

UCLA INTERNATIONAL HLA DNA EXCHANGE

110TH SUMMARY



NOVEMBER 16, 2011

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 J. MICHAEL CECKA, PH.D
 ELAINE F. REED, PH.D

| DNA Sample | |
|------------|------|
| #681 | #684 |
| #682 | #685 |
| #683 | #686 |

DNA #681 CAUCASIAN

| | ALLELE | | AGREEMENT (n/total) | | SBT LABS |
|-------|--------|-------|---------------------|---------|--------------|
| | #1 | #2 | low | high | Allele level |
| A* | 01:01 | 02:01 | 202/203 | 122/123 | 91/105 |
| B* | 08:01 | 40:01 | 206/206 | 127/127 | 91/103 |
| C* | 03:04 | 07:01 | 171/172 | 111/112 | 79/99 |
| DRB1* | 03:01 | 04:04 | 203/204 | 142/142 | 92/100 |
| DRB3* | 01:01 | | 58/58 | 31/31 | 9/9 |
| DRB4* | 01:03 | | 61/61 | 33/33 | 8/9 |
| DQA1* | 03:01 | 05:01 | 80/80 | 66/66 | 6/8 |
| DQB1* | 02:01 | 03:02 | 183/184 | 137/138 | 70/72 |
| DPB1* | 04:01 | | 37/37 | 35/35 | 20/22 |
| DPA1* | 01:03 | | 12/12 | 11/11 | 0/0 |

The agreement for this sample is >98%.

This sample was previously typed as DNA #15 in 1993. This retyping updates DPA1*01 to DPA1*01:03. In 1993, DRB1*04:04 was assigned by 88%; the present typing reached 100%. Class I was typed for the first time in this sendout. A*02:01-B*08:01-C*07:01 (HF=0.01066) and A*01:01-B*40:01-C*03:04 (HF=0.00213) are the likely associations, according to the Bioinformatics website.

Discrepancies or ambiguities reported:

| | |
|------------------------|---------------------------------------|
| A*: 02:01 | Not excluded: 01:01N/4N/30/45, 02:246 |
| B*: | Not excluded: 08:19N, 40:07 |
| C*: 03:02:01 | Not excluded: 03:06/8/38, 07:06/18/40 |
| DRB1*: 04:01:01, 14:XX | Not excluded: 03:06/32/50, 04:23/42 |
| DRB3*: | Not excluded: 01:11/12 |
| DRB4*: 01:01:01:01 | Not excluded: 01:01 |
| DQA1*: | Not excluded: 03:02, 05:03 |
| DQB1*: 02:05 | Not excluded: 02:02/5, 03:32 |
| DPB1*: | Not excluded: 120:01N, 126:01 |
| DPA1*: | Not excluded: 01:10 |

DNA #682

| | ALLELE | | AGREEMENT (n/total) | | SBT LABS |
|-------|--------|-------|---------------------|---------|--------------|
| | #1 | #2 | low | high | Allele level |
| A* | 01:01 | 02:01 | 202/202 | 119/119 | 88/103 |
| B* | 14:01 | 35:01 | 191/191 | 114/114 | 77/101 |
| C* | 04:01 | 08:02 | 166/166 | 105/105 | 73/97 |
| DRB1* | 01:01 | 13:02 | 204/206 | 139/141 | 92/98 |
| DRB3* | 03:01 | | 56/62 | 38/39 | 8/8 |
| DQA1* | 01:01 | 01:02 | 77/77 | 48/48 | 5/6 |
| DQB1* | 05:01 | 06:04 | 185/187 | 131/133 | 66/70 |
| DPB1* | 01:01 | 02:01 | 79/79 | 75/75 | 42/42 |
| DPA1* | 01:03 | 02:01 | 25/25 | 23/23 | 0/0 |

The agreement for this sample is >98%.

This sample was previously typed in 1994 as DNA#46. Class I and DPA1* were typed for the first time in this sendout.

The probable class I associations, A*01:01-B*35:01-C*04:01 and A*02:01-B*14:01-C*08:02, are found in all races, but most commonly in Caucasians, according to the haplotype frequencies listed on the Bioinformatics website.

Discrepancies or ambiguities reported:

| | |
|---------------------------|--|
| A*: BLANK | Not excluded: 01:01N/4N/30/45, 02:246 |
| B*: | Not excluded: 14:14, 35:29/42/48 |
| C*: | Not excluded: 04:07/9N/10/30/82, 08:05/52N |
| DRB1*: 13:01/11:01, BLANK | Not excluded: 01:07/17/32, 13:31/73/99 |
| DRB3*: 01:01:02:01 | Not excluded: |
| DQA1*: | Not excluded: 01:01/2/4 |
| DQB1*: 06:01:01 | Not excluded: 05:07, 06:34 |
| DPB1*: | Not excluded: 123:01 |
| DPA1*: | Not excluded: 01:10 |

DNA #683 ASIAN

| | ALLELE | ALLELE | AGREEMENT (n/total) | | SBT LABS |
|-------|-----------|--------|----------------------|---------|--------------|
| | #1 | #2 | low | high | Allele level |
| A* | 11:02:01G | 24:02 | 176/182 | 93/99 | 68/103 |
| B* | 38:02 | 51:01 | 193/195 | 117/119 | 87/101 |
| C* | 07:02 | 07:63 | 153/159 | 100/106 | 76/95 |
| DRB1* | 09:01 | 16:02 | 196/199 | 135/138 | 91/98 |
| DRB4* | 01:03 | | 55/58 | 28/30 | 7/8 |
| DRB5* | 01:01 | | 55/57 | 33/33 | 7/7 |
| DQA1* | 01:02 | 03:02 | 75/75 | 46/46 | 5/6 |
| DQB1* | 03:03 | 05:02 | 175/179 | 131/134 | 67/70 |
| DPB1* | 05:01 | | 36/36 | 35/35 | 21/21 |
| DPA1* | 02:02 | | 11/11 | 10/10 | 0/0 |

The agreement for this sample is 95%.

This Asian sample was previously typed as DNA#565 in July 2008 and, recently, as extract #527 in the UCLA Cell Exchange. In 2008, C-locus consensus was C*07:02 and C*07:04 variant, which was named as C*07:63 in August 2008. C*07:63 differs from C*07:04 in exon 3 at codon 106 (G->T, Asp->Tyr). Agreement is now C*07:02 (100%) and C*07:63 (89%).

One A-locus allele was graded as A*11:02:01G due to an ambiguity between A*11:02 and A*11:53. In 2008, consensus was A*11:02 (100%). A*11:53 was formally recognized in September 2008. A*11:53 differs from A*11:02 in exon 5 at codon 276 (C->T, Pro->Leu). In this retyping, 16 labs reported A*11:02, 16 labs reported A*11:53, and 18 labs were not able to exclude either allele.

Discrepancies or ambiguities reported

| | |
|--------------------------------------|------------------------------------|
| A*: 11:01:01, 24:01 | Not excluded: 11:01/53, 24:63 |
| B*: 38:01:01 | Not excluded: 38:01/18, 51:78 |
| C*: 07:04:01/04:01G | Not excluded: 07:04/38/50/68 |
| DRB1*: 16:01:01 | Not excluded: 09:04/9/11, 16:01/17 |
| DRB4*: 3*XX, 01:01:01 | Not excluded: 01:01/8 |
| DRB5*: 02:XX, BLANK | Not excluded: 01:14 |
| DQA1*: | Not excluded: 03:01 |
| DQB1*: 02:XX, 03:15, 05:01:01, BLANK | Not excluded: 03:15/30/31 |
| DPA1*: | Not excluded: 02:04 |

DNA #684 CAUCASIAN

| | ALLELE | ALLELE | AGREEMENT (n/total) | | SBT LABS |
|-------|--------|--------|----------------------|---------|--------------|
| | #1 | #2 | low | high | Allele level |
| A* | 02:01 | 23:01 | 185/185 | 103/103 | 74/103 |
| B* | 15:03 | 57:01 | 190/190 | 115/115 | 79/101 |
| C* | 02:10 | 06:02 | 165/167 | 116/118 | 88/93 |
| DRB1* | 04:01 | 07:01 | 209/211 | 146/148 | 94/100 |
| DRB4* | 01:03 | 01:03N | 117/119 | 68/70 | 12/14 |
| DQA1* | 02:01 | 03:03 | 79/79 | 48/48 | 6/8 |
| DQB1* | 03:01 | 03:03 | 180/180 | 125/125 | 63/70 |
| DPB1* | 04:01 | 04:02 | 61/61 | 57/57 | 35/42 |
| DPA1* | 01:03 | | 10/10 | 9/9 | 0/0 |

The agreement for this sample is >98%.

This Caucasian sample contains the B*15:03-C*02:10 association, which is common in individuals of African descent, as noted in *HLA class I allele and haplotype diversity in Ugandans supports the presence of a major east African genetic cluster* (Kijak, et al. Tissue Antigens 2009 Mar;73(3):262-9). ASHI Abstract 213-P *Haplotypic Associations of Cw*0210 in African Americans and Caucasians* found that A*23:01 is likely the most common A-locus allele to be on the same haplotype with B*15:03-C*02:10 in both African Americans and Caucasians (Eliason, et al. Human Imm 2009;70,supp.1: S1-S178).

Discrepancies or ambiguities reported:

| | |
|-----------------|---|
| A*: | Not excluded: 02:60, 23:17 |
| B*: | Not excluded: 15:103/220, 57:20/22, 95:03 |
| C*: 02:02 | Not excluded: 02:02 |
| DRB1*: 04:22 | Not excluded: 07:15 |
| DRB4*: 01:01:01 | Not excluded: 01:01 |
| DQA1*: 03:01/2 | Not excluded: |
| DQB1*: | Not excluded: 03:03/19/27/31 |
| DPB1*: | Not excluded: 06:02, 105:01, 126:01, 134:01 |
| DPA1*: | Not excluded: 01:10 |

DNA #685 HISPANIC

| | ALLELE | | AGREEMENT (n/total) | | SBT LABS |
|--------------|-----------|-------|----------------------|---------|--------------|
| | #1 | #2 | low | high | Allele level |
| A* | 26:01 | 33:01 | 196/197 | 120/121 | 92/103 |
| B* | 14:02 | 51:01 | 194/196 | 116/117 | 86/101 |
| C* | 02:02 | 08:02 | 163/163 | 104/104 | 80/95 |
| DRB1* | 01:02 | 08:01 | 203/205 | 144/146 | 94/100 |
| DQA1* | 01:01 | 04:01 | 73/73 | 48/48 | 5/8 |
| DQB1* | 04:02 | 05:01 | 184/187 | 137/140 | 66/70 |
| DPB1* | 03:01:01G | | 29/29 | 28/28 | 17/22 |
| DPA1* | 01:03 | | 9/9 | 8/8 | 0/0 |

The agreement for this Hispanic sample is >98%.

The extended haplotype A*33:01-B*14:02-C*08:02-DRB1*01:02-DQB1*05:01 is common in Hispanics (HF=0.00840). The other probable association is A*26:01-B*51:01-C*02:02-DRB1*08:01-DQB1*04:02.

The DPB1 locus was graded as DPB1*03:01:01G due to an ambiguity between DPB1*03:01 and DPB1*104:01.

Discrepancies or ambiguities reported:

| | | |
|--------|--------------|---|
| A*: | 33:03 | Not excluded: 26:24, 33:27/38 |
| B*: | 39:01 | Not excluded: 14:16/27, 51:11N/21 |
| C*: | | Not excluded: 02:10/29/32, 08:29/32/52N |
| DRB1*: | 01:01:01 | Not excluded: 01:26/34, 08:16 |
| DQA1*: | | Not excluded: 01:04 |
| DQB1*: | 04:01, 05:02 | Not excluded: 04:04 |
| DPB1*: | | Not excluded: 104:01 |
| DPA1*: | | Not excluded: 01:10 |

DNA #686 HISPANIC

| | ALLELE | | AGREEMENT (n/total) | | SBT LABS |
|--------------|-----------|-------|----------------------|---------|--------------|
| | #1 | #2 | low | high | Allele level |
| A* | 11:01 | 23:01 | 184/184 | 98/98 | 70/103 |
| B* | 27:05 | 50:01 | 182/188 | 106/111 | 78/101 |
| C* | 01:02 | 05:01 | 169/169 | 109/109 | 79/95 |
| DRB1* | 01:01 | 13:03 | 201/204 | 136/138 | 88/100 |
| DRB3* | 01:01 | | 57/57 | 30/30 | 7/7 |
| DQA1* | 01:01 | 05:05 | 118/118 | 25/25 | 4/8 |
| DQB1* | 03:01 | 05:01 | 183/183 | 123/123 | 61/70 |
| DPB1* | 03:01:01G | 04:01 | 71/71 | 69/69 | 42/44 |
| DPA1* | 01:03 | | 10/10 | 9/9 | 0/0 |

Agreement for this sample is >96%.

DPB1 locus was graded as DPB1*03:01:01G (due to an ambiguity between DPB1*03:01 and DPB1*104:01) and DPB1*04:01.

The probable class II associations for this sample are DRB1*01:01-DQB1*05:01 (HF=0.04174) and DRB1*13:03-DQB1*03:01 (HF=0.01206). The probable class I associations are likely A*11:01-B*27:05-C*01:02 (HF=0.00424) and A*23:01-B*50:01-C*05:01 (HF=0.00025).

Discrepancies or ambiguities reported:

| | | |
|--------|---------------------|---------------------------------------|
| A*: | | Not excluded: 11:19/21N, 23:07N/13/17 |
| B*: | 27:03, 35:63, 55:01 | Not excluded: 27:03/13, 50:08 |
| C*: | | Not excluded: 01:43, 05:03/29 |
| DRB1*: | 03:XX, 13:01:01 | Not excluded: 01:07/10/20/32, 13:12 |
| DRB3*: | | Not excluded: 01:12 |
| DQA1*: | | Not excluded: 01:04, 05:09/10 |
| DQB1*: | | Not excluded: 03:04/19/27, 05:07 |
| DPB1*: | | Not excluded: 126:01 |
| DPA1*: | | Not excluded: 01:10 |

ACKNOWLEDGMENT:

The UCLA Immunogenetics Center expresses its thanks to the following for contributing to this Exchange: One Legacy and all organ and tissue donors and families for giving the gift of life and the gift of knowledge by their generous donation to the education and advancement of the study of HLA.

DNA #681

| CENTER | DRB1 | | DRB3/4/5 | | DQA1 | | DQB1 | | DPB1 | | DPA1 | | A-Locus | | B-Locus | | C-Locus | |
|--------|---------|---------|-----------|-----------|--------|--------|--------|---------|------------|-------|------|-------|----------|----------|----------|--------|---------|---------|
| | | | | | | | | | | | | | | | | | | |
| 7 | 03 | 04 | 301 | 401 | 03 | 05 | 02 | 03 | | | | | 01 | 02 | 08 | 40 | 03 | 07 |
| 16 | 0301 | 040401 | 30101/11 | 40103 | 0301 | 0501 | 0201 | 0302/32 | 040101G | BLANK | 0103 | BLANK | 010101 | 020101 | 0801 | 4001 | 0304 | 0701/18 |
| 80 | 03 | 04 | 301 | 401 | 0301 | 0501 | 0201 | 03 | | | | | 01 | 02 | 08 | 40 | 03 | 07 |
| 124 | 0301 | 0404 | 30101 | 401 | 0301 | 0501 | 0201 | 0302 | 0401/12601 | BLANK | | | 01 | 02 | 0801/19N | 40 | 03 | 07 |
| 134 | 0301 | 0404 | 30101 | 40103 | | | 0201 | 0302 | 0401 | BLANK | | | 0101 | 0201 | 0801 | 4001 | 0304 | 0701 |
| 138 | 0301 | 0404 | 301 | 401 | 03 | 05 | 0201 | 0302 | 0401 | BLANK | | | 0101 | 0201 | 0801 | 4001 | 0304 | 0701 |
| 139 | | | | | | | | | | | | | | | | | | |
| 142 | 03 | 04 | 301 | 401 | | | 02 | 03 | | | | | 01 | 02 | 08 | 40 | | |
| 144 | 0301 | 0404 | | | 0301 | 0501 | 0201 | 0302 | | | | | 0101 | 0201 | 0801 | 4001 | 0304 | 070101G |
| 147 | | | | | | | | | | | | | | | | | | |
| 148 | 0301 | 0404 | 30101 | 40103 | | | 0201 | 0302 | 040101G | BLANK | | | 0101 | 0201 | 0801 | 4001 | 0304 | 0701 |
| 151 | 0301 | 0404 | | | | | | | | | | | 0101 | 0201 | 0801 | 4001 | | |
| 152 | 03 | 04 | | | | | | | | | | | 01 | 02 | 08 | 40 | | |
| 155 | | | | | | | | | | | | | | | | | | |
| 156 | 0301 | 0404 | | | | | 0201 | 0302 | | | | | 0101 | 0201 | 0801 | 4001 | 0304 | 0701 |
| 158 | 0301/50 | 0404 | 30101 | 40103 | 0301 | 0501 | 0201 | 0302 | 0401 | BLANK | | | 0101 | 0201 | 0801 | 4001 | 0304 | 0701 |
| 160 | 0301 | 0404 | 30101 | 40103 | | | 0201 | 0302 | | | | | 0101 | 0201 | 0801 | 4001 | 0304 | 0701 |
| 162 | 030101 | 0404 | | | | | 020101 | 030201 | | | | | 010101 | 020101 | 080101 | 400102 | 030401 | 070101 |
| 164 | 03 | 04 | | | | | | | | | | | 01 | 02 | 08 | 40 | | |
| 167 | | | | | | | | | | | | | | | | | | |
| 168 | 03 | 04 | | | | | | | | | | | 01 | 02 | 08 | 40 | | |
| 173 | 0301/50 | 0404/23 | | | 0301/2 | 0501/3 | 0201/2 | 0302 | | | | | 01 | 02 | 08 | 40 | | |
| 174 | | | | | | | | | | | | | | | | | | |
| 175 | 030101 | 040401 | | | | | 0201 | 0302 | | | | | 0101 | 0201 | 0801 | 4001 | 0304 | 0701 |
| 176 | | | | | | | | | | | | | | | | | | |
| 179 | 0301/6 | 0404/42 | 30101 | 40103 | 03 | 05 | 02 | 0302 | | | | | 01 | 02 | 08 | 40 | 03 | 07 |
| 180 | | | | | | | | | | | | | | | | | | |
| 185 | 030101G | 040401 | | | | | 020101 | 030201 | | | | | 0101 | 0201 | 08 | 40 | 0304/38 | 0701/40 |
| 186 | | | | | | | | | | | | | | | | | | |
| 187 | 0301/6 | 0404/42 | | | | | 0201 | 0302 | | | | | 0101/30 | 0201/246 | 0801 | 4001 | 0304/8 | 0701/18 |
| 188 | 0301 | 0404 | | | | | | | | | | | | | | | | |
| 189 | 0301 | 0404 | 30101/11 | 40103/1 | 0301 | 0501 | 0201 | 0302/32 | 0401/12601 | BLANK | 0103 | BLANK | 0101 | 0201 | 0801 | 4001 | 0304 | 0701 |
| 190 | 03 | 04 | 3 | 4 | | | 02 | 03 | | | | | 01 | 02 | 08 | 40 | 03 | 07 |
| 192 | 0301 | 0404 | 30101 | 40103 | | | 0201 | 0302 | 0401 | BLANK | | | 0101 | 0201 | 0801 | 4001 | 0304 | 0701 |
| 193 | | | | | | | | | | | | | | | | | | |
| 195 | 0301 | 0404 | 30101 | 40103 | 0301 | 0501 | 0201 | 0302 | 0401 | BLANK | | | 0101 | 0201 | 0801 | 4001 | 0304 | 0701 |
| 199 | 14 | 04 | 3 | 4 | | | 02 | 03 | | | | | | | | | | |
| 200 | | | | | | | | | | | | | | | | | | |
| 201 | | | | | | | | | | | | | | | | | | |
| 205 | 0301 | 0404 | 30101 | 40103 | 0301 | 0501 | 0201 | 0302 | 0401 | BLANK | 0103 | BLANK | 0101 | 0201 | 0801 | 4001 | 0304 | 0701 |
| 206 | 03 | 04 | | | | | | | | | | | 01 | 02 | 08 | 40 | | |
| 207 | 0301 | 0404 | 30101 | 40103 | | | 0201 | 0302 | 0401 | BLANK | | | 0101 | 0201 | 0801 | 4001 | 0304 | 07 |
| 208 | 0301 | 0404 | | | | | | | | | | | 0101/4N | 0201 | 0801 | 4001 | | |
| 209 | 03 | 04 | 3 | 4 | | | | | 0401 | BLANK | | | 01 | 02 | 08 | 40 | 03 | 07 |
| 210 | | | | | | | | | | | | | | | | | | |
| 211 | | | | | | | | | | | | | | | | | | |
| 212 | | | | | | | | | | | | | | | | | | |
| 213 | 0301 | 0404 | | | | | 0201 | 0302/32 | | | | | 0101 | 0201 | 0801 | 4001 | 0304 | 0701 |
| 214 | | | | | | | | | | | | | 01 | 02 | 08 | 40 | 03 | 07 |
| 215 | NT | NT | NT | NT | | | | | | | | | NT | NT | NT | NT | NT | NT |
| 216 | | | | | | | | | | | | | | | | | | |
| 218 | 0301 | 0404 | | | | | 0201 | 0302 | | | | | 0101 | 0201 | 0801 | 4001 | 0304 | 0701 |
| 220 | | | | | | | | | | | | | | | | | | |
| 222 | 03 | 04 | 301 | 401 | | | 02 | 03 | | | | | 01 | 02 | 08 | 40 | | |
| 224 | 03 | 04 | 301 | 401 | | | 02 | 03 | | | | | 01 | 02 | 08 | 40 | | |
| 225 | 03 | 040101 | 301010201 | 401010101 | | | 020101 | 030201 | | | | | 01010101 | 02010101 | 080101 | 400101 | 030201 | 070101 |
| 226 | 03 | 04 | | | 03 | 05 | 02 | 03 | | | | | 01 | 02 | 08 | 40 | 03 | 07 |
| 227 | 0301 | 0404 | | | | | 020101 | 030201 | | | | | 0101 | 0201 | 0801 | 4001 | 030401 | 0701 |
| 228 | 0301 | 0404 | 30101 | 40103 | | | 0205 | 0302 | | | | | | | | | | |
| 229 | 0301 | 0404 | 30101 | 40103 | 0301 | 0501 | 0201 | 0302 | 0401 | BLANK | 0103 | BLANK | 0101 | 0201 | 0801 | 4001 | 0304 | 0701 |
| 230 | 0301 | 0404 | 30101 | 40103 | 03 | 05 | 0201 | 0302 | 0401 | BLANK | | | 0101 | 0201 | 0801 | 4001 | 0304 | 0701 |
| 232 | 03 | 04 | | | | | 02 | 03 | | | | | 01 | 02 | 08 | 40 | 03 | 07 |
| 234 | 03 | 04 | | | 0301 | 0501 | 02 | 03 | 0401 | BLANK | | | 01 | 02 | 08 | 40 | 03 | 07 |
| 235 | 03 | 04 | 3 | 4 | | | 02 | 03 | | | | | 01 | 02 | 08 | 40 | 03 | 07 |
| 236 | | | | | | | | | | | | | | | | | | |
| 237 | 03 | 04 | | | | | 02 | 03 | | | | | 01 | 02 | 08 | 40 | | |
| 238 | 0301 | 0404 | | | | | | | | | | | | | | | | |
| 239 | 0301/32 | 0404 | 30101 | 40103 | 0301 | 0501 | 0201/5 | 0302/32 | 0401 | BLANK | 0103 | BLANK | 01 | 02 | 08 | 40 | 03 | 07 |
| 240 | 0301 | 0404 | | | 0301 | 0501 | 0201 | 0302 | | | | | 0101 | 0201 | 0801 | 4001 | 0304 | 0701 |
| 242 | | | | | | | | | | | | | | | | | | |
| 244 | | | | | | | | | | | | | | | | | | |
| 246 | 0301 | 0404 | | | | | 02 | 03 | | | | | | | | | | |
| 247 | 0301 | 0404 | | | 0301 | 0501 | 0201 | 0302 | | | | | | | | | | |
| 249 | 030101 | 040401 | | | | | 020101 | 030201 | 040101 | BLANK | | | 010101 | 020101 | 080101 | 400102 | 030401 | 070101 |
| 250 | 03 | 04 | 3 | 4 | | | 02 | 03 | | | | | 01 | 02 | 08 | 40 | | |

