HLA-B\*07 (101.512-24/03, -24u/03u) Lot No: 4S5 Expiry Date: 2027-09-01

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 21, 24, 29, 33, 54, 56, 58, 69, 73 and 89 have a tendency giving rise to primer oligomer formation.

Primer mixes 9, 11, 39 and 64 may give rise to a lower yield of HLA-specific PCR product than the other B\*07 primer mixes.

7Primer mixes 22, 28, 35, 38, 40, 44, 48, 49, 52, 53, 56, 57, 65, 69, 76 and 79 may have tendencies of unspecific amplifications.

Primer mix 25 may give rise to unspecific amplification in B\*73 alleles.

Primer mix 32 may give rise to a faint band in many B\*14, B\*37, C\*04, C\*05, C\*08 and C\*18 alleles.

Primer mix 71 may give rise to an unspecific amplification product of approx. 900 bp in some HLA-B alleles. This band should be disregarded in the interpretation of HLA-B\*07 typings.

In primer mix 39 the positive control band may be weaker than for other HLA-B\*07 primer mixes.

Primer mix 89 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-B\*07 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), release 3.27.0, January 2017.

**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-B\*07 primer mixes have two or more product sizes:

|  |  |  |  |
| --- | --- | --- | --- |
| Primer Mix | Size of spec. PCR product | Amplified HLA-B\*07 alleles | Other amplified HLA Class I alleles |
|  **7** | 100 bp 215 bp | \*07:04:01-07:04:02, 07:25, 07:52, 07:146, 07:349\*07:29, 07:186, 07:383 | \*08:187, 40:136, 40:231, 40:279, 41:08, 42:05:01-42:05:02\*08:123, 08:132, **C\*07:335, C\*07:1059** |
|  **8** | 160 bp 235 bp | \*07:59\*07:05:01:01-07:06:05, 07:32, 07:34, 07:69, 07:78, 07:80, 07:90, 07:97, 07:105, 07:112, 07:123, 07:137-07:138, 07:140, 07:176, 07:182N, 07:201N, 07:206-07:207, 07:209-07:210, 07:213-07:214, 07:222, 07:249, 07:258, 07:262:01-07:262:02, 07:264, 07:269-07:270, 07:278, 07:283, 07:287, 07:293, 07:304, 07:317, 07:324, 07:327, 07:332-07:333, 07:340, 07:349, 07:352-07:353, 07:356-07:358, 07:368, 07:378, 07:387, 07:389, 07:395, 07:399, 07:407-07:408, 07:426Q, 07:434, 07:443, 07:474, 07:480 | \*08:79:01-08:79:02, 08:187, 27:125, 27:164, 38:63, 40:01:01-40:01:20, 40:01:22-40:01:25, 40:01:27, 40:01:29-40:01:31, 40:01:33-40:01:84, 40:07, 40:10:01:01-40:10:02, 40:12:01-40:12:02, 40:14:01-40:16:01:02, 40:21-40:23, 40:25, 40:30, 40:34, 40:36, 40:38, 40:43, 40:45-40:49, 40:54-40:55, 40:61-40:63, 40:65-40:67, 40:69, 40:72:01-40:74, 40:76-40:77, 40:79-40:81, 40:84, 40:87:01-40:88, 40:100-40:102, 40:106, 40:108, 40:112-40:114:02, 40:116-40:118N, 40:121, 40:123, 40:125:01-40:126, 40:128, 40:132, 40:134-40:141, 40:146-40:147, 40:149-40:156, 40:158, 40:160:01-40:160:02, 40:166, 40:168, 40:170-40:171, 40:175, 40:179, 40:182-40:183, 40:185-40:186:02, 40:188, 40:191-40:199, 40:204, 40:207-40:208, 40:210, 40:212-40:213, 40:215-40:218, 40:221-40:223, 40:227-40:228, 40:231, 40:233-40:242, 40:245:01-40:245:02, 40:247, 40:249-40:253, 40:257-40:265N, 40:272-40:273, 40:277-40:279, 40:281-40:282, 40:285-40:286N, 40:288, 40:298:01-40:301, 40:308, 40:310, 40:312, 40:315-40:316, 