Logit Regression Results

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Dep. Variable: has\_disease No. Observations: 568725

Model: Logit Df Residuals: 568357

Method: MLE Df Model: 367

Date: Wed, 06 Apr 2022 Pseudo R-squ.: 0.01935

Time: 16:49:39 Log-Likelihood: -1.4548e+05

converged: True LL-Null: -1.4835e+05

LLR p-value: 0.000

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coef std err z P |z| [0.025 0.975]

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const -2.6621 0.063 -41.967 0.000 -2.786 -2.538

MIN -0.3847 0.011 -35.199 0.000 -0.406 -0.363

Age\_BMI 0.1908 0.005 39.948 0.000 0.181 0.200

Birth\_year -0.0892 0.005 -16.450 0.000 -0.100 -0.079

dapar\_3gr 0.0593 0.005 11.199 0.000 0.049 0.070

Educ\_GE11YN 0.0281 0.005 5.362 0.000 0.018 0.038

Eshkol\_3gr 0.1090 0.005 20.937 0.000 0.099 0.119

Israeli 0.3937 0.019 21.161 0.000 0.357 0.430

DQB1\*03:01 0.0176 0.027 0.661 0.508 -0.034 0.070

DQB1\*03:01\_inter\_BMI 0.0913 0.056 1.637 0.102 -0.018 0.201

DQB1\*02:01 -0.0459 0.033 -1.393 0.164 -0.110 0.019

DQB1\*02:01\_inter\_BMI 0.0376 0.070 0.534 0.593 -0.100 0.175

C\*04:01 -0.0124 0.030 -0.415 0.678 -0.071 0.046

C\*04:01\_inter\_BMI 0.0885 0.064 1.387 0.165 -0.037 0.213

DRB1\*11:04 0.1339 0.032 4.210 0.000 0.072 0.196

DRB1\*11:04\_inter\_BMI -0.1239 0.065 -1.900 0.057 -0.252 0.004

DRB1\*07:01 0.1627 0.037 4.375 0.000 0.090 0.236

DRB1\*07:01\_inter\_BMI -0.0753 0.078 -0.965 0.334 -0.228 0.078

A\*01:01 0.0126 0.024 0.516 0.606 -0.035 0.061

A\*01:01\_inter\_BMI -0.0088 0.049 -0.181 0.856 -0.104 0.087

C\*12:03 -0.0134 0.034 -0.395 0.693 -0.080 0.053

C\*12:03\_inter\_BMI 0.0486 0.071 0.681 0.496 -0.091 0.189

DQB1\*03:02 0.0146 0.035 0.422 0.673 -0.053 0.082

DQB1\*03:02\_inter\_BMI -0.0623 0.073 -0.848 0.397 -0.206 0.082

A\*02:01 -0.0178 0.025 -0.719 0.472 -0.066 0.031

A\*02:01\_inter\_BMI -0.0205 0.050 -0.413 0.679 -0.118 0.077

C\*07:01 0.0148 0.030 0.488 0.625 -0.045 0.074

C\*07:01\_inter\_BMI 0.0802 0.065 1.242 0.214 -0.046 0.207

C\*06:02 0.0308 0.035 0.888 0.374 -0.037 0.099

C\*06:02\_inter\_BMI 0.0719 0.073 0.980 0.327 -0.072 0.216

DQB1\*05:01 -0.0144 0.049 -0.294 0.769 -0.111 0.082

DQB1\*05:01\_inter\_BMI 0.0973 0.103 0.946 0.344 -0.104 0.299

A\*24:02 0.0213 0.025 0.855 0.393 -0.028 0.070

A\*24:02\_inter\_BMI -0.0205 0.050 -0.411 0.681 -0.118 0.077

B\*38:01 0.0817 0.041 2.004 0.045 0.002 0.162

B\*38:01\_inter\_BMI 0.0599 0.084 0.712 0.477 -0.105 0.225

A\*26:01 -0.0229 0.028 -0.824 0.410 -0.077 0.032

A\*26:01\_inter\_BMI 0.0349 0.056 0.620 0.535 -0.076 0.145

DRB1\*04:02 0.1415 0.041 3.428 0.001 0.061 0.222

