HLA-C\*03 (101.611-12/12u) Lot No: 6N6 Expiry Date: 2026-04-01

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Sample ID:\_\_\_\_\_\_\_\_\_\_\_\_\_\_

DNA Conc.(ng/ul):\_\_\_\_\_\_\_\_\_

Test Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Tested By:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Review Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Reviewed By:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*Interpretation:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Failed lanes*: \_\_\_\_\_\_\_\_\_\_\_\_ *Comments:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

**Gel Picture**

|  |
| --- |
| PHOTO DOCUMENT |







Abbreviations

ICB: Internal Control Band

AmpS: Amplicon Size

**Notes:**

Product sizes are approximate. For detailed information, see the lot-specific Specificity Table and Interpretation Table.

This table is intended as a guide. For interpretation always use the Interpretation Table and/or Specificity Table.

HLA-specific PCR products shorter than 125 base pairs have a lower intensity and are less sharp than longer PCR products.

Primer mixes 7, 14 and 41 may give rise to a lower yield of HLA-specific PCR product than the other HLA-C\*03 primer mixes.

Primer mixes 15, 26, 30, 35, 43, 52 and 59 have a tendency to giving rise to primer oligomer formation.

Primer mixes 20, 28, 32, 38 and 40 may have tendencies of unspecific amplifications.

Primer mix 63 contains a negative control, which will amplify the majority of HLA amplicons as well as the amplicons generated by the control primer pairs matching the human growth hormone gene. HLA-specific PCR product sizes range from 75 to 200 base pairs and the PCR product generated by the HGH positive control primer pair is 200 base pairs.



 



























**1**HLA-C\*03 alleles in bold lettering are listed as confirmed alleles on the IMGT/HLA web page [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla) 2016-July-14, release 3.25.0.

**2**Alleles that have been deleted from or renamed in the official WHO HLA Nomenclature up to and including the last IMGT/HLA database release can be retrieved from web page <http://hla.alleles.org/alleles/deleted.html>.

