

# "T'EMPUS

The Tempus HLA Genotyping Ambiguous Allele List is intended to provide additional information regarding the HLA genotyping results provided with the xT test. This test sequences only a portion of the HLA gene that is most relevant for clinical trial matching, and the resulting sequence may correspond to multiple alleles. In such cases, a representative allele is chosen for reporting.

For your reference, we have included the full list of representative alleles, and their corresponding ambiguous alleles that may also represent the true genotype on the Tempus Document Library. Representative alleles will be in bold and shaded blue, with the associated ambiguous alleles listed underneath:

**A\*01:01**

A\*01:04

A\*01:103

A\*01:107

A\*01:109

A\*01:132

A\*01:141

This document includes ambiguous alleles reported by Tempus' xT test. This list does not include all possible alleles that may be reported. Alleles that do not have associated ambiguous alleles are not included on this list.

If you have additional questions please contact [support@tempus.com](mailto:support@tempus.com).

## Representative and Ambiguous Alleles

|                |           |                |
|----------------|-----------|----------------|
| <b>A*01:01</b> | A*01:309  | A*01:404       |
| A*01:04        | A*01:316  | A*01:406       |
| A*01:103       | A*01:317  | A*01:407       |
| A*01:107       | A*01:319  | A*01:409       |
| A*01:109       | A*01:32   | A*01:410       |
| A*01:132       | A*01:323  | A*01:411N      |
| A*01:141       | A*01:324  | A*01:415       |
| A*01:142       | A*01:325  | A*01:419       |
| A*01:155       | A*01:328N | A*01:421N      |
| A*01:177       | A*01:331  | A*01:422       |
| A*01:212       | A*01:332  | A*01:426       |
| A*01:217       | A*01:346  | A*01:433N      |
| A*01:22N       | A*01:347  | A*01:436Q      |
| A*01:234       | A*01:349  | A*01:440       |
| A*01:237       | A*01:351  | A*01:441       |
| A*01:246       | A*01:353  | A*01:443       |
| A*01:248Q      | A*01:356  | A*01:444       |
| A*01:249       | A*01:357  | A*01:445       |
| A*01:251       | A*01:358  | A*01:446       |
| A*01:252       | A*01:367  | A*01:45        |
| A*01:253       | A*01:368  | A*01:456       |
| A*01:261       | A*01:37   | A*01:56N       |
| A*01:274       | A*01:370  | A*01:81        |
| A*01:276       | A*01:371  | A*01:87N       |
| A*01:277       | A*01:372  | <b>A*01:02</b> |
| A*01:280       | A*01:377  | A*01:412       |
| A*01:281Q      | A*01:378  | A*01:420N      |
| A*01:288       | A*01:379N | <b>A*01:03</b> |
| A*01:291       | A*01:383  | A*01:287N      |
| A*01:295       | A*01:385  | A*01:315       |
| A*01:296       | A*01:386  | <b>A*02:01</b> |
| A*01:297       | A*01:387  | A*02:09        |
| A*01:300       | A*01:388  | A*02:1005      |
| A*01:305       | A*01:389  | A*02:1006N     |
| A*01:306       | A*01:392  | A*02:1007Q     |

## Representative and Ambiguous Alleles

|            |           |           |
|------------|-----------|-----------|
| A*02:1008  | A*02:132  | A*02:691N |
| A*02:1009  | A*02:134  | A*02:692  |
| A*02:1011Q | A*02:140  | A*02:704  |
| A*02:1012  | A*02:241  | A*02:716  |
| A*02:1013  | A*02:252  | A*02:719  |
| A*02:1034  | A*02:256  | A*02:720  |
| A*02:1035  | A*02:266  | A*02:722  |
| A*02:1036  | A*02:291  | A*02:724  |
| A*02:1040  | A*02:294  | A*02:726  |
| A*02:1043  | A*02:305N | A*02:739  |
| A*02:1047  | A*02:327  | A*02:740  |
| A*02:1049  | A*02:329  | A*02:742  |
| A*02:1053N | A*02:356N | A*02:744  |
| A*02:1055N | A*02:357  | A*02:75   |
| A*02:1061N | A*02:397  | A*02:753  |
| A*02:1069  | A*02:411  | A*02:755  |
| A*02:1073  | A*02:43N  | A*02:761  |
| A*02:1078N | A*02:446  | A*02:762  |
| A*02:1080  | A*02:455  | A*02:763  |
| A*02:1089  | A*02:469  | A*02:765  |
| A*02:1093  | A*02:481  | A*02:776  |
| A*02:1102  | A*02:538  | A*02:779  |
| A*02:1103  | A*02:559  | A*02:786  |
| A*02:1111  | A*02:607  | A*02:792N |
| A*02:1115  | A*02:608N | A*02:793N |
| A*02:1120  | A*02:614  | A*02:794  |
| A*02:1124  | A*02:629  | A*02:795Q |
| A*02:1125  | A*02:642  | A*02:810  |
| A*02:1133  | A*02:66   | A*02:812  |
| A*02:1134  | A*02:665  | A*02:819  |
| A*02:1137  | A*02:675N | A*02:820  |
| A*02:1141  | A*02:685  | A*02:823  |
| A*02:1146  | A*02:686  | A*02:824  |
| A*02:1149  | A*02:687  | A*02:825  |
| A*02:1151  | A*02:689  | A*02:830  |
| A*02:1166  | A*02:690  | A*02:832N |

## Representative and Ambiguous Alleles

|           |                |                |
|-----------|----------------|----------------|
| A*02:834  | A*02:97        | A*02:1123      |
| A*02:836  | A*02:970       | A*02:1140      |
| A*02:839  | A*02:974       | A*02:179       |
| A*02:83N  | A*02:975       | A*02:324       |
| A*02:844  | A*02:978       | A*02:791N      |
| A*02:846  | A*02:983       | A*02:922       |
| A*02:852  | A*02:987       | A*02:951       |
| A*02:853  | A*02:989N      | <b>A*02:06</b> |
| A*02:857  | A*02:995       | A*02:1088      |
| A*02:862  | <b>A*02:02</b> | A*02:1131      |
| A*02:864  | A*02:1136      | A*02:1139      |
| A*02:865  | A*02:1168      | A*02:1150N     |
| A*02:866  | A*02:717       | A*02:126       |
| A*02:868  | A*02:867       | A*02:428       |
| A*02:869  | A*02:925       | A*02:506N      |
| A*02:870  | A*02:967       | A*02:625       |
| A*02:871N | <b>A*02:03</b> | A*02:718       |
| A*02:874  | A*02:1068Q     | A*02:737       |
| A*02:875  | A*02:1071      | A*02:759       |
| A*02:884  | A*02:1144      | A*02:760N      |
| A*02:89   | A*02:253       | A*02:767       |
| A*02:894  | A*02:264       | A*02:768       |
| A*02:896N | A*02:370       | A*02:851       |
| A*02:899  | A*02:480       | A*02:863       |
| A*02:915N | A*02:505       | A*02:878       |
| A*02:916  | A*02:557       | A*02:888       |
| A*02:917  | A*02:684       | A*02:898       |
| A*02:919  | A*02:971       | A*02:936N      |
| A*02:928  | A*02:976       | <b>A*02:07</b> |
| A*02:930  | <b>A*02:04</b> | A*02:1067      |
| A*02:939  | A*02:664       | A*02:1075      |
| A*02:942  | A*02:710N      | A*02:1101      |
| A*02:950  | <b>A*02:05</b> | A*02:1128      |
| A*02:956  | A*02:1048      | A*02:1167      |
| A*02:957  | A*02:1086      | A*02:15N       |
| A*02:969  |                |                |