DRB1\*04:02\_inter\_BMI 0.0148 0.086 0.172 0.863 -0.154 0.183

DRB1\*03:01 0.2391 0.039 6.207 0.000 0.164 0.315

DRB1\*03:01\_inter\_BMI -0.0383 0.081 -0.475 0.635 -0.197 0.120

C\*08:02 0.0647 0.128 0.505 0.614 -0.187 0.316

C\*08:02\_inter\_BMI 0.2214 0.270 0.820 0.412 -0.308 0.750

B\*14:02 -0.0149 0.129 -0.115 0.908 -0.268 0.238

B\*14:02\_inter\_BMI -0.0295 0.271 -0.109 0.913 -0.560 0.501

DRB1\*13:02 -0.1402 0.064 -2.183 0.029 -0.266 -0.014

DRB1\*13:02\_inter\_BMI 0.2930 0.130 2.257 0.024 0.039 0.547

DRB1\*01:02 0.0281 0.055 0.516 0.606 -0.079 0.135

DRB1\*01:02\_inter\_BMI -0.0827 0.115 -0.722 0.470 -0.307 0.142

B\*18:01 -0.0715 0.037 -1.942 0.052 -0.144 0.001

B\*18:01\_inter\_BMI 0.0616 0.076 0.816 0.415 -0.086 0.210

C\*12:02 -0.0202 0.058 -0.350 0.726 -0.133 0.093

C\*12:02\_inter\_BMI 0.1711 0.122 1.402 0.161 -0.068 0.410

A\*03:02 0.0052 0.028 0.189 0.850 -0.049 0.059

A\*03:02\_inter\_BMI 0.0237 0.056 0.426 0.670 -0.085 0.133

A\*11:01 0.0309 0.028 1.114 0.265 -0.023 0.085

A\*11:01\_inter\_BMI 0.0381 0.056 0.682 0.495 -0.071 0.148

B\*35:08 -0.0775 0.038 -2.055 0.040 -0.151 -0.004

B\*35:08\_inter\_BMI 0.0158 0.078 0.202 0.840 -0.137 0.169

B\*52:01 0.0140 0.064 0.220 0.826 -0.111 0.139

B\*52:01\_inter\_BMI -0.1283 0.134 -0.959 0.338 -0.391 0.134

DRB1\*11:01 0.2121 0.033 6.427 0.000 0.147 0.277

DRB1\*11:01\_inter\_BMI -0.1006 0.068 -1.482 0.138 -0.234 0.032

A\*03:01 0.0396 0.028 1.414 0.157 -0.015 0.095

A\*03:01\_inter\_BMI -0.0009 0.056 -0.016 0.988 -0.111 0.110

B\*44:03 0.1393 0.037 3.816 0.000 0.068 0.211

B\*44:03\_inter\_BMI -0.0183 0.076 -0.242 0.809 -0.167 0.130

C\*17:01 0.0555 0.057 0.972 0.331 -0.056 0.167

C\*17:01\_inter\_BMI 0.1008 0.124 0.810 0.418 -0.143 0.344

B\*35:02 -0.0070 0.039 -0.177 0.860 -0.084 0.070

B\*35:02\_inter\_BMI 0.1031 0.081 1.274 0.203 -0.056 0.262

DQB1\*06:03 -0.0129 0.044 -0.291 0.771 -0.100 0.074

DQB1\*06:03\_inter\_BMI 0.1175 0.092 1.272 0.203 -0.064 0.299

B\*13:02 0.0679 0.043 1.589 0.112 -0.016 0.152

B\*13:02\_inter\_BMI 0.0247 0.087 0.283 0.777 -0.147 0.196

C\*07:02 -0.0555 0.039 -1.429 0.153 -0.132 0.021

C\*07:02\_inter\_BMI 0.1221 0.080 1.519 0.129 -0.035 0.280

B\*35:01 -0.0194 0.039 -0.502 0.616 -0.095 0.056

B\*35:01\_inter\_BMI -0.0048 0.079 -0.060 0.952 -0.160 0.151

DQB1\*06:01 -0.0325 0.074 -0.438 0.661 -0.178 0.113

DQB1\*06:01\_inter\_BMI 0.0248 0.157 0.158 0.874 -0.282 0.332

DQB1\*06:04 0.1747 0.065 2.684 0.007 0.047 0.302

DQB1\*06:04\_inter\_BMI -0.3101 0.133 -2.339 0.019 -0.570 -0.050

DRB1\*15:02 -0.0470 0.078 -0.605 0.545 -0.199 0.105

DRB1\*15:02\_inter\_BMI 0.0885 0.163 0.542 0.588 -0.231 0.408