40:319, 40:321, 40:323:01-40:329, 40:332-40:333, 40:338N-40:339, 40:344, 40:346, 40:353:01:01-40:353:02, 40:355, 40:357-40:358, 40:360, 40:365, 40:367-40:368, 40:370, 40:372N, 40:377, 40:379:01:01-40:380, 40:381:02-40:383, 40:385-40:386, 40:391-40:397, 40:400-40:404, 40:406-40:407, 40:416-40:419, 40:421Q, 40:424, 40:426N, 40:428N, 40:430-40:431, 40:433, 40:436, 40:439, 40:443, 40:446-40:448, 40:450, 40:452, 40:456, 40:461-40:463, 40:466, 40:469, 40:474-40:475:02, 40:477, 40:479-40:480, 40:483N, 40:485-40:486, 40:490-40:491, 40:495, 40:497, 40:499, 40:501-40:503, 40:506N-40:510N, 40:512-40:513, 40:516-40:517, 40:524-40:525, 40:528, 40:530, 40:538-40:539, 40:542, 41:08, 42:05:01-42:05:02, 44:31, 48:01:01:01-48:01:14, 48:03:01:01-48:03:02, 48:05-48:07, 48:09-48:12, 48:14-48:16, 48:18-48:22, 48:28-48:45, 48:47-48:50, 48:52, 48:54-48:58, 81:01:01:01-81:10 |
| **10** | 285 bp 420 bp | \*07:07:01:01-07:07:03, 07:12, 07:14:01-07:14:02, 07:18:01-07:18:02, 07:77, 07:137, 07:162-07:163, 07:193, 07:214, 07:248, 07:255\*07:47, 07:81  | \*15:138, 15:230, 15:241, 15:297, 18:35, 18:110, 27:125, 38:63, 40:01:01-40:01:17, 40:01:19-40:01:73, 40:01:75-40:01:76, 40:01:78-40:01:84, 40:07, 40:10:01:01-40:10:02, 40:12:01-40:12:02, 40:14:01-40:14:03, 40:21-40:23, 40:25, 40:33, 40:36, 40:38, 40:42-40:43, 40:46-40:49, 40:52, 40:54-40:55, 40:59-40:63, 40:65-40:67, 40:69, 40:72:01-40:74, 40:76-40:77, 40:79, 40:81, 40:84, 40:87:01-40:88, 40:100-40:102, 40:106, 40:108, 40:112-40:114:02, 40:116-40:118N, 40:121, 40:123-40:126, 40:128, 40:132, 40:134-40:141, 40:146-40:147, 40:149-40:156, 40:158, 40:160:01-40:160:02, 40:166, 40:168, 40:170-40:172, 40:175, 40:179, 40:182-40:183, 40:185-40:188, 40:191-40:199, 40:204, 40:207-40:208, 40:210, 40:212-40:213, 40:215-40:218, 40:221-40:223, 40:227-40:228, 40:231, 40:234-40:242, 40:245:01-40:245:02, 40:247, 40:249-40:253, 40:257-40:265N, 40:272-40:273, 40:277-40:282, 40:285-40:286N, 40:288, 40:299-40:301, 40:308, 40:310, 40:312, 40:315, 40:319, 40:321, 40:323:01-40:329, 40:332-40:333, 40:338N-40:339, 40:344, 40:346, 40:352-40:353:02, 40:355, 40:357-40:358, 40:360, 40:365, 40:367-40:368, 40:370, 40:372N, 40:377, 40:379:01:01-40:379:01:02, 40:380-40:383, 40:385-40:386, 40:391-40:397, 40:400-40:402, 40:404, 40:406-40:407, 40:416-40:419, 40:421Q-40:422, 40:424, 40:426N, 40:428N, 40:430-40:431, 40:433, 40:436, 40:439, 40:443, 40:446-40:448, 40:450, 40:452, 40:456, 40:461-40:463, 40:466, 40:474-40:475:02, 40:477, 40:479-40:480, 40:483N, 40:485-40:486, 40:490-40:491, 40:495, 40:497-40:499, 40:501, 40:503, 40:506N-40:510N, 40:512-40:513, 40:516-40:517, 40:524-40:525, 40:528, 40:530, 40:538-40:539, 40:542, 41:08, 44:31, 44:150, 46:06, 46:87, 48:03:01:01-48:03:02, 48:17, 48:23, 48:40, 48:57, **C\*02:23, C\*03:260, C\*04:77, C\*07:38:01-07:38:02**\*08:52, 38:41, 38:67, 40:109?, 40:292?, 40:394, 44:355, 48:18, 49:67, 49:75 |