DNA #681

| CENTER | DRB1 | | DRB3/4/5 | | DQA1 | | DQB1 | | DPB1 | | DPA1 | | A-Locus | | B-Locus | | C-Locus | |
|--------|---------|---------|----------|----------|------|------|--------|---------|-------------|-------|---------|-------|---------|---------|---------|--------|---------|---------|
| | | | | | | | | | | | | | | | | | | |
| 251 | NT | NT | NT | NT | | | NT | NT | | | | | NT | NT | NT | NT | | |
| 252 | 0301 | 04 | 3 | 4 | | | 02 | 0302 | | | | | 01 | 02 | 08 | 4001/7 | 03 | 07 |
| 255 | 03 | 04 | | | | | | | | | | | 01 | 02 | 08 | 40 | | |
| 257 | | | | | | | | | | | | | | | | | | |
| 258 | 0301 | 040401 | | | | | 020101 | 030201 | | | | | 010101 | 0201 | 080101 | 4001 | 030401 | 070101 |
| 259 | 0301 | 0401 | | | | | 0201 | 0302 | | | | | 0201 | 0201 | 0801 | 4001 | | |
| 260 | 0301 | 0404 | 3 | 4 | | | 02 | 03 | | | | | 01 | 02 | 08 | 40 | 03 | 07 |
| 262 | | | | | | | | | | | | | | | | | | |
| 278 | 0301 | 0404 | 30101 | 40103 | 0301 | 0501 | 0201 | 0302 | 0401 | BLANK | 0103 | BLANK | 0101 | 0201 | 0801 | 4001 | 0304 | 0701 |
| 401 | | | | | | | | | | | | | 0101 | 0201 | 0801 | 4001 | 0304 | 0701 |
| 452 | 0301 | 0404 | 30101 | 40103 | | | 0201 | 0302 | 0401 | BLANK | | | 0101 | 0201 | 0801 | 4001 | 0304 | 0701 |
| 519 | | | | | | | | | | | | | | | | | | |
| 615 | 030101G | 0401 | 3010102G | 4010101G | | | 0201 | 0302 | 040101G | BLANK | | | 01 | 02 | 08 | 40 | 03 | 07 |
| 616 | 03 | 04 | | | | | | | | | | | 01 | 02 | 08 | 40 | 03 | 07 |
| 635 | 03 | 04 | 3 | 4 | | | 02 | 03 | | | | | 01 | 02 | 08 | 40 | 03 | 07 |
| 702 | 0301 | 0404 | 30101 | 40103 | 0301 | 0501 | 0201 | 0302 | 0401 | BLANK | | | 0101 | 0201 | 0801 | 4001 | 0304 | 0701 |
| 714 | 0301 | 0404 | | | | | 0201 | 0302 | | | | | 0101 | 0201 | 0801 | 4001 | 0304 | 0701 |
| 726 | 0301 | 0404 | 301 | 401 | | | 0201 | 0302 | | | | | 0101 | 0201 | 0801 | 4001 | 0304 | 0701 |
| 732 | 0301 | 040401 | 30101 | 40103 | | | 020101 | 030201 | | | | | 010101 | 020101 | 080101 | 4001 | 030401 | 07 |
| 769 | 0301 | 0404 | 30101 | 40103 | | | 0201 | 0302 | 040101G | BLANK | | | 0101 | 0201 | 0801 | 4001 | 0304 | 0701 |
| 805 | 0301 | 0404 | | | | | 0201 | 0302 | | | | | 0101 | 0201 | 0801 | 4001 | 0304 | 070101G |
| 1113 | 0301 | 0404 | 30101 | 40103 | 0301 | 0501 | 0201 | 0302 | 0401/12601 | BLANK | | | 0101 | 0201 | 0801 | 4001 | 0304 | 0701 |
| 1189 | 0301/50 | 0404 | 30101 | 40103 | | | 0201 | 0302 | 0401 | BLANK | | | 0101 | 0201 | 0801 | 4001 | 0304 | 0701 |
| 1212 | 0301 | 0404/23 | 30101 | 40103 | | | 0201 | 0302 | 0401/12001N | BLANK | | | 0101 | 0201 | 0801 | 4001 | 0304 | 0701 |
| 1251 | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| 1498 | | | | | | | | | | | | | | | | | | |
| 1647 | 03 | 04 | 3 | 4 | | | 02 | 03 | | | | | 01 | 02 | 08 | 40 | 03 | 07 |
| 1686 | 0301 | 0404 | 30101 | 40103 | 0301 | 0501 | 0201 | 0302 | 0401 | BLANK | 0103 | BLANK | 0101/45 | 0201 | 0801 | 4001 | 0304 | 0701 |
| 1905 | 0301 | 0404 | 30101/12 | 40103 | | | 0201 | 0302 | 0401P | BLANK | | | 0101 | 0201 | 0801 | 4001 | 0304 | 0701 |
| 2004 | 0301 | 0404 | 30101 | 40103 | 0301 | 0501 | 0201 | 0302 | | | | | 0101 | 0201 | 0801 | 4001 | 0304 | 0701 |
| 2013 | 0301 | 0404 | 301 | 401 | | | 0201 | 0302 | | | | | 0101 | 0201 | 0801 | 4001 | 0304 | 0701 |
| 2015 | | | | | | | | | | | | | 010101 | 020101 | 0801 | 4001 | 0304 | 0701 |
| 2063 | | | | | | | | | | | | | | | | | | |
| 2347 | 0301 | 0404 | 3 | 4 | 03 | 05 | 0201 | 0302 | 040101G | BLANK | 0103 | BLANK | 0101 | 0201 | 0801 | 4001 | 0304 | 070101G |
| 2411 | 0301 | 0404 | | | | | 0201 | 0302 | | | | | 0101 | 0201 | 0801 | 4001 | 0304 | 0701 |
| 2518 | 03 | 04 | NT | NT | 0301 | 0501 | 0201 | 03 | 0401 | BLANK | 0103 | BLANK | 01 | 02 | 08 | 40 | 03 | 07 |
| 2549 | 0301 | 0404 | 30101/12 | 40103 | 0301 | 0501 | 0201 | 030201G | 040101G | BLANK | | | 0101 | 0201 | 0801 | 4001 | 0304 | 0701 |
| 3248 | | | | | | | | | | | | | | | | | | |
| 3261 | | | | | | | | | | | | | 0101 | 0201 | 0801 | 4001 | 0304 | 0701 |
| 3264 | 03 | 04 | | | NT | NT | 02 | 03 | NT | NT | | | 01 | 02 | 08 | 40 | 03 | 07 |
| 3324 | 0301 | 0404 | 301 | 401 | 0301 | 0501 | 0201 | 0302 | 0401 | BLANK | | | 0101 | 0201 | 0801 | 4001 | 0304 | 0701/6 |
| 3325 | 0301 | 0404 | 30101 | 40103 | 0301 | 0501 | 0201 | 0302 | | | | | 0101 | 0201 | 0801 | 4001 | 0304 | 0701 |
| 3410 | 0301 | 0404 | | | | | 0201 | 0302 | | | | | 0101 | 0201 | 0801 | 4001 | 0304 | 0701 |
| 3438 | 0301 | 0404 | | | | | 0201 | 0302 | | | | | 0101 | 0201 | 0801 | 4001 | 0304 | 0701/6 |
| 3522 | | | | | | | | | | | | | | | | | | |
| 3582 | | | | | | | | | | | | | | | | | | |
| 3614 | 0301 | 0404/23 | | | 0301 | 0501 | 0201 | 0302 | | | | | 0101 | 0201 | 0801 | 4001 | 0304 | 0701 |
| 3625 | 0301 | 0404 | 3 | 4 | | | 0201 | 0302 | 0401 | BLANK | | | 0101 | 0201 | 0801 | 4001 | 03 | 0701 |
| 3807 | 03 | 04 | 301 | 40103 | 0301 | 0501 | 0201 | 03 | 0401 | BLANK | 0103/10 | BLANK | 01 | 02 | 08 | 40 | 03 | 07 |
| 3849 | 0301 | 0404 | 301 | 401 | 0301 | 0501 | 0201 | 0302 | | | | | 01 | 02 | 08 | 40 | 03 | 07 |
| 4237 | 0301 | 040401 | 30101 | 40103 | | | 0201 | 0302P | | | | | 0101 | 0201 | 080101 | 4001 | 0304 | 0701 |
| 4281 | | | | | | | | | | | | | | | | | | |
| 4420 | 0301 | 0404 | | | | | | | | | | | 0101 | 0201 | 0801 | 4001 | 0304/6 | 07 |
| 4545 | 0301 | 0404 | 301 | 401 | 0301 | 0501 | 0201 | 0302 | 040101G | BLANK | | | 0101/1N | 0201 | 0801 | 4001 | 0304 | 070101G |
| 4551 | 0301 | 0404/23 | NT | NT | NT | NT | 0201 | 0302/32 | NT | NT | | | 01 | 02 | 08 | 40 | 03 | 07 |
| 4585 | 03 | 04 | | | 0301 | 0501 | 0201 | 0302 | | | | | 01 | 02 | 08 | 40 | 03 | 07 |
| 4613 | | | | | | | | | | | | | | | | | | |
| 4653 | 0301 | 0404 | | | 0301 | 0501 | 0201 | 0302/32 | | | | | 01 | 02 | 08 | 40 | 03 | 07 |
| 4709 | 0301 | 0404 | 30101 | 40103 | 0301 | 0501 | 0201 | 0302 | 0401 | BLANK | | | 0101 | 0201 | 0801 | 4001 | 0304 | 0701 |
| 5204 | 0301 | 0404 | | | | | 0201 | 0302 | | | | | 010101G | 020101G | 0801 | 4001 | 0304 | 070101G |
| 5982 | | | | | | | | | | | | | | | | | | |
| 6051 | 0301 | 0404 | | | 0301 | 0501 | 0201 | 0302 | 0401 | BLANK | 0103 | BLANK | 01 | 02 | 08 | 4001 | 0304 | 0701 |
| 6313 | 0301 | 0404 | | | | | 0201 | 0302 | | | | | 0101 | 0201 | 0801 | 4001 | 0304 | 0701 |
| 9221 | 03 | 04 | 3 | 4 | 0301 | 0501 | 02 | 03 | 04 | BLANK | | | 01 | 02 | 08 | 40 | 03 | 07 |
| 197H | 0301 | 0404 | | | | | 0201 | 0302 | 0401 | BLANK | | | 0101 | 0201 | 0801 | 4001 | 0304 | 070101G |
| 197L | 03 | 04 | 301 | 401 | 0301 | 0501 | 0201 | 03 | | | | | 01 | 02 | 08 | 40 | 03 | 07 |
| 4582H | 0301 | 0404 | 30101 | 401 | 0301 | 0501 | 0201 | 0302 | 0401 | BLANK | 0103 | BLANK | 0101 | 0201 | 0801 | 4001 | 0304 | 0701 |
| 4582L | 03 | 04 | 301 | 401 | 03 | 05 | 02 | 03 | 04 | BLANK | 01 | BLANK | 01 | 02 | 08 | 40 | 03 | 07 |
| 5720H | 0301 | 040401 | 3010102 | 40103 | | | 020101 | 030201 | 040101 | BLANK | | | 010101G | 020101 | 080101 | 4001 | 030401 | 0701 |
| 5720L | 03 | 04 | 301 | 401 | | | 02 | 03 | | | | | 01 | 02 | 08 | 40 | 03 | 07 |