DQB1\*05:03 0.0183 0.070 0.261 0.794 -0.119 0.156

DQB1\*05:03\_inter\_BMI 0.2452 0.145 1.695 0.090 -0.038 0.529

B\*08:01 0.0566 0.042 1.352 0.176 -0.025 0.139

B\*08:01\_inter\_BMI 0.0184 0.086 0.213 0.831 -0.151 0.188

DRB1\*04:03 -0.0127 0.042 -0.301 0.763 -0.095 0.070

DRB1\*04:03\_inter\_BMI -0.0434 0.089 -0.489 0.625 -0.218 0.131

A\*32:01 0.0585 0.030 1.961 0.050 2.59e-05 0.117

A\*32:01\_inter\_BMI -0.0101 0.061 -0.165 0.869 -0.129 0.109

DRB1\*14:01 -0.0365 0.072 -0.509 0.611 -0.177 0.104

DRB1\*14:01\_inter\_BMI -0.2962 0.148 -2.001 0.045 -0.586 -0.006

B\*51:01 -0.0507 0.045 -1.129 0.259 -0.139 0.037

B\*51:01\_inter\_BMI 0.0838 0.093 0.902 0.367 -0.098 0.266

B\*41:01 0.0223 0.058 0.385 0.700 -0.091 0.136

B\*41:01\_inter\_BMI -0.0359 0.124 -0.289 0.773 -0.279 0.208

DRB1\*15:01 0.0615 0.066 0.927 0.354 -0.068 0.191

DRB1\*15:01\_inter\_BMI -0.2894 0.148 -1.959 0.050 -0.579 0.000

A\*23:01 0.0138 0.031 0.441 0.659 -0.048 0.075

A\*23:01\_inter\_BMI 0.0644 0.064 1.002 0.316 -0.062 0.191

DRB1\*13:01 0.0052 0.053 0.098 0.922 -0.098 0.109

DRB1\*13:01\_inter\_BMI -0.1195 0.110 -1.087 0.277 -0.335 0.096

C\*02:02 -0.0357 0.044 -0.810 0.418 -0.122 0.051

C\*02:02\_inter\_BMI 0.1269 0.092 1.382 0.167 -0.053 0.307

B\*49:01 0.0579 0.040 1.437 0.151 -0.021 0.137

B\*49:01\_inter\_BMI -0.0347 0.084 -0.414 0.679 -0.199 0.130

DQB1\*06:02 0.0169 0.067 0.252 0.801 -0.115 0.148

DQB1\*06:02\_inter\_BMI 0.2343 0.150 1.558 0.119 -0.060 0.529

B\*44:02 0.0659 0.046 1.435 0.151 -0.024 0.156

B\*44:02\_inter\_BMI -0.0207 0.095 -0.217 0.828 -0.208 0.166

DRB1\*10:01 0.1900 0.054 3.499 0.000 0.084 0.296

DRB1\*10:01\_inter\_BMI -0.1719 0.114 -1.509 0.131 -0.395 0.051

A\*30:01 0.0392 0.032 1.207 0.227 -0.024 0.103

A\*30:01\_inter\_BMI 0.1114 0.066 1.696 0.090 -0.017 0.240

B\*50:01 -0.0698 0.046 -1.525 0.127 -0.160 0.020

B\*50:01\_inter\_BMI 0.1311 0.094 1.402 0.161 -0.052 0.314

A\*33:01 0.0024 0.034 0.070 0.945 -0.065 0.069

A\*33:01\_inter\_BMI -0.0343 0.070 -0.489 0.625 -0.172 0.103

A\*29:01 0.0564 0.034 1.639 0.101 -0.011 0.124

A\*29:01\_inter\_BMI -0.0099 0.072 -0.138 0.890 -0.150 0.130

B\*07:02 -0.0211 0.047 -0.445 0.657 -0.114 0.072

B\*07:02\_inter\_BMI 0.1079 0.097 1.110 0.267 -0.083 0.298

A\*68:02 -0.0497 0.034 -1.467 0.142 -0.116 0.017

A\*68:02\_inter\_BMI -0.0622 0.071 -0.876 0.381 -0.201 0.077

A\*02:05 -0.0169 0.036 -0.475 0.635 -0.087 0.053

A\*02:05\_inter\_BMI -0.0742 0.074 -0.997 0.319 -0.220 0.072

B\*57:01 -0.0322 0.047 -0.688 0.492 -0.124 0.060

B\*57:01\_inter\_BMI 0.1827 0.096 1.896 0.058 -0.006 0.372

A\*02:02 -0.0875 0.035 -2.490 0.013 -0.156 -0.019