| **11** | 130 bp 210 bp | \*07:39\*07:08:01-07:08:02, 07:10, 07:32, 07:38, 07:132, 07:207, 07:228:01-07:228:02, 07:368, 07:428 | \*38:169\*08:94, 08:190w, 18:07:01-18:07:03:02, 18:29, 18:79, 18:136, 27:01-27:05:08, 27:05:10-27:05:50, 27:05:52-27:11, 27:13:01-27:15, 27:17, 27:19:01:01-27:21:02, 27:23-27:28, 27:30-27:76, 27:78-27:84, 27:86-27:91, 27:93-27:100, 27:102-27:105, 27:107-27:118, 27:120-27:128, 27:130-27:145, 27:147-27:152, 27:154-27:156, 27:158-27:203, 27:205-27:214, 27:216-27:223N, 27:225N, 27:227-27:241, 27:243N-27:267, 35:50, 35:84, 35:162, 35:197, 35:231, 35:267, 35:269, 35:411, 35:423, 35:494, 35:576, 37:21, 37:60, 37:67, 38:06-38:07, 38:74, 38:166, 39:58, 39:83:01-39:83:03, 39:170, 39:186, 40:08:01:01-40:08:01:02, 40:13, 40:68, 40:162, 40:220, 40:232, 42:26, 48:06, 48:31, 51:57, 51:103, 51:116, 51:218, 51:354, 53:21, 73:01:01:01-73:03 |
| **13** | 85 bp 290 bp | \*07:31:01-07:31:02, 07:34, 07:43\*07:12, 07:14:01-07:14:02, 07:18:01-07:18:02, 07:137, 07:162-07:163, 07:199, 07:225, 07:227, 07:248, 07:350 | \*08:187, 18:110, 40:199, 40:424, 41:08, 42:05:01-42:05:02, 48:37, **C\*07:38:01-07:38:02**\*15:297, 40:30, 40:34, 40:59, 40:137, 40:160:01-40:160:02, 44:150, 48:17, **C\*03:260** |
| **15** | 385 bp 420 bp | \*07:54, 07:123\*07:11, 07:47, 07:57, 07:75:01:01-07:75:01:02, 07:240, 07:253, 07:340, 07:463 | \*40:513, 45:06\*08:17, 08:47, 08:295, 39:20, 39:124, 39:168, 42:15 |
| **16** | 205 bp230 bp | \*07:132\*07:16, 07:27, 07:37:01-07:38, 07:50, 07:75:01:01-07:75:01:02, 07:91, 07:180, 07:207, 07:219, 07:228:01-07:228:02, 07:306, 07:453 | \*13:14, 13:83, 14:14, 15:68, 15:71, 15:175, 15:381, 15:446, 15:556, 15:571, 15:582, 18:01:01:01-18:01:01:78, 18:01:03-18:01:12, 18:01:14-18:01:22, 18:01:24-18:01:50, 18:01:52-18:02:03, 18:05:01:01-18:15, 18:17N-18:24, 18:26-18:67, 18:69, 18:71-18:93, 18:95-18:106Q, 18:108-18:124, 18:126-18:131:01:02, 18:133-18:141, 18:143-18:151, 18:153-18:170, 18:173, 18:175-18:196, 18:199-18:202, 18:204-18:226, 18:228, 18:230-18:232, 27:01, 27:18, 27:23, 27:29, 27:44, 27:92, 27:119, 27:131, 27:257, 35:50, 35:84, 35:162, 35:197, 35:231, 35:267, 35:269, 35:411, 35:423, 35:494, 35:576, 37:01:01:01-37:36, 37:38-37:54, 37:56-37:59, 37:61, 37:62w, 37:63-37:84, 37:86N-37:98, 37:100-37:108, 38:01:01:01-38:02:11, 38:04, 38:06-38:12, 38:15-38:25, 38:27-38:32, 38:34N-38:40, 38:42-38:83N, 38:84w, 38:85-38:88, 38:90-38:111, 38:160-38:173Q, 39:05:01:01-39:05:05, 39:07-39:08, 39:11, 39:13:01-39:13:02, 39:20, 39:37:01:01-39:37:01:02, 39:49, 39:55-39:56, 39:113, 39:118, 39:147N, 39:149, 39:161N, 39:163, 39:165-39:168, 39:170, 39:172, 39:174, 39:186, 39:195, 39:197, 40:02:01:01-40:06:14, 40:06:16-40:06:22, 40:06:24-40:06:31, 40:08:01:01-40:09, 40:11:01:01-40:11:02, 40:13, 40:18-40:20:01:02, 40:24, 40:26-40:29, 40:35:01-40:35:03, 40:37, 40:39-40:40, 40:44, 40:56, 40:64:01:01-40:64:02, 40:68, 40:70:01-40:71, 40:74-40:75, 40:78, 40:82-40:83, 40:85-40:86, 40:89-40:91, 40:93-40:99, 40:103-40:105, 40:107, 40:109, 40:111, 40:115, 40:119-40:120, 40:122, 40:127, 40:131, 40:133Q, 40:142N-40:145, 40:148-40:149, 40:157, 40:159, 40:161-40:162, 40:165, 40:167, 40:169, 40:173-40:174, 40:176-40:177, 40:180-40:181, 40:184, 40:189-40:190, 40:200-40:203, 40:205-40:206, 40:209-40:211, 40:214, 40:220, 40:224-40:226, 