## Representative and Ambiguous Alleles

|                 |           |           |
|-----------------|-----------|-----------|
| A*02:265        | A*03:112  | A*03:360  |
| A*02:426        | A*03:118  | A*03:361  |
| A*02:452        | A*03:129N | A*03:362  |
| A*02:822        | A*03:132  | A*03:363  |
| A*02:924        | A*03:134  | A*03:367  |
| A*02:935        | A*03:162N | A*03:368  |
| A*02:973        | A*03:182  | A*03:37   |
| A*02:981        | A*03:20   | A*03:370  |
| <b>A*02:10</b>  | A*03:21N  | A*03:372  |
| A*02:453        | A*03:220  | A*03:374N |
| <b>A*02:11</b>  | A*03:26   | A*03:375  |
| A*02:69         | A*03:279N | A*03:386  |
| A*02:751        | A*03:291  | A*03:387  |
| A*02:821        | A*03:292  | A*03:391  |
| A*02:893        | A*03:293  | A*03:392  |
| A*02:926        | A*03:301  | A*03:393  |
| A*02:940        | A*03:302  | A*03:399  |
| <b>A*02:131</b> | A*03:304  | A*03:401  |
| A*02:16         | A*03:312  | A*03:410  |
| <b>A*02:136</b> | A*03:313  | A*03:411  |
| A*02:1129       | A*03:315  | A*03:415  |
| <b>A*02:14</b>  | A*03:316  | A*03:419  |
| A*02:818        | A*03:336N | A*03:420  |
| <b>A*02:20</b>  | A*03:338  | A*03:421  |
| A*02:1001       | A*03:339  | A*03:423  |
| <b>A*02:22</b>  | A*03:340  | A*03:424  |
| A*02:104        | A*03:344  | A*03:425  |
| A*02:929        | A*03:346  | A*03:426  |
| <b>A*02:29</b>  | A*03:349  | A*03:434  |
| A*02:780        | A*03:350  | A*03:437Q |
| <b>A*02:49</b>  | A*03:351  | A*03:439  |
| A*02:683        | A*03:352  | A*03:440  |
| <b>A*02:81</b>  | A*03:355  | A*03:441  |
| A*02:124        | A*03:358  | A*03:444  |
| <b>A*03:01</b>  | A*03:359  | A*03:446  |
|                 |           | A*03:45   |

## Representative and Ambiguous Alleles

|                |           |                |
|----------------|-----------|----------------|
| A*03:454       | A*11:173  | A*11:369       |
| A*03:462       | A*11:174  | A*11:371       |
| A*03:471       | A*11:193  | A*11:382N      |
| A*03:474       | A*11:194  | A*11:383N      |
| A*03:476       | A*11:210N | A*11:388N      |
| A*03:478       | A*11:21N  | A*11:391       |
| A*03:480       | A*11:263  | A*11:393       |
| A*03:484       | A*11:270  | A*11:394       |
| A*03:487       | A*11:274  | A*11:398       |
| A*03:488       | A*11:278  | A*11:402       |
| A*03:78        | A*11:279  | A*11:406       |
| <b>A*03:02</b> | A*11:280  | A*11:407N      |
| A*03:218       | A*11:292  | A*11:417N      |
| A*03:242       | A*11:295  | A*11:419       |
| A*03:314       | A*11:303  | A*11:420       |
| A*03:318       | A*11:306  | A*11:422       |
| A*03:333       | A*11:311  | A*11:425       |
| A*03:458Q      | A*11:313Q | A*11:427       |
| A*03:473       | A*11:316  | A*11:430       |
| A*03:477       | A*11:317  | A*11:437       |
| <b>A*03:04</b> | A*11:320  | A*11:444       |
| A*03:345       | A*11:322  | A*11:447Q      |
| <b>A*11:01</b> | A*11:324  | A*11:448       |
| A*11:100       | A*11:328  | A*11:451       |
| A*11:102       | A*11:329  | A*11:452N      |
| A*11:108       | A*11:332  | A*11:453       |
| A*11:120       | A*11:333  | A*11:454       |
| A*11:124       | A*11:335  | A*11:458       |
| A*11:126       | A*11:338  | A*11:462       |
| A*11:129       | A*11:339  | A*11:69N       |
| A*11:142       | A*11:343  | A*11:86        |
| A*11:154       | A*11:347N | <b>A*11:02</b> |
| A*11:163       | A*11:349  | A*11:110       |
| A*11:171       | A*11:353  | A*11:429       |
| A*11:172       | A*11:363  | A*11:433N      |
|                | A*11:365N |                |

## Representative and Ambiguous Alleles

|                  |                |           |
|------------------|----------------|-----------|
| A*11:438         | A*23:93        | A*24:402  |
| A*11:77          | A*23:94        | A*24:40N  |
| <b>A*11:03</b>   | A*23:95        | A*24:417  |
| A*11:175         | A*23:96        | A*24:418  |
| A*11:348         | <b>A*24:02</b> | A*24:419  |
| <b>A*11:05</b>   | A*24:09N       | A*24:422  |
| A*11:248         | A*24:11N       | A*24:423  |
| <b>A*11:403N</b> | A*24:144       | A*24:427N |
| A*11:441         | A*24:150       | A*24:430N |
| <b>A*11:43</b>   | A*24:153       | A*24:431  |
| A*11:440         | A*24:154       | A*24:436  |
| <b>A*23:01</b>   | A*24:155N      | A*24:437  |
| A*23:07N         | A*24:163N      | A*24:438  |
| A*23:103N        | A*24:183N      | A*24:442  |
| A*23:115         | A*24:231       | A*24:443  |
| A*23:116         | A*24:249       | A*24:448N |
| A*23:117         | A*24:250       | A*24:451  |
| A*23:118         | A*24:251       | A*24:454  |
| A*23:121         | A*24:263       | A*24:455  |
| A*23:123         | A*24:264       | A*24:460  |
| A*23:125         | A*24:265       | A*24:462  |
| A*23:132         | A*24:266       | A*24:463  |
| A*23:133         | A*24:267       | A*24:464  |
| A*23:134         | A*24:268       | A*24:465  |
| A*23:140         | A*24:269       | A*24:466  |
| A*23:17          | A*24:270       | A*24:469  |
| A*23:18          | A*24:271       | A*24:470  |
| A*23:20          | A*24:352       | A*24:473Q |
| A*23:58          | A*24:353       | A*24:474  |
| A*23:85          | A*24:354       | A*24:476  |
| A*23:86          | A*24:383       | A*24:479Q |
| A*23:87          | A*24:385       | A*24:486  |
| A*23:88          | A*24:388N      | A*24:487  |
| A*23:91N         | A*24:400       | A*24:496  |
| A*23:92          | A*24:401       | A*24:497  |
|                  |                | A*24:498  |

## Representative and Ambiguous Alleles

|           |                 |                |
|-----------|-----------------|----------------|
| A*24:500  | A*24:617        | A*26:166       |
| A*24:501  | A*24:76         | A*26:167       |
| A*24:507  | A*24:79         | A*26:168       |
| A*24:511  | A*24:83N        | A*26:179       |
| A*24:513Q | <b>A*24:03</b>  | A*26:180N      |
| A*24:519  | A*24:33         | A*26:183       |
| A*24:520  | A*24:441        | A*26:185       |
| A*24:521  | A*24:461        | A*26:186       |
| A*24:530  | <b>A*24:05</b>  | A*26:187       |
| A*24:533  | A*24:199        | A*26:191N      |
| A*24:538  | <b>A*24:07</b>  | A*26:199       |
| A*24:543  | A*24:457        | A*26:201       |
| A*24:545  | A*24:477        | A*26:202N      |
| A*24:546  | A*24:510        | A*26:203       |
| A*24:547  | A*24:544        | A*26:208       |
| A*24:548  | <b>A*24:10</b>  | A*26:209       |
| A*24:550  | A*24:495        | A*26:220       |
| A*24:552  | <b>A*24:26</b>  | A*26:222       |
| A*24:558  | A*24:314        | A*26:223       |
| A*24:564  | <b>A*24:515</b> | A*26:228       |
| A*24:565  | A*24:610        | A*26:24        |
| A*24:568N | <b>A*25:01</b>  | A*26:242       |
| A*24:573  | A*25:07         | A*26:246       |
| A*24:575  | A*25:60         | A*26:247       |
| A*24:576N | A*25:62         | A*26:26        |
| A*24:579  | A*25:63         | A*26:56        |
| A*24:581  | A*25:68         | A*26:82        |
| A*24:582  | A*25:85         | A*26:98        |
| A*24:585  | <b>A*26:01</b>  | A*26:99        |
| A*24:587  | A*26:117        | <b>A*26:02</b> |
| A*24:591  | A*26:157        | A*26:232       |
| A*24:595  | A*26:160        | <b>A*29:01</b> |
| A*24:596N | A*26:162        | A*29:147       |
| A*24:598  | A*26:163        | A*29:155       |
| A*24:602  | A*26:164        | A*29:166       |
| A*24:614  |                 |                |