A\*02:02\_inter\_BMI 0.0348 0.072 0.480 0.631 -0.107 0.177

DQB1\*05:02 -0.0031 0.076 -0.041 0.967 -0.153 0.147

DQB1\*05:02\_inter\_BMI 0.0426 0.156 0.273 0.785 -0.263 0.348

C\*15:02 0.1030 0.046 2.230 0.026 0.012 0.194

C\*15:02\_inter\_BMI 0.0194 0.097 0.199 0.842 -0.171 0.210

DRB1\*13:03 0.0562 0.040 1.392 0.164 -0.023 0.135

DRB1\*13:03\_inter\_BMI -0.0986 0.084 -1.174 0.240 -0.263 0.066

C\*05:01 0.1263 0.043 2.947 0.003 0.042 0.210

C\*05:01\_inter\_BMI 0.0142 0.091 0.157 0.875 -0.163 0.192

C\*15:05 -0.0166 0.088 -0.190 0.850 -0.188 0.155

C\*15:05\_inter\_BMI 0.2371 0.184 1.288 0.198 -0.124 0.598

A\*30:02 -0.0608 0.037 -1.626 0.104 -0.134 0.013

A\*30:02\_inter\_BMI 0.1250 0.076 1.652 0.099 -0.023 0.273

C\*01:02 -0.0614 0.055 -1.124 0.261 -0.168 0.046

C\*01:02\_inter\_BMI 0.3595 0.110 3.262 0.001 0.144 0.575

B\*07:05 0.0056 0.088 0.064 0.949 -0.167 0.178

B\*07:05\_inter\_BMI 0.0250 0.184 0.136 0.892 -0.336 0.386

B\*55:01 0.0585 0.059 0.999 0.318 -0.056 0.173

B\*55:01\_inter\_BMI -0.1357 0.119 -1.143 0.253 -0.368 0.097

DQB1\*04:02 0.0480 0.062 0.773 0.440 -0.074 0.170

DQB1\*04:02\_inter\_BMI -0.0561 0.131 -0.427 0.670 -0.314 0.201

B\*15:17 0.0524 0.046 1.152 0.249 -0.037 0.142

B\*15:17\_inter\_BMI -0.0628 0.095 -0.659 0.510 -0.249 0.124

B\*58:01 0.1739 0.049 3.531 0.000 0.077 0.270

B\*58:01\_inter\_BMI -0.0885 0.107 -0.827 0.408 -0.298 0.121

C\*16:04 -0.0325 0.044 -0.736 0.462 -0.119 0.054

C\*16:04\_inter\_BMI 0.1345 0.093 1.441 0.150 -0.048 0.317

DRB1\*12:01 0.1057 0.041 2.554 0.011 0.025 0.187

DRB1\*12:01\_inter\_BMI -0.0753 0.087 -0.863 0.388 -0.246 0.096

DRB1\*16:01 0.0116 0.081 0.144 0.886 -0.147 0.170

DRB1\*16:01\_inter\_BMI -0.0107 0.163 -0.065 0.948 -0.331 0.310

DRB1\*13:05 -9.677e-05 0.046 -0.002 0.998 -0.089 0.089

DRB1\*13:05\_inter\_BMI -0.0880 0.094 -0.941 0.347 -0.271 0.095

A\*68:01 -0.1150 0.040 -2.903 0.004 -0.193 -0.037

A\*68:01\_inter\_BMI 0.0486 0.082 0.592 0.554 -0.112 0.210

B\*41:02 -0.0073 0.068 -0.107 0.914 -0.140 0.125

B\*41:02\_inter\_BMI 0.0603 0.144 0.418 0.676 -0.222 0.343

B\*53:01 -0.0390 0.046 -0.849 0.396 -0.129 0.051

B\*53:01\_inter\_BMI 0.0525 0.096 0.548 0.583 -0.135 0.240

DQB1\*02:02 -0.2082 0.047 -4.435 0.000 -0.300 -0.116

DQB1\*02:02\_inter\_BMI 0.1263 0.097 1.303 0.193 -0.064 0.316

C\*03:04 -0.1457 0.061 -2.379 0.017 -0.266 -0.026

C\*03:04\_inter\_BMI 0.1134 0.128 0.888 0.375 -0.137 0.364

DQB1\*06:09 0.0993 0.069 1.430 0.153 -0.037 0.235

DQB1\*06:09\_inter\_BMI -0.2415 0.144 -1.680 0.093 -0.523 0.040

DRB1\*04:04 0.1165 0.053 2.209 0.027 0.013 0.220

DRB1\*04:04\_inter\_BMI 0.0192 0.112 0.171 0.864 -0.200 0.239

