

Table S1. *Mhc-DQB1* alleles of different primate species used in this study

Allele name	IPD Acc No ¹	Allele name	IPD Acc No ¹
<i>Mamu-DQB1*06:01</i>	MHC00398	<i>Mafa-DQB1*06:09</i>	MHC00285
<i>Mamu-DQB1*06:02:01</i>	MHC00399	<i>Mafa-DQB1*06:10</i>	MHC00286
<i>Mamu-DQB1*06:02:02</i>	MHC03494	<i>Mafa-DQB1*06:11</i>	MHC00287
<i>Mamu-DQB1*06:02:03</i>	MHC04024	<i>Mafa-DQB1*06:12</i>	MHC00288
<i>Mamu-DQB1*06:05</i>	MHC00400	<i>Mafa-DQB1*06:13</i>	MHC00289
<i>Mamu-DQB1*06:06</i>	MHC00401	<i>Mafa-DQB1*06:14</i>	MHC00290
<i>Mamu-DQB1*06:07</i>	MHC00402	<i>Mafa-DQB1*06:15</i>	MHC01188
<i>Mamu-DQB1*06:08</i>	MHC00403	<i>Mafa-DQB1*06:16</i>	MHC03518
<i>Mamu-DQB1*06:09</i>	MHC00404	<i>Mafa-DQB1*06:17:01</i>	MHC03519
<i>Mamu-DQB1*06:10</i>	MHC00405	<i>Mafa-DQB1*06:18</i>	MHC03521
<i>Mamu-DQB1*06:11:01</i>	MHC00406	<i>Mafa-DQB1*06:19</i>	MHC03522
<i>Mamu-DQB1*06:11:02</i>	MHC00407	<i>Mafa-DQB1*06:20</i>	MHC03523
<i>Mamu-DQB1*06:12</i>	MHC00408	<i>Mafa-DQB1*06:21</i>	MHC03524
<i>Mamu-DQB1*06:13:01</i>	MHC00409	<i>Mafa-DQB1*06:22</i>	MHC03525
<i>Mamu-DQB1*06:13:02</i>	MHC02196	<i>Mafa-DQB1*06:23</i>	MHC03526
<i>Mamu-DQB1*06:14</i>	MHC01626	<i>Mafa-DQB1*06:24</i>	MHC03527
<i>Mamu-DQB1*06:15</i>	MHC02192	<i>Mafa-DQB1*06:25</i>	MHC03528
<i>Mamu-DQB1*06:16</i>	MHC02350	<i>Mafa-DQB1*06:26</i>	MHC03529
<i>Mamu-DQB1*06:17</i>	MHC02905	<i>Mafa-DQB1*06:27</i>	MHC03698
<i>Mamu-DQB1*06:18</i>	MHC03495	<i>Mafa-DQB1*06:28</i>	MHC03699
<i>Mamu-DQB1*06:19</i>	MHC03496	<i>Mafa-DQB1*06:29</i>	MHC03700
<i>Mamu-DQB1*06:20</i>	MHC04013	<i>Mafa-DQB1*06:30</i>	MHC03701
<i>Mamu-DQB1*06:21</i>	MHC04014	<i>Mafa-DQB1*06:31</i>	MHC03777
<i>Mamu-DQB1*06:22</i>	MHC04015	<i>Mafa-DQB1*06:32</i>	MHC03779
<i>Mamu-DQB1*15:01</i>	MHC00410	<i>Mafa-DQB1*06:33</i>	MHC03888
<i>Mamu-DQB1*15:02</i>	MHC00411	<i>Mafa-DQB1*06:34</i>	MHC03889
<i>Mamu-DQB1*15:03</i>	MHC00412	<i>Mafa-DQB1*06:35</i>	MHC04715
<i>Mamu-DQB1*15:04</i>	MHC02193	<i>Mafa-DQB1*06:36</i>	MHC05121
<i>Mamu-DQB1*15:05</i>	MHC04025	<i>Mafa-DQB1*15:01</i>	MHC00291
<i>Mamu-DQB1*16:01</i>	MHC00413	<i>Mafa-DQB1*15:02</i>	MHC00292
<i>Mamu-DQB1*16:02</i>	MHC00414	<i>Mafa-DQB1*15:03</i>	MHC00293
<i>Mamu-DQB1*16:03:01</i>	MHC00415	<i>Mafa-DQB1*15:04</i>	MHC03778
<i>Mamu-DQB1*16:03:02</i>	MHC03880	<i>Mafa-DQB1*16:01</i>	MHC00294
<i>Mamu-DQB1*17:02</i>	MHC00416	<i>Mafa-DQB1*16:02</i>	MHC03447
<i>Mamu-DQB1*17:03</i>	MHC00417	<i>Mafa-DQB1*16:03</i>	MHC03697
<i>Mamu-DQB1*17:04</i>	MHC00418	<i>Mafa-DQB1*17:01</i>	MHC00295
<i>Mamu-DQB1*17:05</i>	MHC00419	<i>Mafa-DQB1*17:02:01</i>	MHC00296
<i>Mamu-DQB1*17:06:01</i>	MHC00420	<i>Mafa-DQB1*17:02:02</i>	MHC04132
<i>Mamu-DQB1*17:06:02</i>	MHC03500	<i>Mafa-DQB1*17:03</i>	MHC00297
<i>Mamu-DQB1*17:07</i>	MHC00421	<i>Mafa-DQB1*17:04</i>	MHC00298
<i>Mamu-DQB1*17:09</i>	MHC00423	<i>Mafa-DQB1*17:05</i>	MHC00299
<i>Mamu-DQB1*17:10</i>	MHC01277	<i>Mafa-DQB1*17:06:01</i>	MHC03445
<i>Mamu-DQB1*17:11</i>	MHC02194	<i>Mafa-DQB1*17:06:02</i>	MHC03446
<i>Mamu-DQB1*17:12</i>	MHC03499	<i>Mafa-DQB1*17:07:01</i>	MHC03438
<i>Mamu-DQB1*17:13</i>	MHC04026	<i>Mafa-DQB1*17:07:02</i>	MHC03513
<i>Mamu-DQB1*18:01</i>	MHC00424	<i>Mafa-DQB1*17:08:01</i>	MHC03516
<i>Mamu-DQB1*18:02</i>	MHC00425	<i>Mafa-DQB1*17:08:02</i>	MHC03661
<i>Mamu-DQB1*18:03</i>	MHC00426	<i>Mafa-DQB1*17:09</i>	MHC03866
<i>Mamu-DQB1*18:04</i>	MHC00427	<i>Mafa-DQB1*18:01:01</i>	MHC00300
<i>Mamu-DQB1*18:07</i>	MHC00428	<i>Mafa-DQB1*18:01:02</i>	MHC03444
<i>Mamu-DQB1*18:08</i>	MHC00429	<i>Mafa-DQB1*18:02</i>	MHC00301
<i>Mamu-DQB1*18:09</i>	MHC00430	<i>Mafa-DQB1*18:03</i>	MHC00302
<i>Mamu-DQB1*18:10</i>	MHC00431	<i>Mafa-DQB1*18:04</i>	MHC00303
<i>Mamu-DQB1*18:11</i>	MHC00432	<i>Mafa-DQB1*18:05</i>	MHC00304