DNA #682

| CENTER | DRB1 | | DRB3/4/5 | | DQA1 | | DQB1 | | DPB1 | | DPA1 | | A-Locus | | B-Locus | | C-Locus | |
|--------|---------|---------|-----------|-------|--------|--------|--------|---------|--------|--------|------|------|----------|----------|---------|---------|----------|----------|
| | 01 | 13 | 301 | BLANK | 01 | 01 | 05 | 06 | 010101 | 020102 | 0103 | 0201 | 01 | 02 | 14 | 35 | 04 | 08 |
| 7 | 010101 | 130201 | 30301 | BLANK | 0101P | 0102 | 0501 | 0604P | 010101 | 020102 | 0103 | 0201 | 010101 | 020101 | 140101 | 3501/42 | 0401/82 | 0802 |
| 16 | 01 | 13 | 30301 | BLANK | 01 | 0102 | 0501 | 06 | | | | | 01 | 02 | 14 | 35 | 04 | 08 |
| 80 | 0101 | 1302 | 30301 | BLANK | 01 | 0102 | 0501 | 0604 | 0101 | 0201 | | | 01 | 02 | 1401 | 35 | 04 | 0802/52N |
| 124 | 0101 | 1302 | 30301 | BLANK | | | 0501 | 0604 | 0101 | 0201 | | | 0101 | 0201 | 1401 | 3501 | 0401 | 0802 |
| 134 | 0101 | 1302 | 30301 | BLANK | | | 0501 | 0604 | 0101 | 0201 | | | 0101 | 0201 | 1401 | 3501 | 0401 | 0802 |
| 138 | 0101 | 1302 | 301 | BLANK | 01 | 01 | 0501 | 0604 | 0101 | 0201 | | | 0101 | 0201 | 1401 | 3501 | 0401 | 0802 |
| 139 | | | | | | | | | | | | | | | | | | |
| 142 | 01 | 13 | 301 | BLANK | | | 05 | 06 | | | | | 01 | 02 | 14 | 35 | | |
| 144 | 0101 | 1302 | | | 01 | 0102 | 0501 | 0604 | | | | | 0101 | 0201 | 1401 | 3501 | 0401/30 | 0802 |
| 147 | | | | | | | | | | | | | | | | | | |
| 148 | 0101 | 1302 | 30301 | BLANK | | | 0501 | 0604 | 0101 | 0201 | | | 0101 | 0201 | 1401 | 350101G | 0401/82 | 0802 |
| 151 | 0101 | 1302 | | | | | | | | | | | 0101 | 0201 | 1401 | 3501 | | |
| 152 | 01 | 13 | | | | | | | | | | | 01 | 02 | 14 | 35 | | |
| 155 | | | | | | | | | | | | | | | | | | |
| 156 | 0101 | 1302 | | | | | 0501 | 0604 | | | | | 0101 | 0201 | 1401 | 3501 | 0401 | 0802 |
| 158 | 0101 | 1302 | 30301 | BLANK | 01 | 0102 | 0501 | 0604 | 0101 | 0201 | | | 0101 | 0201 | 1401 | 3501 | 0401 | 0802 |
| 160 | 0101 | 1302 | 30301 | BLANK | | | 0501 | 0604 | | | | | 0101 | 0201 | 1401 | 3501 | 0401 | 0802 |
| 162 | 010101 | 130201 | | | | | 050101 | 060401 | | | | | 010101 | 020101 | 140101 | 350101 | 0401 | 0802 |
| 164 | 01 | 13 | | | | | | | | | | | 01 | 02 | 14 | 35 | | |
| 167 | | | | | | | | | | | | | | | | | | |
| 168 | 01 | 13 | | | | | | | | | | | 01 | 02 | 14 | 35 | | |
| 173 | 0101/32 | 1302/99 | | | 0101/4 | 0102 | 0501 | 0604/34 | | | | | 01 | 02 | 14 | 35 | | |
| 174 | | | | | | | | | | | | | | | | | | |
| 175 | 010101 | 130201 | | | | | 0501 | 0604 | | | | | BLANK | 0201 | 1401 | 3501 | 0401 | 0802 |
| 176 | | | | | | | | | | | | | | | | | | |
| 179 | 01 | 13 | 30301 | BLANK | 01 | 0102 | 0501 | 06 | | | | | 01 | 02 | 1401/14 | 35 | 04 | 08 |
| 180 | | | | | | | | | | | | | | | | | | |
| 185 | 010101 | 130201 | | | | | 050101 | 06 | | | | | 0101 | 0201 | 1401/14 | 3501/29 | 0401/10 | 0802/5 |
| 186 | | | | | | | | | | | | | | | | | | |
| 187 | 0101/7 | 1302 | | | | | 0501 | 0604 | | | | | 0101/30 | 0201/246 | 1401/14 | 3501/29 | 0401/9N | 0802/5 |
| 188 | 0101 | 1302 | | | | | | | | | | | | | | | | |
| 189 | 0101 | 1302 | 30301 | BLANK | 01 | 0102 | 0501 | 0604 | 0101 | 0201 | 0103 | 0201 | 0101 | 0201 | 1401 | 3501/42 | 0401 | 0802 |
| 190 | 01 | 13 | 3 | BLANK | | | 05 | 06 | | | | | 01 | 02 | 14 | 35 | 04 | 08 |
| 192 | 0101 | 1302 | 30301 | BLANK | | | 0501 | 0604 | 0101 | 0201 | | | 0101 | 0201 | 1401 | 3501 | 0401 | 0802 |
| 193 | | | | | | | | | | | | | | | | | | |
| 195 | 0101 | 1302 | 30301 | BLANK | 0101 | 0102 | 0501 | 0604 | 0101 | 0201 | | | 0101 | 0201 | 1401 | 3501 | 0401 | 0802 |
| 199 | BLANK | 13 | 3 | BLANK | | | 05 | 06 | | | | | | | | | | |
| 200 | | | | | | | | | | | | | | | | | | |
| 201 | | | | | | | | | | | | | | | | | | |
| 205 | 0101 | 1302 | 30301 | BLANK | 0101 | 0102 | 0501 | 0604 | 0101 | 0201 | 0103 | 0201 | 0101 | 0201 | 1401 | 3501 | 0401 | 0802 |
| 206 | 01 | 13 | | | | | | | | | | | 01 | 02 | 14 | 35 | | |
| 207 | 0101 | 1302 | 30301 | BLANK | | | 0501 | 0604 | 0101 | 0201 | | | 0101 | 0201 | 1401 | 3501/42 | 0401/82 | 0802 |
| 208 | 0101/7 | 1302 | | | | | | | | | | | 0101/4N | 0201 | 1401 | 3501/42 | | |
| 209 | 01 | 13 | 3 | BLANK | | | | | 0101 | 0201 | | | 01 | 02 | 14 | 35 | 04 | 08 |
| 210 | | | | | | | | | | | | | | | | | | |
| 211 | | | | | | | | | | | | | | | | | | |
| 212 | | | | | | | | | | | | | | | | | | |
| 213 | 0101 | 1302 | | | | | 0501 | 06 | | | | | 0101 | 0201 | 1401 | 3501/42 | 0401 | 0802 |
| 214 | | | | | | | | | | | | | 01 | 02 | 14 | 35 | 04 | 08 |
| 215 | 01 | 13 | 3 | BLANK | | | | | | | | | 01 | 02 | 14 | 35 | 04 | 08 |
| 216 | | | | | | | | | | | | | | | | | | |
| 218 | 0101 | 1302 | | | | | 0501 | 0604 | | | | | 0101 | 0201 | 1401 | 3501 | 0401 | 0802 |
| 220 | | | | | | | | | | | | | | | | | | |
| 222 | 01 | 13 | 301 | BLANK | | | 05 | 06 | | | | | 01 | 02 | 14 | 35 | | |
| 224 | 01 | 13 | 301 | BLANK | | | 05 | 06 | | | | | 01 | 02 | 14 | 35 | | |
| 225 | 010101 | 131101 | 301010201 | BLANK | | | 050101 | 060101 | | | | | 01010101 | 02010101 | 1401 | 350101 | 04010101 | 0802 |
| 226 | 01 | 13 | | | 01 | 01 | 05 | 06 | | | | | 01 | 02 | 14 | 35 | 04 | 08 |
| 227 | 010101 | 130201 | | | | | 050101 | 060401 | | | | | 0101 | 0201 | 1401 | 3501 | 0401 | 0802 |
| 228 | 0101 | 1302 | 30301 | BLANK | | | 0501 | 0604 | | | | | | | | | | |
| 229 | 0101 | 1302 | 30301 | BLANK | 0101 | 0102 | 0501 | 0604 | 0101 | 0201 | 0103 | 0201 | 0101 | 0201 | 1401 | 3501 | 0401 | 0802 |
| 230 | 0101 | 1302 | 30301 | BLANK | 01 | 01 | 0501 | 0604 | 0101 | 0201 | | | 0101 | 0201 | 1401 | 3501 | 0401 | 0802 |
| 232 | 01 | 13 | | | | | 05 | 06 | | | | | 01 | 02 | 14 | 35 | 04 | 08 |
| 234 | 01 | 13 | | | 0101 | 0102 | 05 | 06 | 0101 | 0201 | | | 01 | 02 | 14 | 35 | 04 | 08 |
| 235 | 01 | 13 | 3 | BLANK | | | 05 | 06 | | | | | 01 | 02 | 14 | 35 | 04 | 08 |
| 236 | | | | | | | | | | | | | | | | | | |
| 237 | 01 | 13 | | | | | 05 | 06 | | | | | 01 | 02 | 14 | 35 | | |
| 238 | 0101 | 1302 | | | | | | | | | | | | | | | | |
| 239 | 0101/17 | 1302/73 | 30301 | BLANK | 0101/2 | 0102/1 | 0501/7 | 0604/34 | 0101 | 0201 | 0103 | 0201 | 01 | 02 | 14 | 35 | 04 | 08 |
| 240 | 0101 | 1302 | | | 0101 | 0102 | 0501 | 0604 | | | | | 0101 | 0201 | 1401 | 3501 | 0401 | 0802 |
| 242 | | | | | | | | | | | | | | | | | | |
| 244 | | | | | | | | | | | | | | | | | | |
| 246 | 0101 | 1302 | | | | | 05 | 06 | | | | | | | | | | |
| 247 | 0101 | 1302 | | | 0101 | 0102 | 0501 | 0604 | | | | | | | | | | |
| 249 | 010101 | 130201 | | | | | 050101 | 060401 | 010101 | 020102 | | | 010101 | 020101 | 140101 | 350101 | 040101 | 080201 |
| 250 | 01 | 13 | 3 | BLANK | | | 05 | 06 | | | | | 01 | 02 | 14 | 35 | | |

DNA #682

| CENTER | DRB1 | | DRB3/4/5 | | DQA1 | | DQB1 | | DPB1 | | DPA1 | | A-Locus | | B-Locus | | C-Locus | |
|--------|---------|---------|----------|-------|------|------|--------|---------|--------|------------|---------|------|---------|---------|---------|---------|---------|--------|
| 251 | NT | NT | NT | NT | | | NT | NT | | | | | NT | NT | NT | NT | | |
| 252 | 01 | 13 | 3 | BLANK | | | 05 | 06 | | | | | 01 | 02 | 1401 | 35 | 04 | 08 |
| 255 | 01 | 13 | | | | | | | | | | | 01 | 02 | 14 | 35 | | |
| 257 | | | | | | | | | | | | | | | | | | |
| 258 | 0101 | 130201 | | | | | 050101 | 060401 | | | | | 010101 | 0201 | 140101 | 350101 | 040101 | 080201 |
| 259 | 0101 | 1301 | | | | | 0501 | 0601 | | | | | 0101 | 0201 | 1401 | 3501 | | |
| 260 | 0101 | 1302 | 3 | BLANK | | | 05 | 06 | | | | | 01 | 02 | 14 | 35 | 04 | 08 |
| 262 | | | | | | | | | | | | | | | | | | |
| 278 | 0101 | 1302 | 30301 | BLANK | 01 | 0102 | 0501 | 0604 | 0101 | 0201 | 0103 | 0201 | 0101 | 0201 | 1401 | 3501 | 0401 | 0802 |
| 401 | | | | | | | | | | | | | 0101 | 0201 | 1401 | 3501/42 | 0401 | 0802 |
| 452 | 0101 | 1302 | 30301 | BLANK | | | 0501 | 0604 | 0101 | 0201 | | | 0101 | 0201 | 1401 | 3501 | 0401 | 0802 |
| 519 | | | | | | | | | | | | | | | | | | |
| 615 | 0101 | 1302 | 3030101G | BLANK | | | 0501 | 060401G | 0101 | 0201 | | | | | | | | |
| 616 | 01 | 13 | | | | | | | | | | | 01 | 02 | 14 | 35 | 04 | 08 |
| 635 | 01 | 13 | 3 | BLANK | | | 05 | 06 | | | | | 01 | 02 | 14 | 35 | 04 | 08 |
| 702 | 0101 | 1302 | 30301 | BLANK | 0101 | 0102 | 0501 | 0604 | 0101 | 0201 | | | 0101 | 0201 | 1401 | 3501 | 0401 | 0802 |
| 714 | 0101 | 1302 | | | | | 0501 | 0604 | | | | | 0101 | 0201 | 1401 | 3501 | 0401 | 0802 |
| 726 | 0101 | 1302 | 303 | BLANK | | | 0501 | 0604 | | | | | 0101 | 0201 | 1401 | 3501 | 0401 | 0802 |
| 732 | 010101 | 130201 | 30301 | BLANK | | | 050101 | 06 | | | | | 010101 | 020101 | 140101 | 3501/42 | 04 | 08 |
| 769 | 0101 | 1302 | 30301 | BLANK | | | 0501 | 0604 | 0101 | 0201 | | | 0101 | 0201 | 1401 | 3501 | 0401/82 | 0802 |
| 805 | 0101 | 1302 | | | | | 0501 | 0604 | | | | | 0101 | 0201 | 1401 | 3501 | 0401 | 0802 |
| 1113 | 0101 | 1302 | 30301 | BLANK | 01 | 0102 | 0501 | 0604 | 0101 | 0201 | | | 0101 | 0201 | 1401 | 3501/42 | 0401 | 0802 |
| 1189 | 0101 | 1302 | 30301 | BLANK | | | 0501 | 0604 | 0101 | 0201 | | | 0101 | 0201 | 1401 | 3501 | 0401 | 0802 |
| 1212 | 0101 | 1302 | 30301 | BLANK | | | 0501 | 0604 | 0101 | 0201/12301 | | | 0101 | 0201 | 1401 | 3501 | 0401 | 0802 |
| 1251 | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| 1498 | | | | | | | | | | | | | | | | | | |
| 1647 | 01 | 13 | 3 | BLANK | | | 05 | 06 | | | | | 01 | 02 | 14 | 35 | 04 | 08 |
| 1686 | 0101 | 1302 | 30301 | BLANK | 0101 | 0102 | 0501 | 0604 | 0101 | 0201 | 0103 | 0201 | 0101/45 | 0201 | 1401 | 3501 | 0401 | 0802 |
| 1905 | 0101 | 1302 | 30301 | BLANK | | | 0501 | 0604 | 0101 | 0201 | | | 0101 | 0201 | 1401 | 3501 | 0401 | 0802 |
| 2004 | 0101 | 1302 | 30301 | BLANK | 0101 | 0102 | 0501 | 0604 | | | | | 0101 | 0201 | 1401 | 3501 | 0401 | 0802 |
| 2013 | 0101 | 1302 | 303 | BLANK | | | 05 | 06 | | | | | 0101 | 0201 | 1401 | 3501 | 0401 | 0802 |
| 2015 | | | | | | | | | | | | | 0101 | 0201 | 140101 | 350101 | 0401 | 0802 |
| 2063 | | | | | | | | | | | | | | | | | | |
| 2347 | 0101 | 1302 | 3 | BLANK | 01 | 01 | 0501 | 0604 | 0101 | 0201 | 0103 | 0201 | 0101 | 0201 | 1401 | 350101G | 040101G | 0802 |
| 2411 | 0101 | 1302 | | | | | 0501 | 0604 | | | | | 0101 | 0201 | 1401 | 3501 | 0401 | 0802 |
| 2518 | 01 | 13 | NT | NT | 01 | 0102 | 0501 | 06 | 0101 | 0201 | 0103 | 0201 | 01 | 02 | 14 | 35 | 04 | 08 |
| 2549 | 0101 | 1302 | 30301 | BLANK | 0101 | 0102 | 0501 | 060401G | 0101 | 0201 | | | 0101 | 0201 | 1401 | 3501 | 0401/82 | 0802 |
| 3248 | | | | | | | | | | | | | | | | | | |
| 3261 | | | | | | | | | | | | | 0101 | 0201 | 1401 | 3501 | 0401 | 0802 |
| 3264 | 01 | 13 | | | NT | NT | 05 | 06 | NT | NT | | | 01 | 02 | 14 | 35 | 04 | 08 |
| 3324 | 0101 | 1302 | 303 | BLANK | 0101 | 0102 | 0501 | 0604 | 0101 | 0201 | | | 0101 | 0201 | 1401 | 3501/42 | 0401/82 | 0802 |
| 3325 | 0101 | 1302 | 30301 | BLANK | 0101 | 0102 | 0501 | 0604 | | | | | 0101 | 0201 | 1401 | 3501 | 0401 | 0802 |
| 3410 | 0101 | 1302 | | | | | 0501 | 0604 | | | | | 0101 | 0201 | 1401 | 3501 | 0401 | 0802 |
| 3438 | 0101 | 1302 | | | | | 0501 | 0604 | | | | | 0101 | 0201 | 1401 | 3501 | 0401 | 0802 |
| 3522 | | | | | | | | | | | | | | | | | | |
| 3582 | | | | | | | | | | | | | | | | | | |
| 3614 | 0101 | 1302 | | | 01 | 0102 | 0501 | 0604 | | | | | 0101 | 0201 | 1401 | 3501 | 0401 | 0802 |
| 3625 | 0101 | 1302 | 3 | BLANK | | | 0501 | 0604 | 0101 | 0201 | | | 01 | 0201 | 1401 | 3501 | 0401 | 0802 |
| 3807 | 01 | 13 | 30301 | BLANK | 0101 | 0102 | 05 | 06 | 0101 | 0201 | 0103/10 | 0201 | 01 | 02 | 14 | 35 | 04 | 08 |
| 3849 | 0101 | 1302 | 30301 | BLANK | 0101 | 0102 | 0501 | 0604 | | | | | 01 | 02 | 14 | 35 | 04 | 08 |
| 4237 | 010101 | 130201 | 30301 | BLANK | | | 0501 | 0604 | | | | | 0101 | 0201 | 140101 | 3501 | 0401 | 0802 |
| 4281 | | | | | | | | | | | | | | | | | | |
| 4420 | 0101 | 1302/31 | | | | | | | | | | | 0101 | 0201 | 1401 | 3501/48 | 0401/7 | 0802 |
| 4545 | 0101 | 1302 | 30301 | BLANK | 0101 | 0102 | 0501 | 0604 | 0101 | 0201 | | | 0101/1N | 0201 | 1401 | 3501/42 | 040101G | 0802 |
| 4551 | 0101/32 | 1302/99 | NT | NT | NT | NT | 0501 | 0604 | NT | NT | | | 01 | 02 | 14 | 35 | 04 | 08 |
| 4585 | 01 | 13 | | | 01 | 0102 | 0501 | 06 | | | | | 01 | 02 | 14 | 35 | 04 | 08 |
| 4613 | | | | | | | | | | | | | | | | | | |
| 4653 | 0101 | 1302 | | | 01 | 0102 | 0501 | 0604 | | | | | 01 | 02 | 14 | 35 | 04 | 08 |
| 4709 | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | | | NT | NT | NT | NT | NT | NT |
| 5204 | 0101 | 1302 | | | | | 0501 | 0604 | | | | | 010101G | 020101G | 1401 | 350101G | 040101G | 0802 |
| 5982 | | | | | | | | | | | | | | | | | | |
| 6051 | 0101 | 1302 | | | 01 | 0102 | 0501 | 0604 | 0101 | 0201 | 0103 | 0201 | 01 | 02 | 1401 | 3501 | 04 | 08 |
| 6313 | 0101 | 1302 | | | | | 0501 | 0604 | | | | | 0101 | 0201 | 1401 | 3501/42 | 0401/9N | 0802 |
| 9221 | 01 | 13 | 3 | BLANK | 01 | 01 | 05 | 06 | 01 | 02 | | | 01 | 02 | 14 | 35 | 04 | 08 |
| 197H | 0101 | 1302 | | | | | 0501 | 0604 | 0101 | 0201 | | | 0101 | 0201 | 1401 | 3501 | 040101G | 0802 |
| 197L | 01 | 13 | 30301 | BLANK | 01 | 0102 | 0501 | 06 | | | | | 01 | 02 | 14 | 35 | 04 | 08 |
| 4582H | 0101 | 1302 | 30301 | BLANK | 01 | 0102 | 0501 | 0604 | 0101 | 0201 | 0103 | 0201 | 0101 | 0201 | 1401 | 3501 | 0401 | 0802 |
| 4582L | 01 | 13 | 303 | BLANK | | 01 | 05 | 06 | 01 | 02 | 01 | 02 | 01 | 02 | 14 | 35 | 04 | 08 |
| 5720H | 010101 | 130201 | 30301 | BLANK | | | 050101 | 060401 | 010101 | 020102 | | | 010101G | 020101 | 1401 | 350101 | 0401P | 080201 |
| 5720L | 01 | 13 | 303 | BLANK | | | 05 | 06 | | | | | 01 | 02 | 14 | 35 | 04 | 08 |