DRB1\*04:05 0.1617 0.047 3.456 0.001 0.070 0.253

DRB1\*04:05\_inter\_BMI -0.0114 0.098 -0.117 0.907 -0.203 0.180

A\*25:01 0.1400 0.042 3.331 0.001 0.058 0.222

A\*25:01\_inter\_BMI -0.0263 0.089 -0.297 0.767 -0.200 0.148

C\*03:03 -0.0795 0.054 -1.462 0.144 -0.186 0.027

C\*03:03\_inter\_BMI 0.2482 0.111 2.242 0.025 0.031 0.465

DRB1\*01:01 0.0524 0.062 0.847 0.397 -0.069 0.174

DRB1\*01:01\_inter\_BMI -0.0616 0.129 -0.476 0.634 -0.315 0.192

DQB1\*03:03 -0.0121 0.051 -0.237 0.813 -0.112 0.088

DQB1\*03:03\_inter\_BMI -0.0428 0.109 -0.392 0.695 -0.257 0.172

B\*35:03 -0.0435 0.050 -0.867 0.386 -0.142 0.055

B\*35:03\_inter\_BMI 0.0727 0.103 0.704 0.482 -0.130 0.275

A\*66:01 0.0065 0.044 0.148 0.882 -0.080 0.093

A\*66:01\_inter\_BMI -0.1044 0.096 -1.093 0.275 -0.292 0.083

DQB1\*03:05 0.0234 0.050 0.472 0.637 -0.074 0.121

DQB1\*03:05\_inter\_BMI -0.1648 0.110 -1.495 0.135 -0.381 0.051

A\*69:01 0.0225 0.048 0.471 0.638 -0.071 0.116

A\*69:01\_inter\_BMI -0.0094 0.099 -0.096 0.924 -0.203 0.184

B\*40:01 0.0891 0.067 1.323 0.186 -0.043 0.221

B\*40:01\_inter\_BMI 0.0409 0.140 0.292 0.770 -0.234 0.316

C\*16:01 0.0122 0.049 0.249 0.803 -0.084 0.109

C\*16:01\_inter\_BMI 0.1355 0.104 1.309 0.191 -0.067 0.338

C\*16:02 0.0044 0.066 0.067 0.947 -0.125 0.134

C\*16:02\_inter\_BMI 0.0102 0.143 0.071 0.943 -0.269 0.290

A\*31:01 0.1218 0.045 2.717 0.007 0.034 0.210

A\*31:01\_inter\_BMI -0.1631 0.097 -1.675 0.094 -0.354 0.028

A\*29:02 -0.0277 0.047 -0.585 0.559 -0.120 0.065

A\*29:02\_inter\_BMI 0.0305 0.098 0.311 0.756 -0.162 0.223

C\*14:02 0.0497 0.059 0.839 0.402 -0.066 0.166

C\*14:02\_inter\_BMI 0.0133 0.126 0.105 0.916 -0.234 0.260

B\*15:01 0.0716 0.056 1.285 0.199 -0.038 0.181

B\*15:01\_inter\_BMI 0.0186 0.115 0.162 0.871 -0.206 0.244

B\*51:08 -0.1202 0.073 -1.648 0.099 -0.263 0.023

B\*51:08\_inter\_BMI -0.1535 0.159 -0.963 0.336 -0.466 0.159

C\*03:02 0.0179 0.060 0.298 0.766 -0.100 0.136

C\*03:02\_inter\_BMI -0.0092 0.135 -0.068 0.946 -0.274 0.256

B\*27:02 0.2145 0.063 3.416 0.001 0.091 0.338

B\*27:02\_inter\_BMI -0.0504 0.131 -0.384 0.701 -0.308 0.207

A\*24:03 0.0394 0.050 0.782 0.434 -0.059 0.138

A\*24:03\_inter\_BMI -0.0768 0.109 -0.707 0.479 -0.290 0.136

DRB1\*04:01 0.1466 0.054 2.732 0.006 0.041 0.252

DRB1\*04:01\_inter\_BMI -0.1027 0.116 -0.883 0.377 -0.331 0.125

C\*07:04 -0.0279 0.062 -0.453 0.651 -0.149 0.093

C\*07:04\_inter\_BMI 0.0273 0.133 0.205 0.838 -0.234 0.289

B\*37:01 -0.1428 0.061 -2.352 0.019 -0.262 -0.024

B\*37:01\_inter\_BMI 0.0503 0.127 0.395 0.693 -0.199 0.300

DRB1\*08:01 0.0130 0.083 0.157 0.875 -0.150 0.176

