

## Supplementary Tables

HLA-A*									
All Ethnicities		Chinese		Malay		Indian		Others	
<b>11:01</b>	25.2%	<b>11:01</b>	28.3%	<b>11:01</b>	18.0%	<b>24:02</b>	16.6%	<b>11:01</b>	15.5%
<b>24:02</b>	15.5%	<b>24:02</b>	15.3%	<b>24:07</b>	17.6%	<b>11:01</b>	14.3%	<b>24:02</b>	15.1%
<b>33:03</b>	11.3%	<b>33:03</b>	11.9%	<b>24:02</b>	16.9%	<b>01:01</b>	13.9%	<b>02:01</b>	12.2%
<b>02:01</b>	9.1%	<b>02:07</b>	10.6%	<b>33:03</b>	10.2%	<b>33:03</b>	10.0%	<b>33:03</b>	7.7%
<b>02:07</b>	8.3%	<b>02:01</b>	9.5%	<b>02:01</b>	8.0%	<b>02:11</b>	6.4%	<b>01:01</b>	7.5%
<b>02:03</b>	5.7%	<b>02:03</b>	6.7%	<b>34:01</b>	6.3%	<b>03:01</b>	6.2%	<b>24:07</b>	6.2%
<b>11:02</b>	3.7%	<b>11:02</b>	4.8%	<b>24:10</b>	4.5%	<b>02:01</b>	5.4%	<b>03:01</b>	4.6%
<b>24:07</b>	2.7%	<b>02:06</b>	2.8%	<b>02:03</b>	4.3%	<b>68:01</b>	5.3%	<b>34:01</b>	4.3%
<b>02:06</b>	2.6%	<b>26:01</b>	2.4%	<b>01:01</b>	2.0%	<b>26:01</b>	4.0%	<b>26:01</b>	2.8%
<b>01:01</b>	2.5%	<b>31:01</b>	1.9%	<b>02:06</b>	1.9%	<b>31:01</b>	2.9%	<b>02:07</b>	2.8%
<b>26:01</b>	2.4%	<b>30:01</b>	1.6%	<b>02:07</b>	1.5%	<b>32:01</b>	2.6%	<b>02:03</b>	2.4%
<b>31:01</b>	1.9%	<b>01:01</b>	0.7%	<b>26:01</b>	1.4%	<b>24:07</b>	2.2%	<b>02:06</b>	2.3%
<b>03:01</b>	1.4%	<b>03:01</b>	0.6%	<b>03:01</b>	1.1%	<b>02:06</b>	1.7%	<b>31:01</b>	2.0%
<b>30:01</b>	1.4%	<b>24:07</b>	0.6%	<b>74:01</b>	0.7%	<b>30:01</b>	1.5%	<b>32:01</b>	1.7%
<b>34:01</b>	1.1%	<b>29:01</b>	0.4%	<b>02:11</b>	0.6%	<b>02:03</b>	1.1%	<b>68:01</b>	1.6%
<b>68:01</b>	0.8%	<b>32:01</b>	0.4%	<b>68:01</b>	0.6%	<b>29:01</b>	0.9%	<b>11:02</b>	1.1%
<b>02:11</b>	0.7%	<b>24:10</b>	0.3%	<b>31:01</b>	0.6%	<b>02:16</b>	0.8%	<b>29:02</b>	0.9%
<b>24:10</b>	0.7%	<b>34:01</b>	0.2%	<b>32:01</b>	0.6%	<b>03:02</b>	0.7%	<b>23:01</b>	0.9%
<b>32:01</b>	0.7%	<b>68:01</b>	0.2%	<b>30:01</b>	0.6%	<b>02:05</b>	0.6%	<b>30:01</b>	0.9%
<b>29:01</b>	0.5%	<b>74:01</b>	0.1%	<b>29:01</b>	0.5%	<b>23:01</b>	0.5%	<b>02:11</b>	0.9%