**3**The following HLA-C\*03 primer mixes have two or more product sizes:

|  |  |  |  |
| --- | --- | --- | --- |
| Primer Mix | Size of spec. PCR product | Amplified HLA-C\*03 alleles | Other amplified HLA Class I alleles |
|  **6** | 90 bp215 bp | \*03:21, 03:80:02, 03:142, 03:287:01-03:287:02, 03:413\*03:06:01-03:06:02  | **B\*15:96** |
|  **7** | 110 bp 185 bp | \*03:08, 03:29, 03:31, 03:246, 03:555\*03:03:01:01-03:03:63, 03:03:65, 03:11:01-03:11:02, 03:13:01:01-03:13:02, 03:18:01-03:18:03, 03:20N-03:22Q, 03:30-03:31, 03:39, 03:43:01-03:43:02, 03:49-03:50, 03:52-03:53, 03:55-03:56, 03:58-03:59, 03:61-03:62, 03:66-03:69, 03:75-03:76, 03:79, 03:81, 03:83, 03:85-03:86, 03:88, 03:96-03:97, 03:102-03:103, 03:112, 03:116:01-03:116:02, 03:119:01-03:120, 03:122, 03:124, 03:126-03:127, 03:132-03:133, 03:141-03:142, 03:144, 03:150-03:152, 03:158, 03:160-03:161, 03:165:01-03:165:02, 03:167-03:168, 03:171, 03:175-03:177, 03:182, 03:185, 03:187-03:189N, 03:192, 03:195-03:196, 03:202-03:207, 03:214, 03:217, 03:220, 03:223, 03:227-03:231, 03:237, 03:241-03:243, 03:251, 03:253-03:254, 03:262, 03:267-03:268, 03:271-03:276, 03:284-03:285, 03:288-03:291, 03:295, 03:304, 03:307-03:308, 03:312, 03:316N, 03:319-03:321, 03:324-03:325, 03:327, 03:336, 03:339, 03:341, 03:345-03:346, 03:351-03:352, 03:356-03:357, 03:360, 03:363N, 03:367, 03:370, 03:372:01-03:372:02, 03:375, 03:377N-03:378, 03:380N, 03:383, 03:389, 03:395, 03:398, 03:413-03:414, 03:416, 03:418, 03:421N-03:422, 03:427-03:428, 03:430, 03:432N-03:433, 03:436, 03:438, 03:440, 03:444N, 03:447N, 03:450-03:451, 03:457, 03:460-03:461, 03:471-03:472, 03:474, 03:476-03:477, 03:479, 03:481, 03:490, 03:495, 03:503, 03:506-03:507, 03:509N, 03:514-03:517, 03:519-03:520, 03:524, 03:527-03:529, 03:533-03:535:01:02, 03:537, 03:540-03:542, 03:545, 03:550-03:551, 03:556, 03:559-03:560N, 03:563, 03:567-03:568, 03:573-03:574, 03:578-03:579, 03:582-03:583, 03:585-03:587  | \*01:118, 01:128, 01:195, 06:44, 06:252, 07:01:01:01-07:01:02:14, 07:01:04-07:01:24, 07:01:26-07:01:73, 07:01:75-07:01:109, 07:06:01:01-07:07, 07:09, 07:16, 07:18:01:01-07:20:02, 07:22, 07:24, 07:26:01:01-07:26:03, 07:28, 07:30, 07:35-07:36, 07:40, 07:44, 07:52-07:53, 07:55N, 07:57-07:60, 07:65, 07:70-07:71, 07:73:01-07:73:02, 07:77-07:78:02, 07:81-07:83, 07:86, 07:89, 07:91-07:96:02, 07:98N, 07:103-07:104N, 07:106, 07:108:01-07:113, 07:115-07:116, 07:118-07:120, 07:122, 07:124, 07:128-07:129, 07:131:01-07:132, 07:134, 07:140:01-07:141:03, 07:148, 07:150Q-07:151, 07:153, 07:162, 07:164N-07:166, 07:170, 07:173, 07:176, 07:179-07:180, 07:182, 07:188-07:191N, 07:196-07:197, 07:200-07:201, 07:203-07:207, 07:210, 07:212, 07:214-07:215, 07:219, 07:222-07:224, 07:227N-07:228, 07:230-07:231, 07:235Q-07:237, 07:246:01-07:250, 07:253-07:257:04, 07:263, 07:266-07:269, 07:276-07:282, 07:292-07:293, 07:296-07:301, 07:303-07:304, 07:310-07:311, 07:313, 07:317, 07:330:01-07:332, 07:337, 07:343:01:01-07:343:01:02, 07:353, 07:362, 07:366, 07:369-07:371, 07:377, 07:385-07:387, 07:404, 07:407-07:408, 07:410, 07:412, 07:417, 07:419, 07:421-07:422, 07:424, 07:427, 07:430-07:431, 07:435, 07:437N, 07:440-07:444, 07:448, 07:450, 07:453-07:455, 07:458, 07:460-07:463, 07:468-07:471, 07:475-07:476N, 07:479, 