

| Well No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1        | 2        | 3        | 4        | 5        | 6        | 7        | 8        | 9        | 10        | 11        | 12        | 13        | 14        | 15        | 16        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>DQB1 allele<sup>1,2,3</sup></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |          |          |          |          |          |          |          |          |           |           |           |           |           |           |           |
| *04:01:01:01-04:01:05, 04:42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1        | 2        |          |          |          |          |          |          |          |           |           |           |           |           |           |           |
| *04:02:01:01, 04:02:01:04-04:02:07,<br>04:02:09-04:02:14, 04:19, 04:21,<br>04:26, 04:28-04:29, 04:31-04:32,<br>04:34-04:35, 04:37, 04:39-04:40                                                                                                                                                                                                                                                                                                                                                                                         | 1        |          | 3        |          |          |          |          |          |          |           |           |           |           |           |           |           |
| *04:02:08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |          | 3        |          |          |          | 7        |          |          |           |           |           |           |           |           |           |
| *04:03:01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1        |          | 3        | 4        |          |          |          |          |          |           |           |           |           |           |           |           |
| *04:03:02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1        |          |          | 4        |          |          |          |          |          |           |           |           |           |           |           |           |
| *04:03:03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |          |          | 4        |          |          |          |          |          |           |           |           |           |           |           |           |
| *04:04                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1        |          | 3        |          | 5        |          |          |          |          |           |           |           |           |           |           |           |
| *04:05                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1        | 2        |          |          | 5        |          |          |          |          |           |           |           |           |           |           |           |
| *04:06                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1        | 2        |          |          | 5        |          |          |          |          |           |           |           |           |           |           |           |
| *04:07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1        | 2        |          |          |          |          |          |          |          |           |           | 12        |           |           |           |           |
| *04:08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1        | 2        |          |          |          |          |          | 8        |          |           |           |           |           |           |           |           |
| *04:09                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1        |          | 3        |          |          |          |          |          | 9        |           |           |           |           |           |           |           |
| *04:10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1        |          | 3        |          |          |          |          |          |          | 10        |           |           |           |           |           |           |
| *04:11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1        |          | 3        |          |          |          |          |          |          |           | 11        |           |           |           |           |           |
| *04:12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1        |          | 3        |          | 5        |          |          |          |          |           |           |           |           |           |           |           |
| *04:13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1        |          | 3        |          |          |          |          |          |          |           |           |           | 13        |           |           |           |
| *04:14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1        | 2        |          |          |          |          |          |          | 9        |           |           |           |           |           |           |           |
| *04:15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1        | 2        |          |          |          |          |          |          |          |           | 11        |           |           |           |           |           |
| *04:16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1        | 2        |          |          |          | 6        |          |          |          |           |           |           |           |           |           |           |
| *04:17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1        | 2        |          |          |          |          |          |          |          |           |           |           |           | 14        |           |           |
| *04:18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1        |          | 3        |          |          |          |          |          |          |           |           | 12        |           |           |           |           |
| *04:20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1        |          |          |          |          | 6        |          |          |          |           |           |           |           |           |           |           |
| *04:22, 04:24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1        |          | w        |          |          |          |          |          |          |           |           |           |           |           |           |           |
| *04:23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1        |          | 3        |          |          |          |          |          |          |           | 11        |           |           |           | 15        |           |
| *04:25N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1        |          | 3        |          |          |          |          |          |          |           |           |           |           |           | 15        |           |
| *04:27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1        |          | 3        |          |          |          |          |          |          |           |           |           |           |           |           | 16        |
| *04:30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |          | 3        |          |          |          |          |          |          |           |           |           |           |           |           |           |
| *04:33                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1        |          |          |          |          |          |          |          |          |           |           |           |           |           |           |           |
| *04:36N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1        |          | 3        |          |          |          |          |          |          |           |           |           |           |           |           |           |