DRB1\*08:01\_inter\_BMI 0.0669 0.176 0.380 0.704 -0.278 0.412

A\*02:17 0.0466 0.055 0.844 0.399 -0.062 0.155

A\*02:17\_inter\_BMI 0.0096 0.115 0.083 0.934 -0.217 0.236

B\*15:03 -0.0109 0.066 -0.166 0.868 -0.140 0.118

B\*15:03\_inter\_BMI 0.1021 0.139 0.737 0.461 -0.169 0.374

A\*01:03 -0.1138 0.060 -1.893 0.058 -0.232 0.004

A\*01:03\_inter\_BMI 0.2816 0.124 2.274 0.023 0.039 0.524

B\*27:05 0.0261 0.071 0.369 0.712 -0.113 0.165

B\*27:05\_inter\_BMI 0.0138 0.145 0.095 0.924 -0.270 0.298

B\*40:02 -0.0858 0.070 -1.220 0.222 -0.224 0.052

B\*40:02\_inter\_BMI 0.1133 0.144 0.788 0.430 -0.168 0.395

A\*33:03 0.1216 0.059 2.065 0.039 0.006 0.237

A\*33:03\_inter\_BMI -0.0517 0.131 -0.395 0.693 -0.308 0.205

A\*30:04 0.0191 0.065 0.294 0.768 -0.108 0.146

A\*30:04\_inter\_BMI -0.0104 0.139 -0.075 0.940 -0.282 0.262

DRB1\*14:04 -0.0457 0.087 -0.524 0.600 -0.217 0.125

DRB1\*14:04\_inter\_BMI -0.2996 0.181 -1.655 0.098 -0.654 0.055

DRB1\*04:06 -0.1174 0.103 -1.136 0.256 -0.320 0.085

DRB1\*04:06\_inter\_BMI -0.0377 0.218 -0.173 0.863 -0.465 0.390

B\*39:01 0.0970 0.068 1.426 0.154 -0.036 0.230

B\*39:01\_inter\_BMI -0.1011 0.152 -0.664 0.506 -0.399 0.197

DQB1\*03:04 0.0721 0.087 0.832 0.406 -0.098 0.242

DQB1\*03:04\_inter\_BMI 0.1534 0.182 0.843 0.399 -0.203 0.510

DRB1\*08:04 -0.1615 0.079 -2.048 0.041 -0.316 -0.007

DRB1\*08:04\_inter\_BMI 0.2455 0.163 1.502 0.133 -0.075 0.566

A\*31:08 -0.0104 0.068 -0.153 0.878 -0.144 0.123

A\*31:08\_inter\_BMI 0.2073 0.134 1.546 0.122 -0.056 0.470

DRB1\*11:03 0.1291 0.072 1.787 0.074 -0.013 0.271

DRB1\*11:03\_inter\_BMI 0.0394 0.149 0.265 0.791 -0.253 0.331

A\*24:07 0.1317 0.067 1.970 0.049 0.001 0.263

A\*24:07\_inter\_BMI -0.0083 0.147 -0.057 0.955 -0.297 0.280

DRB1\*09:01 0.1725 0.082 2.109 0.035 0.012 0.333

DRB1\*09:01\_inter\_BMI 0.0100 0.173 0.058 0.954 -0.329 0.349

B\*50:02 0.0410 0.098 0.419 0.675 -0.151 0.233

B\*50:02\_inter\_BMI 0.0943 0.196 0.480 0.631 -0.291 0.479

A\*24:17 0.1056 0.068 1.553 0.120 -0.028 0.239

A\*24:17\_inter\_BMI 0.0168 0.161 0.105 0.917 -0.298 0.332

B\*45:01 0.0616 0.079 0.783 0.434 -0.093 0.216

B\*45:01\_inter\_BMI -0.0617 0.168 -0.367 0.714 -0.391 0.268

B\*56:01 -0.0814 0.095 -0.853 0.394 -0.268 0.106

B\*56:01\_inter\_BMI -0.2324 0.202 -1.150 0.250 -0.629 0.164

C\*15:04 0.0154 0.082 0.188 0.851 -0.145 0.176

C\*15:04\_inter\_BMI -0.0315 0.180 -0.174 0.862 -0.385 0.322

DRB1\*15:03 -0.3161 0.123 -2.578 0.010 -0.556 -0.076

DRB1\*15:03\_inter\_BMI -0.4317 0.328 -1.315 0.188 -1.075 0.212

B\*44:05 0.1574 0.088 1.793 0.073 -0.015 0.329

B\*44:05\_inter\_BMI -0.4042 0.194 -2.082 0.037 -0.785 -0.024