DNA #683

| CENTER | DRB1 | | DRB3/4/5 | | DQA1 | | DQB1 | | DPB1 | | DPA1 | | A-Locus | | B-Locus | | C-Locus | |
|--------|---------|---------|----------|-----------|------|--------|---------|--------|--------|-------|------|-------|-----------|----------|---------|---------|-----------|---------|
| | | | | | | | | | | | | | | | | | | |
| 7 | 09 | 16 | 401 | 501 | 01 | 03 | 03 | 05 | | | | | 11 | 24 | 38 | 51 | 07 | 07 |
| 16 | 090102 | 160201 | 40103 | 50101/14 | 0102 | 0301P | 0303/31 | 0502 | 0501 | BLANK | 0202 | BLANK | 110201/53 | 2402 | 380201 | 510101 | 070201/50 | 0763 |
| 80 | 09 | 16 | 401 | 501 | 0102 | 03 | 03 | 0502 | | | | | 11 | 24 | 38 | 51 | 07 | 07 |
| 124 | 0901 | 1601 | 401 | 50101 | 0102 | 03 | 0303 | 0502 | 0501 | BLANK | | | 11 | 24 | 3802/18 | 51 | 07 | 0763 |
| 134 | 0901 | 1602 | 40103 | 50101 | | | 0303 | 0502 | 0501 | BLANK | | | 110201G | 2402 | 3802 | 5101 | 0702 | 0763 |
| 138 | 0901 | 1602 | 401 | 501 | 01 | 03 | 0303 | 0502 | 0501 | BLANK | | | 110201G | 2402 | 3802 | 5101 | 0702 | 0763 |
| 139 | | | | | | | | | | | | | | | | | | |
| 142 | 09 | 16 | 401 | 501 | | | 03 | 05 | | | | | 11 | 24 | 38 | 51 | | |
| 144 | 0901 | 1602 | | | 0102 | 03 | 0303 | 0502 | | | | | 1102/53 | 2402 | 3802 | 5101 | 0702/50 | 0763 |
| 147 | | | | | | | | | | | | | | | | | | |
| 148 | 0901 | 1602 | 40103 | 50101 | | | 0303 | 0502 | 0501 | BLANK | | | 1102/53 | 2402 | 3802 | 5101 | 0702 | 0763 |
| 151 | 0901 | 1602 | | | | | | | | | | | 110201G | 2402 | 3802 | 5101 | | |
| 152 | 09 | 16 | | | | | | | | | | | 11 | 24 | 38 | 51 | | |
| 155 | | | | | | | | | | | | | | | | | | |
| 156 | 0901/4 | 1602/1 | | | | | 0303 | 0502 | | | | | 1102/53 | 2402 | 3802 | 5101 | 0702 | 0763 |
| 158 | 0901 | 1602 | 40103 | 50101 | 0102 | 03 | 0303 | 0502 | 0501 | BLANK | | | 1102 | 2402 | 3802 | 5101 | 0702 | 0763 |
| 160 | 0901 | 1602 | 40103 | 50101 | | | 0303 | 0502 | | | | | 1102 | 2402 | 380201 | 510101 | 0702 | 0763/68 |
| 162 | 090102 | 160201 | | | | | 030302 | 050201 | | | | | 1102/1 | 240201G | 380201 | 510101 | 070201G | 0763 |
| 164 | 09 | 16 | | | | | | | | | | | 11 | 24 | 38 | 51 | | |
| 167 | | | | | | | | | | | | | | | | | | |
| 168 | 09 | 16 | | | | | | | | | | | 11 | 24 | 38 | 51 | | |
| 173 | 0901/9 | 1602/17 | | | 0102 | 0302/1 | 0303/31 | 0502 | | | | | 11 | 24 | 38 | 51 | | |
| 174 | | | | | | | | | | | | | | | | | | |
| 175 | 090102 | 160201 | | | | | 0303 | 0502 | | | | | 1102 | 2402 | 3802 | 5101 | 0702 | 0704 |
| 176 | | | | | | | | | | | | | | | | | | |
| 179 | 0901/4 | 1602/1 | 40103 | BLANK | 0102 | 03 | 0303/15 | 0502 | | | | | 11 | 24 | 38 | 51 | 07 | 07 |
| 180 | | | | | | | | | | | | | | | | | | |
| 185 | 090102 | 160201 | | | | | 030302 | 050201 | | | | | 1102/1 | 2402/63 | 3802/1 | 5101/78 | 070201G | 0763 |
| 186 | | | | | | | | | | | | | | | | | | |
| 187 | 0901 | 1602 | | | | | 0303 | 0502 | | | | | 1102/1 | 2402/63 | 3802 | 5101 | 0702 | 0763/4 |
| 188 | 0901 | 1602 | | | | | | | | | | | | | | | | |
| 189 | 0901 | 1602 | 40103/1 | 50101/14 | 0102 | 03 | 0303 | 0502 | NT | NT | NT | NT | 1102 | 2402 | 3802 | 5101 | 0702 | 0763/4 |
| 190 | 09 | 16 | 4 | 5 | | | 03 | 05 | | | | | 11 | 24 | 38 | 51 | 07 | 07 |
| 192 | 0901 | 1602 | 40103 | 50101 | | | 0303 | 0502 | 0501 | BLANK | | | 110201G | 2402 | 3802 | 5101 | 0702 | 0763 |
| 193 | | | | | | | | | | | | | | | | | | |
| 195 | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | | | NT | NT | NT | NT | NT | NT |
| 199 | 09 | 16 | 4 | 5 | | | BLANK | 05 | | | | | | | | | | |
| 200 | | | | | | | | | | | | | | | | | | |
| 201 | | | | | | | | | | | | | | | | | | |
| 205 | 0901 | 1602 | 40103 | 50101 | 0102 | 0302 | 0303 | 0502 | 0501 | BLANK | 0202 | BLANK | 1102/53 | 2402 | 3802 | 5101 | 0702 | 0763 |
| 206 | 09 | 16 | | | | | | | | | | | 11 | 24 | 38 | 51 | | |
| 207 | 0901 | 1602 | 40103 | 50101 | | | 0303 | 0502 | 0501 | BLANK | | | 1102/53 | 2402 | 3802 | 5101 | 0702 | 0763 |
| 208 | 0901 | 1602 | | | | | | | | | | | 11 | 24 | 3802 | 5101 | | |
| 209 | 09 | 16 | 4 | 5 | | | | | NT | NT | | | 11 | 24 | 38 | 51 | NT | NT |
| 210 | | | | | | | | | | | | | | | | | | |
| 211 | | | | | | | | | | | | | | | | | | |
| 212 | | | | | | | | | | | | | | | | | | |
| 213 | 0901 | 1602 | | | | | 03 | 0502 | | | | | 1102/53 | 2402 | 3802 | 5101 | 0702 | 0763 |
| 214 | | | | | | | | | | | | | 11 | 24 | 38 | 51 | 070201 | 0763 |
| 215 | NT | NT | NT | NT | | | | | | | | | NT | NT | NT | NT | NT | NT |
| 216 | | | | | | | | | | | | | | | | | | |
| 218 | 0901 | 1602 | | | | | 0303 | 0502 | | | | | 110201G | 2402 | 3802 | 5101 | 0702 | 0763 |
| 220 | | | | | | | | | | | | | | | | | | |
| 222 | 09 | 16 | 401 | 502 | | | 03 | 05 | | | | | 11 | 24 | 38 | 51 | | |
| 224 | 09 | 16 | 401 | 502 | | | 03 | 05 | | | | | 11 | 24 | 38 | 51 | | |
| 225 | 090102 | 160101 | 4010101 | 501010101 | | | BLANK | 050101 | | | | | 110101 | 24020101 | 380101 | 510101 | 07020101 | 070401 |
| 226 | 09 | 16 | | | 01 | 03 | 03 | 05 | | | | | 11 | 24 | 38 | 51 | 07 | 07 |
| 227 | 090102 | 160201 | | | | | 030302 | 050201 | | | | | 110201G | 2402 | 380201 | 510101 | 0702 | 0763 |
| 228 | 0901 | 1602 | 40101 | 50101 | | | 0315 | 0502 | | | | | | | | | | |
| 229 | 0901 | 1602 | 40103 | 50101 | 0102 | 0302 | 0303 | 0502 | 0501 | BLANK | 0202 | BLANK | 1102 | 2402 | 3802 | 5101 | 0702 | 0704 |
| 230 | 0901 | 1602 | 40103 | 50101 | 01 | 03 | 0303 | 0502 | 0501 | BLANK | | | 110201G | 2402 | 3802 | 5101 | 0702 | 0763 |
| 232 | 09 | 16 | | | | | 03 | 05 | | | | | 11 | 24 | 38 | 51 | 07 | 07 |
| 234 | 090102 | 160201 | | | NT | NT | 0303 | 0502 | NT | NT | | | 110201G | 240201G | 380201 | 510101 | 070201G | 0763 |
| 235 | 09 | 16 | 4 | 5 | | | 03 | 05 | | | | | 11 | 24 | 38 | 51 | 07 | 07 |
| 236 | | | | | | | | | | | | | | | | | | |
| 237 | 09 | 16 | | | | | 03 | 05 | | | | | 11 | 24 | 38 | 51 | | |
| 238 | 0901 | 1602 | | | | | | | | | | | | | | | | |
| 239 | 0901/11 | 1602/17 | 40103 | 50101 | 0102 | 0302 | 0303/30 | 0502 | 0501 | BLANK | 0202 | BLANK | 11 | 24 | 38 | 51 | 07 | 07 |
| 240 | NT | NT | | | NT | NT | NT | NT | | | | | NT | NT | NT | NT | NT | NT |
| 242 | | | | | | | | | | | | | | | | | | |
| 244 | | | | | | | | | | | | | | | | | | |
| 246 | 0901 | 1602 | | | | | 03 | 02 | | | | | | | | | | |
| 247 | 0901 | 1602 | | | 0102 | 0302 | 0303 | 0502 | | | | | | | | | | |
| 249 | 090102 | 160201 | | | | | 030302 | 050201 | 050101 | BLANK | | | 110201G | 240201 | 380201 | 510101 | 070201 | 0763 |
| 250 | 09 | 16 | 4 | 5 | | | 03 | 05 | | | | | 11 | 24 | 38 | 51 | | |

DNA #683

| CENTER | DRB1 | | DRB3/4/5 | | DQA1 | | DQB1 | | DPB1 | | DPA1 | | A-Locus | | B-Locus | | C-Locus | |
|--------|--------|---------|----------|---------|------|------|---------|---------|---------|-------|--------|-------|---------|---------|---------|---------|---------|---------|
| | | | | | | | | | | | | | | | | | | |
| 251 | NT | NT | NT | NT | | | NT | NT | | | | | NT | NT | NT | NT | | |
| 252 | 09 | 16 | 3 | 5 | | | 0303 | 05 | | | | | 11 | 24 | 38 | 51 | 07 | 07 |
| 255 | 09 | 16 | | | | | | | | | | | 11 | 24 | 38 | 51 | | |
| 257 | | | | | | | | | | | | | | | | | | |
| 258 | 090102 | 160201 | | | | | 030302 | 050201 | | | | | 110201G | 240201 | 380201 | 510101 | 070201 | 0763 |
| 259 | 0901 | 1601 | | | | | 0303 | 0501 | | | | | 1101 | 2402 | 3801 | 5101 | | |
| 260 | 0901 | 1602 | 4 | 5 | | | 03 | 05 | | | | | 11 | 24 | 38 | 51 | 07 | 07 |
| 262 | | | | | | | | | | | | | | | | | | |
| 278 | 0901 | 1602 | 40103 | 50101 | 0102 | 03 | 0303 | 0502 | 0501 | BLANK | 0202 | BLANK | 1102 | 2402 | 3802 | 5101 | 0702 | 0763 |
| 401 | | | | | | | | | | | | | 1102/53 | 2402 | 3802 | 5101 | 0702 | 0763 |
| 452 | 0901 | 1602 | 40103 | 50101 | | | 0303 | 0502 | 0501 | BLANK | | | 1102 | 2402 | 3802 | 5101 | 0702 | 0763 |
| 519 | | | | | | | | | | | | | | | | | | |
| 615 | 0901 | 1602 | 4010101G | 50101 | | | 030302G | 050201G | 050101G | BLANK | | | 11 | 24 | 38 | 51 | 07 | 07 |
| 616 | 09 | 16 | | | | | | | | | | | 11 | 24 | 38 | 51 | 07 | 07 |
| 635 | 09 | 16 | 4 | 5 | | | 03 | 05 | | | | | 11 | 24 | 38 | 51 | 07 | 07 |
| 702 | 0901 | 1602 | 40103 | 50101 | 0102 | 0302 | 0303 | 0502 | 0501 | BLANK | | | 1101 | 2402 | 3802 | 5101 | 0702 | 0763 |
| 714 | 0901 | 1602 | | | | | 0303 | 0502 | | | | | 110201G | 2402 | 3802 | 5101 | 0702 | 0763 |
| 726 | 0901 | 1602 | 401 | 501 | | | 0303 | 0502 | | | | | 110201G | 2402 | 3802 | 5101 | 0702 | 0763 |
| 732 | 090102 | 160201 | 40103 | 50101 | | | 0303/31 | 0502 | | | | | 1102/53 | 2402 | 380201 | 5101 | 0702/50 | 0763 |
| 769 | 0901 | 1602 | 40103 | 50101 | | | 0303 | 0502 | 0501 | BLANK | | | 1102/53 | 2402 | 3802 | 5101 | 0702 | 0763 |
| 805 | 0901 | 1602 | | | | | 0303 | 0502 | | | | | 1102 | 2401 | 3802 | 5101 | 0702 | 0763 |
| 1113 | 0901 | 1602 | 40103/8 | 50101 | 0102 | 03 | 0303 | 0502 | 0501 | BLANK | | | 1102/53 | 2402 | 3802 | 5101 | 0702/50 | 0763 |
| 1189 | 0901 | 1602 | 40103 | 50101 | | | 0303 | 0502 | 0501 | BLANK | | | 1102/53 | 2402 | 3802 | 5101 | 0702 | 0763 |
| 1212 | 0901 | 1602 | 40103 | 50101 | | | 0303 | 0502 | 0501 | BLANK | | | 11 | 2402 | 3802/18 | 5101 | 0702/4 | 0763/38 |
| 1251 | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| 1498 | | | | | | | | | | | | | | | | | | |
| 1647 | 09 | 16 | 4 | 5 | | | 03 | 05 | | | | | 11 | 24 | 38 | 51 | 07 | 07 |
| 1686 | 0901 | 1602 | 40103 | 50101 | 0102 | 0302 | 0303 | 0502 | 0501 | BLANK | 0202 | BLANK | 110201G | 2402 | 3802 | 5101 | 07 | 07 |
| 1905 | 0901 | 1602 | 40103 | 50101 | | | 0303 | 0502 | 0501 | BLANK | | | 1102P | 2402 | 3802 | 5101 | 0702 | 0763 |
| 2004 | 0901 | 1602 | 40103 | 50101 | 0102 | 0302 | 0303 | 0502 | | | | | 1102 | 2402 | 3802 | 5101 | 0702 | 0763 |
| 2013 | 0901 | 1602 | 401 | 501 | | | 03 | 0502 | | | | | 110201G | 2402 | 3802 | 5101 | 0702 | 0763 |
| 2015 | | | | | | | | | | | | | 110201G | 2402 | 380201 | 510101 | 070201 | 0763 |
| 2063 | | | | | | | | | | | | | | | | | | |
| 2347 | 09 | 16 | 4 | 5 | 01 | 03 | 030302G | 05 | 0501 | BLANK | 0202 | BLANK | 11 | 24 | 38 | 51 | 07 | 07 |
| 2411 | 0901 | 1602 | | | | | 0303 | 0502 | | | | | 1102 | 2402 | 3802 | 5101 | 0702 | 0763 |
| 2518 | 09 | 16 | NT | NT | 0102 | 03 | 03 | 0502 | 0501 | BLANK | 0202 | BLANK | 11 | 24 | 38 | 51 | 07 | 07 |
| 2549 | 0901 | 1602 | 40103 | 50101 | 0102 | 0302 | 030302G | 0502 | 0501 | BLANK | | | 110201G | 2402 | 3802 | 5101 | 0702 | 0763 |
| 3248 | | | | | | | | | | | | | | | | | | |
| 3261 | | | | | | | | | | | | | 110201G | 2402 | 3802 | 5101 | 0702 | 0763 |
| 3264 | 09 | 16 | | | 0102 | 03 | 03 | 0502 | NT | NT | | | 11 | 24 | 38 | 51 | NT | NT |
| 3324 | 0901 | 1602 | 401 | 501 | 0102 | 0302 | 0303 | 0502 | 0501 | BLANK | | | 110201G | 2402 | 3802 | 5101 | 0702/50 | 0763 |
| 3325 | 0901 | 1602 | 40103 | 50101 | 0102 | 0302 | 0303 | 0502 | | | | | 1101 | 2402 | 3802 | 5101 | 0702 | 0704 |
| 3410 | 0901 | 1602 | | | | | 0303 | 0502 | | | | | 110201G | 2402 | 3802 | 5101 | 0702 | 0763 |
| 3438 | 0901 | 1602 | | | | | 030302 | 0502 | | | | | 1102 | 2402 | 3802 | 5101 | 0702 | 0763 |
| 3522 | | | | | | | | | | | | | | | | | | |
| 3582 | | | | | | | | | | | | | | | | | | |
| 3614 | 0901 | 1602 | | | 0102 | 03 | 0303 | 0502 | | | | | 1102 | 2402 | 3802 | 5101 | 0702 | 0763 |
| 3625 | 0901 | 1602 | 4 | 5 | | | 0303 | 0502 | 0501 | BLANK | | | 1102/53 | 2402 | 3802 | 5101 | 0702 | 0763 |
| 3807 | 09 | 16 | 40103 | 50101 | 0102 | 0302 | 03 | 05 | 0501 | BLANK | 0202/4 | BLANK | 11 | 24 | 3802/1 | 5101/78 | 07 | 07 |
| 3849 | 0901 | 1602 | 401 | 50101 | 0102 | 0302 | 0303 | 0502 | | | | | 11 | 24 | 38 | 51 | 07 | 07 |
| 4237 | 090102 | 160201 | 40103 | 50101 | | | 0303P | 0502 | | | | | 110201G | 2402 | 380201 | 510101 | 0702 | 0763 |
| 4281 | | | | | | | | | | | | | | | | | | |
| 4420 | 0901 | 1602 | | | | | | | | | | | 1102 | 2402 | 3802 | 5101 | 0702 | 0704 |
| 4545 | 0901 | 1602 | 401 | 50101 | 0102 | 0302 | 0303 | 0502 | 0501 | BLANK | | | 1102/53 | 2402 | 3802 | 5101 | 0702/50 | 0763 |
| 4551 | 0901/9 | 1602/17 | NT | NT | NT | NT | 0303 | 0502 | NT | NT | | | 11 | 24 | 38 | 51 | 07 | 07 |
| 4585 | 09 | 1602/17 | | | 0102 | 03 | 0303 | 0502 | | | | | 11 | 24 | 38 | 51 | 07 | 07 |
| 4613 | | | | | | | | | | | | | | | | | | |
| 4653 | 0901 | 1602 | | | 0102 | 03 | 0303 | 0502 | | | | | 11 | 24 | 38 | 51 | 07 | 07 |
| 4709 | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | | | NT | NT | NT | NT | NT | NT |
| 5204 | 0901 | 1602 | | | | | 030302G | 0502 | | | | | 1101 | 240201G | 3802 | 5101 | 070201G | 070401G |
| 5982 | | | | | | | | | | | | | | | | | | |
| 6051 | 0901 | 1602 | | | 0102 | 03 | 0303 | 0502 | 0501 | BLANK | 0202 | BLANK | 11 | 24 | 3802 | 51 | 07 | 07 |
| 6313 | 0901 | 1602 | | | | | 0303 | 0502 | | | | | 1102 | 2402 | 3802 | 5101 | 0702 | 0763 |
| 9221 | 09 | 16 | 4 | 5 | 0102 | 03 | 03 | 05 | 0501 | BLANK | | | 11 | 24 | 38 | 51 | 07 | 07 |
| 197H | 0901 | 1602 | | | | | 0303 | 0502 | 0501 | BLANK | | | 1102 | 2402 | 3802 | 5101 | 0702 | 0763 |
| 197L | 09 | 16 | 401 | 501 | 0102 | 03 | 03 | 0502 | | | | | 11 | 24 | 38 | 51 | 07 | 07 |
| 4582H | 0901 | 1602 | 401 | 50101 | 0102 | 03 | 0303 | 0502 | 0501 | BLANK | 0202 | BLANK | 1102 | 2402/63 | 3802/18 | 5101 | 0702 | 0763 |
| 4582L | 09 | 16 | 401 | 501 | 01 | 03 | 03 | 05 | 05 | BLANK | 02 | BLANK | 11 | 24 | 38 | 51 | 07 | 07 |
| 5720H | 090102 | 160201 | 40103 | 5010101 | | | 030302 | 050201 | 0501 | BLANK | | | 1102P | 240201 | 380201 | 510101 | 0702P | 0763 |
| 5720L | 09 | 16 | 401 | 501 | | | 03 | 05 | | | | | 11 | 24 | 38 | 51 | 07 | 07 |