HLA-B*									
All Ethnicities		Chinese		Malay		Indian		Others	
<b>40:01</b>	15.4%	<b>40:01</b>	19.2%	<b>15:02</b>	11.5%	<b>40:06</b>	10.1%	<b>40:01</b>	6.7%
<b>46:01</b>	10.1%	<b>46:01</b>	12.9%	<b>18:01</b>	8.3%	<b>52:01</b>	7.6%	<b>15:02</b>	5.1%
<b>58:01</b>	9.4%	<b>58:01</b>	11.0%	<b>15:13</b>	7.9%	<b>57:01</b>	7.2%	<b>51:01</b>	5.0%
<b>15:02</b>	6.1%	<b>13:01</b>	6.9%	<b>35:05</b>	7.1%	<b>51:01</b>	7.0%	<b>07:02</b>	4.7%
<b>13:01</b>	5.8%	<b>15:02</b>	5.9%	<b>38:02</b>	5.5%	<b>44:03</b>	6.1%	<b>44:03</b>	4.2%
<b>51:01</b>	4.6%	<b>51:01</b>	4.4%	<b>44:03</b>	5.3%	<b>35:03</b>	5.7%	<b>08:01</b>	4.1%
<b>38:02</b>	4.0%	<b>38:02</b>	4.2%	<b>15:21</b>	5.0%	<b>58:01</b>	5.2%	<b>38:02</b>	4.0%
<b>15:01</b>	3.0%	<b>15:01</b>	3.5%	<b>40:01</b>	4.5%	<b>35:01</b>	5.1%	<b>58:01</b>	3.9%
						<b>07:05:0</b>			
<b>54:01</b>	2.5%	<b>54:01</b>	3.2%	<b>58:01</b>	4.5%	<b>1G</b>	4.0%	<b>35:05</b>	3.3%
<b>35:01</b>	2.4%	<b>55:02</b>	3.0%	<b>13:01</b>	3.5%	<b>07:02</b>	3.9%	<b>18:01</b>	3.3%
<b>55:02</b>	2.4%	<b>27:04</b>	2.6%	<b>18:02</b>	3.4%	<b>37:01</b>	3.6%	<b>35:01</b>	3.0%
<b>40:06</b>	2.0%	<b>35:01</b>	2.2%	<b>51:01</b>	3.2%	<b>08:01</b>	2.9%	<b>46:01</b>	3.0%
<b>27:04</b>	2.0%	<b>39:01</b>	2.1%	<b>52:01</b>	2.7%	<b>15:02</b>	2.8%	<b>15:01</b>	2.8%
<b>44:03</b>	1.9%	<b>13:02</b>	1.7%	<b>27:06</b>	2.5%	<b>40:01</b>	2.5%	<b>13:01</b>	2.7%
<b>52:01</b>	1.8%	<b>40:02</b>	1.5%	<b>51:02</b>	2.3%	<b>18:01</b>	2.3%	<b>52:01</b>	2.7%
<b>39:01</b>	1.8%	<b>51:02</b>	1.4%	<b>46:01</b>	2.0%	<b>55:01</b>	2.1%	<b>44:02</b>	2.6%
<b>13:02</b>	1.5%	<b>40:06</b>	1.1%	<b>40:06</b>	1.9%	<b>15:18</b>	1.9%	<b>57:01</b>	2.3%
				<b>07:05:0</b>					
<b>18:01</b>	1.4%	<b>48:01</b>	1.0%	<b>1G</b>	1.9%	<b>13:01</b>	1.7%	<b>40:02</b>	2.1%

<b>40:02</b>	1.4%	<b>52:01</b>	0.9%	<b>15:25</b>	1.5%	<b>50:01</b>	1.7%	<b>15:21</b>	2.0%
<b>51:02</b>	1.3%	<b>15:27</b>	0.8%	<b>35:30</b>	1.3%	<b>15:01</b>	1.6%	<b>35:03</b>	1.9%