B\*51:06 0.1607 0.081 1.974 0.048 0.001 0.320

B\*51:06\_inter\_BMI 0.2134 0.175 1.219 0.223 -0.130 0.557

DRB1\*16:02 0.0136 0.112 0.122 0.903 -0.206 0.233

DRB1\*16:02\_inter\_BMI 0.0452 0.223 0.203 0.839 -0.391 0.481

DRB1\*01:03 0.0516 0.088 0.583 0.560 -0.122 0.225

DRB1\*01:03\_inter\_BMI -0.0849 0.183 -0.465 0.642 -0.443 0.273

C\*04:07 0.1076 0.084 1.277 0.202 -0.058 0.273

C\*04:07\_inter\_BMI -0.2977 0.218 -1.367 0.171 -0.724 0.129

A\*24:04 0.0555 0.084 0.664 0.507 -0.108 0.220

A\*24:04\_inter\_BMI -0.3494 0.211 -1.659 0.097 -0.762 0.063

B\*73:01 -0.2648 0.130 -2.030 0.042 -0.521 -0.009

B\*73:01\_inter\_BMI 0.0151 0.267 0.057 0.955 -0.508 0.538

DRB1\*04:08 -0.0036 0.114 -0.032 0.975 -0.226 0.219

DRB1\*04:08\_inter\_BMI 0.1051 0.236 0.446 0.656 -0.357 0.567

B\*39:06 -0.1685 0.107 -1.570 0.116 -0.379 0.042

B\*39:06\_inter\_BMI -0.1287 0.231 -0.557 0.577 -0.581 0.324

B\*48:01 -0.4675 0.313 -1.496 0.135 -1.080 0.145

B\*48:01\_inter\_BMI 0.5809 0.616 0.944 0.345 -0.626 1.788

B\*27:07 0.1863 0.090 2.071 0.038 0.010 0.363

B\*27:07\_inter\_BMI -0.3524 0.214 -1.643 0.100 -0.773 0.068

B\*40:06 0.0424 0.099 0.426 0.670 -0.153 0.237

B\*40:06\_inter\_BMI -0.2753 0.225 -1.221 0.222 -0.717 0.167

B\*57:03 -0.0615 0.100 -0.615 0.538 -0.258 0.135

B\*57:03\_inter\_BMI 0.0889 0.215 0.414 0.679 -0.332 0.510

C\*14:03 -0.1255 0.098 -1.280 0.200 -0.318 0.067

C\*14:03\_inter\_BMI 0.2001 0.194 1.032 0.302 -0.180 0.580

B\*14:01 -0.1213 0.155 -0.781 0.435 -0.426 0.183

B\*14:01\_inter\_BMI -0.2070 0.335 -0.618 0.537 -0.864 0.450

C\*08:03 0.5640 0.332 1.697 0.090 -0.087 1.215

C\*08:03\_inter\_BMI -0.8894 0.671 -1.326 0.185 -2.204 0.426

B\*57:02 0.1242 0.226 0.551 0.582 -0.318 0.567

B\*57:02\_inter\_BMI -0.3870 0.531 -0.729 0.466 -1.427 0.653

C\*18:01 -0.2763 0.225 -1.226 0.220 -0.718 0.165

C\*18:01\_inter\_BMI 0.4071 0.470 0.865 0.387 -0.515 1.329

DRB1\*04:07 0.3194 0.101 3.173 0.002 0.122 0.517

DRB1\*04:07\_inter\_BMI -0.3464 0.219 -1.583 0.113 -0.775 0.083

B\*47:01 -0.0595 0.108 -0.549 0.583 -0.272 0.153

B\*47:01\_inter\_BMI 0.4214 0.219 1.924 0.054 -0.008 0.851

DRB1\*12:02 -0.0688 0.135 -0.509 0.611 -0.333 0.196

DRB1\*12:02\_inter\_BMI -0.1341 0.290 -0.463 0.643 -0.702 0.433

A\*02:06 -0.1686 0.140 -1.205 0.228 -0.443 0.106

A\*02:06\_inter\_BMI 0.4822 0.296 1.631 0.103 -0.097 1.062

DRB1\*08:03 -0.0114 0.114 -0.100 0.920 -0.234 0.211

DRB1\*08:03\_inter\_BMI -0.3582 0.263 -1.361 0.174 -0.874 0.158

B\*51:07 0.0715 0.120 0.594 0.552 -0.164 0.307

B\*51:07\_inter\_BMI 0.0473 0.251 0.188 0.851 -0.445 0.540

A\*74:01 0.0136 0.118 0.115 0.908 -0.218 0.245

A\*74:01\_inter\_BMI 0.0517 0.261 0.198 0.843 -0.459 0.562