DNA #684

| CENTER | DRB1 | | DRB3/4/5 | | DQA1 | | DQB1 | | DPB1 | | DPA1 | | A-Locus | | B-Locus | | C-Locus | |
|--------|--------|----------|----------|------------|------|--------|---------|---------|------------|------------|------|-------|----------|-----------|----------|---------|---------|---------|
| | | | | | | | | | | | | | | | | | | |
| 7 | 04 | 07 | 401 | 401 | 02 | 03 | 03 | 03 | | | | | 02 | 23 | 15 | 57 | 02 | 06 |
| 16 | 040101 | 070101 | 40103 | 40103N | 0201 | 0301P | 0301/27 | 0303/31 | 040101G | 040201G | 0103 | BLANK | 020101 | 230101/17 | 150301G | 570101 | 0210 | 060201 |
| 80 | 04 | 07 | 401 | 40103N | 0201 | 03 | 03 | 03 | | | | | 02 | 23 | 15 | 57 | 02 | 06 |
| 124 | 0401 | 0701 | 401 | 401 | 0201 | 03 | 0301 | 0303 | 04 | 04 | | | 02 | 23 | 15 | 57 | 0210 | 06 |
| 134 | 0401 | 0701 | 40103 | 40103 | | | 0301 | 0303 | 0401 | 0402 | | | 0201 | 2301 | 1503 | 5701 | 0210 | 0602 |
| 138 | 0401 | 0701 | 401 | 401 | 02 | 03 | 0301 | 0303 | 0401 | 0402 | | | 0201 | 2301 | 1503 | 5701 | 0210 | 0602 |
| 139 | | | | | | | | | | | | | | | | | | |
| 142 | 04 | 07 | 401 | 401 | | | 03 | 03 | | | | | 02 | 23 | 15 | 57 | | |
| 144 | 0401 | 0701 | | | 0201 | 03 | 0301 | 0303 | | | | | 0201 | 2301/17 | 1503 | 5701 | 0210 | 0602 |
| 147 | | | | | | | | | | | | | | | | | | |
| 148 | 04 | 07 | NT | NT | | | NT | NT | NT | NT | | | 02 | 23 | 15 | 57 | NT | NT |
| 151 | 0401 | 0701 | | | | | | | | | | | 0201 | 2301 | 1503 | 5701 | | |
| 152 | 04 | 07 | | | | | | | | | | | 02 | 23 | 15 | 57 | | |
| 155 | | | | | | | | | | | | | | | | | | |
| 156 | 0401 | 0701 | | | | | 0301 | 0303 | | | | | 0201 | 2301 | 1503 | 5701 | 0210 | 0602 |
| 158 | 0401 | 0701 | 40103 | 40103N | 0201 | 03 | 0301 | 0303 | 0401 | 0402 | | | 0201 | 2301 | 1503 | 5701 | 0210 | 0602 |
| 160 | 0401 | 0701 | 40103 | 401030102N | | | 0301 | 0303 | | | | | 0201 | 2301 | 1503 | 5701 | 0210 | 0602 |
| 162 | 040101 | 070101 | | | | | 0301/19 | 030302 | | | | | 020101 | 230101 | 1503 | 570101 | 0210 | 060201 |
| 164 | 04 | 07 | | | | | | | | | | | 02 | 23 | 15 | 57 | | |
| 167 | | | | | | | | | | | | | | | | | | |
| 168 | 04 | 07 | | | | | | | | | | | 02 | 23 | 15 | 57 | | |
| 173 | 0401 | 0701/15 | | | 0201 | 0301/2 | 0301/27 | 0303/31 | | | | | 02 | 23 | 15 | 57 | | |
| 174 | | | | | | | | | | | | | | | | | | |
| 175 | 040101 | 070101 | | | | | 0301 | 0303 | | | | | 0201 | 2301 | 1503 | 5701 | 0210 | 0602 |
| 176 | | | | | | | | | | | | | | | | | | |
| 179 | 0401 | 0701 | 40103 | 40103 | 0201 | 03 | 03 | 03 | | | | | 02 | 23 | 15 | 57 | 0210 | 0602 |
| 180 | | | | | | | | | | | | | | | | | | |
| 185 | 040101 | 070101G | | | | | 0301/3 | 03 | | | | | 020101G | 230101G | 150301G | 570101G | 0210 | 060201G |
| 186 | | | | | | | | | | | | | | | | | | |
| 187 | 0401 | 0701 | | | | | 0301 | 0303 | | | | | 0201 | 2301/17 | 1503/103 | 5701 | 0210 | 0602 |
| 188 | 0401 | 0701 | | | | | | | | | | | | | | | | |
| 189 | 0401 | 0701 | 40103/1 | 40103N | 0201 | 03 | 0301 | 0303 | NT | NT | NT | NT | 0201 | 2301/17 | 1503 | 5701 | 0210 | 0602 |
| 190 | 04 | 07 | 4 | 4 | | | 03 | 03 | | | | | 02 | 23 | 15 | 57 | 02 | 06 |
| 192 | 0401 | 0701 | 40103 | 401030102N | | | 0301 | 0303 | 0401 | 0402 | | | 0201 | 2301 | 1503 | 5701 | 0210 | 0602 |
| 193 | | | | | | | | | | | | | | | | | | |
| 195 | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | | | NT | NT | NT | NT | NT | NT |
| 199 | 04 | 07 | 4 | 4 | | | 03 | 03 | | | | | | | | | | |
| 200 | | | | | | | | | | | | | | | | | | |
| 201 | | | | | | | | | | | | | | | | | | |
| 205 | 0401 | 0701 | 40103 | 40103N | 0201 | 0303 | 0301 | 0303 | 0401 | 0402 | 0103 | BLANK | 0201 | 2301/17 | 1503 | 5701 | 0210 | 0602 |
| 206 | 04 | 07 | | | | | | | | | | | 02 | 23 | 15 | 57 | | |
| 207 | 0401 | 0701 | 40103 | 40103N | | | 0301 | 0303 | 0401/10501 | 0402/12601 | | | 0201 | 2301 | 1503 | 5701 | 0210 | 0602 |
| 208 | 0401 | 0701 | | | | | | | | | | | 0201 | 2301 | 1503 | 5701 | | |
| 209 | 04 | 07 | 4 | 4 | | | | | NT | NT | | | 02 | 23 | 15 | 57 | 02 | 06 |
| 210 | | | | | | | | | | | | | | | | | | |
| 211 | | | | | | | | | | | | | | | | | | |
| 212 | | | | | | | | | | | | | | | | | | |
| 213 | 0401 | 0701 | | | | | 03 | 03 | | | | | 0201 | 2301/17 | 1503/103 | 5701 | 0210 | 0602 |
| 214 | | | | | | | | | | | | | 02 | 23 | 15 | 57 | 0210 | 060201 |
| 215 | NT | NT | NT | NT | | | | | | | | | NT | NT | NT | NT | NT | NT |
| 216 | | | | | | | | | | | | | | | | | | |
| 218 | 0401 | 0701 | | | | | 0301 | 0303 | | | | | 0201 | 2301 | 1503 | 5701 | 0210 | 0602 |
| 220 | | | | | | | | | | | | | | | | | | |
| 222 | 04 | 07 | 401 | 401 | | | 03 | 03 | | | | | 02 | 23 | 15 | 57 | | |
| 224 | 04 | 07 | 401 | 401 | | | 03 | 03 | | | | | 02 | 23 | 15 | 57 | | |
| 225 | 0422 | 07010101 | 4010101 | 4010101 | | | 030101 | 030302 | | | | | 02010101 | 2301 | 1503 | 570101 | 020201 | 0602 |
| 226 | 04 | 07 | | | 02 | 03 | 03 | 03 | | | | | 02 | 23 | 15 | 57 | 02 | 06 |
| 227 | 040101 | 070101 | | | | | 030101 | 030302 | | | | | 0201 | 2301 | 1503 | 570101 | 0210 | 0602 |
| 228 | 0401 | 0701 | 40103 | 40103 | | | 0301 | 0303 | | | | | | | | | | |
| 229 | 0401 | 0701 | 40103 | 401030102N | 0201 | 0303 | 0301 | 0303 | 0401 | 0402 | 0103 | BLANK | 0201 | 2301 | 1503 | 5701 | 0210 | 0602 |
| 230 | 0401 | 0701 | 40103 | 401030102N | 02 | 03 | 0301 | 0303 | 0401 | 0402 | | | 0201 | 2301 | 1503 | 5701 | 0210 | 0602 |
| 232 | 04 | 07 | | | | | 03 | 03 | | | | | 02 | 23 | 15 | 57 | 02 | 06 |
| 234 | 040101 | 070101G | | | NT | NT | 0301 | 0303 | NT | NT | | | 020101G | 230101G | 150301 | 570101 | 0210 | 060201G |
| 235 | 04 | 07 | 4 | 4 | | | 03 | 03 | | | | | 02 | 23 | 15 | 57 | 02 | 06 |
| 236 | | | | | | | | | | | | | | | | | | |
| 237 | 04 | 07 | | | | | 03 | 03 | | | | | 02 | 23 | 15 | 57 | | |
| 238 | 0401 | 0701 | | | | | | | | | | | | | | | | |
| 239 | 04 | 07 | 4 | 4 | NT | NT | 03 | 03 | NT | NT | NT | NT | 02 | 23 | 15 | 5701/20 | 02 | 06 |
| 240 | 0401 | 0701 | | | 0201 | 0303 | 0301 | 0303 | | | | | 0201 | 2301 | 1503 | 5701 | 0202 | 0602 |
| 242 | | | | | | | | | | | | | | | | | | |
| 244 | | | | | | | | | | | | | | | | | | |
| 246 | 0401 | 0701 | | | | | 03 | 03 | | | | | | | | | | |
| 247 | 0401 | 0701 | | | 0201 | 0303 | 0301 | 0303 | | | | | | | | | | |
| 249 | 040101 | 070101 | | | | | 030101 | 030302 | 040101 | 040201 | | | 020101 | 230101 | 150301 | 570101 | 0210 | 060201 |
| 250 | 04 | 07 | 4 | 4 | | | 03 | 03 | | | | | 02 | 23 | 15 | 57 | | |

DNA #684

| CENTER | DRB1 | | DRB3/4/5 | | DQA1 | | DQB1 | | DPB1 | | DPA1 | | A-Locus | | B-Locus | | C-Locus | |
|--------|--------|---------|-----------|------------|------|------|---------|---------|------------|------------|---------|-------|---------|---------|-----------|---------|---------|--------|
| | | | | | | | | | | | | | | | | | | |
| 251 | NT | NT | NT | NT | | | NT | NT | | | | | NT | NT | NT | NT | | |
| 252 | 04 | 07 | 4 | 4 | | | 0301 | 0303 | | | | | 02 | 23 | 1503 | 57 | 02 | 06 |
| 255 | 04 | 07 | | | | | | | | | | | 02 | 23 | 15 | 57 | | |
| 257 | | | | | | | | | | | | | | | | | | |
| 258 | 040101 | 070101 | | | | | 030101 | 030302 | | | | | 020101 | 230101 | 150301 | 570101 | 0210 | 060201 |
| 259 | 0422 | 0701 | | | | | 0301 | 0303 | | | | | 0201 | 2301 | 1503 | 5701 | | |
| 260 | 0401 | 0701 | 4 | 4 | | | 03 | 03 | | | | | 02 | 23 | 15 | 57 | 02 | 06 |
| 262 | | | | | | | | | | | | | | | | | | |
| 278 | 0401 | 0701 | 40103 | 40103N | 0201 | 03 | 0301 | 0303 | 0401/12601 | 0402/0602 | 0103 | BLANK | 0201 | 2301 | 1503 | 5701 | 0210/2 | 0602 |
| 401 | | | | | | | | | | | | | 0201 | 2301/17 | 1503/9503 | 5701 | 0210 | 0602 |
| 452 | 0401 | 0701 | 40103 | 40103N | | | 0301 | 0303 | 040101G | 040201G | | | 0201 | 2301 | 1503 | 5701 | 0210 | 0602 |
| 519 | | | | | | | | | | | | | | | | | | |
| 615 | 0401 | 070101G | 4010101G | 40103N | | | 030101G | 030302G | 040101G | 040201G | | | | | | | | |
| 616 | 04 | 07 | | | | | | | | | | | 02 | 23 | 15 | 57 | 02 | 06 |
| 635 | 04 | 07 | 4 | 4 | | | 03 | 03 | | | | | 02 | 23 | 15 | 57 | 02 | 06 |
| 702 | 0401 | 0701 | 40103 | 40103 | 0201 | 0303 | 0301 | 0303 | 0401 | 0402 | | | 0201 | 2301 | 1503 | 5701 | 0210 | 0602 |
| 714 | 0401 | 0701 | | | | | 0301 | 0303 | | | | | 0201 | 2301 | 1503 | 5701 | 0210 | 0602 |
| 726 | 0401 | 0701 | 401 | 401 | | | 0301 | 0303 | | | | | 0201 | 2301 | 1503 | 5701 | 0210 | 0602 |
| 732 | 040101 | 070101 | 401030101 | 401030102N | | | 03 | 0303/31 | | | | | 020101 | 2301/17 | 1503/103 | 570101 | 0210 | 060201 |
| 769 | 0401 | 0701 | 40103 | 401030102N | | | 0301 | 0303 | 040101G | 040201G | | | 0201 | 2301 | 1503/103 | 5701 | 0210 | 0602 |
| 805 | 0401 | 0701 | | | | | 0301 | 0303 | | | | | 0201 | 2301 | 1503 | 5701 | 0210 | 0602 |
| 1113 | 0401 | 0701 | 40103 | 40103N | 0201 | 03 | 0301 | 0303 | 0401/13401 | 0402 | | | 0201 | 2301/17 | 1503/103 | 5701/22 | 0210 | 0602 |
| 1189 | 0401 | 0701 | 40103 | 40103N | | | 0301 | 0303 | 0401 | 0402 | | | 0201 | 2301/17 | 1503/220 | 5701 | 0210 | 0602 |
| 1212 | NT | NT | NT | NT | | | NT | NT | NT | NT | | | NT | NT | NT | NT | NT | NT |
| 1251 | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | | | NT | NT | NT | NT | NT | NT |
| 1498 | | | | | | | | | | | | | | | | | | |
| 1647 | 04 | 07 | 4 | 4 | | | 03 | 03 | | | | | 02 | 23 | 15 | 57 | 02 | 06 |
| 1686 | 0401 | 0701 | 40103 | 40103 | 0201 | 0303 | 0301 | 0303 | 0401 | 0402 | 0103 | BLANK | 0201 | 2301 | 1503 | 5701 | 0210 | 0602 |
| 1905 | 0401 | 0701 | 40103 | 401030102N | | | 0301 | 0303 | 0401P | 0402P | | | 0201 | 2301 | 1503 | 5701 | 0210 | 0602 |
| 2004 | 0401 | 0701 | 40103 | 401030102N | 0201 | 0303 | 0301 | 0303 | | | | | 0201 | 2301 | 1503 | 5701 | 0210 | 0602 |
| 2013 | 0401 | 0701 | 401 | 401 | | | 03 | 03 | | | | | 0201 | 2301 | 1503 | 5701 | 0210 | 0602 |
| 2015 | | | | | | | | | | | | | 020101 | 230101 | 1503 | 5701 | 0210 | 060201 |
| 2063 | | | | | | | | | | | | | | | | | | |
| 2347 | 04 | 07 | 4 | 40103N | 02 | 03 | 0301 | 030302G | 040101G | 040201G | 0103 | BLANK | 02 | 23 | 1503 | 57 | 02 | 06 |
| 2411 | 0401 | 0701 | | | | | 0301 | 0303 | | | | | 0201 | 2301 | 1503 | 5701 | 0210 | 0602 |
| 2518 | 04 | 07 | 40103 | 40103N | 0201 | 03 | 0301 | 0303 | 0401 | 040201G | 0103 | BLANK | 02 | 23 | 15 | 57 | 02 | 06 |
| 2549 | 0401 | 0701 | 40103 | 401030102N | 0201 | 0303 | 030101 | 030302G | 040101G | 040201G | | | 0201 | 2301/17 | 1503 | 5701 | 0210 | 0602 |
| 3248 | | | | | | | | | | | | | | | | | | |
| 3261 | | | | | | | | | | | | | 0201 | 2301 | 1503 | 5701 | 0210 | 0602 |
| 3264 | 04 | 07 | | | 0201 | 03 | 03 | 03 | NT | NT | | | 02 | 23 | 15 | 57 | NT | NT |
| 3324 | 0401 | 0701 | 401 | 401030102N | 0201 | 0303 | 0301 | 0303 | 0401 | 0402 | | | 0201 | 2301/17 | 1503/103 | 5701 | 0210 | 0602 |
| 3325 | 0401 | 0701 | 40103 | 40103 | 0201 | 0303 | 0301 | 0303 | | | | | 0201 | 2301 | 1503 | 5701 | 0210 | 0602 |
| 3410 | 0401 | 0701 | | | | | 0301 | 0303 | | | | | 0201 | 2301 | 1503 | 5701 | 0210 | 0602 |
| 3438 | 0401 | 0701 | | | | | 0301 | 030302 | | | | | NT | NT | NT | NT | NT | NT |
| 3522 | | | | | | | | | | | | | | | | | | |
| 3582 | | | | | | | | | | | | | | | | | | |
| 3614 | 0401 | 0701 | | | 0201 | 03 | 0301 | 0303 | | | | | 0201 | 2301 | 1503 | 5701 | 0210/2 | 0602 |
| 3625 | 0401 | 0701 | 4 | 4 | | | 0301 | 0303 | 0401/12601 | 0402/10501 | | | 0201 | 2301/17 | 1503 | 5701 | 0210 | 0602 |
| 3807 | 0401 | 07 | 40103 | 40103 | 0201 | 0303 | 03 | 03 | 0401 | 0402 | 0103/10 | BLANK | 02 | 23 | 15 | 5701/22 | 0210 | 0602 |
| 3849 | 0401 | 0701 | 40103 | 40103N | 0201 | 0303 | 0301 | 0303 | | | | | 02 | 23 | 15 | 57 | 02 | 06 |
| 4237 | 040101 | 0701 | 40103 | 401030102N | | | 0301 | 0303P | | | | | 0201 | 230101 | 150301 | 570101 | 0210 | 0602 |
| 4281 | | | | | | | | | | | | | | | | | | |
| 4420 | 0401 | 0701 | | | | | | | | | | | 0201/60 | 2301/17 | 1503 | 5701 | 0210/2 | 0602 |
| 4545 | 0401 | 0701 | 40103 | 40103N | 0201 | 0303 | 0301 | 0303 | 040101G | 040201G | | | 0201 | 2301/17 | 150301G | 5701 | 0210 | 0602 |
| 4551 | 0401 | 0701 | 40103 | 40103N | 0201 | 03 | 0301 | 0303 | 0401 | 0402 | | | 020101G | 230101G | 150301G | 570101G | 0210 | 0602 |
| 4585 | 04 | 07 | | | 0201 | 03 | 0301 | 0303 | | | | | 02 | 23 | 15 | 57 | 02 | 06 |
| 4613 | | | | | | | | | | | | | | | | | | |
| 4653 | 0401 | 0701 | | | 0201 | 03 | 0301 | 0303 | | | | | 02 | 23 | 15 | 57 | 02 | 06 |
| 4709 | 0401 | 0701 | NT | NT | 0201 | 03 | 0301 | 0303 | 0401 | 0402 | | | 0201 | 2301/17 | 15 | 5701/22 | 0210 | 0602 |
| 5204 | 0401 | 0701 | | | | | 0301 | 030302G | | | | | 020101G | 230101G | 150301G | 5701 | 0210 | 0602 |
| 5982 | | | | | | | | | | | | | | | | | | |
| 6051 | 0401 | 0701 | | | 0201 | 03 | 0301 | 0303 | 0401 | 0402 | 0103 | BLANK | 02 | 23 | 1503 | 5701 | 02 | 06 |
| 6313 | 0401 | 0701 | | | | | 03 | 0303 | | | | | 02 | 23 | 1503 | 5701 | 02 | 06 |
| 9221 | 0401 | 0701 | 4 | 4 | 0201 | 03 | 03 | 03 | NT | NT | | | 02 | 23 | 15 | 57 | 02 | 06 |
| 197H | 0401 | 0701 | | | | | 0301 | 0303 | 0401 | 040201G | | | 0201 | 2301 | 1503 | 5701 | 0210 | 0602 |
| 197L | 04 | 07 | 401 | 40103N | 0201 | 03 | 03 | 03 | | | | | 02 | 23 | 15 | 57 | 02 | 06 |
| 4582H | 0401 | 0701 | 401 | 401030102N | 0201 | 03 | 0301 | 0303 | 0401 | 0402 | 0103 | BLANK | 0201 | 2301 | 1503 | 5701 | 0210 | 0602 |
| 4582L | 04 | 07 | 401 | 401 | 02 | 03 | 03 | 03 | 04 | 04 | 01 | BLANK | 02 | 23 | 15 | 57 | 02 | 06 |
| 5720H | 040101 | 070101 | 40103 | 40103N | | | 030101 | 030302 | 040101 | 0402P | | | 020101 | 2301P | 1503P | 570101 | 0210 | 060201 |
| 5720L | 04 | 07 | 401 | 401 | | | 03 | 03 | | | | | 02 | 23 | 15 | 57 | 02 | 06 |