<b>HLA-C*</b>									
<b>All Ethnicities</b>		<b>Chinese</b>		<b>Malay</b>		<b>Indian</b>		<b>Others</b>	
<b>07:02</b>	18.3%	<b>07:02</b>	20.0%	<b>08:01</b>	11.5%	<b>06:02</b>	14.0%	<b>07:02</b>	16.7%
<b>01:02</b>	14.8%	<b>01:02</b>	18.2%	<b>04:01</b>	8.3%	<b>07:02</b>	12.3%	<b>04:01</b>	11.2%
<b>03:04</b>	10.5%	<b>03:04</b>	12.6%	<b>07:02</b>	7.9%	<b>04:01</b>	11.1%	<b>08:01</b>	8.4%
<b>03:02</b>	9.4%	<b>03:02</b>	11.0%	<b>07:04</b>	7.1%	<b>15:02</b>	9.1%	<b>07:01:0</b>	
<b>08:01</b>	9.4%	<b>08:01</b>	8.9%	<b>04:03</b>	5.5%	<b>12:02</b>	8.4%	<b>1G</b>	7.7%
<b>04:01</b>	6.4%	<b>04:01</b>	4.6%	<b>07:01:0</b>		<b>07:01:0</b>		<b>01:02</b>	6.6%
<b>15:02</b>	4.2%	<b>03:03</b>	4.4%	<b>1G</b>	5.3%	<b>1G</b>	7.9%	<b>03:04</b>	6.4%
<b>12:02</b>	4.0%	<b>15:02</b>	3.8%	<b>03:04</b>	5.0%	<b>03:02</b>	5.2%	<b>06:02</b>	5.7%
<b>03:03</b>	3.9%	<b>12:02</b>	3.6%	<b>03:02</b>	4.5%	<b>14:02</b>	4.4%	<b>03:03</b>	3.9%
<b>06:02</b>	3.7%	<b>14:02</b>	3.6%	<b>14:02</b>	4.5%	<b>01:02</b>	4.3%	<b>15:02</b>	3.8%
<b>14:02</b>	3.7%	<b>06:02</b>	2.5%	<b>01:02</b>	3.5%	<b>12:03</b>	4.3%	<b>03:02</b>	3.8%
<b>04:03</b>	2.4%	<b>04:03</b>	1.7%	<b>12:02</b>	3.4%	<b>08:01</b>	3.3%	<b>04:03</b>	3.5%
<b>07:01:0</b>				<b>06:02</b>	3.2%	<b>07:04</b>	2.5%	<b>12:02</b>	3.3%
<b>1G</b>	2.3%	<b>12:03</b>	1.3%	<b>15:02</b>	2.7%	<b>16:02</b>	2.3%	<b>12:03</b>	2.9%
<b>07:04</b>	2.0%	<b>07:04</b>	0.9%	<b>03:03</b>	2.5%	<b>03:04</b>	1.9%	<b>14:02</b>	2.7%
<b>12:03</b>	1.6%	<b>07:01:0</b>							
<b>15:05</b>	0.5%	<b>1G</b>	0.6%	<b>04:06</b>	2.3%	<b>03:03</b>	1.9%	<b>05:01</b>	2.7%
<b>05:01</b>	0.4%	<b>15:05</b>	0.4%	<b>12:03</b>	2.0%	<b>04:03</b>	1.7%	<b>07:04</b>	2.6%
<b>16:02</b>	0.4%	<b>01:03</b>	0.4%	<b>15:05</b>	1.9%	<b>02:02</b>	0.8%	<b>02:02</b>	1.4%
<b>01:03</b>	0.3%	<b>08:03</b>	0.3%	<b>16:02</b>	1.9%	<b>15:05</b>	0.8%	<b>08:02</b>	1.3%
<b>02:02</b>	0.3%	<b>05:01</b>	0.2%	<b>17:01</b>	1.5%	<b>05:01</b>	0.6%	<b>16:01</b>	1.0%
		<b>14:03</b>	0.1%	<b>05:01</b>	1.3%	<b>07:26</b>	0.5%	<b>15:05</b>	0.8%

Supplementary Table 1: Top 20 HLA Class 1 allele frequencies.

