 0.0376 | 1.0000 | 0.1893 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0679 | 0.0452 | 1.0000 | 1.0000 | 0.0644 | 0.0863 | 1.0000 |
| NNMT | 0.1090 | 0.0169 | 0.0161 | 0.0066 | 0.0066 | 0.0069 | 0.0042 | 0.0040 | 0.1440 | 0.0068 | 0.0014 | 0.0013 | 0.0013 | 0.0075 | 0.0028 | 0.1061 | 0.1061 | 0.1068 | 0.1398 | 0.1065 | 0.1079 | 0.0003 | 0.0003 | 0.0001 | 0.0089 | 0.0004 | 0.0002 | 0.1100 |
| OCT1T | 0.0060 | 0.0001 | 0.0063 | 0.0100 | 0.0067 | 0.0334 | 0.0044 | 0.0062 | 0.0092 | 0.0191 | 0.0491 | 0.0060 | 0.0124 | 0.0112 | 0.0019 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0161 | 0.0179 | 0.0161 | 0.0162 | 0.0161 | 0.0161 | 1.0000 |
| RXRa | 0.0071 | 0.3152 | 0.0085 | 0.0017 | 0.0032 | 0.0308 | 0.0164 | 0.4188 | 0.0192 | 0.0067 | 0.0206 | 0.0047 | 0.0013 | 0.0035 | 0.0109 | 0.0133 | 0.0204 | 0.0145 | 0.0111 | 0.0195 | 0.0124 | 0.0346 | 0.0462 | 0.0363 | 0.0304 | 0.0446 | 0.0330 | 0.3356 |
| SLCO2B1 | 1.0000 | 0.0001 | 1.0000 | 0.0565 | 1.0000 | 0.0008 | 0.0088 | 1.0000 | 0.1914 | 0.0142 | 0.0024 | 1.0000 | 0.0017 | 0.0034 | 0.0125 | 0.0022 | 1.0000 | 0.0022 | 0.0022 | 0.0022 | 0.0022 | 0.0015 | 1.0000 | 0.0016 | 0.0015 | 0.0016 | 0.0016 | 0.0026 |
| SULT1A1 | 0.0409 | 0.0465 | 0.1807 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.4508 | 0.0407 | 1.0000 | 0.0062 | 0.0230 | 0.0037 | 1.0000 | 0.0300 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.2033 | 0.2709 | 0.2391 | 1.0000 | 0.2860 | 0.3860 | 1.0000 |
| SULT1A2 | 0.0015 | 0.0103 | 0.0284 | 1.0000 | 1.0000 | 1.0000 | 0.0016 | 0.8036 | 0.0265 | 1.0000 | 0.0013 | 0.3871 | 0.0010 | 1.0000 | 0.2968 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.2728 | 0.3013 | 0.2892 | 1.0000 | 0.3020 | 0.2989 | 1.0000 |
| TPMT | 0.1800 | 0.0130 | 0.0368 | 0.0364 | 0.0120 | 0.1969 | 0.3151 | 0.1132 | 0.0214 | 0.0457 | 0.4505 | 0.2819 | 0.0029 | 0.0134 | 0.1626 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0460 | 0.0480 | 0.0432 | 0.0417 | 0.0454 | 0.0466 | 1.0000 |
| UGT1A1 | 0.0013 | 0.0047 | 0.0088 | 0.0393 | 0.0014 | 0.0048 | 0.0081 | 0.0903 | 0.0079 | 0.0091 | 0.0020 | 0.0026 | 0.0019 | 0.0020 | 0.0025 | 0.0989 | 0.7114 | 0.0117 | 0.1046 | 0.4168 | 0.0012 | 0.4105 | 0.4928 | 0.8121 | 0.4133 | 0.4716 | 0.6783 | 0.5096 |
| UGT1A6 | 0.0019 | 0.0187 | 0.0005 | 0.1470 | 0.0021 | 0.0055 | 0.0090 | 0.9543 | 0.0143 | 0.0085 | 0.0065 | 0.1124 | 0.0053 | 0.0063 | 0.1104 | 0.0834 | 0.2766 | 0.1003 | 0.0797 | 0.2776 | 0.4544 | 0.0327 | 0.0459 | 0.0347 | 0.0322 | 0.0460 | 0.0520 | 0.0784 |
| UGT1A9 | 1.0000 | 1.0000 | 0.0341 | 1.0000 | 0.3573 | 0.0163 | 1.0000 | 0.1170 | 0.0087 | 0.0228 | 1.0000 | 0.9858 | 0.0035 | 0.1460 | 0.0834 | 1.0000 | 0.0053 | 0.0049 | 0.0052 | 0.0055 | 0.0052 | 1.0000 | 0.0112 | 0.0104 | 0.0110 | 0.0116 | 0.0112 | 0.6053 |
| UGT2B4 | 0.0291 | 0.0231 | 0.0943 | 0.0447 | 0.9626 | 0.1352 | 0.0061 | 0.0077 | 0.0093 | 0.0099 | 0.0056 | 0.0541 | 0.0043 | 0.0820 | 0.0075 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0027 | 0.0027 | 0.0027 | 0.0027 | 0.0027 | 0.0027 | 1.0000 |
| UGT2B7 | 0.0017 | 0.0143 | 0.0748 | 1.0000 | 1.0000 | 1.0000 | 0.0157 | 0.0044 | 0.1087 | 1.0000 | 0.0134 | 0.0228 | 0.0115 | 1.0000 | 0.1513 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0145 | 0.0155 | 0.0152 | 1.0000 | 0.0149 | 0.0151 | 1.0000 |