

Genomic map of the *HLA-DQA1* gene region on chromosome 6p21.3, showing the *DQA1* gene structure and its association with various HLA-DQA1 alleles. The map displays the gene structure with exons and introns, and the associated HLA-DQA1 alleles, including *DQA1*01:01*, *DQA1*02:01*, *DQA1*03:01*, *DQA1*04:01*, *DQA1*05:01*, *DQA1*06:01*, *DQA1*07:01*, *DQA1*08:01*, *DQA1*09:01*, *DQA1*10:01*, *DQA1*11:01*, *DQA1*12:01*, *DQA1*13:01*, *DQA1*14:01*, *DQA1*15:01*, *DQA1*16:01*, *DQA1*17:01*, *DQA1*18:01*, *DQA1*19:01*, *DQA1*20:01*, *DQA1*21:01*, *DQA1*22:01*, *DQA1*23:01*, *DQA1*24:01*, *DQA1*25:01*, *DQA1*26:01*, *DQA1*27:01*, *DQA1*28:01*, *DQA1*29:01*, *DQA1*30:01*, *DQA1*31:01*, *DQA1*32:01*, *DQA1*33:01*, *DQA1*34:01*, *DQA1*35:01*, *DQA1*36:01*, *DQA1*37:01*, *DQA1*38:01*, *DQA1*39:01*, *DQA1*40:01*, *DQA1*41:01*, *DQA1*42:01*, *DQA1*43:01*, *DQA1*44:01*, *DQA1*45:01*, *DQA1*46:01*, *DQA1*47:01*, *DQA1*48:01*, *DQA1*49:01*, *DQA1*50:01*, *DQA1*51:01*, *DQA1*52:01*, *DQA1*53:01*, *DQA1*54:01*, *DQA1*55:01*, *DQA1*56:01*, *DQA1*57:01*, *DQA1*58:01*, *DQA1*59:01*, *DQA1*60:01*, *DQA1*61:01*, *DQA1*62:01*, *DQA1*63:01*, *DQA1*64:01*, *DQA1*65:01*, *DQA1*66:01*, *DQA1*67:01*, *DQA1*68:01*, *DQA1*69:01*, *DQA1*70:01*, *DQA1*71:01*, *DQA1*72:01*, *DQA1*73:01*, *DQA1*74:01*, *DQA1*75:01*, *DQA1*76:01*, *DQA1*77:01*, *DQA1*78:01*, *DQA1*79:01*, *DQA1*80:01*, *DQA1*81:01*, *DQA1*82:01*, *DQA1*83:01*, *DQA1*84:01*, *DQA1*85:01*, *DQA1*86:01*, *DQA1*87:01*, *DQA1*88:01*, *DQA1*89:01*, *DQA1*90:01*, *DQA1*91:01*, *DQA1*92:01*, *DQA1*93:01*, *DQA1*94:01*, *DQA1*95:01*, *DQA1*96:01*, *DQA1*97:01*, *DQA1*98:01*, *DQA1*99:01*, *DQA1*100:01*, *DQA1*101:01*, *DQA1*102:01*, *DQA1*103:01*, *DQA1*104:01*, *DQA1*105:01*, *DQA1*106:01*, *DQA1*107:01*, *DQA1*108:01*, *DQA1*109:01*, *DQA1*110:01*, *DQA1*111:01*, *DQA1*112:01*, *DQA1*113:01*, *DQA1*114:01*, *DQA1*115:01*, *DQA1*116:01*, *DQA1*117:01*, *DQA1*118:01*, *DQA1*119:01*, *DQA1*120:01*, *DQA1*121:01*, *DQA1*122:01*, *DQA1*123:01*, *DQA1*124:01*, *DQA1*125:01*, *DQA1*126:01*, *DQA1*127:01*, *DQA1*128:01*, *DQA1*129:01*, *DQA1*130:01*, *DQA1*131:01*, *DQA1*132:01*, *DQA1*133:01*, *DQA1*134:01*, *DQA1*135:01*, *DQA1*136:01*, *DQA1*137:01*, *DQA1*138:01*, *DQA1*139:01*, *DQA1*140:01*, *DQA1*141:01*, *DQA1*142:01*, *DQA1*143:01*, *DQA1*144:01*, *DQA1*145:01*, *DQA1*146:01*, *DQA1*147:01*, *DQA1*148:01*, *DQA1*149:01*, *DQA1*150:01*, *DQA1*151:01*, *DQA1*152:01*, *DQA1*153:01*, *DQA1*154:01*, *DQA1*155:01*, *DQA1*156:01*, *DQA1*157:01*, *DQA1*158:01*, *DQA1*159:01*, *DQA1*160:01*, *DQA1*161:01*, *DQA1*162:01*, *DQA1*163:01*, *DQA1*164:01*, *DQA1*165:01*, *DQA1*166:01*, *DQA1*167:01*, *DQA1*168:01*, *DQA1*169:01*, *DQA1*170:01*, *DQA1*171:01*, *DQA1*172:01*, *DQA1*173:01*, *DQA1*174:01*, *DQA1*175:01*, *DQA1*176:01*, *DQA1*177:01*, *DQA1*178:01*, *DQA1*179:01*, *DQA1*180:01*, *DQA1*181:01*, *DQA1*182:01*, *DQA1*183:01*, *DQA1*184:01*, *DQA1*185:01*, *DQA1*186:01*, *DQA1*187:01*, *DQA1*188:01*, *DQA1*189:01*, *DQA1*190:01*, *DQA1*191:01*, *DQA1*192:01*, *DQA1*193:01*, *DQA1*194:01*, *DQA1*195:01*, *DQA1*196:01*, *DQA1*197:01*, *DQA1*198:01*, *DQA1*199:01*, *DQA1*200:01*, *DQA1*201:01*, *DQA1*202:01*, *DQA1*203:01*, *DQA1*204:01*, *DQA1*205:01*, *DQA1*206:01*, *DQA1*207:01*, *DQA1*208:01*, *DQA1*209:01*, *DQA1*210:01*, *DQA1*211:01*, *DQA1*212:01*, *DQA1*213:01*, *DQA1*214:01*, *DQA1*215:01*, *DQA1*216:01*, *DQA1*217:01*, *DQA1*218:01*, *DQA1*219:01*, *DQA1*220:01*, *DQA1*221:01*, *DQA1*222:01*, *DQA1*223:01*, *DQA1*224:01*, *DQA1*225:01*, *DQA1*226:01*, *DQA1*227:01*, *DQA1*228:01*, *DQA1*229:01*, *DQA1*230:01*, *DQA1*231:01*, *DQA1*232:01*, *DQA1*233:01*, *DQA1*234:01*, *DQA1*235:01*, *DQA1*236:01*, *DQA1*237:01*, *DQA1*238:01*, *DQA1*239:01*, *DQA1*240:01*, *DQA1*241:01*, *DQA1*242:01*, *DQA1*243:01*, *DQA1*244:01*, *DQA1*245:01*, *DQA1*246:01*, *DQA1*247:01*, *DQA1*248:01*, *DQA1*249:01*, *DQA1*250:01*, *DQA1*251:01*, *DQA1*252:01*, *DQA1*253:01*, *DQA1*254:01*, *DQA1*255:01*, *DQA1*256:01*, *DQA1*257:01*, *DQA1*258:01*, *DQA1*259:01*, *DQA1*260:01*, *DQA1*261:01*, *DQA1*262:01*, *DQA1*263:01*, *DQA1*264:01*, *DQA1*265:01*, *DQA1*266:01*, *DQA1*267:01*, *DQA1*268:01*, *DQA1*269:01*, *DQA1*270:01*, *DQA1*271:01*, *DQA1*272:01*, *DQA1*273:01*