HLA-DRB1*									
All Ethnicities		Chinese		Malay		Indian		Others	
<b>12:02</b>	12.8%	<b>09:01</b>	15.0%	<b>12:02</b>	34.9%	<b>07:01</b>	17.1%	<b>12:02</b>	12.6%
<b>09:01</b>	12.0%	<b>12:02</b>	11.1%	<b>15:02</b>	18.5%	<b>15:01</b>	10.8%	<b>15:02</b>	12.2%
<b>15:01</b>	8.5%	<b>15:01</b>	8.6%	<b>07:01</b>	7.8%	<b>15:02</b>	9.9%	<b>07:01</b>	9.6%
<b>03:01</b>	7.6%	<b>03:01</b>	8.3%	<b>15:01</b>	5.9%	<b>14:04</b>	7.9%	<b>15:01</b>	8.0%
<b>11:01</b>	6.5%	<b>11:01</b>	7.5%	<b>03:01</b>	3.9%	<b>04:03</b>	7.1%	<b>03:01</b>	7.4%
<b>08:03</b>	6.1%	<b>08:03</b>	7.4%	<b>09:01</b>	3.9%	<b>10:01</b>	6.8%	<b>09:01</b>	4.9%
<b>04:05</b>	5.8%	<b>04:05</b>	6.9%	<b>14:04</b>	3.6%	<b>13:01</b>	6.4%	<b>11:01</b>	4.7%
<b>15:02</b>	5.5%	<b>16:02</b>	4.9%	<b>04:05</b>	3.2%	<b>03:01</b>	6.4%	<b>04:05</b>	4.1%
<b>07:01</b>	5.2%	<b>12:01</b>	3.5%	<b>16:02</b>	3.2%	<b>11:01</b>	4.4%	<b>13:02</b>	3.3%
		<b>14:01:0</b>							
<b>16:02</b>	4.1%	<b>1G</b>	3.5%	<b>08:03</b>	2.6%	<b>12:02</b>	4.1%	<b>04:03</b>	2.9%
<b>04:03</b>	3.2%	<b>04:06</b>	3.1%	<b>11:01</b>	2.2%	<b>13:02</b>	3.1%	<b>01:01</b>	2.9%
<b>14:01:0</b>									
<b>1G</b>	2.9%	<b>07:01</b>	3.0%	<b>04:03</b>	1.6%	<b>01:01</b>	2.5%	<b>13:01</b>	2.8%
<b>12:01</b>	2.8%	<b>04:03</b>	3.0%	<b>13:02</b>	1.4%	<b>08:03</b>	1.6%	<b>08:03</b>	2.7%
<b>13:02</b>	2.5%	<b>15:02</b>	2.8%	<b>10:01</b>	1.3%	<b>04:01</b>	1.4%	<b>04:01</b>	2.4%
								<b>14:01:0</b>	
<b>04:06</b>	2.4%	<b>13:02</b>	2.5%	<b>13:01</b>	1.1%	<b>04:04</b>	1.0%	<b>1G</b>	2.1%
				<b>14:01:0</b>					
<b>10:01</b>	1.8%	<b>14:05</b>	2.1%	<b>1G</b>	0.8%	<b>09:01</b>	1.0%	<b>10:01</b>	2.1%
<b>14:05</b>	1.6%	<b>10:01</b>	1.3%	<b>04:06</b>	0.5%	<b>11:04</b>	0.9%	<b>14:04</b>	1.7%
<b>14:04</b>	1.5%	<b>04:04</b>	0.9%	<b>01:01</b>	0.5%	<b>15:06</b>	0.9%	<b>16:02</b>	1.4%
<b>13:01</b>	1.2%	<b>08:09</b>	0.7%	<b>12:01</b>	0.4%	<b>04:05</b>	0.8%	<b>04:04</b>	1.3%
						<b>14:01:0</b>			
<b>04:04</b>	0.9%	<b>13:12</b>	0.6%	<b>14:05</b>	0.3%	<b>1G</b>	0.7%	<b>12:01</b>	1.3%