## Representative and Ambiguous Alleles

|                |                |                |
|----------------|----------------|----------------|
| A*29:169       | A*30:138       | A*30:33        |
| A*29:170       | A*30:141       | <b>A*30:04</b> |
| A*29:183       | A*30:142       | A*30:105       |
| <b>A*29:02</b> | A*30:147       | A*30:77        |
| A*29:100       | A*30:148       | <b>A*31:01</b> |
| A*29:116       | A*30:167       | A*31:111       |
| A*29:119       | A*30:170       | A*31:119       |
| A*29:120       | A*30:171       | A*31:125       |
| A*29:121       | A*30:173       | A*31:128       |
| A*29:130       | A*30:181       | A*31:132       |
| A*29:131       | A*30:187       | A*31:135       |
| A*29:134       | A*30:190       | A*31:143       |
| A*29:135       | A*30:192       | A*31:14N       |
| A*29:145       | A*30:201       | A*31:151Q      |
| A*29:146       | A*30:205       | A*31:152       |
| A*29:148       | A*30:207       | A*31:153       |
| A*29:149       | A*30:220Q      | A*31:155       |
| A*29:160       | A*30:221       | A*31:156       |
| A*29:167       | A*30:24        | A*31:157       |
| A*29:175Q      | A*30:81        | A*31:159       |
| A*29:178       | A*30:95        | A*31:160       |
| A*29:181       | <b>A*30:02</b> | A*31:166       |
| A*29:26        | A*30:100       | A*31:167       |
| A*29:46        | A*30:144       | A*31:177       |
| A*29:75        | A*30:146       | A*31:178       |
| A*29:95        | A*30:149       | A*31:181       |
| <b>A*30:01</b> | A*30:151       | A*31:182       |
| A*30:112       | A*30:156       | A*31:184N      |
| A*30:114       | A*30:169       | A*31:186       |
| A*30:115       | A*30:175       | A*31:194       |
| A*30:130N      | A*30:193       | A*31:196       |
| A*30:132N      | A*30:200       | A*31:197       |
| A*30:135       | A*30:208N      | A*31:198       |
| A*30:136       | A*30:214       | A*31:199       |
| A*30:137       | A*30:227       | A*31:208       |

## Representative and Ambiguous Alleles

|                |                |                |
|----------------|----------------|----------------|
| A*31:209       | A*32:154       | A*33:263       |
| A*31:212       | A*32:155       | <b>A*33:03</b> |
| A*31:215       | A*32:161       | A*33:145       |
| A*31:224       | A*32:162       | A*33:146       |
| A*31:226       | A*32:168N      | A*33:148       |
| A*31:227       | A*32:172       | A*33:15        |
| A*31:229       | A*32:177       | A*33:151       |
| A*31:23        | A*32:178       | A*33:153       |
| A*31:46        | A*32:180       | A*33:156N      |
| A*31:48        | A*32:182       | A*33:160       |
| A*31:55        | A*32:53        | A*33:163       |
| A*31:56        | A*32:54        | A*33:169       |
| A*31:59        | A*32:61        | A*33:172       |
| A*31:71        | A*32:68        | A*33:174N      |
| A*31:72        | A*32:74        | A*33:181       |
| A*31:81        | <b>A*33:01</b> | A*33:202       |
| A*31:95        | A*33:111       | A*33:203       |
| <b>A*31:02</b> | A*33:129N      | A*33:204       |
| A*31:230       | A*33:136       | A*33:205       |
| <b>A*32:01</b> | A*33:157N      | A*33:209       |
| A*32:103       | A*33:170       | A*33:218       |
| A*32:106       | A*33:171       | A*33:219       |
| A*32:110       | A*33:182       | A*33:220       |
| A*32:111       | A*33:191       | A*33:222       |
| A*32:114       | A*33:193       | A*33:228       |
| A*32:116       | A*33:207       | A*33:234       |
| A*32:117N      | A*33:210       | A*33:235       |
| A*32:121       | A*33:221       | A*33:239Q      |
| A*32:122       | A*33:232       | A*33:242       |
| A*32:124       | A*33:236       | A*33:245       |
| A*32:134       | A*33:237       | A*33:25        |
| A*32:139       | A*33:251       | A*33:256       |
| A*32:147       | A*33:253       | A*33:258N      |
| A*32:148       | A*33:257       | A*33:260       |
| A*32:149       | A*33:262       | A*33:270       |

## Representative and Ambiguous Alleles

|                |           |                |
|----------------|-----------|----------------|
| A*33:31        | A*68:144  | <b>A*68:02</b> |
| A*33:39        | A*68:152  | A*68:163       |
| A*33:44        | A*68:164  | A*68:198       |
| A*33:73N       | A*68:167  | A*68:201       |
| A*33:74N       | A*68:176  | A*68:216N      |
| A*33:77        | A*68:177  | A*68:219       |
| A*33:82        | A*68:188  | A*68:237       |
| A*33:83        | A*68:190  | A*68:272       |
| A*33:84        | A*68:191  | A*68:274       |
| A*33:85        | A*68:207  | A*68:275       |
| <b>A*34:01</b> | A*68:208  | A*68:278       |
| A*34:18        | A*68:211  | A*68:312       |
| <b>A*34:02</b> | A*68:217  | A*68:320       |
| A*34:26N       | A*68:221  | <b>A*68:03</b> |
| A*34:32        | A*68:223  | A*68:206       |
| <b>A*36:01</b> | A*68:243  | <b>A*74:01</b> |
| A*36:09        | A*68:252  | A*74:02        |
| A*36:12        | A*68:254  | A*74:31        |
| A*36:14        | A*68:263Q | A*74:34        |
| <b>A*43:01</b> | A*68:268  | A*74:36        |
| A*43:02N       | A*68:270  | A*74:47N       |
| <b>A*66:01</b> | A*68:273  | <b>A*74:06</b> |
| A*66:08        | A*68:277  | A*74:39        |
| A*66:17        | A*68:287  | <b>A*80:01</b> |
| A*66:29        | A*68:288  | A*80:05        |
| A*66:31        | A*68:289  | A*80:06        |
| A*66:36        | A*68:297  | A*80:07        |
| A*66:38        | A*68:298  | A*80:08N       |
| A*66:46        | A*68:302  |                |
| <b>A*66:02</b> | A*68:303  | <b>B*07:02</b> |
| A*66:34        | A*68:307  | B*07:120       |
| <b>A*66:03</b> | A*68:310  | B*07:128       |
| A*66:28N       | A*68:313  | B*07:129       |
| <b>A*68:01</b> | A*68:33   | B*07:130       |
| A*68:11N       | A*68:96   | B*07:156       |
|                |           | B*07:161N      |

## Representative and Ambiguous Alleles

|           |                |                |
|-----------|----------------|----------------|
| B*07:169  | B*07:405       | B*07:434       |
| B*07:271  | B*07:406       | B*07:474       |
| B*07:282  | B*07:422       | B*07:489       |
| B*07:291  | B*07:423       | B*07:494       |
| B*07:294  | B*07:425N      | <b>B*08:01</b> |
| B*07:295  | B*07:427       | B*08:109       |
| B*07:298  | B*07:431       | B*08:173       |
| B*07:308  | B*07:432       | B*08:178       |
| B*07:311  | B*07:433       | B*08:182       |
| B*07:312  | B*07:436       | B*08:183       |
| B*07:322  | B*07:44N       | B*08:191       |
| B*07:329  | B*07:454       | B*08:194       |
| B*07:330N | B*07:456       | B*08:19N       |
| B*07:338  | B*07:458       | B*08:207       |
| B*07:339  | B*07:459       | B*08:221       |
| B*07:341  | B*07:462       | B*08:222       |
| B*07:342  | B*07:466       | B*08:225       |
| B*07:354  | B*07:477       | B*08:231       |
| B*07:355  | B*07:482       | B*08:233       |
| B*07:369  | B*07:484       | B*08:234       |
| B*07:370  | B*07:486       | B*08:236N      |
| B*07:371  | B*07:487       | B*08:237       |
| B*07:373N | B*07:490       | B*08:238       |
| B*07:374N | B*07:491       | B*08:241       |
| B*07:375  | B*07:492       | B*08:243       |
| B*07:379  | B*07:493       | B*08:244       |
| B*07:381  | B*07:49N       | B*08:246       |
| B*07:382  | B*07:58        | B*08:247       |
| B*07:385  | B*07:59        | B*08:248       |
| B*07:390  | B*07:61        | B*08:250       |
| B*07:391  | <b>B*07:05</b> | B*08:258       |
| B*07:392  | B*07:06        | B*08:259       |
| B*07:393  | B*07:324       | B*08:260       |
| B*07:394  | B*07:389       | B*08:267       |
| B*07:396  | B*07:399       | B*08:268       |
| B*07:402  |                |                |