07:481, 07:488, 07:490-07:492, 07:498-07:499, 07:502, 07:506, 07:508, 07:512, 07:514:01-07:515, 07:517, 07:521:01-07:522, 07:526:01-07:527, 07:531, 07:536-07:537, 07:540, 07:545-07:547, 07:549-07:550, 07:554, 07:555w, 07:557, 07:559, 07:561, 07:568, 07:570-07:571, 07:579, 07:581, 07:587-07:589, 07:591, 07:602-07:604, 07:607, 07:610, 07:613-07:615, 07:617-07:621, 07:623-07:624, 07:627, 07:633N-07:636, 07:638-07:639, 07:642-07:643, 07:647, 07:649-07:650:02, 07:652-07:654, 07:657-07:658, 07:660, 07:662-07:663Q, 07:668-07:671, 07:673, 07:677, 07:682:01:01-07:683, 07:685, 07:687, 07:690N-07:691, 07:694, 07:696, 07:699, 07:701, 07:705-07:706, 07:708, 07:712-07:714, 07:718, 07:720-07:721, 07:725-07:726N, 07:728, 07:731-07:732, 07:734-07:735, 07:739, 07:746N, 07:749N-07:750N, 07:756-07:758, 07:760, 07:762, 07:771, 07:774, 07:776N-07:778, 07:781-07:782, 07:786-07:788, 07:794-07:796N, 07:800, 07:802-07:806, 07:808N, 07:811-07:816, 07:819Q-07:821N, 07:823-07:825, 07:827, 07:832-07:834, 07:841, 07:843-07:848, 07:855-07:857, 07:859-07:860, 07:863N, 07:869-07:870, 07:872-07:873, 07:875, 07:877-07:879, 07:882, 07:884, 07:887, 07:893-07:894, 07:898, 07:903, 07:909-07:910, 07:914-07:915, 07:919-07:922, 07:925, 07:928, 07:930-07:935, 07:943-07:945, 07:947, 07:949, 07:952, 07:954N-07:955, 07:957, 07:959, 07:961, 07:967, 07:970N, 07:973, 07:977, 07:979-07:981N, 07:983-07:985, 07:990-07:993, 07:996, 07:1000-07:1001N, 14:73, 15:02:10, 15:02:17, 15:99, 18:05, **B\*07:259**\*01:51, 06:53:01, 07:56:01, 07:60, 07:79, 07:109:01, 14:46:02, 17:26, **B\*07:93, B\*08:39, B\*18:157:01:01-18:157:01:02, B\*27:155, B\*35:101:02, B\*35:195, B\*35:211,** **B\*38:27, B\*51:76, B\*54:34, B\*56:85** |
| **11** | 145 bp230 bp 415 bp | \*03:87:01-03:87:02, 03:414\*03:126, 03:385\*03:08, 03:29, 03:31, 03:246, 03:555 | \*05:86, 05:201\*01:118, 01:128, 01:195, 04:112, 04:169, 05:36, 06:44, 06:252, 12:08, 12:81, 12:188, 12:287, 14:73, 15:205, 16:64, 16:70, 16:87 |
| **12** | 110 bp140 bp260 bp 305 bp590 bp | \*03:265N\*03:214\*03:03:12, 03:03:15, 03:11:01, 03:18:01, 03:18:03, 03:39, 03:308\*03:03:29, 03:04:19, 03:113:01 | **B\*44:198N**\*01:51, 05:55, 06:53:01, 07:56:01, 07:60, 07:79, 07:109:01, 12:58, 12:252, 15:12, 15:144, 17:26\*07:10, 07:43:01-07:43:02, 07:184, 07:196, 07:367, 07:568, 15:02:33:01-15:02:33:02, **B\*35:01:38, B\*35:03:15, B\*35:08:04, B\*35:15:02, B\*37:04:02, B\*57:01:18, B\*57:03:04, B\*58:01:17**\*05:180N, 07:104N, 07:702N, 08:208N, 12:46N |
| **13** | 80 bp140 bp | \*03:02:01-03:02:26, 03:15-03:16, 03:33, 03:36, 03:40:01, 03:40:03-03:40:04, 03:42:01, 03:43:01, 03:60, 03:71, 03:84, 03:89, 03:95, 03:108, 03:110, 03:119:02, 03:121N, 03:132, 03:139, 03:146, 03:169Q, 03:175, 03:194, 03:197-03:201N, 03:216, 03:221-03:222, 03:224N-03:226, 03:238, 03:240, 03:245, 03:248, 03:258, 03:264, 03:271, 03:279, 03:298-03:301, 03:315, 03:329-03:330, 03:332, 03:338, 03:349-03:350, 03:365, 03:371, 03:373, 03:391N, 03:402-03:403, 03:406, 03:411, 03:425, 03:429, 03:431, 03:449N, 03:452, 03:468, 03:473, 03:475, 03:489, 03:497, 03:505, 03:536, 03:544, 03:547, 03:549, 03:561, 03:575, 03:584, 03:589\*03:17:01-03:17:02, 03:71, 03:249, 03:271, 03:302 | \*01:97, 02:02:38, 02:02:53, 04:54:01, 04:313:01:01-04:313:01:02, 04:367, 