HLA-DQB1*									
All Ethnicities		Chinese		Malay		Indian		Others	
<b>03:01</b>	23.0%	<b>03:01</b>	22.9%	<b>03:01</b>	35.4%	<b>06:01</b>	17.2%	<b>03:01</b>	22.0%
								<b>02:01:0</b>	
<b>03:03</b>	13.4%	<b>03:03</b>	15.4%	<b>05:01</b>	12.5%	<b>02:01</b>	15.7%	<b>1G</b>	14.2%
<b>06:01</b>	11.8%	<b>06:01</b>	11.5%	<b>06:01</b>	10.8%	<b>03:01</b>	12.4%	<b>05:02</b>	10.1%
<b>02:01:0</b>		<b>02:01:0</b>		<b>02:01:0</b>					
<b>1G</b>	11.6%	<b>1G</b>	11.0%	<b>1G</b>	10.5%	<b>03:02</b>	10.2%	<b>05:01</b>	9.9%
<b>05:02</b>	9.1%	<b>05:02</b>	9.7%	<b>05:02</b>	10.4%	<b>05:01</b>	9.9%	<b>06:01</b>	8.1%
<b>03:02</b>	7.6%	<b>03:02</b>	7.8%	<b>03:03</b>	5.3%	<b>05:03</b>	9.7%	<b>03:03</b>	7.7%
<b>05:01</b>	5.0%	<b>04:01</b>	6.1%	<b>05:03</b>	5.2%	<b>03:03</b>	8.6%	<b>03:02</b>	7.5%
<b>04:01</b>	4.9%	<b>05:03</b>	4.1%	<b>03:02</b>	2.7%	<b>06:03</b>	6.6%	<b>06:02</b>	4.8%
<b>05:03</b>	4.8%	<b>06:02</b>	3.6%	<b>04:01</b>	1.5%	<b>05:02</b>	2.6%	<b>05:03</b>	4.4%
<b>06:02</b>	3.3%	<b>05:01</b>	3.0%	<b>04:02</b>	1.5%	<b>06:02</b>	1.9%	<b>06:03</b>	2.9%
<b>06:09</b>	2.0%	<b>06:09</b>	2.2%	<b>06:02</b>	1.5%	<b>06:09</b>	1.8%	<b>04:02</b>	2.5%
<b>04:02</b>	1.6%	<b>04:02</b>	1.5%	<b>06:03</b>	1.1%	<b>04:02</b>	1.4%	<b>04:01</b>	2.4%
<b>06:03</b>	1.3%	<b>06:03</b>	0.5%	<b>06:09</b>	1.1%	<b>06:04</b>	1.2%	<b>06:04</b>	1.9%
<b>06:04</b>	0.4%	<b>06:10</b>	0.3%	<b>06:04</b>	0.2%	<b>04:01</b>	0.3%	<b>06:09</b>	1.3%
<b>06:10</b>	0.2%	<b>06:04</b>	0.2%	<b>05:23</b>	0.03%	<b>03:05</b>	0.12%	<b>06:10</b>	0.15%
<b>03:13</b>	0.04%	<b>03:13</b>	0.1%	<b>05:66</b>	0.03%	<b>05:04</b>	0.10%	<b>03:05</b>	0.07%
<b>03:05</b>	0.02%	<b>03:05</b>	0.01%	<b>02:51</b>	0.02%	<b>02:07</b>	0.07%	<b>03:04</b>	0.03%

<b>05:04</b>	0.01%	<b>03:17</b>	0.01%	<b>06:10</b>	0.02%	<b>06:48</b>	0.06%	<b>05:04</b>	0.03%
<b>02:07</b>	0.01%	<b>03:26</b>	0.01%	<b>02:07</b>	0.01%	<b>05:23</b>	0.05%	<b>06:74</b>	0.03%
<b>03:17</b>	0.01%	<b>03:10</b>	0.00%	<b>03:01P</b>	0.01%	<b>02:02</b>	0.03%	<b>02:14</b>	0.01%

Supplementary Table 2: Top 20 HLA Class 2 allele frequencies.