## Representative and Ambiguous Alleles

|                |                |                |
|----------------|----------------|----------------|
| B*08:269       | B*13:179       | <b>B*15:01</b> |
| B*08:270Q      | B*13:182       | B*15:102       |
| B*08:273       | B*13:184       | B*15:104       |
| B*08:275       | B*13:185       | B*15:140       |
| B*08:276       | B*13:191       | B*15:146       |
| B*08:280       | B*13:38        | B*15:201       |
| B*08:294       | B*13:69        | B*15:227       |
| B*08:298       | B*13:96        | B*15:228       |
| B*08:301       | B*13:99        | B*15:247       |
| B*08:311       | <b>B*14:01</b> | B*15:320       |
| B*08:312       | B*14:103       | B*15:321Q      |
| <b>B*13:01</b> | B*14:104       | B*15:441       |
| B*13:109       | B*14:113N      | B*15:443       |
| B*13:142       | B*14:121       | B*15:456       |
| B*13:148       | B*14:78        | B*15:457       |
| B*13:162       | B*14:80        | B*15:464       |
| B*13:168       | B*14:81        | B*15:465       |
| B*13:171       | <b>B*14:02</b> | B*15:466       |
| B*13:173       | B*14:100N      | B*15:471       |
| B*13:180       | B*14:101N      | B*15:472       |
| B*13:52        | B*14:109       | B*15:474       |
| B*13:61        | B*14:115       | B*15:476       |
| <b>B*13:02</b> | B*14:126       | B*15:482       |
| B*13:114       | B*14:132       | B*15:483N      |
| B*13:116N      | B*14:61        | B*15:501       |
| B*13:117       | B*14:64        | B*15:514       |
| B*13:123Q      | B*14:67        | B*15:515       |
| B*13:125       | B*14:69N       | B*15:533       |
| B*13:136       | B*14:76N       | B*15:535       |
| B*13:139N      | B*14:84        | B*15:536       |
| B*13:151       | B*14:85N       | B*15:538       |
| B*13:152       | B*14:89        | B*15:542       |
| B*13:175       | B*14:91        | B*15:547       |
| B*13:176       | B*14:92        | B*15:558       |
| B*13:177       | B*14:98        | B*15:568       |

## Representative and Ambiguous Alleles

|                |                 |                 |
|----------------|-----------------|-----------------|
| B*15:572       | B*15:668        | B*15:548        |
| B*15:591       | B*15:673        | B*15:675        |
| B*15:593       | <b>B*15:10</b>  | <b>B*15:21</b>  |
| B*15:600       | B*15:455        | B*15:615        |
| B*15:601       | B*15:503        | <b>B*15:25</b>  |
| B*15:604N      | B*15:506        | B*15:271        |
| B*15:605       | <b>B*15:11</b>  | B*15:543        |
| B*15:621       | B*15:284        | B*15:564        |
| B*15:624       | B*15:305        | <b>B*15:28</b>  |
| B*15:631       | B*15:367        | B*15:428        |
| B*15:632       | B*15:662        | <b>B*15:30</b>  |
| B*15:635       | <b>B*15:12</b>  | B*15:541        |
| B*15:639       | B*15:19         | <b>B*15:32</b>  |
| B*15:640       | B*15:270        | B*15:583        |
| B*15:647       | <b>B*15:123</b> | <b>B*15:35</b>  |
| B*15:666       | B*15:151        | B*15:641        |
| B*15:677       | B*15:628        | <b>B*15:379</b> |
| <b>B*15:02</b> | <b>B*15:14</b>  | B*15:650        |
| B*15:214       | B*15:551        | <b>B*15:39</b>  |
| B*15:302N      | B*15:634        | B*15:626        |
| B*15:358       | <b>B*15:16</b>  | B*15:651        |
| B*15:437       | B*15:550        | <b>B*18:01</b>  |
| B*15:537       | B*15:602        | B*18:119        |
| B*15:557       | B*15:680        | B*18:124        |
| B*15:596N      | <b>B*15:17</b>  | B*18:131        |
| B*15:630       | B*15:546Q       | B*18:135        |
| B*15:664       | B*15:644        | B*18:144        |
| B*15:681       | B*15:689        | B*18:145        |
| <b>B*15:03</b> | <b>B*15:18</b>  | B*18:146        |
| B*15:103       | B*15:198        | B*18:159        |
| B*15:220       | B*15:263        | B*18:160        |
| B*15:444       | B*15:307        | B*18:163        |
| B*15:560       | B*15:380N       | B*18:176        |
| <b>B*15:07</b> | B*15:388        | B*18:177        |
| B*15:450       | B*15:487N       | B*18:17N        |

## Representative and Ambiguous Alleles

|                |                |           |
|----------------|----------------|-----------|
| B*18:180       | B*27:68        | B*35:134N |
| B*18:181       | B*27:69        | B*35:161  |
| B*18:183       | <b>B*27:05</b> | B*35:227  |
| B*18:184       | B*27:13        | B*35:241  |
| B*18:186       | B*27:162       | B*35:245  |
| B*18:187       | B*27:174       | B*35:250  |
| B*18:188       | B*27:184       | B*35:332  |
| B*18:193       | B*27:190       | B*35:336  |
| B*18:200       | B*27:191       | B*35:347  |
| B*18:202       | B*27:193       | B*35:348  |
| B*18:206       | B*27:195       | B*35:359  |
| B*18:207       | B*27:196       | B*35:365  |
| B*18:208       | B*27:199       | B*35:370  |
| B*18:209       | B*27:206       | B*35:376  |
| B*18:211       | B*27:212N      | B*35:380  |
| B*18:212       | B*27:216       | B*35:383  |
| B*18:220       | B*27:220       | B*35:406  |
| B*18:225       | B*27:230       | B*35:40N  |
| B*18:231Q      | B*27:231       | B*35:417  |
| B*18:232       | B*27:252       | B*35:42   |
| B*18:233       | B*27:253Q      | B*35:421  |
| B*18:234       | B*27:255       | B*35:429  |
| B*18:237       | B*27:259       | B*35:447  |
| B*18:238       | B*27:263N      | B*35:448N |
| B*18:53        | B*27:265       | B*35:454  |
| B*18:81        | B*27:266       | B*35:456N |
| <b>B*27:02</b> | B*27:270       | B*35:458  |
| B*27:163       | B*27:273       | B*35:462  |
| B*27:197       | B*27:274       | B*35:464  |
| B*27:275       | B*27:276       | B*35:465  |
| <b>B*27:04</b> | <b>B*27:06</b> | B*35:467  |
| B*27:211       | B*27:192       | B*35:473  |
| B*27:229       | B*27:208       | B*35:485  |
| B*27:240       | B*27:222       | B*35:490  |
| B*27:247       | <b>B*35:01</b> | B*35:506  |

## Representative and Ambiguous Alleles

|                |                 |                |
|----------------|-----------------|----------------|
| B*35:514       | B*35:496        | B*37:46        |
| B*35:515       | B*35:507N       | B*37:47        |
| B*35:516       | B*35:511        | B*37:68        |
| B*35:520       | B*35:543        | B*37:71        |
| B*35:528       | B*35:563        | B*37:73        |
| B*35:529       | B*35:568        | B*37:75        |
| B*35:533       | B*35:592        | B*37:78        |
| B*35:552       | B*35:70         | B*37:80        |
| B*35:559       | <b>B*35:05</b>  | B*37:86N       |
| B*35:57        | B*35:389        | B*37:87        |
| B*35:573       | B*35:416        | B*37:88        |
| B*35:574N      | B*35:459N       | B*37:89        |
| B*35:580       | B*35:572        | B*37:92N       |
| B*35:588       | <b>B*35:08</b>  | B*37:93        |
| B*35:597N      | B*35:386        | <b>B*38:01</b> |
| B*35:603       | B*35:466        | B*38:108       |
| B*35:94        | <b>B*35:12</b>  | B*38:109       |
| <b>B*35:02</b> | B*35:474        | B*38:110       |
| B*35:220       | <b>B*35:137</b> | B*38:161       |
| B*35:379       | B*35:147        | B*38:171       |
| B*35:483       | <b>B*35:14</b>  | B*38:68L       |
| B*35:562       | B*35:390N       | B*38:80N       |
| <b>B*35:03</b> | B*35:512        | B*38:86        |
| B*35:279       | <b>B*35:43</b>  | B*38:90        |
| B*35:298       | B*35:67         | B*38:99        |
| B*35:344       | B*35:79         | <b>B*38:02</b> |
| B*35:364       | <b>B*37:01</b>  | B*38:105       |
| B*35:371       | B*37:103        | B*38:160       |
| B*35:399       | B*37:104        | B*38:162       |
| B*35:420       | B*37:108        | B*38:163       |
| B*35:434       | B*37:109N       | B*38:167       |
| B*35:435       | B*37:110        | B*38:18        |
| B*35:442       | B*37:23         | B*38:82        |
| B*35:451       | B*37:43         | B*38:85        |
| B*35:457       | B*37:45         | B*38:92        |