DNA #685

| CENTER | DRB1 | | DRB3/4/5 | | DQA1 | | DQB1 | | DPB1 | | DPA1 | | A-Locus | | B-Locus | | C-Locus | |
|--------|---------|---------|----------|-------|--------|------|--------|--------|---------|-------|------|-------|---------|---------|---------|----------|---------|----------|
| | | | | | | | | | | | | | | | | | | |
| 7 | 01 | 08 | BLANK | BLANK | 01 | 04 | 04 | 05 | | | | | 26 | 33 | 14 | 51 | 02 | 08 |
| 16 | 010201 | 0801 | BLANK | BLANK | 0101P | 0401 | 0402 | 0501 | 030101G | BLANK | 0103 | BLANK | 260101 | 330101 | 140201 | 510101 | 020202 | 080201 |
| 80 | 01 | 08 | BLANK | BLANK | 01 | 0401 | 0402 | 0501 | | | | | 26 | 33 | 14 | 51 | 02 | 08 |
| 124 | 0102 | 0801 | BLANK | BLANK | 01 | 0401 | 0402 | 0501 | 03 | BLANK | | | 26 | 3301/38 | 1402 | 51 | 0202/29 | 0802/52N |
| 134 | 0102 | 0801 | BLANK | BLANK | | | 0402 | 0501 | 030101G | BLANK | | | 2601 | 3301 | 1402 | 5101 | 0202 | 0802 |
| 138 | 0102 | 0801 | BLANK | BLANK | 01 | 04 | 0402 | 0501 | 0301 | BLANK | | | 2601 | 3301 | 1402 | 5101 | 0202 | 0802 |
| 139 | | | | | | | | | | | | | | | | | | |
| 142 | 01 | 08 | BLANK | BLANK | | | 04 | 05 | | | | | 26 | 33 | 14 | 51 | | |
| 144 | 0102 | 0801 | | | 01 | 0401 | 0402 | 0501 | | | | | 2601 | 3301 | 1402 | 5101 | 0202 | 0802 |
| 147 | | | | | | | | | | | | | | | | | | |
| 148 | 01 | 08 | NT | NT | | | NT | NT | NT | NT | | | 2601 | 3301 | 14 | 51 | NT | NT |
| 151 | 0102 | 0801 | | | | | | | | | | | 2601 | 3301 | 1402 | 5101 | | |
| 152 | 01 | 08 | | | | | | | | | | | 26 | 33 | 14 | 51 | | |
| 155 | | | | | | | | | | | | | | | | | | |
| 156 | 0102 | 0801 | | | | | 0402 | 0501 | | | | | 2601 | 3301 | 1402 | 5101 | 0202 | 0802 |
| 158 | 0102 | 0801 | BLANK | BLANK | 01 | 0401 | 0402 | 0501 | 030101G | BLANK | | | 2601 | 3301 | 1402 | 5101 | 0202 | 0802 |
| 160 | 0102 | 0801 | BLANK | BLANK | | | 0402 | 0501 | | | | | 260101 | 330101 | 140201 | 510101 | 0202 | 0802 |
| 162 | 010201 | 0801 | | | | | 0402 | 050101 | | | | | 260101 | 3301 | 140201 | 510101 | 020202 | 0802 |
| 164 | 01 | 08 | | | | | | | | | | | 26 | 33 | 14 | 51 | | |
| 167 | | | | | | | | | | | | | | | | | | |
| 168 | 01 | 08 | | | | | | | | | | | 26 | 33 | 14 | 51 | | |
| 173 | 0102/34 | 0801 | | | 0101/4 | 0401 | 0402 | 0501 | | | | | 26 | 33 | 14 | 51 | | |
| 174 | | | | | | | | | | | | | | | | | | |
| 175 | 010201 | 0801 | | | | | 0402 | 0501 | | | | | 2601 | 3301 | 1402 | 51 | 0202 | 0802 |
| 176 | | | | | | | | | | | | | | | | | | |
| 179 | 0102 | 0801 | BLANK | BLANK | 01 | 04 | 0402 | 0501 | | | | | 26 | 3301 | 1402 | 51 | 02 | 08 |
| 180 | | | | | | | | | | | | | | | | | | |
| 185 | 010201 | 080101G | | | | | 040201 | 050101 | | | | | 260101G | 330101G | 140201 | 510101G | 020202G | 080201G |
| 186 | | | | | | | | | | | | | | | | | | |
| 187 | 0102 | 0801 | | | | | 0402 | 0501 | | | | | 2601 | 3301 | 1402 | 5101 | 0202/32 | 0802/29 |
| 188 | 0102 | 0801 | | | | | | | | | | | | | | | | |
| 189 | 0102 | 0801 | BLANK | BLANK | 01 | 0401 | 0402 | 0501 | NT | NT | NT | NT | 2601 | 3301 | 1402 | 5101 | 0202 | 0802 |
| 190 | 01 | 08 | BLANK | BLANK | | | 04 | 05 | | | | | 26 | 33 | 14 | 51 | 02 | 08 |
| 192 | 0102 | 0801 | BLANK | BLANK | | | 0402 | 0501 | 0301 | BLANK | | | 2601 | 3301 | 1402 | 5101 | 0202 | 0802 |
| 193 | | | | | | | | | | | | | | | | | | |
| 195 | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | | | NT | NT | NT | NT | NT | NT |
| 199 | 01 | 08 | BLANK | BLANK | | | 04 | 05 | | | | | | | | | | |
| 200 | | | | | | | | | | | | | | | | | | |
| 201 | | | | | | | | | | | | | | | | | | |
| 205 | 0102 | 0801 | BLANK | BLANK | 0101 | 0401 | 0402 | 0501 | 0301 | BLANK | 0103 | BLANK | 2601 | 3301 | 1402 | 5101 | 0202 | 0802 |
| 206 | 01 | 08 | | | | | | | | | | | 26 | 33 | 14 | 51 | | |
| 207 | 0102/34 | 0801 | BLANK | BLANK | | | 0402 | 0501 | 030101G | BLANK | | | 26 | 33 | 1402 | 51 | 02 | 08 |
| 208 | 0102 | 0801 | | | | | | | | | | | 2601 | 3301 | 1402 | 5101 | | |
| 209 | NT | NT | NT | NT | | | | | NT | NT | | | NT | NT | NT | NT | NT | NT |
| 210 | | | | | | | | | | | | | | | | | | |
| 211 | | | | | | | | | | | | | | | | | | |
| 212 | | | | | | | | | | | | | | | | | | |
| 213 | 0102 | 0801 | | | | | 0402 | 0501 | | | | | 2601 | 3301 | 1402 | 5101 | 0202 | 0802 |
| 214 | | | | | | | | | | | | | 260101 | 330101 | 14 | 51 | 02 | 08 |
| 215 | NT | NT | NT | NT | | | | | | | | | NT | NT | NT | NT | NT | NT |
| 216 | | | | | | | | | | | | | | | | | | |
| 218 | 0102 | 0801 | | | | | 0402 | 0501 | | | | | 2601 | 3301 | 1402 | 5101 | 0202 | 0802 |
| 220 | | | | | | | | | | | | | | | | | | |
| 222 | 01 | 08 | BLANK | BLANK | | | 04 | 05 | | | | | 26 | 33 | 14 | 51 | | |
| 224 | 01 | 08 | BLANK | BLANK | | | 04 | 05 | | | | | 26 | 33 | 14 | 51 | | |
| 225 | 010101 | 080101 | BLANK | BLANK | | | 0401 | 050101 | | | | | 260101 | 3301 | 140201 | 510101 | 020201 | 0802 |
| 226 | 01 | 08 | | | 01 | 04 | 04 | 05 | | | | | 26 | 33 | 14 | 51 | 02 | 08 |
| 227 | 010201 | 0801 | | | | | 0402 | 050101 | | | | | 260101 | 330101 | 140201 | 510101 | 020202 | 0802 |
| 228 | 0102 | 0801 | BLANK | BLANK | | | 0502 | 0501 | | | | | | | | | | |
| 229 | 0102 | 0801 | BLANK | BLANK | 0101 | 0401 | 0402 | 0501 | 0301 | BLANK | 0103 | BLANK | 2601 | 3301 | 1402 | 5101 | 0202 | 0802 |
| 230 | 0102 | 0801 | BLANK | BLANK | 01 | 04 | 0402 | 0501 | 0301 | BLANK | | | 2601 | 3301 | 1402 | 5101 | 0202 | 0802 |
| 232 | 01 | 08 | | | | | 04 | 05 | | | | | 26 | 33 | 14 | 51 | 02 | 08 |
| 234 | 0102/34 | 0801 | | | 0101/4 | 0401 | 0402 | 0501 | NT | NT | | | 2601/24 | 3301/27 | 1402/16 | 5101/11N | 0202/29 | 0802/32 |
| 235 | 01 | 08 | BLANK | BLANK | | | 04 | 05 | | | | | 26 | 33 | 14 | 51 | 02 | 08 |
| 236 | | | | | | | | | | | | | | | | | | |
| 237 | 01 | 08 | | | | | 04 | 05 | | | | | 26 | 33 | 14 | 51 | | |
| 238 | 0102 | 0801 | | | | | | | | | | | | | | | | |
| 239 | 01 | 08 | BLANK | BLANK | NT | NT | 04 | 05 | NT | NT | NT | NT | 26 | 33 | 14 | 51 | 02 | 08 |
| 240 | 0102 | 0801 | | | 0101 | 0401 | 0402 | 0501 | | | | | NT | NT | NT | NT | NT | NT |
| 242 | | | | | | | | | | | | | | | | | | |
| 244 | | | | | | | | | | | | | | | | | | |
| 246 | 0102 | 0801 | | | | | 04 | 05 | | | | | | | | | | |
| 247 | 0102 | 0801 | | | 0101 | 0401 | 0402 | 0501 | | | | | | | | | | |
| 249 | 010201 | 080101 | | | | | 040201 | 050101 | 030101 | BLANK | | | 260101 | 330101 | 140201 | 510101 | 020202 | 080201 |
| 250 | 01 | 08 | BLANK | BLANK | | | 04 | 05 | | | | | 26 | 33 | 39 | 51 | | |

DNA #685

| CENTER | DRB1 | | DRB3/4/5 | | DQA1 | | DQB1 | | DPB1 | | DPA1 | | A-Locus | | B-Locus | | C-Locus | |
|--------|---------|---------|----------|-------|------|------|--------|--------|------------|-------|---------|-------|---------|--------|---------|---------|---------|--------|
| 251 | NT | NT | NT | NT | | | NT | NT | | | | | NT | NT | NT | NT | | |
| 252 | 01 | 08 | BLANK | BLANK | | | 04 | 05 | | | | | 26 | 33 | 1402 | 51 | 02 | 08 |
| 255 | 01 | 08 | | | | | | | | | | | 26 | 33 | 14 | 51 | | |
| 257 | | | | | | | | | | | | | | | | | | |
| 258 | 010201 | 0801 | | | | | 040201 | 050101 | | | | | 260101 | 330101 | 140201 | 510101 | 020202 | 080201 |
| 259 | 0101 | 0801 | | | | | 0401 | 0501 | | | | | 2601 | 3301 | 3901 | 5101 | | |
| 260 | 0102 | 0801 | BLANK | BLANK | | | 04 | 05 | | | | | 26 | 33 | 14 | 51 | 02 | 08 |
| 262 | | | | | | | | | | | | | | | | | | |
| 278 | 0102 | 0801 | BLANK | BLANK | 01 | 0401 | 0402 | 0501 | 0301 | BLANK | 0103 | BLANK | 2601 | 3301 | 1402 | 5101 | 0202 | 0802 |
| 401 | | | | | | | | | | | | | 2601 | 3301 | 1402 | 5101 | 0202 | 0802 |
| 452 | 0102 | 0801 | BLANK | BLANK | | | 0402 | 0501 | 030101G | BLANK | | | 2601 | 3301 | 1402 | 5101 | 0202 | 0802 |
| 519 | | | | | | | | | | | | | | | | | | |
| 615 | 0102 | 080101G | BLANK | BLANK | | | 0402 | 0501 | 030101G | BLANK | | | | | | | | |
| 616 | 01 | 08 | | | | | | | | | | | 26 | 33 | 14 | 51 | 02 | 08 |
| 635 | 01 | 08 | BLANK | BLANK | | | 04 | 05 | | | | | 26 | 33 | 14 | 51 | 02 | 08 |
| 702 | 0102 | 0801 | BLANK | BLANK | 0101 | 0401 | 0402 | 0501 | 0301 | BLANK | | | 2601 | 3301 | 1402 | 5101 | 0202 | 0802 |
| 714 | 0102 | 0801 | | | | | 0402 | 0501 | | | | | 2601 | 3301 | 1402 | 5101 | 0202 | 0802 |
| 726 | 0102 | 0801 | BLANK | BLANK | | | 0402 | 0501 | | | | | 2601 | 3301 | 1402 | 5101 | 0202 | 0802 |
| 732 | 010201 | 0801 | BLANK | BLANK | | | 040201 | 050101 | | | | | 260101 | 330101 | 140201 | 510101 | 02 | 08 |
| 769 | 0102 | 0801 | BLANK | BLANK | | | 0402 | 0501 | 0301/10401 | BLANK | | | 2601 | 3301 | 1402 | 5101 | 0202 | 0802 |
| 805 | 0102 | 0801 | | | | | 0402 | 0501 | | | | | 2601 | 3301 | 1402 | 5101 | 0202 | 0802 |
| 1113 | 01 | 08 | BLANK | BLANK | NT | NT | 04 | 05 | 030101G | BLANK | | | 26 | 33 | 14 | 51 | 02 | 08 |
| 1189 | 0102 | 0801 | BLANK | BLANK | | | 0402 | 0501 | 0301 | BLANK | | | 2601 | 3301 | 1402 | 5101 | 0202 | 0802 |
| 1212 | NT | NT | NT | NT | | | NT | NT | NT | NT | | | NT | NT | NT | NT | NT | NT |
| 1251 | 0102/34 | 0801 | BLANK | BLANK | 0101 | 0401 | 0402 | 0501 | 030101G | BLANK | | | 26 | 33 | 1402 | 51 | 0202 | 08 |
| 1498 | | | | | | | | | | | | | | | | | | |
| 1647 | 01 | 08 | BLANK | BLANK | | | 04 | 05 | | | | | 26 | 33 | 14 | 51 | 02 | 08 |
| 1686 | 0102 | 0801 | BLANK | BLANK | 0101 | 0401 | 0402 | 0501 | 030101G | BLANK | 0103 | BLANK | 2601 | 3301 | 1402 | 5101 | 0202 | 0802 |
| 1905 | 0102 | 0801 | BLANK | BLANK | | | 0402 | 0501 | 0301P | BLANK | | | 2601 | 3301 | 1402 | 5101 | 0202 | 0802 |
| 2004 | 0102 | 0801 | BLANK | BLANK | 0101 | 0401 | 0402 | 0501 | | | | | 2601 | 3301 | 1402 | 5101 | 0202 | 0802 |
| 2013 | 0102 | 0801 | BLANK | BLANK | | | 04 | 05 | | | | | 2601 | 3301 | 1402 | 5101 | 0202 | 0802 |
| 2015 | | | | | | | | | | | | | 260101 | 330101 | 140201 | 510101 | 020202 | 0802 |
| 2063 | | | | | | | | | | | | | | | | | | |
| 2347 | 01 | 08 | BLANK | BLANK | 01 | 04 | 04 | 05 | 030101G | BLANK | NT | NT | 26 | 33 | 14 | 51 | 02 | 08 |
| 2411 | 0102 | 0801 | | | | | 0402 | 0501 | | | | | 2601 | 3301 | 1402 | 5101 | 0202 | 0802 |
| 2518 | 01 | 08 | BLANK | BLANK | 01 | 0401 | 0402 | 0501 | 0301 | BLANK | 0103 | BLANK | 26 | 33 | 14 | 51 | 02 | 08 |
| 2549 | 0102 | 0801 | BLANK | BLANK | 0101 | 0401 | 0402 | 0501 | 030101G | BLANK | | | 2601 | 3301 | 1402 | 5101 | 0202 | 0802 |
| 3248 | | | | | | | | | | | | | | | | | | |
| 3261 | | | | | | | | | | | | | 2601 | 3301 | 1402 | 5101 | 0202 | 0802 |
| 3264 | 0102 | 0801 | | | NT | NT | 0402 | 0501 | 0301/10401 | BLANK | | | 2601 | 3301 | 1402 | 5101 | 0202 | 0802 |
| 3324 | 0102 | 0801 | BLANK | BLANK | 0101 | 0401 | 0402 | 0501 | 0301/10401 | BLANK | | | 2601 | 3301 | 1402 | 5101 | 0202 | 0802 |
| 3325 | 0102 | 0801 | BLANK | BLANK | 0101 | 0401 | 0402 | 0501 | | | | | 2601 | 3301 | 1402 | 5101 | 0202 | 0802 |
| 3410 | 0102 | 0801 | | | | | 0402 | 0501 | | | | | 2601 | 3301 | 1402 | 5101 | 0202 | 0802 |
| 3438 | 0102 | 0801 | | | | | 0402 | 0501 | | | | | NT | NT | NT | NT | NT | NT |
| 3522 | | | | | | | | | | | | | | | | | | |
| 3582 | | | | | | | | | | | | | | | | | | |
| 3614 | 0102 | 0801 | | | 01 | 0401 | 0402 | 0501 | | | | | 2601 | 3301 | 1402 | 5101 | 0202 | 0802 |
| 3625 | 0102 | 0801 | BLANK | BLANK | | | 0402 | 0501 | 0301/10401 | BLANK | | | 2601 | 3301 | 14 | 51 | 02 | 0802 |
| 3807 | 0102/26 | 08 | BLANK | BLANK | 0101 | 0401 | 0402/4 | 05 | 0301 | BLANK | 0103/10 | BLANK | 2601 | 3301 | 1402/27 | 5101/21 | 02 | 08 |
| 3849 | 0102 | 0801 | BLANK | BLANK | 0101 | 0401 | 0402 | 0501 | | | | | 26 | 33 | 14 | 51 | 02 | 08 |
| 4237 | 010201 | 0801 | BLANK | BLANK | | | 0402 | 0501 | | | | | 260101 | 330101 | 140201 | 510101 | 0202 | 0802 |
| 4281 | | | | | | | | | | | | | | | | | | |
| 4420 | 0102 | 0801 | | | | | | | | | | | 2601 | 3303 | 1402 | 5101 | 0202/10 | 0802 |
| 4545 | 0102 | 0801 | BLANK | BLANK | 0101 | 0401 | 0402 | 0501 | 030101G | BLANK | | | 2601 | 3301 | 1402 | 5101 | 0202 | 0802 |
| 4551 | 0102 | 0801 | BLANK | BLANK | 01 | 0401 | 0402 | 0501 | 0301/10401 | BLANK | | | 2601 | 3301 | 1402 | 5101 | 0202 | 0802 |
| 4585 | 0102/34 | 0801/16 | | | 01 | 0401 | 0402 | 0501 | | | | | 26 | 33 | 14 | 51 | 02 | 08 |
| 4613 | | | | | | | | | | | | | | | | | | |
| 4653 | 0102 | 0801 | | | 01 | 0401 | 0402 | 0501 | | | | | 26 | 33 | 14 | 51 | 02 | 08 |
| 4709 | 0102 | 0801 | BLANK | BLANK | 01 | 0401 | 0402 | 0501 | 0301 | BLANK | | | 2601 | 3301 | 1402 | 5101 | 0202 | 0802 |
| 5204 | 0102 | 0801 | | | | | 0402 | 0501 | | | | | 2601 | 3301 | 1402 | 5101 | 0202 | 0802 |
| 5982 | | | | | | | | | | | | | | | | | | |
| 6051 | 0102 | 0801 | | | 01 | 0401 | 0402 | 0501 | 0301 | BLANK | 0103 | BLANK | 26 | 33 | 1402 | 51 | 02 | 08 |
| 6313 | 0102 | 0801 | | | | | 0402 | 0501 | | | | | 26 | 33 | 14 | 51 | 02 | 0802 |
| 9221 | 0102 | 0801 | BLANK | BLANK | 01 | 0401 | 04 | 05 | NT | NT | | | 26 | 33 | 14 | 51 | 02 | 08 |
| 197H | 0102 | 0801 | | | | | 0402 | 0501 | 030101G | BLANK | | | 2601 | 3301 | 1402 | 5101 | 0202 | 0802 |
| 197L | 01 | 08 | BLANK | BLANK | 01 | 0401 | 0402 | 0501 | | | | | 26 | 33 | 14 | 51 | 02 | 08 |
| 4582H | 0102 | 0801 | BLANK | BLANK | 01 | 0401 | 0402 | 0501 | NT | NT | 0103 | BLANK | 2601 | 3301 | 1402 | 5101 | 0202 | 0802 |
| 4582L | 01 | 08 | BLANK | BLANK | 01 | 04 | 04 | 05 | NT | NT | 01 | BLANK | 26 | 33 | 14 | 51 | 02 | 08 |
| 5720H | 010201 | 0801 | BLANK | BLANK | | | 0402 | 050101 | 0301P | BLANK | | | 260101 | 330101 | 140201 | 510101 | 020202 | 080201 |
| 5720L | 01 | 08 | BLANK | BLANK | | | 04 | 05 | | | | | 26 | 33 | 14 | 51 | 02 | 08 |