Entire Donor Population	Frequency (N=2,470)	Observed (N=676)
HLA-A*33:03~B*58:01~C*03:02~DRB1*03:01~DQB1*02:01:01G	4.91%	3.11%
HLA-A*02:07~B*46:01~C*01:02~DRB1*09:01~DQB1*03:03	2.80%	3.11%
HLA-A*11:01~B*15:02~C*08:01~DRB1*12:02~DQB1*03:01	1.92%	1.63%
HLA-A*33:03~B*58:01~C*03:02~DRB1*13:02~DQB1*06:09	1.43%	1.18%
HLA-A*30:01~B*13:02~C*06:02~DRB1*07:01~DQB1*02:01:01G	1.06%	0.74%
HLA-A*11:01~B*13:01~C*03:04~DRB1*15:01~DQB1*06:01	0.90%	1.18%
HLA-A*33:03~B*44:03~C*07:01:01G~DRB1*07:01~DQB1*02:01:01G	0.88%	1.18%
HLA-A*11:01~B*40:01~C*07:02~DRB1*09:01~DQB1*03:03	0.77%	0.15%
HLA-A*02:03~B*38:02~C*07:02~DRB1*16:02~DQB1*05:02	0.73%	0.59%
HLA-A*02:07~B*46:01~C*01:02~DRB1*08:03~DQB1*06:01	0.73%	1.48%
HLA-A*11:01~B*46:01~C*01:02~DRB1*09:01~DQB1*03:03	0.72%	0.15%
HLA-A*11:01~B*40:01~C*07:02~DRB1*08:03~DQB1*06:01	0.64%	1.92%
HLA-A*11:01~B*15:01~C*04:01~DRB1*04:06~DQB1*03:02	0.59%	0.74%
HLA-A*02:01~B*40:01~C*15:02~DRB1*11:01~DQB1*03:01	0.58%	0.30%
HLA-A*11:01~B*13:01~C*03:04~DRB1*16:02~DQB1*05:02	0.54%	0.15%
HLA-A*11:01~B*15:02~C*08:01~DRB1*15:01~DQB1*06:01	0.51%	0.44%
HLA-A*01:01~B*57:01~C*06:02~DRB1*07:01~DQB1*03:03	0.50%	0.74%
HLA-A*11:02~B*27:04~C*12:02~DRB1*12:02~DQB1*03:01	0.50%	0.44%
HLA-A*24:07~B*35:05~C*04:01~DRB1*12:02~DQB1*03:01	0.50%	0.30%
HLA-A*02:03~B*38:02~C*07:02~DRB1*08:03~DQB1*06:01	0.44%	0.44%

Supplementary Table 3: Top 20 haplotypes of the entire donor population including known haplotypes from patient and donors, in decreasing order of frequency

Chinese	Frequency
HLA-A*33:03~B*58:01~C*03:02~DRB1*03:01~DQB1*02:01:01G	5.97%
HLA-A*02:07~B*46:01~C*01:02~DRB1*09:01~DQB1*03:03	3.57%
HLA-A*11:01~B*15:02~C*08:01~DRB1*12:02~DQB1*03:01	2.05%
HLA-A*33:03~B*58:01~C*03:02~DRB1*13:02~DQB1*06:09	1.66%
HLA-A*30:01~B*13:02~C*06:02~DRB1*07:01~DQB1*02:01:01G	1.23%
HLA-A*11:01~B*13:01~C*03:04~DRB1*15:01~DQB1*06:01	1.16%
HLA-A*11:01~B*40:01~C*07:02~DRB1*09:01~DQB1*03:03	1.01%
HLA-A*02:03~B*38:02~C*07:02~DRB1*16:02~DQB1*05:02	0.95%
HLA-A*02:07~B*46:01~C*01:02~DRB1*08:03~DQB1*06:01	0.93%
HLA-A*11:01~B*46:01~C*01:02~DRB1*09:01~DQB1*03:03	0.93%
HLA-A*11:01~B*40:01~C*07:02~DRB1*08:03~DQB1*06:01	0.84%
HLA-A*11:01~B*15:01~C*04:01~DRB1*04:06~DQB1*03:02	0.76%
HLA-A*02:01~B*40:01~C*15:02~DRB1*11:01~DQB1*03:01	0.75%
HLA-A*11:01~B*13:01~C*03:04~DRB1*16:02~DQB1*05:02	0.69%
HLA-A*11:02~B*27:04~C*12:02~DRB1*12:02~DQB1*03:01	0.65%
HLA-A*11:01~B*15:02~C*08:01~DRB1*15:01~DQB1*06:01	0.60%
HLA-A*02:03~B*38:02~C*07:02~DRB1*08:03~DQB1*06:01	0.58%
HLA-A*11:01~B*40:01~C*07:02~DRB1*04:05~DQB1*04:01	0.58%
HLA-A*11:01~B*40:01~C*07:02~DRB1*11:01~DQB1*03:01	0.55%
HLA-A*11:01~B*40:01~C*07:02~DRB1*12:01~DQB1*03:01	0.53%