## Representative and Ambiguous Alleles

|                |                |                |
|----------------|----------------|----------------|
| <b>B*39:01</b> | <b>B*39:15</b> | B*40:480       |
| B*39:130       | B*39:188       | B*40:483N      |
| B*39:150Q      | <b>B*40:01</b> | B*40:485       |
| B*39:151       | B*40:141       | B*40:486       |
| B*39:160       | B*40:150       | B*40:490       |
| B*39:177       | B*40:151       | B*40:495       |
| B*39:179       | B*40:179       | B*40:509Q      |
| B*39:183       | B*40:221       | B*40:512       |
| B*39:189       | B*40:236       | B*40:516       |
| B*39:191       | B*40:241       | B*40:524       |
| B*39:194Q      | B*40:247       | B*40:538       |
| B*39:198       | B*40:264       | B*40:548       |
| B*39:204       | B*40:272       | B*40:55        |
| B*39:46        | B*40:278       | B*40:550       |
| B*39:59        | B*40:299       | B*40:552       |
| B*39:77        | B*40:301       | B*40:554       |
| B*39:86        | B*40:329       | <b>B*40:02</b> |
| <b>B*39:02</b> | B*40:338N      | B*40:144N      |
| B*39:162       | B*40:353       | B*40:176       |
| <b>B*39:03</b> | B*40:379       | B*40:303       |
| B*39:144       | B*40:383       | B*40:356       |
| <b>B*39:05</b> | B*40:386       | B*40:384       |
| B*39:149       | B*40:395       | B*40:405       |
| B*39:163       | B*40:406       | B*40:435       |
| B*39:165       | B*40:416       | B*40:440       |
| B*39:167       | B*40:417       | B*40:442       |
| <b>B*39:06</b> | B*40:418       | B*40:444       |
| B*39:132       | B*40:419       | B*40:455       |
| B*39:187       | B*40:431       | B*40:493       |
| <b>B*39:09</b> | B*40:439       | B*40:521       |
| B*39:158       | B*40:443       | B*40:531       |
| <b>B*39:10</b> | B*40:446       | B*40:544       |
| B*39:145       | B*40:450       | B*40:545N      |
| B*39:175N      | B*40:456       | B*40:56        |
| B*39:199       | B*40:475       | B*40:97        |

## Representative and Ambiguous Alleles

|                 |                |                |
|-----------------|----------------|----------------|
| <b>B*40:03</b>  | <b>B*44:02</b> | B*44:464       |
| B*40:267        | B*44:118       | B*44:467       |
| <b>B*40:04</b>  | B*44:187       | B*44:468       |
| B*40:556        | B*44:19N       | B*44:470       |
| <b>B*40:06</b>  | B*44:243       | B*44:473       |
| B*40:387        | B*44:262       | B*44:477       |
| B*40:425        | B*44:267N      | B*44:478       |
| B*40:427        | B*44:27        | B*44:479       |
| B*40:453        | B*44:270       | B*44:484       |
| B*40:464        | B*44:279       | B*44:492       |
| B*40:473        | B*44:292       | B*44:498       |
| B*40:476        | B*44:301       | B*44:503       |
| B*40:484        | B*44:303N      | B*44:515       |
| B*40:487N       | B*44:306N      | B*44:517       |
| B*40:494        | B*44:311       | B*44:520       |
| <b>B*40:213</b> | B*44:313       | B*44:521       |
| B*40:474        | B*44:315       | B*44:523N      |
| <b>B*40:40</b>  | B*44:321       | B*44:66        |
| B*40:229        | B*44:334N      | <b>B*44:03</b> |
| <b>B*41:01</b>  | B*44:338       | B*44:278       |
| B*41:57         | B*44:341N      | B*44:280       |
| B*41:61         | B*44:344       | B*44:281       |
| B*41:75         | B*44:351       | B*44:298       |
| B*41:79         | B*44:359       | B*44:302       |
| <b>B*41:02</b>  | B*44:361       | B*44:309N      |
| B*41:43         | B*44:363       | B*44:310N      |
| B*41:69         | B*44:376       | B*44:324       |
| B*41:81         | B*44:382       | B*44:325       |
| <b>B*42:01</b>  | B*44:386       | B*44:336       |
| B*42:25         | B*44:387       | B*44:346       |
| B*42:28         | B*44:400       | B*44:348       |
| B*42:29         | B*44:437       | B*44:349       |
| B*42:30         | B*44:457       | B*44:367       |
| B*42:31         | B*44:461       | B*44:379       |
| B*42:33         | B*44:462       | B*44:381       |

## Representative and Ambiguous Alleles

|                |                |                |
|----------------|----------------|----------------|
| B*44:466N      | B*46:34        | B*49:85        |
| B*44:469       | B*46:38        | <b>B*50:01</b> |
| B*44:471       | B*46:39        | B*50:22        |
| B*44:472       | B*46:56        | B*50:37        |
| B*44:474       | B*46:57        | B*50:57        |
| B*44:476       | B*46:76        | B*50:59        |
| B*44:485       | B*46:80        | B*50:69        |
| B*44:487       | B*46:82        | B*50:79        |
| B*44:488       | B*46:89        | <b>B*50:02</b> |
| B*44:490       | B*46:91        | B*50:21        |
| B*44:501       | B*46:92        | <b>B*51:01</b> |
| B*44:508       | B*46:95N       | B*51:11N       |
| B*44:509       | B*46:99        | B*51:142       |
| B*44:510       | <b>B*47:01</b> | B*51:164       |
| B*44:511       | B*47:12        | B*51:165       |
| B*44:512N      | B*47:13        | B*51:166       |
| B*44:519       | <b>B*48:01</b> | B*51:169       |
| B*44:522       | B*48:09        | B*51:193       |
| B*44:524       | B*48:34        | B*51:219       |
| B*44:531       | B*48:43        | B*51:224       |
| B*44:546       | B*48:45        | B*51:229       |
| <b>B*44:05</b> | B*48:47        | B*51:230       |
| B*44:465       | B*48:49        | B*51:232       |
| <b>B*44:29</b> | B*48:55        | B*51:234       |
| B*44:285       | <b>B*48:04</b> | B*51:237       |
| <b>B*45:01</b> | B*48:51        | B*51:248       |
| B*45:07        | <b>B*49:01</b> | B*51:249       |
| B*45:13        | B*49:49        | B*51:250       |
| B*45:19        | B*49:62        | B*51:256N      |
| B*45:25        | B*49:64        | B*51:260       |
| B*45:30        | B*49:65        | B*51:262       |
| B*45:32        | B*49:66        | B*51:264N      |
| <b>B*46:01</b> | B*49:78        | B*51:268       |
| B*46:15N       | B*49:79        | B*51:269       |
| B*46:24        | B*49:81        | B*51:270       |