04:381, 05:215, 06:02:08, 07:02:32, 07:17:03, 07:141:03, 07:242, 12:02:19, 12:03:20, 14:02:01:01-14:02:01:30, 14:02:03-14:02:20, 14:02:22-14:02:36, 14:02:38-14:03:04, 14:04-14:16, 14:18-14:24:01, 14:25, 14:27-14:53, 14:56-14:78, 14:80-14:81, 14:83-14:91, 14:93N-14:141N, 15:77, 16:01:06, **B\*15:78:03, B\*15:524****\***01:02:68, 01:02:71, 01:97, 04:37, 04:230, 04:263, 06:02:08, 06:34:02, 12:03:20, 14:02:01:01-14:02:01:30, 14:02:03-14:02:20, 14:02:22-14:02:36, 14:02:38-14:03:04, 14:04-14:07N, 14:10-14:16, 14:18-14:27, 14:29-14:53, 14:55-14:81, 14:83-14:91, 14:93N-14:141N, 16:01:06 |
| **14** | 70 bp 210 bp | \*03:02:10, 03:03:21, 03:04:26\*03:19, 03:102, 03:307 | **\***02:26:01, 02:164, 05:58:02, 05:58:04, 06:70:01, 06:305, 07:20:01-07:20:02, 07:127:02, 07:390, 07:562, 08:105, 08:239, 12:140:01, 12:239, 15:02:25, 15:05:15, 15:23:01, 15:138, **B\*15:315, B\*44:85:01-44:85:02, B\*50:56, B\*51:226, B\*55:30****B\*56:37w** |
| **16** | 120 bp150 bp250 bp | \*03:105\*03:07:01:01-03:07:02, 03:10, 03:15, 03:29, 03:45, 03:163, 03:226, 03:268, 03:297, 03:450, 03:461\*03:218, 03:252 | \*08:147, 15:234\*01:14, 01:154, 02:02:13, 02:02:29, 04:01:23, 04:03:09, 04:07:02, 04:166:02, 05:01:12, 05:29:02, 06:02:01:01-06:02:01:91, 06:02:03-06:02:71, 06:02:73-06:02:86, 06:02:88-06:02:90, 06:02:92-06:04:02:02, 06:06:01:01-06:10, 06:12-06:76:01, 06:77-06:81, 06:83-06:146, 06:148-06:209:02, 06:211:01:01N-06:216, 06:218-06:247, 06:249-06:251, 06:253-06:310, 06:312-06:346, 07:07, 07:09, 07:76:01-07:76:02, 07:315, 07:328, 07:406, 07:559, 07:598, 07:656, 07:914, 12:04:01, 14:12, 14:49, 14:108, 15:02:10, 15:02:17, 15:99, 16:02:17, 17:01:01:02-17:01:03, 17:01:05-17:21, 17:23-17:62, 18:01:01:01-18:15, **B\*15:277, B\*15:430, B\*35:222, 35:525, B\*42:22**\*01:179 |
| **17** | 100 bp135 bp | \*03:20N, 03:101, 03:470N\*03:05:01:01-03:05:01:03, 03:25, 03:27, 03:167, 03:296:01-03:296:02, 03:335, 03:386, 03:407, 03:482, 03:494, 03:555 | \*04:403, 06:240, 07:694, 07:740, 08:210, **B\*14:85N, B\*44:306N**\*04:443, **B\*15:524** |
| **18** | 165 bp 195 bp 220 bp | \*03:102, 03:263:01-03:263:02, 03:514\*03:83\*03:23, 03:318N | **B\*15:96, B\*35:537, B\*44:274, B\*56:37** |
| **19** | 105 bp 250 bp | \*03:24\*03:33, 03:115:01-03:115:02, 03:236, 03:438 | \*15:90\*02:114, 04:106, 08:78, 15:200 |
| **20** | 160 bp250 bp455 bp | \*03:25, 03:155\*03:47, 03:227, 03:252\*03:227 | \*01:218, 08:95, 16:170, **B\*08:249, B\*35:252, B\*39:114**\*01:179, 12:126, **B\*07:324****B\*07:324** |
| **21** | 210 bp 240 bp | \*03:26:01-03:26:02\*03:57:01, 03:88, 03:410 |  |
| **22** | 200 bp255 bp | \*03:15, 03:27, 03:38:01-03:38:02, 03:69, 03:130, 03:136, 03:163, 03:237, 03:246, 03:274, 03:277N, 03:297, 03:431, 03:461\*03:213 | \*02:12, 02:49, 02:55:01-02:55:02, 02:115, 04:03:01:01-04:03:01:04, 04:03:03-04:03:09, 04:06:01-04:06:03, 04:16, 04:80, 04:107, 04:147, 04:160:01-04:160:02, 04:171, 04:190, 04:256, 04:286, 04:294, 04:335, 04:337, 04:351:01-04:351:02, 04:357, 04:363, 04:381, 04:383, 04:393, 04:400, 04:402, 06:70:01-06:70:02, 06:132:01-06:132:02, 06:305, 07:20:01-07:20:02, 07:96:01-07:96:02, 07:127:01-07:127:02, 07:263, 07:390, 07:562, 07:578, 12:140:01-12:140:02, 12:239, 12:353, 15:03, 15:16:01-15:16:02, 15:25 |