Malay	Frequency
HLA-A*33:03~B*44:03~C*07:01:01G~DRB1*07:01~DQB1*02:01:01G	3.41%
HLA-A*24:07~B*35:05~C*04:01~DRB1*12:02~DQB1*03:01	3.05%
HLA-A*11:01~B*15:02~C*08:01~DRB1*12:02~DQB1*03:01	2.75%
HLA-A*34:01~B*15:21~C*04:03~DRB1*15:02~DQB1*06:01	2.73%
HLA-A*24:07~B*15:02~C*08:01~DRB1*12:02~DQB1*03:01	2.25%
HLA-A*02:01~B*15:13~C*08:01~DRB1*12:02~DQB1*03:01	1.99%
HLA-A*33:03~B*58:01~C*03:02~DRB1*03:01~DQB1*02:01:01G	1.96%
HLA-A*24:10~B*18:02~C*07:04~DRB1*12:02~DQB1*03:01	1.70%
HLA-A*24:02~B*15:13~C*08:01~DRB1*12:02~DQB1*03:01	1.42%
HLA-A*24:02~B*38:02~C*07:02~DRB1*15:02~DQB1*05:01	1.07%
HLA-A*24:02~B*18:01~C*07:04~DRB1*12:02~DQB1*03:01	0.89%
HLA-A*24:07~B*15:13~C*08:01~DRB1*12:02~DQB1*03:01	0.82%
HLA-A*24:02~B*15:02~C*08:01~DRB1*12:02~DQB1*03:01	0.80%
HLA-A*24:07~B*35:05~C*04:01~DRB1*15:02~DQB1*05:01	0.79%
HLA-A*24:07~B*18:01~C*07:04~DRB1*15:02~DQB1*05:01	0.75%
HLA-A*11:01~B*15:13~C*08:01~DRB1*12:02~DQB1*03:01	0.74%
HLA-A*24:10~B*35:30~C*04:01~DRB1*12:02~DQB1*05:02	0.63%
HLA-A*11:01~B*18:01~C*07:04~DRB1*12:02~DQB1*03:01	0.61%
HLA-A*02:07~B*46:01~C*01:02~DRB1*09:01~DQB1*03:03	0.60%
HLA-A*24:07~B*18:01~C*07:04~DRB1*12:02~DQB1*03:01	0.58%