## Representative and Ambiguous Alleles

|           |                |                |
|-----------|----------------|----------------|
| B*51:271  | B*51:384       | B*52:85        |
| B*51:285  | B*51:387N      | B*52:86        |
| B*51:286  | B*51:388       | B*52:90        |
| B*51:288  | B*51:393Q      | B*52:91        |
| B*51:289  | B*51:394Q      | B*52:93        |
| B*51:296  | B*51:395       | B*52:94N       |
| B*51:297  | B*51:399       | B*52:95        |
| B*51:30   | B*51:400       | <b>B*53:01</b> |
| B*51:303  | B*51:401       | B*53:37        |
| B*51:307  | B*51:405       | B*53:51        |
| B*51:308  | B*51:406       | B*53:54        |
| B*51:309  | B*51:48        | B*53:59        |
| B*51:316  | B*51:51        | B*53:64        |
| B*51:32   | <b>B*51:02</b> | B*53:66        |
| B*51:320  | B*51:385       | B*53:73        |
| B*51:321  | <b>B*51:04</b> | <b>B*54:01</b> |
| B*51:322  | B*51:396       | B*54:17        |
| B*51:329Q | <b>B*51:08</b> | B*54:32        |
| B*51:330  | B*51:263       | <b>B*55:01</b> |
| B*51:332  | <b>B*51:09</b> | B*55:102       |
| B*51:334  | B*51:259       | B*55:108       |
| B*51:335  | <b>B*51:42</b> | B*55:109       |
| B*51:336  | B*51:359       | B*55:111       |
| B*51:339  | <b>B*52:01</b> | B*55:114       |
| B*51:343  | B*52:07        | B*55:116       |
| B*51:360  | B*52:100       | B*55:125N      |
| B*51:361N | B*52:102       | B*55:85        |
| B*51:363  | B*52:103N      | B*55:91        |
| B*51:364  | B*52:104       | B*55:97N       |
| B*51:365N | B*52:108       | B*55:98        |
| B*51:367  | B*52:117       | <b>B*55:02</b> |
| B*51:368  | B*52:36        | B*55:107       |
| B*51:370  | B*52:53        | B*55:117N      |
| B*51:375  | B*52:79        | B*55:131       |
| B*51:380  | B*52:80        | B*55:132N      |
| B*51:381  |                |                |

## Representative and Ambiguous Alleles

|                |                |                |
|----------------|----------------|----------------|
| B*55:133       | B*57:37        | B*58:95        |
| B*55:62        | B*57:55        | B*58:99        |
| B*55:83N       | B*57:79N       | <b>B*58:02</b> |
| <b>B*56:01</b> | B*57:91        | B*58:104       |
| B*56:24        | <b>B*57:03</b> | B*58:146       |
| B*56:40        | B*57:101       | B*58:148       |
| B*56:55        | B*57:124       | <b>B*58:19</b> |
| B*56:68        | B*57:155       | B*58:91        |
| B*56:69        | B*57:170       | <b>B*59:01</b> |
| B*56:70        | B*57:180       | B*59:07        |
| B*56:72        | B*57:94        | <b>B*67:01</b> |
| B*56:79        | <b>B*58:01</b> | B*67:05        |
| B*56:83        | B*58:101       | <b>B*73:01</b> |
| B*56:90        | B*58:103       | B*73:03        |
| B*56:92        | B*58:105       | B*73:04        |
| B*56:98        | B*58:106       | <b>B*81:01</b> |
| <b>B*57:01</b> | B*58:108       | B*81:02        |
| B*57:103       | B*58:11        | B*81:03        |
| B*57:116       | B*58:112       | B*81:10        |
| B*57:130N      | B*58:113       | B*81:13        |
| B*57:132       | B*58:117       |                |
| B*57:135       | B*58:120       | <b>C*01:02</b> |
| B*57:136       | B*58:129       | C*01:109N      |
| B*57:138       | B*58:130N      | C*01:127       |
| B*57:144       | B*58:133N      | C*01:135       |
| B*57:158       | B*58:139       | C*01:138       |
| B*57:159       | B*58:140       | C*01:139       |
| B*57:163       | B*58:149       | C*01:142       |
| B*57:164       | B*58:31N       | C*01:150       |
| B*57:166       | B*58:51        | C*01:151       |
| B*57:168       | B*58:52        | C*01:155       |
| B*57:169       | B*58:57        | C*01:159       |
| B*57:171       | B*58:58        | C*01:164       |
| B*57:173       | B*58:66        | C*01:165       |
| B*57:29        | B*58:71        | C*01:172       |
|                |                | C*01:173       |

## Representative and Ambiguous Alleles

|           |                |                |
|-----------|----------------|----------------|
| C*01:174  | C*01:82        | C*02:205Q      |
| C*01:175  | C*01:83        | C*02:206       |
| C*01:179  | C*01:84        | C*02:207       |
| C*01:180  | C*01:85        | C*02:212       |
| C*01:181N | C*01:89N       | C*02:214       |
| C*01:182  | <b>C*01:03</b> | C*02:215Q      |
| C*01:183  | C*01:24        | C*02:218N      |
| C*01:185Q | <b>C*02:02</b> | C*02:236       |
| C*01:187  | C*02:10        | C*02:29        |
| C*01:191  | C*02:106       | C*02:69        |
| C*01:194  | C*02:138       | C*02:70        |
| C*01:200  | C*02:145       | C*02:83        |
| C*01:206  | C*02:147       | <b>C*02:10</b> |
| C*01:213  | C*02:150N      | C*02:02        |
| C*01:214  | C*02:151       | C*02:168       |
| C*01:216  | C*02:153       | C*02:169N      |
| C*01:217  | C*02:154       | C*02:174       |
| C*01:219  | C*02:155       | C*02:176       |
| C*01:230  | C*02:163       | C*02:211Q      |
| C*01:232  | C*02:170       | C*02:220       |
| C*01:234  | C*02:171       | C*02:226       |
| C*01:237  | C*02:172       | C*02:238       |
| C*01:239  | C*02:173       | <b>C*03:02</b> |
| C*01:242  | C*02:175       | C*03:146       |
| C*01:243  | C*02:178       | C*03:224N      |
| C*01:247  | C*02:179       | C*03:226       |
| C*01:25   | C*02:183       | C*03:373       |
| C*01:250  | C*02:186       | C*03:411       |
| C*01:254  | C*02:188       | C*03:425       |
| C*01:257N | C*02:193N      | C*03:452       |
| C*01:258  | C*02:194       | C*03:473       |
| C*01:259  | C*02:198       | C*03:489       |
| C*01:260  | C*02:199       | C*03:497       |
| C*01:261  | C*02:200       | C*03:561       |
| C*01:264  | C*02:204       | C*03:589       |
| C*01:44   |                |                |

## Representative and Ambiguous Alleles

|                |                |           |
|----------------|----------------|-----------|
| C*03:613       | C*03:490       | C*03:252  |
| C*03:614       | C*03:503       | C*03:294  |
| C*03:615       | C*03:517       | C*03:303  |
| C*03:618N      | C*03:527       | C*03:354  |
| C*03:623       | C*03:528       | C*03:358  |
| C*03:637       | C*03:533       | C*03:359  |
| C*03:638       | C*03:545       | C*03:362  |
| C*03:641       | C*03:560N      | C*03:366N |
| C*03:666Q      | C*03:563       | C*03:369  |
| C*03:668       | C*03:578       | C*03:376  |
| <b>C*03:03</b> | C*03:582       | C*03:381  |
| C*03:171       | C*03:587       | C*03:387  |
| C*03:205       | C*03:592       | C*03:408  |
| C*03:206       | C*03:594       | C*03:417  |
| C*03:207       | C*03:595       | C*03:423  |
| C*03:20N       | C*03:597       | C*03:424N |
| C*03:227       | C*03:606       | C*03:441  |
| C*03:237       | C*03:616       | C*03:442Q |
| C*03:312       | C*03:62        | C*03:455  |
| C*03:327       | C*03:622       | C*03:456  |
| C*03:341       | C*03:624       | C*03:466  |
| C*03:357       | C*03:632       | C*03:467  |
| C*03:370       | C*03:636N      | C*03:470N |
| C*03:372       | C*03:651       | C*03:478  |
| C*03:378       | <b>C*03:04</b> | C*03:480  |
| C*03:380N      | C*03:100       | C*03:483  |
| C*03:383       | C*03:101       | C*03:484  |
| C*03:418       | C*03:105       | C*03:485  |
| C*03:421N      | C*03:106       | C*03:486  |
| C*03:422       | C*03:211       | C*03:491  |
| C*03:432N      | C*03:212       | C*03:492  |
| C*03:460       | C*03:213       | C*03:496  |
| C*03:471       | C*03:218       | C*03:498  |
| C*03:477       | C*03:219       | C*03:499  |
| C*03:481       | C*03:236       | C*03:500  |
|                |                | C*03:502Q |