Mamu-DQB1*18:12	MHC00433	<i>Mafa-DQB1*18:06</i>	MHC00305
<i>Mamu-DQB1*18:13</i>	MHC00434	<i>Mafa-DQB1*18:07</i>	MHC00306
<i>Mamu-DQB1*18:14</i>	MHC00435	<i>Mafa-DQB1*18:08</i>	MHC00307
<i>Mamu-DQB1*18:15</i>	MHC01067	<i>Mafa-DQB1*18:09</i>	MHC03439
<i>Mamu-DQB1*18:17</i>	MHC02191	<i>Mafa-DQB1*18:10</i>	MHC03440
Mamu-DQB1*18:18	MHC02195	<i>Mafa-DQB1*18:11</i>	MHC03441
Mamu-DQB1*18:19	MHC02197	<i>Mafa-DQB1*18:12</i>	MHC03442
<i>Mamu-DQB1*18:20</i>	MHC02198	<i>Mafa-DQB1*18:13</i>	MHC03443
<i>Mamu-DQB1*18:21</i>	MHC02199	<i>Mafa-DQB1*18:14</i>	MHC03512
<i>Mamu-DQB1*18:22</i>	MHC02906	<i>Mafa-DQB1*18:15</i>	MHC03514
<i>Mamu-DQB1*18:23</i>	MHC03497	<i>Mafa-DQB1*18:16</i>	MHC03515
<i>Mamu-DQB1*18:24</i>	MHC03498	<i>Mafa-DQB1*18:17</i>	MHC03517
<i>Mamu-DQB1*18:25</i>	MHC03578	<i>Mafa-DQB1*18:18</i>	MHC03702
<i>Mamu-DQB1*18:26N</i>	MHC04027	<i>Mafa-DQB1*18:19</i>	MHC03703
<i>Mamu-DQB1*24:01</i>	MHC00436	<i>Mafa-DQB1*18:20</i>	MHC03776
<i>Mafa-DQB1*06:01:01</i>	MHC00278	<i>Mafa-DQB1*18:21</i>	MHC03780
<i>Mafa-DQB1*06:01:02</i>	MHC01623	<i>Mafa-DQB1*18:22</i>	MHC03863
<i>Mafa-DQB1*06:02</i>	MHC00279	<i>Mafa-DQB1*18:23</i>	MHC03864
<i>Mafa-DQB1*06:03</i>	MHC00280	<i>Mafa-DQB1*18:24</i>	MHC03865
<i>Mafa-DQB1*06:04</i>	MHC00281	<i>Mafa-DQB1*18:25</i>	MHC04240
<i>Mafa-DQB1*06:06</i>	MHC00282	<i>Mafa-DQB1*18:28</i>	MHC05119
<i>Mafa-DQB1*06:07:01</i>	MHC00283	<i>Mafa-DQB1*24:01</i>	MHC00308
<i>Mafa-DQB1*06:07:02</i>	MHC03520	<i>Aona-DQB1*22:01:01</i>	MHC00006
<i>Mafa-DQB1*06:08</i>	MHC00284	<i>Aona-DQB1*22:01:02</i>	MHC00007

Notes: A total of 156 *Mhc-DQB1* alleles from three primate species (*Macaca mulatta*, *Macaca fascicularis*, *Aotus nancymaae*) were used in this study, including 69 *Mamu-DQB1*, 85 *Mafa-DQB1* and 2 *Aona-DQB1* alleles. Alleles detected in this study are shown in bold. ¹IPD Acc No is accession number in the IPD-MHC Database (<http://www.ebi.ac.uk/ipd/mhc/>).