Indian	Frequency
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HLA-A*01:01~B*57:01~C*06:02~DRB1*07:01~DQB1*03:03	3.42%
HLA-A*33:03~B*44:03~C*07:01:01G~DRB1*07:01~DQB1*02:01:01G	2.34%
HLA-A*33:03~B*58:01~C*03:02~DRB1*03:01~DQB1*02:01:01G	1.62%
HLA-A*01:01~B*37:01~C*06:02~DRB1*10:01~DQB1*05:01	1.42%
HLA-A*26:01~B*08:01~C*07:02~DRB1*03:01~DQB1*02:01:01G	1.00%
HLA-A*02:11~B*40:06~C*15:02~DRB1*15:01~DQB1*06:01	0.93%
HLA-A*30:01~B*13:02~C*06:02~DRB1*07:01~DQB1*02:01:01G	0.88%
HLA-A*33:03~B*58:01~C*03:02~DRB1*13:02~DQB1*06:09	0.83%
HLA-A*11:01~B*07:05:01G~C*07:02~DRB1*15:01~DQB1*06:01	0.67%
HLA-A*11:01~B*52:01~C*12:02~DRB1*15:02~DQB1*06:01	0.60%
HLA-A*24:02~B*52:01~C*12:02~DRB1*04:03~DQB1*03:02	0.56%
HLA-A*11:01~B*57:01~C*06:02~DRB1*07:01~DQB1*03:03	0.52%
HLA-A*01:01~B*44:03~C*07:01:01G~DRB1*07:01~DQB1*02:01:01G	0.50%
HLA-A*03:01~B*50:01~C*06:02~DRB1*07:01~DQB1*02:01:01G	0.46%
HLA-A*24:02~B*57:01~C*06:02~DRB1*07:01~DQB1*03:03	0.46%
HLA-A*11:01~B*52:01~C*12:02~DRB1*04:03~DQB1*03:02	0.45%
HLA-A*24:02~B*40:06~C*15:02~DRB1*15:02~DQB1*06:01	0.43%
HLA-A*24:02~B*07:05:01G~C*07:02~DRB1*15:01~DQB1*06:01	0.42%
HLA-A*24:02~B*40:06~C*15:02~DRB1*14:04~DQB1*05:03	0.42%
HLA-A*11:01~B*15:02~C*08:01~DRB1*12:02~DQB1*03:01	0.40%

Others	Frequency
HLA-A*01:01~B*08:01~C*07:01:01G~DRB1*03:01~DQB1*02:01:01G	1.76%
HLA-A*33:03~B*58:01~C*03:02~DRB1*03:01~DQB1*02:01:01G	1.56%
HLA-A*33:03~B*44:03~C*07:01:01G~DRB1*07:01~DQB1*02:01:01G	1.53%
HLA-A*24:07~B*35:05~C*04:01~DRB1*12:02~DQB1*03:01	1.52%
HLA-A*11:01~B*15:02~C*08:01~DRB1*12:02~DQB1*03:01	1.33%
HLA-A*01:01~B*57:01~C*06:02~DRB1*07:01~DQB1*03:03	1.12%
HLA-A*02:07~B*46:01~C*01:02~DRB1*09:01~DQB1*03:03	0.96%
HLA-A*33:03~B*58:01~C*03:02~DRB1*13:02~DQB1*06:09	0.84%
HLA-A*24:02~B*38:02~C*07:02~DRB1*15:02~DQB1*05:02	0.79%
HLA-A*34:01~B*15:21~C*04:03~DRB1*15:02~DQB1*06:01	0.76%
HLA-A*03:01~B*07:02~C*07:02~DRB1*15:01~DQB1*06:02	0.74%
HLA-A*02:01~B*44:02~C*05:01~DRB1*04:01~DQB1*03:01	0.59%
HLA-A*02:01~B*15:13~C*08:01~DRB1*12:02~DQB1*03:01	0.59%
HLA-A*02:01~B*07:02~C*07:02~DRB1*15:01~DQB1*06:02	0.52%
HLA-A*29:01~B*07:05:01G~C*15:05~DRB1*10:01~DQB1*05:01	0.47%
HLA-A*02:01~B*08:01~C*07:01:01G~DRB1*03:01~DQB1*02:01:01G	0.43%
HLA-A*11:01~B*38:02~C*07:02~DRB1*15:02~DQB1*05:02	0.42%
HLA-A*29:02~B*44:03~C*16:01~DRB1*07:01~DQB1*02:01:01G	0.42%
HLA-A*26:01~B*08:01~C*07:02~DRB1*03:01~DQB1*02:01:01G	0.41%
HLA-A*34:01~B*40:02~C*15:02~DRB1*15:02~DQB1*05:02	0.41%

Supplementary Table 4: Top 20 haplotypes by ethnicity, in decreasing order of frequency.