## Representative and Ambiguous Alleles

|                |          |           |
|----------------|----------|-----------|
| C*03:523       | C*04:146 | C*04:389  |
| C*03:538       | C*04:161 | C*04:390  |
| C*03:543       | C*04:162 | C*04:391  |
| C*03:548       | C*04:165 | C*04:392  |
| C*03:558       | C*04:195 | C*04:394  |
| C*03:562       | C*04:226 | C*04:395  |
| C*03:569       | C*04:267 | C*04:397  |
| C*03:572       | C*04:274 | C*04:398  |
| C*03:576       | C*04:275 | C*04:399  |
| C*03:581       | C*04:277 | C*04:403  |
| C*03:593       | C*04:28  | C*04:406  |
| C*03:599       | C*04:287 | C*04:407  |
| C*03:602       | C*04:289 | C*04:409  |
| C*03:603       | C*04:295 | C*04:41   |
| C*03:605       | C*04:298 | C*04:411N |
| C*03:621       | C*04:30  | C*04:418  |
| C*03:633       | C*04:306 | C*04:423  |
| C*03:642       | C*04:308 | C*04:424  |
| C*03:648       | C*04:310 | C*04:430  |
| C*03:649       | C*04:318 | C*04:431  |
| C*03:655       | C*04:320 | C*04:432  |
| C*03:656       | C*04:321 | C*04:434  |
| C*03:678       | C*04:322 | C*04:435  |
| <b>C*03:05</b> | C*04:327 | C*04:437  |
| C*03:335       | C*04:328 | C*04:438  |
| C*03:407       | C*04:329 | C*04:440  |
| C*03:482       | C*04:330 | C*04:441  |
| <b>C*03:14</b> | C*04:339 | C*04:442  |
| C*03:361       | C*04:348 | C*04:444  |
| <b>C*03:40</b> | C*04:356 | C*04:450  |
| C*03:279       | C*04:358 | C*04:451  |
| <b>C*04:01</b> | C*04:372 | C*04:452N |
| C*04:09N       | C*04:375 | C*04:453  |
| C*04:106       | C*04:380 | C*04:454  |
| C*04:144       | C*04:384 | C*04:456Q |
|                | C*04:388 | C*04:460  |



## Representative and Ambiguous Alleles

|                 |                 |                 |
|-----------------|-----------------|-----------------|
| C*04:469        | C*04:477        | C*05:275        |
| C*04:470        | <b>C*04:59Q</b> | C*05:277        |
| C*04:471        | C*04:428Q       | C*05:278N       |
| C*04:472        | <b>C*05:01</b>  | C*05:279        |
| C*04:474        | C*05:03         | C*05:282Q       |
| C*04:475        | C*05:108        | C*05:283        |
| C*04:482        | C*05:145        | C*05:285        |
| C*04:488        | C*05:153N       | C*05:286        |
| C*04:491        | C*05:158        | C*05:287        |
| C*04:493        | C*05:161        | C*05:291N       |
| C*04:494        | C*05:172        | C*05:293        |
| C*04:495        | C*05:179        | C*05:37         |
| C*04:497        | C*05:187        | C*05:53         |
| C*04:502        | C*05:192        | C*05:93         |
| C*04:503Q       | C*05:199        | <b>C*05:99N</b> |
| C*04:508        | C*05:204        | C*05:292N       |
| C*04:511        | C*05:212        | <b>C*06:02</b>  |
| C*04:512        | C*05:221        | C*06:111        |
| C*04:513        | C*05:222        | C*06:146        |
| C*04:520        | C*05:224        | C*06:176        |
| C*04:521        | C*05:225        | C*06:201        |
| C*04:523        | C*05:226        | C*06:211        |
| C*04:79         | C*05:231        | C*06:213        |
| C*04:82         | C*05:232        | C*06:214        |
| C*04:84         | C*05:239N       | C*06:227        |
| <b>C*04:03</b>  | C*05:242        | C*06:228        |
| C*04:286        | C*05:243        | C*06:234        |
| C*04:337        | C*05:246        | C*06:236        |
| <b>C*04:06</b>  | C*05:248        | C*06:238        |
| C*04:357        | C*05:255        | C*06:239        |
| <b>C*04:10</b>  | C*05:260N       | C*06:240        |
| C*04:347        | C*05:261        | C*06:244        |
| <b>C*04:355</b> | C*05:266        | C*06:246        |
| C*04:427        | C*05:267        | C*06:255        |
| <b>C*04:360</b> | C*05:273        | C*06:258        |

## Representative and Ambiguous Alleles

|           |                |           |
|-----------|----------------|-----------|
| C*06:260  | C*06:355       | C*07:1097 |
| C*06:261  | C*06:359N      | C*07:1099 |
| C*06:262  | C*06:360       | C*07:1103 |
| C*06:266  | C*06:370       | C*07:1110 |
| C*06:268  | C*06:372       | C*07:1112 |
| C*06:272  | C*06:374       | C*07:1131 |
| C*06:273  | C*06:375       | C*07:1132 |
| C*06:274  | C*06:382       | C*07:153  |
| C*06:275  | C*06:46N       | C*07:166  |
| C*06:276  | C*06:55        | C*07:18   |
| C*06:277  | C*06:73        | C*07:337  |
| C*06:278  | C*06:83        | C*07:343  |
| C*06:279  | <b>C*06:06</b> | C*07:419  |
| C*06:283  | C*06:271       | C*07:458  |
| C*06:285Q | <b>C*06:17</b> | C*07:52   |
| C*06:287  | C*06:02        | C*07:588  |
| C*06:288  | <b>C*06:87</b> | C*07:591  |
| C*06:289  | C*06:330       | C*07:607  |
| C*06:294  | <b>C*07:01</b> | C*07:610  |
| C*06:297  | C*07:06        | C*07:615  |
| C*06:302  | C*07:1000      | C*07:617  |
| C*06:308  | C*07:1001N     | C*07:618  |
| C*06:310  | C*07:1022      | C*07:619  |
| C*06:312  | C*07:1023      | C*07:621  |
| C*06:314  | C*07:1030      | C*07:623  |
| C*06:315  | C*07:1047      | C*07:624  |
| C*06:324  | C*07:1048      | C*07:657  |
| C*06:327  | C*07:1049      | C*07:658  |
| C*06:328  | C*07:1051      | C*07:682  |
| C*06:329  | C*07:1055      | C*07:685  |
| C*06:332  | C*07:1064      | C*07:687  |
| C*06:333  | C*07:1082      | C*07:694  |
| C*06:336Q | C*07:1093      | C*07:696  |
| C*06:337  | C*07:1095      | C*07:706  |
| C*06:346  | C*07:1096      | C*07:708  |
| C*06:349  |                | C*07:721  |

## Representative and Ambiguous Alleles

|           |                |           |
|-----------|----------------|-----------|
| C*07:732  | C*07:931       | C*07:160  |
| C*07:734  | C*07:933       | C*07:167  |
| C*07:735  | C*07:934N      | C*07:245  |
| C*07:739  | C*07:935       | C*07:308  |
| C*07:760  | C*07:943       | C*07:348  |
| C*07:762  | C*07:944       | C*07:349  |
| C*07:777  | C*07:945       | C*07:350N |
| C*07:778  | C*07:949       | C*07:359  |
| C*07:781  | C*07:952       | C*07:446  |
| C*07:782  | C*07:955       | C*07:486  |
| C*07:795  | C*07:961       | C*07:50   |
| C*07:796N | C*07:983       | C*07:500  |
| C*07:800  | C*07:985       | C*07:533  |
| C*07:803  | <b>C*07:02</b> | C*07:544  |
| C*07:805  | C*07:1004      | C*07:566  |
| C*07:808  | C*07:1014Q     | C*07:592  |
| C*07:811  | C*07:1015      | C*07:593N |
| C*07:813  | C*07:1019      | C*07:594  |
| C*07:814  | C*07:1021      | C*07:595  |
| C*07:823  | C*07:1029      | C*07:596  |
| C*07:824  | C*07:1038      | C*07:608  |
| C*07:825  | C*07:1046      | C*07:612  |
| C*07:832  | C*07:1052      | C*07:66   |
| C*07:833N | C*07:1054N     | C*07:661  |
| C*07:841  | C*07:1058      | C*07:665  |
| C*07:843  | C*07:1068      | C*07:666  |
| C*07:848  | C*07:1083      | C*07:667  |
| C*07:859  | C*07:1084      | C*07:675N |
| C*07:875  | C*07:1086      | C*07:676  |
| C*07:877  | C*07:1098      | C*07:684  |
| C*07:879  | C*07:1101      | C*07:686N |
| C*07:882  | C*07:1105      | C*07:688  |
| C*07:903  | C*07:1111      | C*07:703  |
| C*07:925  | C*07:1114Q     | C*07:704  |
| C*07:928  | C*07:159       | C*07:707  |
| C*07:930  |                | C*07:722  |