DNA #686

| CENTER | DRB1 | | DRB3/4/5 | | DQA1 | | DQB1 | | DPB1 | | DPA1 | | A-Locus | | B-Locus | | C-Locus | |
|--------|---------|---------|-----------|-------|--------|--------|---------|--------|---------|------------|------|-------|----------|-----------|---------|--------|---------|---------|
| | | | | | | | | | | | | | | | | | | |
| 7 | 01 | 13 | 301 | BLANK | 01 | 05 | 03 | 05 | | | | | 11 | 23 | 27 | 50 | 01 | 05 |
| 16 | 0101 | 1303 | 30101 | BLANK | 0101P | 0505/9 | 0301/27 | 0501 | 030101G | 040101G | 0103 | BLANK | 110101 | 230101/17 | 270502G | 500101 | 0102 | 050101 |
| 80 | 01 | 13 | 30101 | BLANK | 01 | 05 | 03 | 0501 | | | | | 11 | 23 | 27 | 50 | 01 | 05 |
| 124 | 0101 | 1303 | 30101 | BLANK | 01 | 0505/9 | 0301 | 0501 | 03 | 0401/12601 | | | 11 | 23 | 2705/13 | 5001 | 01 | 05 |
| 134 | 0101 | 1303 | 30101 | BLANK | | | 0301 | 0501 | 030101G | 0401 | | | 1101 | 2301 | 2705 | 5001 | 0102 | 0501 |
| 138 | 0101 | 1303 | 301 | BLANK | 01 | 05 | 0301 | 0501 | 0301 | 0401 | | | 1101 | 2301 | 2705 | 5001 | 0102 | 0501 |
| 139 | | | | | | | | | | | | | | | | | | |
| 142 | 01 | 13 | 301 | BLANK | | | 03 | 05 | | | | | 11 | 23 | 27 | 50 | | |
| 144 | 0101 | 1303 | | | 01 | 05 | 0301 | 0501 | | | | | 1101 | 2301/17 | 2705/13 | 5001 | 0102 | 0501 |
| 147 | | | | | | | | | | | | | | | | | | |
| 148 | 01 | 13 | NT | NT | | | NT | NT | NT | NT | | | 11 | 23 | 27 | 5001 | NT | NT |
| 151 | 0101 | 1303 | | | | | | | | | | | 1101 | 2301 | 2705 | 5001 | | |
| 152 | 01 | 13 | | | | | | | | | | | 11 | 23 | 27 | 50 | | |
| 155 | | | | | | | | | | | | | | | | | | |
| 156 | 0101 | 1303 | | | | | 0301 | 0501 | | | | | 1101 | 2301 | 2705 | 5001 | 0102 | 0501 |
| 158 | 0101 | 1303 | 30101 | BLANK | 01 | 05 | 0301 | 0501 | 030101G | 0401 | | | 1101 | 2301 | 2705 | 5001 | 0102 | 0501 |
| 160 | 0101 | 1303 | 30101 | BLANK | | | 0301 | 0501 | | | | | 1101 | 2301 | 2705 | 5001 | 0102 | 0501 |
| 162 | 010101 | 130301 | | | | | 0301/19 | 050101 | | | | | 110101 | 230101 | 270502 | 5001 | 0102 | 050101 |
| 164 | 01 | 13 | | | | | | | | | | | 11 | 23 | 27 | 50 | | |
| 167 | | | | | | | | | | | | | | | | | | |
| 168 | 01 | 13 | | | | | | | | | | | 11 | 23 | 27 | 50 | | |
| 173 | 0101/32 | 1303 | | | 0101/4 | 0505/9 | 0301/27 | 0501 | | | | | 11 | 23 | 27 | 50 | | |
| 174 | | | | | | | | | | | | | | | | | | |
| 175 | 010101 | 130301 | | | | | 0301 | 0501 | | | | | 1101 | 2301 | 2705 | 5001 | 0102 | 0501 |
| 176 | | | | | | | | | | | | | | | | | | |
| 179 | 0101/10 | 1303/12 | 30101 | BLANK | 01 | 05 | 03 | 0501 | | | | | 11 | 23 | 2705/13 | 5001 | 01 | 05 |
| 180 | | | | | | | | | | | | | | | | | | |
| 185 | 010101 | 130301 | | | | | 03 | 050101 | | | | | 1101/19 | 2301/13 | 270502G | 500101 | 0102/43 | 0501/29 |
| 186 | | | | | | | | | | | | | | | | | | |
| 187 | 0101/7 | 1303 | | | | | 0301 | 0501 | | | | | 1101/19 | 2301/17 | 2705/13 | 5001 | 0102 | 0501 |
| 188 | 0101 | 1303 | | | | | | | | | | | | | | | | |
| 189 | 0101 | 1303 | 30101 | BLANK | 01 | 0505/9 | 0301 | 0501/7 | NT | NT | NT | NT | 1101 | 2301/17 | 2705/13 | 5001 | 0102 | 0501 |
| 190 | 01 | 13 | 3 | BLANK | | | 03 | 05 | | | | | 11 | 23 | 27 | 50 | 01 | 05 |
| 192 | 0101 | 1303 | 30101 | BLANK | | | 0301 | 0501 | 0301 | 0401 | | | 1101 | 2301 | 2705 | 5001 | 0102 | 0501 |
| 193 | | | | | | | | | | | | | | | | | | |
| 195 | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | | | NT | NT | NT | NT | NT | NT |
| 199 | 03 | 13 | 3 | BLANK | | | 03 | 05 | | | | | | | | | | |
| 200 | | | | | | | | | | | | | | | | | | |
| 201 | | | | | | | | | | | | | | | | | | |
| 205 | 0101 | 1303 | 30101 | BLANK | 0101 | 0505 | 0301 | 0501 | 030101G | 0401 | 0103 | BLANK | 1101 | 2301/17 | 2705 | 5001 | 0102 | 0501 |
| 206 | 01 | 13 | | | | | | | | | | | 11 | 23 | 27 | 50 | | |
| 207 | 0101/32 | 1303 | NT | NT | | | 03 | 0501 | 030101G | 040101G | | | 11 | 23 | 27 | 50 | 01 | 05 |
| 208 | 0101/7 | 1303 | | | | | | | | | | | 1101 | 2301 | 2705 | 5001 | | |
| 209 | NT | NT | NT | NT | | | | | NT | NT | | | NT | NT | NT | NT | NT | NT |
| 210 | | | | | | | | | | | | | | | | | | |
| 211 | | | | | | | | | | | | | | | | | | |
| 212 | | | | | | | | | | | | | | | | | | |
| 213 | 0101 | 1303 | | | | | 03 | 0501 | | | | | 1101 | 2301/17 | 2705/13 | 5001 | 0102 | 0501 |
| 214 | | | | | | | | | | | | | 11 | 23 | 270502 | 500101 | 01 | 05 |
| 215 | NT | NT | NT | NT | | | | | | | | | NT | NT | NT | NT | NT | NT |
| 216 | | | | | | | | | | | | | | | | | | |
| 218 | 0101 | 1303 | | | | | 0301 | 0501 | | | | | 1101 | 2301 | 2705 | 5001 | 0102 | 0501 |
| 220 | | | | | | | | | | | | | | | | | | |
| 222 | 01 | 13 | 301 | BLANK | | | 03 | 05 | | | | | 11 | 23 | 27 | 50 | | |
| 224 | 01 | 13 | 301 | BLANK | | | 03 | 05 | | | | | 11 | 23 | 27 | 50 | | |
| 225 | 010101 | 130101 | 301010201 | BLANK | | | 030101 | 050101 | | | | | 110101 | 2301 | 2703 | 3563 | 010201 | 050101 |
| 226 | 01 | 13 | | | 01 | 05 | 03 | 05 | | | | | 11 | 23 | 27 | 50 | 01 | 05 |
| 227 | 0101 | 1303 | | | | | 030101 | 050101 | | | | | 110101 | 2301 | 270502 | 5001 | 0102 | 050101 |
| 228 | 0101 | 1303 | 30101 | BLANK | | | 0301 | 0501 | | | | | | | | | | |
| 229 | 0101 | 1303 | 30101 | BLANK | 0101 | 0505 | 0301 | 0501 | 030101G | 0401 | 0103 | BLANK | 1101 | 2301 | 2705 | 5001 | 0102 | 0501 |
| 230 | 0101 | 1303 | 30101 | BLANK | 01 | 05 | 0301 | 0501 | 030101G | 0401 | | | 1101 | 2301 | 2705 | 5001 | 0102 | 0501 |
| 232 | 01 | 13 | | | | | 03 | 05 | | | | | 11 | 23 | 27 | 50 | 01 | 05 |
| 234 | 0101/32 | 1303 | | | 0101/4 | 0505/9 | 0301/27 | 0501 | NT | NT | | | 1101/21N | 2301/7N | 2705/13 | 5001/8 | 0102 | 0501/3 |
| 235 | 01 | 13 | 3 | BLANK | | | 03 | 05 | | | | | 11 | 23 | 27 | 50 | 01 | 05 |
| 236 | | | | | | | | | | | | | | | | | | |
| 237 | 01 | 13 | | | | | 03 | 05 | | | | | 11 | 23 | 27 | 50 | | |
| 238 | 0101 | 1303 | | | | | | | | | | | | | | | | |
| 239 | 01 | 13 | 3 | BLANK | NT | NT | 03 | 05 | NT | NT | NT | NT | 11 | 23 | 27 | 50 | 01 | 05 |
| 240 | 0101 | 1303 | | | 0101 | 0505 | 0301 | 0501 | | | | | 1101 | 2301 | 2705 | 5001 | 0102 | 0501 |
| 242 | | | | | | | | | | | | | | | | | | |
| 244 | | | | | | | | | | | | | | | | | | |
| 246 | 0101 | 1303 | | | | | 03 | 05 | | | | | | | | | | |
| 247 | 0101 | 1303 | | | 0101 | 0505 | 0301 | 0501 | | | | | | | | | | |
| 249 | 010101 | 130301 | | | | | 030101 | 050101 | 030101G | 0401 | | | 110101 | 230101 | 270502 | 500101 | 010201 | 050101 |
| 250 | 01 | 13 | 3 | BLANK | | | 03 | 05 | | | | | 11 | 23 | 27 | 50 | | |

DNA #686

| CENTER | DRB1 | | DRB3/4/5 | | DQA1 | | DQB1 | | DPB1 | | DPA1 | | A-Locus | | B-Locus | | C-Locus | |
|--------|---------|---------|----------|-------|------|---------|---------|--------|---------|---------|---------|-------|---------|---------|---------|--------|---------|--------|
| 251 | 01 | 13 | 3 | BLANK | | | 03 | 05 | | | | | 11 | 23 | 27 | 55 | | |
| 252 | 01 | 13 | 3 | BLANK | | | 0301/4 | 05 | | | | | 11 | 23 | 27 | 50 | 01 | 05 |
| 255 | 01 | 13 | | | | | | | | | | | 11 | 23 | 27 | 50 | | |
| 257 | | | | | | | | | | | | | | | | | | |
| 258 | 010101 | 130301 | | | | | 030101 | 050101 | | | | | 110101 | 230101 | 270502 | 500101 | 010201 | 050101 |
| 259 | 0101 | 1301 | | | | | 0301 | 0501 | | | | | 1101 | 2301 | 2703 | 3563 | | |
| 260 | 0101 | 1303 | 3 | BLANK | | | 03 | 05 | | | | | 11 | 23 | 27 | 50 | 01 | 05 |
| 262 | | | | | | | | | | | | | | | | | | |
| 278 | 0101 | 1303 | 30101 | BLANK | 01 | 0505/9 | 0301 | 0501 | 030101G | 0401 | 0103 | BLANK | 1101 | 2301 | 2705 | 5001 | 0102 | 0501 |
| 401 | | | | | | | | | | | | | 1101 | 2301/17 | 2705/13 | 5001 | 0102 | 0501 |
| 452 | 0101 | 1303 | 30101 | BLANK | | | 0301 | 0501 | 030101G | 0401 | | | 1101 | 2301 | 2705 | 5001 | 0102 | 0501 |
| 519 | | | | | | | | | | | | | | | | | | |
| 615 | 0101 | 1303 | 3010102G | BLANK | | | 030101G | 0501 | 030101G | 040101G | | | | | | | | |
| 616 | 01 | 13 | | | | | | | | | | | 11 | 23 | 27 | 50 | 01 | 05 |
| 635 | 01 | 13 | 3 | BLANK | | | 03 | 05 | | | | | 11 | 23 | 27 | 50 | 01 | 05 |
| 702 | 0101 | 1303 | 30101 | BLANK | 0101 | 0505 | 0301 | 0501 | 0301 | 0401 | | | 1101 | 2301 | 2705 | 5001 | 0102 | 0501 |
| 714 | 0101 | 1303 | | | | | 0301 | 0501 | | | | | 1101 | 2301 | 2705 | 5001 | 0102 | 0501 |
| 726 | 0101 | 1303 | 301 | BLANK | | | 0301 | 0501 | | | | | 1101 | 2301 | 2705 | 5001 | 0102 | 0501 |
| 732 | 010101 | 130301 | 30101 | BLANK | | | 03 | 050101 | | | | | 110101 | 2301/17 | 2705/13 | 500101 | 010201 | 050101 |
| 769 | 0101 | 1303 | 30101 | BLANK | | | 0301 | 0501 | 030101G | 0401 | | | 1101 | 2301 | 2705 | 5001 | 0102 | 0501 |
| 805 | 0101 | 1303 | | | | | 0301 | 0501 | | | | | 1101 | 2301 | 2705 | 5001 | 0102 | 0501 |
| 1113 | 01 | 13 | NT | NT | NT | NT | 03 | 05 | 030101G | 0401 | | | 11 | 23 | 27 | 50 | 01 | 05 |
| 1189 | 0101 | 1303 | 30101 | BLANK | | | 0301 | 0501 | 030101G | 0401 | | | 1101 | 2301/17 | 2705 | 5001 | 0102 | 0501 |
| 1212 | NT | NT | NT | NT | | | NT | NT | NT | NT | | | NT | NT | NT | NT | NT | NT |
| 1251 | 0101/32 | 1303 | 30101 | BLANK | 0101 | 0505 | 03 | 0501/7 | 030101G | 0401 | | | 11 | 23 | 27 | 50 | 01 | 05 |
| 1498 | | | | | | | | | | | | | | | | | | |
| 1647 | 01 | 13 | 3 | BLANK | | | 03 | 05 | | | | | 11 | 23 | 27 | 50 | 01 | 05 |
| 1686 | 0101 | 1303 | 30101 | BLANK | 0101 | 0505 | 0301 | 0501 | 030101G | 0401 | 0103 | BLANK | 1101 | 2301 | 2705 | 5001 | 0102 | 0501 |
| 1905 | 0101 | 1303 | 301 | BLANK | | | 0301 | 0501 | 0301P | 0401P | | | 1101 | 2301 | 2705 | 5001 | 0102 | 0501 |
| 2004 | 0101 | 1303 | 30101 | BLANK | 0101 | 0505 | 0301 | 0501 | | | | | 1101 | 2301 | 2705 | 5001 | 0102 | 0501 |
| 2013 | 0101 | 1303 | 301 | BLANK | | | 03 | 05 | | | | | 1101 | 2301 | 2705 | 5001 | 0102 | 0501 |
| 2015 | | | | | | | | | | | | | 110101 | 230101 | 2705 | 500101 | 0102 | 050101 |
| 2063 | | | | | | | | | | | | | | | | | | |
| 2347 | 01 | 13 | 3 | BLANK | NT | NT | 0301 | 05 | 030101G | 040101G | 0103 | BLANK | 11 | 23 | 27 | 50 | 01 | 05 |
| 2411 | 0101 | 1303 | | | | | 0301 | 0501 | | | | | 1101 | 2301 | 2705 | 5501 | 0102 | 0501 |
| 2518 | 01 | 13 | NT | NT | 01 | 05 | 03 | 0501 | 0301 | 0401 | 0103 | BLANK | 11 | 23 | 27 | 50 | 01 | 05 |
| 2549 | 0101 | 1303 | 30101/12 | BLANK | 0101 | 0505/10 | 030101G | 0501 | 030101G | 040101G | | | 1101 | 2301/17 | 2705 | 5001 | 0102 | 0501 |
| 3248 | | | | | | | | | | | | | | | | | | |
| 3261 | | | | | | | | | | | | | | | | | | |
| 3264 | 0101 | 1303 | | | NT | NT | 0301 | 0501 | 030101G | 0401 | | | 1101 | 2301 | 2705 | 5001 | 0102 | 0501 |
| 3324 | 0101 | 1303 | 301 | BLANK | 0101 | 0505 | 0301 | 0501 | 030101G | 0401 | | | 1101 | 2301/17 | 2705/13 | 5001 | 0102 | 0501 |
| 3325 | 0101 | 1303 | 30101 | BLANK | 0101 | 0505 | 0301 | 0501 | | | | | 1101 | 2301 | 2705 | 5001 | 0102 | 0501 |
| 3410 | 0101 | 1303 | | | | | 0301 | 0501 | | | | | 1101 | 2301 | 2705 | 5001 | 0102 | 0501 |
| 3438 | 0101 | 1303 | | | | | 0301 | 0501 | | | | | NT | NT | NT | NT | NT | NT |
| 3522 | | | | | | | | | | | | | | | | | | |
| 3582 | | | | | | | | | | | | | | | | | | |
| 3614 | 0101 | 1303 | | | 01 | 05 | 0301 | 0501 | | | | | 1101 | 2301 | 2705 | 5001 | 0102 | 0501 |
| 3625 | 0101/20 | 1303 | 3 | BLANK | | | 03 | 05 | 0301 | 0401 | | | 1101 | 2301/17 | 27 | 5001 | 0102 | 0501 |
| 3807 | 01 | 13 | 301 | BLANK | 0101 | 05 | 03 | 05 | 030101G | 0401 | 0103/10 | BLANK | 11 | 23 | 2705/13 | 5001 | 01 | 05 |
| 3849 | 0101 | 1303 | 301 | BLANK | 0101 | 0505/10 | 0301 | 0501 | | | | | 11 | 23 | 27 | 50 | 01 | 05 |
| 4237 | 010101 | 130301 | 30101 | BLANK | | | 0301 | 0501 | | | | | 110101 | 230101 | 2705 | 500101 | 0102 | 0501 |
| 4281 | | | | | | | | | | | | | | | | | | |
| 4420 | 0101 | 1303/12 | | | | | | | | | | | 1101 | 2301/17 | 2705/3 | 5001 | 0102 | 0501 |
| 4545 | 0101 | 1303 | 301 | BLANK | 0101 | 05 | 0301 | 0501 | 030101G | 040101G | | | 1101 | 2301/17 | 2705/13 | 5001 | 0102 | 0501 |
| 4551 | 0101 | 1303 | 30101 | BLANK | 01 | 0505/9 | 0301 | 0501 | 030101G | 0401 | | | 1101 | 230101G | 2705 | 5001 | 0102 | 0501 |
| 4585 | 01 | 13 | | | 01 | 0505/9 | 0301 | 0501 | | | | | 11 | 23 | 27 | 5001/8 | 01 | 05 |
| 4613 | | | | | | | | | | | | | | | | | | |
| 4653 | 0101 | 1303 | | | 01 | 0505/9 | 0301 | 0501 | | | | | 11 | 23 | 27 | 50 | 01 | 05 |
| 4709 | 0101 | 1303 | NT | NT | 01 | 05 | 0301 | 0501 | 0301 | 0401 | | | 1101 | 2301/17 | 2705/13 | 5001 | 0102 | 0501 |
| 5204 | 0101 | 1303 | | | | | 030101G | 0501 | | | | | 1101 | 230101G | 270502G | 5001 | 0102 | 0501 |
| 5982 | | | | | | | | | | | | | | | | | | |
| 6051 | 0101 | 1303 | | | 01 | 05 | 0301 | 0501 | 0301 | 0401 | 0103 | BLANK | 11 | 23 | 27 | 50 | 01 | 05 |
| 6313 | 01 | 1303 | | | | | 03 | 0501 | | | | | 11 | 23 | 27 | 50 | 01 | 05 |
| 9221 | 01 | 1303 | 3 | BLANK | 01 | 05 | 03 | 05 | NT | NT | | | 11 | 23 | 27 | 50 | 01 | 05 |
| 197H | 0101 | 1303 | | | | | 0301 | 0501 | 030101G | 0401 | | | 1101 | 2301 | 270502G | 5001 | 0102 | 0501 |
| 197L | 01 | 13 | 30101 | BLANK | 01 | 05 | 03 | 0501 | | | | | 11 | 23 | 27 | 50 | 01 | 05 |
| 4582H | 0101 | 1303 | 30101 | BLANK | 01 | 0505/9 | 0301 | 0501 | 030101G | 0401 | 0103 | BLANK | 1101 | 2301 | 2705 | 5001 | 0102 | 0501 |
| 4582L | 01 | 13 | 301 | BLANK | 01 | 05 | 03 | 05 | 030101G | 04 | 01 | BLANK | 11 | 23 | 27 | 50 | 01 | 05 |
| 5720H | 010101 | 130301 | 3010102 | BLANK | | | 030101 | 050101 | 0301P | 040101 | | | 110101 | 2301P | 2705P | 500101 | 010201 | 050101 |
| 5720L | 01 | 13 | 301 | BLANK | | | 03 | 05 | | | | | 11 | 23 | 27 | 50 | 01 | 05 |