| **23** | 90 bp 260 bp | \*03:28, 03:49, 03:117, 03:549\*03:22Q, 03:90, 03:103, 03:153, 03:169Q, 03:391N | \*01:65, 04:201:02, 05:86, 05:201 |
| **25** | 305 bp 355 bp  | \*03:32:01:01-03:32:01:02, 03:45, 03:136, 03:297\*03:38:02, 03:69, 03:130, 03:136, 03:163, 03:246, 03:274, 03:297, 03:461 | \*04:80, 04:100, 04:110w, 04:178, 04:370, 04:422, 06:143, 07:10, 07:43:01, 07:196, 07:568w, 15:25, 15:62, 15:169, **B\*15:357, B\*35:178, 35:282, 35:316**\*04:80, 04:100, 04:110w, 04:178, 04:370, 04:422, 06:143, 07:10, 07:43:01, 07:196, 07:367, 07:568w, 12:44, 12:309, 15:03, 15:16:01-15:16:02, 15:25 |
| **26** | 70 bp 105 bp 255 bp | \*03:34, 03:142, 03:261, 03:272, 03:386\*03:36, 03:77, 03:187, 03:296:01-03:296:02\*03:13:01:01-03:13:02, 03:35:01-03:35:02:02, 03:125, 03:176, 03:178, 03:198, 03:267, 03:292, 03:474 | \*04:212, **B\*35:537, B\*44:274**\*04:201:02, 04:212, 05:86, 05:201, 07:133:01, 07:242, 07:330:01, 07:748, **B\*15:96** |
| **27** | 80 bp 210 bp275 bp | \*03:11:01-03:11:02, 03:18:02-03:18:03, 03:37:01-03:37:02, 03:64:01, 03:301, 03:529\*03:208N, 03:323N\*03:15, 03:32:01:01-03:32:01:02, 03:45, 03:60, 03:136, 03:297 | \*01:169:02, 02:08:01:01-02:08:01:02, 02:42, 02:189, 04:256, 06:03:01, 07:314:02, 07:756, 12:02:17, 12:03:23, 15:10:02-15:10:03, 15:113, 15:203, **B\*15:01:72, B\*15:125:02, B\*46:01:33, B\*58:74****\***02:49, 02:75, 02:115, 04:03:01:01-04:03:09, 04:06:01-04:06:03, 04:16, 04:80, 04:147, 04:160:01-04:160:02, 04:171, 04:256, 04:286, 04:294, 04:299, 04:335, 04:337, 04:351:01-04:351:02, 04:357, 04:363, 04:381, 04:383, 04:393, 04:400, 04:402, 06:03:01, 06:132:01-06:132:02, 07:96:01-07:96:02, 07:314:02, 07:578, 07:756, 15:25, 15:62, 15:169 |
| **28** | 90 bp165 bp | \*03:258\*03:16, 03:41:01-03:41:02, 03:113:01-03:113:02, 03:147, 03:151, 03:293, 03:384, 03:512, 03:535:01:01-03:536, 03:540 | \*04:401\*01:02:68, 01:02:71, 01:97, 02:02:38, 02:02:53, 02:197, 04:01:01:01-04:01:01:29, 04:01:01:31-04:01:04, 04:01:06, 04:01:08, 04:01:10-04:01:17, 04:01:19-04:01:21, 04:01:23-04:01:25, 04:01:27-04:01:67, 04:01:69-04:01:126, 04:01:128-04:01:143, 04:03:01:01-04:04:01:02, 04:05-04:20, 04:23-04:49, 04:51-04:54:01, 04:55-04:63, 04:65:01:01-04:76, 04:78-04:94:01, 04:95N-04:98:02, 04:100-04:119, 04:121-04:155, 04:157-04:159, 04:160:02-04:174, 04:176-04:177, 04:179, 04:180:02-04:200, 04:202-04:211, 04:213-04:222, 04:223:02-04:233N, 04:235-04:250, 04:252-04:261, 04:263-04:313:01:02, 04:315-04:359, 04:361-04:386, 04:388-04:419, 04:421, 04:423-04:469, 06:02:08, 06:34:02, 07:02:32, 07:17:03, 07:141:03, 07:857, 12:02:19, 12:03:20, 12:233, 14:02:01:01-14:02:01:30, 14:02:03-14:02:10, 14:02:12-14:02:29, 14:02:31-14:02:36, 14:02:38-14:16, 14:18-14:31, 14:33-14:43, 14:45-14:67, 14:69-14:81, 14:83-14:91, 14:93N-14:131, 14:133-14:141N, 15:77, 16:01:06, 18:01:01:01-18:15, **A\*03:01:110, B\*13:13:02, B\*14:02:30, B\*15:01:17, B\*15:78:03, B\*15:524** |
| **29** | 140 bp 170 bp 285 bp | \*03:98\*03:51, 03:96, 03:161, 03:165:01, 03:194\*03:39, 03:67 | \*04:64:01\*06:53:01, 07:56:01, 07:60, 07:79, 07:109:01, **B\*08:39** |
| **30** | 150 bp 175 bp | \*03:61\*03:46, 03:96, 03:194, 03:221, 03:328 | \*04:64:01 |
| **31** | 100 bp 210 bp555 bp | \*03:59, 03:123\*03:44, 03:494\*03:58, 03:86, 03:94, 03:209, 03:302 | \*01:168-01:169:02, 05:85, 05:107, 05:241, 12:178, 15:37, 15:102, 16:18, **B\*46:84, B\*54:38** |