## Representative and Ambiguous Alleles

|           |                 |                  |
|-----------|-----------------|------------------|
| C*07:736  | C*07:886N       | <b>C*07:19</b>   |
| C*07:737  | C*07:888        | C*07:639         |
| C*07:738  | C*07:890        | <b>C*07:22</b>   |
| C*07:74   | C*07:904        | C*07:847         |
| C*07:740  | C*07:906        | <b>C*07:26</b>   |
| C*07:741  | C*07:924        | C*07:845         |
| C*07:743N | C*07:946        | <b>C*07:27</b>   |
| C*07:759  | C*07:950        | C*07:830         |
| C*07:766  | C*07:956        | <b>C*07:33N</b>  |
| C*07:767  | C*07:962        | C*07:936N        |
| C*07:768  | C*07:965        | <b>C*07:450</b>  |
| C*07:769  | C*07:966        | C*07:959         |
| C*07:772  | C*07:968        | <b>C*07:726N</b> |
| C*07:779  | C*07:969        | C*07:776N        |
| C*07:783  | C*07:971        | <b>C*07:787N</b> |
| C*07:785  | C*07:972        | C*07:1042N       |
| C*07:789  | C*07:976        | <b>C*07:919</b>  |
| C*07:790  | C*07:978        | C*07:1025        |
| C*07:791  | <b>C*07:04</b>  | <b>C*07:95</b>   |
| C*07:798  | C*07:1033       | C*07:1108        |
| C*07:799  | C*07:11         | <b>C*08:01</b>   |
| C*07:801  | C*07:324        | C*08:102         |
| C*07:807N | C*07:585        | C*08:128         |
| C*07:809  | C*07:586        | C*08:147         |
| C*07:810  | C*07:622        | C*08:148         |
| C*07:818  | C*07:674        | C*08:164         |
| C*07:822  | C*07:693        | C*08:178         |
| C*07:826  | C*07:797N       | C*08:186         |
| C*07:829  | C*07:831        | C*08:187         |
| C*07:837  | C*07:852        | C*08:194         |
| C*07:840N | C*07:876        | C*08:196         |
| C*07:853  | C*07:926        | C*08:197         |
| C*07:862  | C*07:948        | C*08:199         |
| C*07:880  | <b>C*07:165</b> | C*08:20          |
| C*07:883  | C*07:815        | C*08:204         |
| C*07:885  |                 |                  |

## Representative and Ambiguous Alleles

|                |                |           |
|----------------|----------------|-----------|
| C*08:210       | C*08:231       | C*12:201  |
| C*08:212       | C*08:257       | C*12:209  |
| C*08:217       | C*08:258       | C*12:210  |
| C*08:22        | C*08:266       | C*12:211  |
| C*08:220       | C*08:271       | C*12:216  |
| C*08:232       | C*08:275       | C*12:220  |
| C*08:235       | C*08:280       | C*12:223  |
| C*08:236N      | C*08:52N       | C*12:23   |
| C*08:24        | C*08:75        | C*12:244  |
| C*08:250       | <b>C*08:03</b> | C*12:245  |
| C*08:252       | C*08:40        | C*12:253  |
| C*08:253       | <b>C*12:02</b> | C*12:254  |
| C*08:254       | C*12:228       | C*12:262  |
| C*08:259       | C*12:234       | C*12:273  |
| C*08:272       | C*12:243       | C*12:277  |
| C*08:284       | C*12:261       | C*12:278  |
| C*08:78        | C*12:280       | C*12:283  |
| C*08:86        | C*12:281       | C*12:284  |
| C*08:87        | C*12:285       | C*12:289  |
| C*08:99        | C*12:303       | C*12:290  |
| <b>C*08:02</b> | C*12:304       | C*12:291  |
| C*08:110       | C*12:307       | C*12:292  |
| C*08:159       | C*12:336       | C*12:295N |
| C*08:179       | C*12:338       | C*12:297  |
| C*08:195       | C*12:351Q      | C*12:300  |
| C*08:198       | <b>C*12:03</b> | C*12:302  |
| C*08:200       | C*12:109       | C*12:306  |
| C*08:202       | C*12:110       | C*12:317  |
| C*08:211       | C*12:111       | C*12:322  |
| C*08:215       | C*12:125       | C*12:323  |
| C*08:225Q      | C*12:143       | C*12:324N |
| C*08:226       | C*12:160       | C*12:330Q |
| C*08:227       | C*12:167       | C*12:332  |
| C*08:229       | C*12:171       | C*12:339  |
| C*08:230       | C*12:172       | C*12:342Q |
|                |                | C*12:346  |

## Representative and Ambiguous Alleles

|                |                |                 |
|----------------|----------------|-----------------|
| C*12:348       | C*14:138       | C*15:221        |
| C*12:349       | C*14:143       | C*15:223        |
| C*12:350       | C*14:149       | C*15:230        |
| C*12:354       | C*14:152       | C*15:231        |
| C*12:364       | C*14:155       | C*15:237        |
| C*12:367       | C*14:158Q      | C*15:239        |
| C*12:368       | C*14:23        | C*15:251        |
| C*12:369       | C*14:31        | C*15:255        |
| C*12:370       | C*14:57        | C*15:261        |
| C*12:372       | C*14:60        | C*15:264        |
| C*12:374       | <b>C*14:03</b> | C*15:265        |
| C*12:375       | C*14:112       | C*15:267        |
| C*12:378       | C*14:113       | C*15:270Q       |
| C*12:386       | C*14:86        | C*15:47         |
| C*12:390       | <b>C*15:02</b> | C*15:81         |
| C*12:393Q      | C*15:13        | C*15:82         |
| C*12:394       | C*15:146       | C*15:87         |
| C*12:395       | C*15:151       | C*15:97         |
| C*12:398       | C*15:154       | <b>C*15:04</b>  |
| C*12:407       | C*15:160N      | C*15:236        |
| C*12:409       | C*15:163       | <b>C*15:05</b>  |
| C*12:415       | C*15:176       | C*15:152        |
| <b>C*14:02</b> | C*15:186       | C*15:164N       |
| C*14:100       | C*15:187       | C*15:234        |
| C*14:102       | C*15:193       | C*15:274        |
| C*14:109       | C*15:196       | C*15:29         |
| C*14:111       | C*15:197       | <b>C*15:09</b>  |
| C*14:114       | C*15:199       | C*15:263        |
| C*14:115       | C*15:200       | <b>C*15:103</b> |
| C*14:117N      | C*15:202       | C*15:127        |
| C*14:121       | C*15:205       | <b>C*15:152</b> |
| C*14:124       | C*15:213N      | C*15:05         |
| C*14:127       | C*15:215       | <b>C*16:01</b>  |
| C*14:131       | C*15:219       | C*16:100        |
| C*14:137       | C*15:220       | C*16:111        |

## Representative and Ambiguous Alleles

|                |                |
|----------------|----------------|
| C*16:112       | C*16:63        |
| C*16:118       | C*16:90        |
| C*16:137       | <b>C*17:01</b> |
| C*16:146       | C*17:02        |
| C*16:148       | C*17:03        |
| C*16:154       | C*17:37        |
| C*16:157       | C*17:38        |
| C*16:158       | C*17:39        |
| C*16:159       | C*17:43        |
| C*16:160       | C*17:44        |
| C*16:161       | C*17:47        |
| C*16:164       | C*17:49        |
| C*16:168       | C*17:50        |
| C*16:172       | C*17:51        |
| C*16:177       | C*17:54        |
| C*16:178       | C*17:55        |
| C*16:180       | C*17:57        |
| C*16:185       | C*17:67        |
| C*16:186N      | C*17:68        |
| C*16:187       | C*17:69        |
| C*16:193       | C*17:74        |
| C*16:197       | C*17:75        |
| C*16:198       | <b>C*18:01</b> |
| C*16:200       | C*18:02        |
| C*16:213       | C*18:11        |
| C*16:214       | C*18:15        |
| C*16:216       | C*18:21        |
| C*16:58        |                |
| C*16:97        |                |
| <b>C*16:02</b> |                |
| C*16:133       |                |
| C*16:155       |                |
| C*16:176       |                |
| C*16:181       |                |
| C*16:215       |                |