PARTICIPANTS AND METHODS

| CENTER | DRB1 | DRB3/4/5 | DQA1 | DQB1 | DPB1 | DPA1 | A-Locus | B-Locus | C-Locus |
|--------|-------------------|------------------|------------------|-------------------|-----------------|------------------|-------------------|-------------------|-------------------|
| 7 | | | | | | | | | |
| 16 | SSO-OL,SBT-Atr | SSO-OL,SSP-Invit | SSO-OL | SSO-OL | SSO-OL,SBT-Atr | SSO-OL | SSO-OL,SBT-Atr | SSO-OL,SBT-Atr | SSO-OL,SBT-Atr |
| 80 | SSO-OL | SSO-OL | | | | | SSO-OL | SSO-OL | |
| 124 | SBT | SBT | SSO-Lum | SBT | SBT | | SBT | SBT | SBT |
| 134 | SBT,SSP,SSO | SSP-Gen | | SSO-OL,SSP-Gen | SBT-Atr,SSP-Gen | | SBT,SSP,SSO | SBT,SSP,SSO | SBT,SSP,SSO |
| 138 | SBT,SSP,SSO | SSO-OL | SSO-OL | SBT,SSP,SSO | SSP-Ole | | SBT,SSP,SSO | SBT,SSP,SSO | SBT,SSP,SSO |
| 139 | | | | | | | | | |
| 142 | SSO | SSO | | SSO | | | SSO | SSO | |
| 144 | SBT-Pro | | SSO-Lab | SBT-Pro | | | SBT-Pro | SBT-Pro | SBT-Pro |
| 147 | | | | | | | | | |
| 148 | SSP-Invit,SBT-Atr | SBT-Qia | | SBT-Pro | SBT-Atr | | SSP-Invit,SBT-Atr | SSP-Invit,SBT-Atr | SSP-Invit,SBT-Atr |
| 151 | SBT-SeCore | | | | | | SBT-SeCore | SBT-SeCore | |
| 152 | SSP-OL | | | | | | SSP-OL | SSP-OL | |
| 155 | | | | | | | | | |
| 156 | | | | | | | | | |
| 158 | SSP-Invit | SSP-Invit | SSO-Lum,Ingen | SSP-OL | SSP-Invit | | SSP-Ole | SSP-Ole | SSP-Ole |
| 160 | SBT,SSP,SSO | SSP-Invit | | SSP-Invit,SBT-Atr | | | SSP-Ole,SBT-Atr | SSP-Ole,SBT-Atr | SSP-Ole,SBT-Atr |
| 162 | SSP,SBT | | | SSP,SBT | | | SSP,SBT | SSP,SBT | SSP,SBT |
| 164 | LiPA | | | | | | LiPA | LiPA | |
| 167 | | | | | | | | | |
| 168 | | | | | | | | | |
| 173 | SSO-Lum | | SSO-Lum,Dy | SSO-Lum,Dy | | | SSO-Lum | SSO-Lum | |
| 174 | | | | | | | | | |
| 175 | SSO-Invit | | | SSO,SSP | | | SSO,SSP-Invit | SSO,SSP-Invit | SSO,SSP-Invit |
| 176 | | | | | | | | | |
| 179 | SBT | SBT | SBT | SSO | | | SBT | SBT | SBT |
| 180 | | | | | | | | | |
| 185 | SBT-inh | | | SBT-inh | | | SBT-inh | SBT-inh | SBT-inh |
| 186 | | | | | | | | | |
| 187 | SBT-Atr | | | SBT-Atr | | | SBT-Atr | SBT-Atr | SBT-Atr |
| 188 | SSO-OL,SBT-Atr | | | | | | | | |
| 189 | SSO-Lum | SSO-Lum | SSO-Lum | SSO-Lum | SSO-Lum | Luminex | SBT,SSP,SSO | SBT,SSP,SSO | SBT,SSP,SSO |
| 190 | SSP | SSP | | SSP | | | SSP | SSP | SSP |
| 192 | SSP,SBT | SSP | | SSP,SBT | SSP,SBT | | SSP,SBT | SSP,SBT | SSP,SBT |
| 193 | | | | | | | | | |
| 195 | SSO-OL,SSP-Ole | SSP-Ole | SSO-OL,SSP-Ole | SSO-OL,SSP-Ole | SSO-OL,SSP-Ole | | SSO-OL,SSP-Ole | SSO-OL,SSP-Ole | SSO-OL,SSP-Ole |
| 199 | | | | | | | | | |
| 200 | | | | | | | | | |
| 201 | | | | | | | | | |
| 205 | SBT,SSP,SSO | SSO-OL,SSP-Invit | SSO-OL,SSP-Invit | SBT,SSP,SSO | SBT,SSP,SSO | SSO-OL,SSP-Invit | SBT,SSP,SSO | SBT,SSP,SSO | SBT,SSP,SSO |
| 206 | SSO-OL | | | | | | SSO-OL | SSO-OL | |
| 207 | SSO,SSP | SSO,SSP | | SSO,SBT | SBT,SSP,SSO | | SBT,SSP,SSO | SBT,SSP,SSO | SBT,SSP,SSO |
| 208 | SBT-Invit | | | | | | SBT-Invit | SBT-Invit | |
| 209 | SSP-Inn | SSP-Inn | | | SSP-Ole | | SSP-Inn,Ole | SSP-Inn | SSP-Inn |
| 210 | | | | | | | | | |
| 211 | | | | | | | | | |
| 212 | SBT-Atr | | | SSO-OL | | | SBT-Atr | SBT-Atr | SBT-Atr |
| 213 | | | | | | | | | |
| 214 | | | | | | | | | |
| 215 | SSP-Bio | SSP-Bio | | | | | SSP-Bio | SSP-Bio | SSP-Bio |
| 216 | | | | | | | | | |
| 218 | SBT-inh | | | SBT-inh | | | SBT-inh | SBT-inh | SBT-inh |
| 220 | | | | | | | | | |
| 222 | SSP-Invit | SSP-Invit | | SSP-Invit | | | SSP-Invit | SSP-Invit | |
| 224 | SSP-Invit | SSP-Invit | | SSP-Invit | | | SSP-Invit | SSP-Invit | |
| 225 | SSP-Invit | SSP-Invit | | SSP-Invit | | | SSP-Invit | SSP-Invit | SSP-Invit |
| 226 | SSO-Lab | SSO-Lab | SSO-Lab | SSO-Lab | | | SSO-Lab | SSO-Lab | SSO-Lab |
| 227 | SSO-OL,SBT-Abt | | | SSO-OL,SBT-Abt | | | SSO-OL,SBT-Abt | SSO-OL,SBT-Abt | SSO-OL,SBT-Abt |
| 228 | | | | | | | | | |
| 229 | SSO-Ole | SSP-Ole | SSP-Ole | SSP-Ole | SSP-Ole | SSP-Ole | SSP-Ole | SSP-Ole | SSP-Ole |
| 230 | SBT-Invit | SSO-OL | SSO-Ole | | | | SBT-Invit | SSO-OL | SSP-Ole |
| 232 | | | | | | | | | |
| 234 | | | | | SSP-Invit | | | | |
| 235 | SSP-GTI | SSP-GTI | | SSP-GTI | | | SSP-GTI | SSP-GTI | SSP-GTI |
| 236 | | | | | | | | | |
| 237 | | | | | | | | | |
| 238 | SSP,SBT | | | | | | | | |
| 239 | SSP-OL | SSP-OL | SSP-OL | SSP-OL | SSP-OL | SSP-OL | SSP-OL | SSP-OL | SSP-OL |
| 240 | SSO,SSP-OL | | SSO,SSP-OL | SSO,SSP-OL | | | SSO,SSP-OL | SSO,SSP-OL | SSO,SSP-OL |
| 242 | | | | | | | | | |
| 244 | | | | | | | | | |
| 246 | SSP-OL,Invit | | | SSP-OL,Invit | | | | | |
| 247 | SSP-Invit | | SSO-Inn,LiPA | SSO-Inn,LiPA | | | | | |
| 249 | SBT-Bio | | | SBT-Bio | SBT-Bio | | SBT-Bio | SBT-Bio | SBT-Bio |
| 250 | SSP | SSP | | SSP | | | SSP | SSP | |

PARTICIPANTS AND METHODS

| CENTER | DRB1 | DRB3/4/5 | DQA1 | DQB1 | DPB1 | DPA1 | A-Locus | B-Locus | C-Locus |
|--------|-------------------|-------------------|-------------------|-------------------|-------------------|----------|-------------------|-------------------|-------------------|
| 251 | SSP | SSP | | SSP | | | SSP | SSP | |
| 252 | SSP-Invit,Uni | SSP-Invit,Uni | | SSP-Invit,Uni | | | SSP-Invit,Uni | SSP-Invit,Uni | SSP-Invit,Uni |
| 255 | SSO-Inn | | | | | | SSO-Inn | SSO-Inn | |
| 257 | | | | | | | | | |
| 258 | SBT,SSP-Gen | | | SBT,SSP-Gen | | | SBT,SSP-Gen | SBT,SSP-Gen | SBT,SSP-Gen |
| 259 | SSP | | | SSP | | | SSP | SSP | |
| 260 | SSP-Pro | SSP-Pro | | SSP-Pro | | | SSP-Pro | SSP-Pro | SSP-Pro |
| 262 | | | | | | | | | |
| 278 | | | | | | | SSP,SSO | SSP,SSO | SSP,SSO |
| 401 | | | | | | | SBT-inh | SBT-inh,Cel | SBT-inh |
| 452 | SBT,SSP,SSO | SSP-Invit | | SBT,SSP,SSO | SSP-Invit,Ole | | SBT,SSP,SSO | SBT,SSP,SSO | SBT,SSP,SSO |
| 519 | | | | | | | | | |
| 615 | SBT | SBT | | SBT | SBT | | | | |
| 616 | SSP | | | | | | SSP | SSP | Lum |
| 635 | SSP-OL | SSP-OL | | SSP-OL | | | SSP-OL | SSP-OL | SSP-OL |
| 702 | SSO,SBT | SSO,SBT | SSO,SBT | SSO,SBT | SBT | | SSO,SBT | SSO,SBT | SSO,SBT |
| 714 | SBT,SSP,SSO | | | SBT,SSP,SSO | | | SBT,SSP,SSO | SBT,SSP,SSO | SBT,SSP,SSO |
| 726 | SSP,SSO | SSP-OL | | SSP,SSO | | | SSP,SSO | SSP,SSO | SSP,SSO |
| 732 | SBT-inh,Lab | SBT-inh | | SBT-inh | | | SBT-inh,Lab | SBT-inh,Lab | SBT-inh,Lab |
| 769 | SBT,SSP,SSO | SSP,SSO | | SBT,SSP,SSO | SBT,SSP,SSO | | SBT,SSP,SSO | SBT,SSP,SSO | SBT,SSP,SSO |
| 805 | SBT,SSP,SSO | | | SSP-Invit | | | SSO,SBT | SBT,SSP,SSO | SSO,SBT |
| 1113 | SBT,SSP,SSO | SSP-Ole | SSO-OL | SBT,SSP,SSO | SSP-Ole,SBT-Atr | | SBT,SSP,SSO | SBT,SSP,SSO | SBT,SSP,SSO |
| 1189 | SBT-Life | SBT-Life | | SBT-Life | SSP,SBT-Life | | SBT-Life | SBT-Life | SSP,SBT-Life |
| 1212 | SSO-Lum,OL | SSP-Invit | | SSO-Lum,OL | SSP-Invit | | SSO-Lum,OL | SSO-Lum,OL | SSO-Lum,OL |
| 1251 | SSP,SSO-Lab | SSP | SSP,SSO-Lab | SSP,SSO-Lab | SSP | | SSP,SSO-Lab | SSP,SSO-Lab | SSP,SSO-Lab |
| 1498 | | | | | | | | | |
| 1647 | SSO-Gen | SSO-Gen | | SSO-Gen | | | SSO-Gen | SSO-Gen | SSO-Gen |
| 1686 | SSP | SSP | SSP | SSP | SSP | SSP | SSP | SSP | SSP |
| 1905 | SBT,SSP,SSO | SSP-Invit | | SBT,SSP,SSO | SBT-Atr,SSP-Invit | | SBT,SSP,SSO | SBT,SSP,SSO | SBT,SSP,SSO |
| 2004 | SSO-OL,SSP-Invit | SSP-Invit | SSO-OL,SSP-Invit | SSO-OL,SSP-Invit | | | SSO-OL,SSP | SSO-OL,SSP-Ole | SSO-OL,SSP-Ole |
| 2013 | SSO-Lum,SBT-Qia | SSO-Lum | | SSO-Lum | | | SSO-Lum,SBT-Qia | SSO-Lum,SBT-Qia | SSO-Lum,SBT-Qia |
| 2015 | | | | | | | SBT-Abt,SSP | SBT-Abt,SSP | SBT-Abt,SSP |
| 2063 | | | | | | | | | |
| 2347 | SBT,SSP,SSO | SSP,SSO | SSO | SBT,SSP,SSO | SSP,SSO | SSO | SBT,SSP,SSO | SBT,SSP,SSO | SBT,SSP,SSO |
| 2411 | SBT-Invit | | | SBT-Invit | | | SBT-Invit | SBT-Invit | SBT-Invit |
| 2518 | SSO-OL | SSO-OL | SSO-OL | SSO-OL | SSO-OL | SSO-OL | SSO-OL | SSO-OL | SSO-OL |
| 2549 | SBT,SSP,SSO | SSP-Invit | SSP-Invit | SBT-Abt,SSP-Invit | SBT-Abt | | SBT,SSP,SSO | SBT,SSP,SSO | SBT-Abt,SSP-Invit |
| 3248 | | | | | | | | | |
| 3261 | | | | | | | SBT-Qia | SBT-Qia | SBT-Qia |
| 3264 | SBT,SSP,SSO | | SSO-Ingen | SBT,SSP,SSO | SSP-Ole,SBT-Atr | | SBT,SSP,SSO | SBT,SSP,SSO | SBT,SSP,SSO |
| 3324 | SSO-OL | SSP-Invit | SSP-Ole,SBT-Atr | SSP-Ole,SBT-Atr | SSP-Ole,SBT-Atr | | SSP,SBT | SSP,SBT | SSP,SBT |
| 3325 | SSP-Invit | SSP-Invit | SSP-Invit | SSP-Invit | | | SSP-Invit | SSP,SBT | SSP-Invit |
| 3410 | SBT,SSP,SSO | | | SBT,SSP,SSO | | | SBT,SSP,SSO | SBT,SSP,SSO | SBT,SSP,SSO |
| 3438 | SBT-inh | | | SBT-inh | | | SBT-Invit,Pro | SBT-Invit,Pro | SBT-Invit,Pro |
| 3522 | | | | | | | | | |
| 3582 | | | | | | | | | |
| 3614 | SSO-OL | | SSO-OL | SSO-OL | | | SSO,SSP-OL | SSO,SSP-OL | SSO,SSP-OL |
| 3625 | SSP,SBT | SSP | | SSP,SBT | SSP,SBT | | SSP,SBT | SSP,SBT | SSP,SBT |
| 3807 | SSP-Life | SSP-Life | SSP-Life | SSP-Life | SBT,SSP-Life | SSP-Life | SBT,SSP-Life | SBT,SSP-Life | SBT,SSP-Life |
| 3849 | SSO-inh,SBT-Atr | SSO-inh | SSO-Lum,SSP-Invit | SSO-Lum,SSP-Invit | | | SSO-inh | SSO-inh | SSO-inh |
| 4237 | SBT-OL,Pro | SSP-Ole | | SSP-Ole,OL | | | SBT | SBT | SSP,SBT |
| 4281 | | | | | | | | | |
| 4420 | WakFlow | | | | | | WakFlow | WakFlow | WakFlow |
| 4545 | SBT-Cel,SSO-Oli | SSP-Invit,SSO-Oli | SSP-Invit,SSO-Oli | SBT-Cel,SSO-Oli | SBT-Cel,SSP-Invit | | SBT,SSP,SSO | SBT,SSP,SSO | SBT,SSP,SSO |
| 4551 | SSO-OL,SSP-Ole | SSP-Ole | SSO-OL | SSO-OL,SSP-Ole | SSP-Invit | | SBT,SSP,SSO | SBT,SSP,SSO | SBT,SSP,SSO |
| 4585 | SSO-Lum,Lab | | SSO-Lum,Lab | SSO-Lum,Lab | | | SSO,SSP | SSO-Lum,Lab | SSO-Lum,Lab |
| 4613 | | | | | | | | | |
| 4653 | SBT-Pro | | SSO-OL | SSO-OL | | | SSO-OL | SSO-OL | SSO-OL |
| 4709 | SBT,SSP,SSO | SBT,SSP,SSO | SBT,SSP,SSO | SBT,SSP,SSO | SBT,SSP,SSO | | SBT,SSP,SSO | SBT,SSP,SSO | SBT,SSP,SSO |
| 5204 | SSO-OL,SBT-Cel | | | SSO-OL,SSP-Invit | | | SSO-OL,SBT-Cel | SSO-OL,SBT-Cel | SSO-OL,SBT-Cel |
| 5982 | | | | | | | | | |
| 6051 | SSO-Lab | | | | | | SSO-Lab | | |
| 6313 | SSO-Inn,SBT-Atr | | | SSO-Inn | | | SSO-Gen,SBT | SSO-Inn,SBT | SSO-Inn,SBT |
| 9221 | SSP-Invit,SSO-OL | SSP-Invit,SSO-OL | SSO-OL | | SSP-Invit | | SSP-Invit,SSO-OL | SSP-Invit,SSO-OL | SSP-Invit,SSO-OL |
| 197H | SSP-Invit,SBT-Atr | | | SBT,SSP,SSO | SSO-OL,SBT-Atr | | SSP-Invit,SBT-Atr | SSP-Invit,SBT-Atr | SSP-Invit,SBT-Atr |
| 197L | SSO-OL | SSO-OL | SSO-OL | SSO-OL | | | SSO-OL | SSO-OL | SSO-OL |
| 4582H | SSP-Invit,SSO-OL | SSO-OL | SSO-OL | SSP-Invit,SSO-OL | SSP-Invit,SSO-OL | SSO-OL | SSP-Invit,SSO-OL | SSP-Invit,SSO-OL | SSP-Invit,SSO-OL |
| 4582L | | | | | | | SSO-OL | SSO-OL | SSO-OL |
| 5720H | SBT-Pro | SBT-Pro,SSP-Ole | | SBT-Pro | SBT-Atr | | SBT-Pro | SBT-Pro | SBT-Pro |
| 5720L | SSO-Gen | SSO-OL | | SSO-Gen | | | SSO-Gen | SSO-Gen | SSO-Gen |