| **32** | 90 bp 185 bp | \*03:58, 03:189N\*03:48, 03:84, 03:174, 03:281, 03:365 | \*01:03:01-01:03:02, 01:24, 01:78, 01:146:01-01:146:02, 04:37, 05:85, 05:241, 07:364 |
| **33** | 110 bp180 bp310 bp 365 bp | \*03:62\*03:224N\*03:167, 03:346\*03:43:01-03:43:02, 03:119:01-03:119:02, 03:132, 03:175, 03:271 | \*04:411N, 07:586w, 07:790w, 07:961w**B\*07:93, B\*08:39****\***07:60, 07:79, 12:58, 12:252, 14:10, 14:46:02, **B\*18:157:01:01-18:157:01:02, B\*35:101:02** |
| **34** | 130 bp195 bp 240 bp | \*03:54, 03:98\*03:192\*03:53, 03:580 | \*12:17, **A\*68:226** |
| **35** | 140 bp200 bp250 bp | \*03:56, 03:214, 03:229N\*03:79\*03:244Q | **B\*44:208, B\*57:142Nw** |
| **36** | 160 bp 240 bp | \*03:122, 03:206, 03:212, 03:219\*03:50, 03:72 | \*01:159, 02:207, 04:84, 06:288, 07:167, 07:585, 08:128, 12:339, 16:155 |
| **38** | 70 bp105 bp | \*03:184:01-03:184:02\*03:52, 03:95, 03:305 | \*04:43, 04:143, 04:171, 14:107 |
| **39** | 110 bp 160 bp195 bp | \*03:36, 03:77, 03:187, 03:296:01-03:296:02\*03:63, 03:145\*03:174, 03:365 | \*04:34, 04:122, 04:212, 04:265, 14:53, **B\*13:13:02, B\*40:01:49-40:01:50** |
| **40** | 70 bp230 bp 260 bp | \*03:80:01\*03:126, 03:385\*03:66 | \*04:201:01, 06:192, 07:133:02, 07:330:02, 15:171, **A\*24:449, A\*68:118, B\*08:115**\*01:202 |
| **41** | 120 bp 195 bp295 bp345 bp | \*03:68\*03:100\*03:205\*03:380N | \*01:155, 05:243\*04:161w, 07:841 |
| **42** | 120 bp 165 bp195 bp | \*03:78\*03:201N\*03:192 |  |
| **43** | 230 bp 270 bp | \*03:74, 03:81, 03:137, 03:175, 03:199, 03:223, 03:245, 03:317, 03:388\*03:97, 03:153, 03:391N | \*15:218, **B\*07:310, B\*15:96, B\*35:537, B\*39:103, B\*56:37** |
| **44** | 70 bp 160 bp250 bp | \*03:91:01\*03:75, 03:120, 03:229N, 03:465\*03:244Q | **B\*57:142Nw** |
| **45** | 150 bp 255 bp295 bp | \*03:93, 03:206, 03:212\*03:213\*03:76 | \*01:159, 02:207, 04:84, 06:288, 07:167, 07:585, 08:128, 12:339, 16:155 |
| **46** | 150 bp 210 bp | \*03:155\*03:58, 03:86, 03:94 | \*01:218, 08:95, 16:170, **B\*08:249, B\*35:252, B\*39:114**\*01:02:01:01-01:02:31, 01:02:33-01:02:77, 01:02:79-01:03:02, 01:06-01:07:01, 01:08, 01:10-01:11, 01:13-01:20, 01:23-01:33, 01:38-01:48, 01:51-01:54, 01:56N-01:76, 01:78, 01:80-01:90, 01:92-01:96, 01:98N-01:100, 01:103-01:113, 01:115-01:119, 01:121Q-01:130, 01:132-01:157, 01:159, 01:161-01:175, 01:177-01:192, 01:194-01:204, 01:206-01:211N, 01:213-01:214, 01:216-01:224N, 04:37, 05:85, 05:107, 05:241, 06:204, 14:45, 15:102 |
| **47** | 70 bp 195 bp 240 bp | \*03:14, 03:21, 03:55, 03:80:02, 03:92, 03:117, 03:161, 03:361\*03:109\*03:57:01, 03:125, 03:176 | \*01:65, 04:201:02, 05:86, 05:201, 07:133:01, 07:330:01, 15:218 |
| **51** | 120 bp235 bp | \*03:105\*03:303 | \*08:147, 15:234 |
| **53** | 240 bp315 bp345 bp | \*03:106\*03:312\*03:380N | \*15:151\*12:303 |
| **55** | 260 bp470 bp | \*03:207\*03:211:02 | \*05:03 |
| **56** | 160 bp265 bp | \*03:145, 03:363N\*03:73 |  |
| **60** | 70 bp215 bp | \*03:18:02-03:18:03, 03:64:01, 03:301\*03:82, 03:85, 03:371, 03:585 | \*02:08:01:01-02:08:01:02, 02:189, 12:02:17, 12:03:23, 15:10:02-15:10:03, **B\*15:01:72, 15:125:02, B\*46:01:33, B\*56:01:09, B\*58:74**\*02:129 |