| *04:38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1        | 2        |          |          |          |          |          |          |          |           |           |           |           |           |           |           |
| *04:41N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1        |          | 3        |          |          |          |          |          |          |           |           |           |           |           |           |           |
| *03:06                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |          |          | 4        | 5        |          |          | ?        |          |           |           |           |           |           |           |           |
| *03:07, 03:11, 03:14:01-03:15,<br>03:17:01-03:18, 03:20, 03:23:01-<br>03:23:02, 03:25:02-03:26, 03:37,<br>03:40, 03:48, 03:52-03:71, 03:74-<br>03:78, 03:81-03:82, 03:101-03:104,<br>03:106-03:112, 03:118N, 03:120-<br>03:131, 03:133-03:137, 03:140-<br>03:149, 03:151-03:163, 03:165-<br>03:167, 03:170-03:179, 03:183-<br>03:185, 03:187-03:189, 03:192-<br>03:194, 03:201-03:205, 03:207-<br>03:210, 03:212-03:214, 03:216-<br>03:221, 03:223-03:230, 03:232-<br>03:238, 03:240, 03:244, 03:255-<br>03:263, 03:267-03:275, 03:278 |          |          |          |          |          |          |          | ?        |          |           |           |           |           |           |           |           |
| <b>Well No.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>1</b> | <b>2</b> | <b>3</b> | <b>4</b> | <b>5</b> | <b>6</b> | <b>7</b> | <b>8</b> | <b>9</b> | <b>10</b> | <b>11</b> | <b>12</b> | <b>13</b> | <b>14</b> | <b>15</b> | <b>16</b> |
| <b>Well No.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>1</b> | <b>2</b> | <b>3</b> | <b>4</b> | <b>5</b> | <b>6</b> | <b>7</b> | <b>8</b> | <b>9</b> | <b>10</b> | <b>11</b> | <b>12</b> | <b>13</b> | <b>14</b> | <b>15</b> | <b>16</b> |
| *03:19:01-03:19:02, 03:150                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |          |          |          |          |          |          | 8        |          |           |           |           |           |           |           |           |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |          |          |          |          |          |          |          |          |           |           |           |           |           |           |           |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| *03:22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |          |          |          |          |          |          |          |          |           |           | 11        |           |           |           |           |
| *03:25:01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |          |          | 4        | 5        |          |          |          |          |           |           |           |           |           |           |           |
| *03:30, 03:72, 03:100, 06:02:01:01-06:02:28, 06:10, 06:13:01, 06:14:01-06:14:03, 06:19:02-06:20, 06:33, 06:37, 06:46-06:49, 06:51:01, 06:77N-06:79:01, 06:106-06:107, 06:109, 06:111-06:117, 06:125, 06:127, 06:130, 06:188, 06:200, 06:216N, 06:219, 06:224-06:228, 06:237, 06:240, 06:242                                                                                                                                                                                                                                                                                                              |          |          |          |          |          |          |          | 7        |          |           |           |           |           |           |           |           |
| *03:96, 03:251                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |          |          |          |          |          |          |          |          |           |           | 11        |           |           | 15        |           |
| *03:132                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1        |          |          |          |          |          |          |          |          |           |           |           |           |           |           |           |
| *03:215                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |          |          |          |          |          | 7        | ?        |          |           |           |           |           |           |           |           |
| *05:01:19, 06:03:03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |          |          |          |          |          |          |          |          | w         |           |           |           |           |           |           |
| *05:103, 06:04:01-06:04:10, 06:05:01-06:05:02, 06:07:01-06:07:02, 06:09:01:01-06:09:06, 06:12, 06:18:02, 06:21, 06:34, 06:36, 06:38, 06:41-06:42, 06:52, 06:58, 06:118:01, 06:129, 06:186, 06:189, 06:217                                                                                                                                                                                                                                                                                                                                                                                                |          |          |          |          |          |          |          |          |          |           | w         |           |           |           |           |           |
| *06:04:11, 06:06, 06:08:02-06:08:03, 06:09:07, 06:11:02-06:11:03, 06:17-06:18:01, 06:25-06:28, 06:30-06:32:02, 06:35, 06:40, 06:45, 06:53:01-06:54N, 06:56-06:57, 06:59-06:61, 06:63-06:67, 06:85, 06:89, 06:91-06:94, 06:118:02-06:118:03, 06:120-06:121, 06:124, 06:128, 06:131-06:135, 06:137, 06:140-06:145, 06:149, 06:153-06:155, 06:157-06:158N, 06:160, 06:164-06:165, 06:167-06:172, 06:176-06:177, 06:180-06:181, 06:184, 06:190:01-06:191, 06:193N-06:196, 06:199, 06:201-06:204, 06:207, 06:210, 06:212, 06:214, 06:229-06:231, 06:233-06:234, 06:238, 06:241, 06:244-06:248, 06:251-06:252N |          |          |          |          |          |          |          |          |          |           |           | ?         |           |           |           |           |
| <b>Well No.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>1</b> | <b>2</b> | <b>3</b> | <b>4</b> | <b>5</b> | <b>6</b> | <b>7</b> | <b>8</b> | <b>9</b> | <b>10</b> | <b>11</b> | <b>12</b> | <b>13</b> | <b>14</b> | <b>15</b> | <b>16</b> |
| <b>Well No.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>1</b> | <b>2</b> | <b>3</b> | <b>4</b> | <b>5</b> | <b>6</b> | <b>7</b> | <b>8</b> | <b>9</b> | <b>10</b> | <b>11</b> | <b>12</b> | <b>13</b> | <b>14</b> | <b>15</b> | <b>16</b> |
| *06:13:02, 06:15:01-06:16, 06:19:01, 06:22:01-06:24, 06:29, 06:50, 06:51:02, 06:68-06:76, 06:79:02-06:83, 06:95-06:97, 06:119, 06:122-06:123, 06:126, 06:136, 06:138-06:139, 06:146:01-06:147, 06:150-06:152, 06:156, 06:159, 06:161-06:163, 06:166, 06:173-06:175, 06:178-06:179N, 06:182-06:183, 06:192, 06:197-06:198, 06:206:01, 06:208, 06:211, 06:213, 06:215, 06:232, 06:235-06:236, 06:249                                                                                                                                                                                                       |          |          |          |          |          |          | 7        |          |          |           | ?         |           |           |           |           |           |

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|-------------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|
| *06:84, 06:206:02 |   |   |   |   |   |   | 7 |   |   |    | w  |    |    |    |    |    |
| Well No.          | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |

[illegible]

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|----|----|----|----|----|------------------|
|    |    |    |    |    | Negative Control |
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|    |    |    |    |    |                  |
|    |    |    |    |    |                  |
| 17 | 18 | 19 | 20 | 21 | Negative Control |
| 17 | 18 | 19 | 20 | 21 |                  |
|    |    |    |    |    |                  |

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|----|----|----|----|----|
|    |    |    |    |    |
| 17 | 18 | 19 | 20 | 21 |