DRB1\*11:02 -0.0677 0.126 -0.538 0.590 -0.314 0.179

DRB1\*11:02\_inter\_BMI 0.1656 0.248 0.667 0.505 -0.321 0.652

A\*34:02 -0.1421 0.133 -1.067 0.286 -0.403 0.119

A\*34:02\_inter\_BMI -0.1922 0.284 -0.676 0.499 -0.749 0.365

C\*08:01 0.1836 0.182 1.010 0.312 -0.173 0.540

C\*08:01\_inter\_BMI -0.1783 0.415 -0.429 0.668 -0.993 0.636

C\*02:10 0.1893 0.127 1.486 0.137 -0.060 0.439

C\*02:10\_inter\_BMI 0.4012 0.241 1.668 0.095 -0.070 0.873

DRB1\*14:06 0.1570 0.137 1.150 0.250 -0.111 0.425

DRB1\*14:06\_inter\_BMI 0.0693 0.269 0.257 0.797 -0.459 0.597

B\*42:01 0.2509 0.134 1.873 0.061 -0.012 0.513

B\*42:01\_inter\_BMI -0.0869 0.297 -0.292 0.770 -0.669 0.496

B\*13:01 0.0439 0.176 0.250 0.802 -0.300 0.388

B\*13:01\_inter\_BMI -0.0884 0.411 -0.215 0.830 -0.894 0.717

DQB1\*04:01 -0.1288 0.145 -0.891 0.373 -0.412 0.154

DQB1\*04:01\_inter\_BMI 0.1383 0.292 0.474 0.636 -0.434 0.711

B\*15:16 -0.1022 0.159 -0.642 0.521 -0.414 0.210

B\*15:16\_inter\_BMI -0.1721 0.356 -0.484 0.628 -0.869 0.525

B\*15:10 -0.1439 0.174 -0.826 0.409 -0.485 0.197

B\*15:10\_inter\_BMI 0.1545 0.344 0.449 0.653 -0.520 0.829

B\*39:10 -0.0780 0.166 -0.469 0.639 -0.404 0.248

B\*39:10\_inter\_BMI 0.2857 0.338 0.844 0.399 -0.378 0.949

A\*02:03 -0.7120 0.235 -3.036 0.002 -1.172 -0.252

A\*02:03\_inter\_BMI 0.6964 0.391 1.780 0.075 -0.070 1.463

A\*80:01 0.0122 0.159 0.077 0.939 -0.300 0.325

A\*80:01\_inter\_BMI 0.0977 0.338 0.289 0.772 -0.564 0.760

C\*04:03 0.0452 0.215 0.211 0.833 -0.375 0.466

C\*04:03\_inter\_BMI 0.7362 0.445 1.654 0.098 -0.136 1.609

B\*37:02 0.2435 0.152 1.598 0.110 -0.055 0.542

B\*37:02\_inter\_BMI -0.0020 0.327 -0.006 0.995 -0.643 0.639

B\*15:18 0.2666 0.171 1.563 0.118 -0.068 0.601

B\*15:18\_inter\_BMI 0.4326 0.336 1.289 0.197 -0.225 1.090

B\*38:02 0.5717 0.204 2.798 0.005 0.171 0.972

B\*38:02\_inter\_BMI -0.2780 0.396 -0.702 0.483 -1.054 0.498

B\*15:24 0.0480 0.205 0.234 0.815 -0.353 0.449

B\*15:24\_inter\_BMI 0.3552 0.354 1.003 0.316 -0.339 1.050

B\*27:12 -0.1705 0.213 -0.801 0.423 -0.587 0.246

B\*27:12\_inter\_BMI -0.8471 0.559 -1.515 0.130 -1.943 0.249

A\*74:03 -0.2540 0.209 -1.218 0.223 -0.663 0.155

A\*74:03\_inter\_BMI 0.6204 0.438 1.418 0.156 -0.237 1.478

DRB1\*08:02 0.1444 0.199 0.726 0.468 -0.246 0.534

DRB1\*08:02\_inter\_BMI 0.5090 0.352 1.444 0.149 -0.182 1.200

B\*15:29 0.1983 0.189 1.048 0.295 -0.172 0.569

B\*15:29\_inter\_BMI -0.1378 0.407 -0.339 0.735 -0.935 0.659

B\*48:04 -0.0341 0.268 -0.127 0.899 -0.560 0.492

B\*48:04\_inter\_BMI -0.0257 0.697 -0.037 0.971 -1.392 1.341

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