**4**The following HLA-C\*03 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

|  |  |  |  |
| --- | --- | --- | --- |
| Alleles | Primer mix | Alleles | Primer mix |
| C\*03:04:19, 03:265N | 12 | C\*03:44, 03:123, 03:209 | 31 |
| C\*03:06:01-03:06:02, 03:287:01-03:287:02 | 6 | C\*03:49, 03:103 | 23 |
| C\*03:23N, 03:263:01-03:263:02 | 18 | C\*03:50, 03:122 | 36 |
| C\*03:24, 03:236 | 19 | C\*03:62, 03:346 | 33 |
| C\*03:28, 03:90 | 23 | C\*03:68, 03:205 | 41 |
| C\*03:31, 03:414 | 7, 11 | C\*03:72, 03:219 | 36 |
| C\*03:37:01-03:37:02, 03:208N | 27 | C\*03:91:01, 03:465 | 44 |

**5**The following alleles give rise to identical amplification patterns with the HLA-C\*03 subtyping kit. These alleles can be distinguished by the HLA-C low resolution kit and/or the HLA-C\*15 subtyping kits.

|  |
| --- |
| Alleles |
| C\*03:135, 03:154, 03:260, 03:286, 03:326, 03:412, 03:435, 03:464, 03:493, 03:532, C\*15:43 |

Abbreviations

w: might be weakly amplified.

?: nucleotide sequence information not available for the primer matching sequence.