40:229, 40:232, 40:243-40:244, 40:246, 40:248, 40:254-40:255, 40:266-40:271, 40:274-40:276, 40:283-40:284, 40:287, 40:289-40:297, 40:302-40:307, 40:309, 40:311, 40:313-40:314, 40:317, 40:320, 40:322, 40:330-40:331, 40:334:01-40:335, 40:337N, 40:340-40:341, 40:343, 40:345N, 40:347-40:351, 40:354, 40:356, 40:359, 40:361N-40:364, 40:366, 40:369, 40:371, 40:373-40:376, 40:378, 40:384, 40:387-40:390, 40:399N, 40:405, 40:408-40:415, 40:423, 40:425, 40:427, 40:429, 40:432, 40:434-40:435, 40:437-40:438N, 40:440-40:442, 40:444-40:445, 40:451, 40:453-40:455, 40:458-40:460, 40:464-40:465, 40:467-40:468, 40:471-40:473, 40:476, 40:478, 40:481N-40:482, 40:484, 40:487N-40:489, 40:492-40:494, 40:500, 40:505, 40:511N, 40:514N-40:515, 40:518-40:522, 40:526-40:527, 40:529, 40:531-40:537, 40:540N-40:541, 40:543-40:546, 42:11, 44:103, 44:130-44:131, 44:212, 44:224, 48:01:01:01-48:21, 48:23-48:47, 48:49-48:56, 48:58, 49:31, 50:43, 51:57, 51:103, 51:116, 51:218, 51:354, 52:105, 53:21, 57:10, 81:08 |
| **17** | 345 bp 425 bp | \*07:46\*07:11, 07:27, 07:57, 07:75:01:01-07:75:01:02, 07:236, 07:240, 07:253, 07:340, 07:463 | \*08:292\*08:17, 08:47, 08:126, 08:131, 08:139, 08:295, 38:17, 39:20, 39:124, 39:168, 42:15 |
| **19** | 205 bp 250 bp 295 bp | \*07:20, 07:140, 07:153\*07:20, 07:35, 07:140, 07:153\*07:35  | \*15:14, 15:91, 15:131, 15:161, 15:518, 15:551, 15:634, 18:56, 18:169, 35:45, 35:71, 35:169, 35:309, 35:452, 39:173, 40:132, 40:178, 40:523, 44:10, 44:14, 44:17, 44:31, 44:43:01-44:43:02, 44:45, 44:51, 44:62, 44:77, 44:82, 44:107, 44:123, 44:135, 44:184, 44:213, 44:230, 44:339, 45:09, 45:14, 46:17, 51:23, 51:108, 52:15, 53:22, 55:122, 56:74, 57:07, 57:93, 57:119, 58:07, 82:01:01:01-82:03\*44:54, 44:106, 44:135, 44:158, 44:184, 44:213 |
| **20** | 160 bp 205 bp 275 bp | \*07:59\*07:51, 07:220, 07:226, 07:332\*07:21  | **\***08:143, **C\*07:294, C\*07:526:01, C\*07:530:01, C\*07:681, C\*08:08:01-08:08:02**\*08:278, 53:46 |
| **21**  | 100 bp 165 bp | \*07:52\*07:22:01-07:22:02 |  |
| **23** | 85 bp270 bp | \*07:20, 07:24, 07:131, 07:220, 07:223, 07:358, 07:464\*07:272N | \*15:230, 15:297, 40:63, 40:324, 46:87, **C\*03:260** |
| **25** | 305 bp 425 bp | \*07:117\*07:27, 07:236, 07:240 | \*38:100, 40:250\*08:126, 08:131, 08:139, 38:17, 40:188? |
| **26** | 95 bp 205 bp 235 bp 290 bp | \*07:28, 07:118\*07:51, 07:220, 07:226, 07:332\*07:20, 07:24, 07:60, 07:100, 07:131, 07:220, 07:223, 07:358, 07:464\*07:42 | **\***08:14, 08:87, 27:32, 40:180, 40:414, 44:54, 44:106, 44:135\*08:143, **C\*07:294, C\*07:526:01, C\*07:530:01, C\*07:681, C\*08:08:01-08:08:02****\***08:21, 08:25, 08:175, 15:07:01:01-15:07:03, 15:45, 15:55, 15:68, 15:126, 15:197:02, 15:207, 15:324, 15:329, 15:331, 15:360, 15:383, 15:405, 15:431, 15:450, 15:524, 15:661, 15:668, 35:05:01:01-35:05:06, 35:22:01:01-35:22:01:02, 35:51:01-35:51:02, 35:58, 35:72, 35:89, 35:97, 35:114, 35:199, 35:232, 35:368, 35:389, 35:416, 35:427N, 35:440, 35:459N, 35:472, 35:481, 35:498-35:499, 35:509, 35:519, 35:541, 35:572, 40:05:01:01-40:05:02, 40:71, 40:174, 40:496, 41:62, 44:54, 44:106, 44:135, 44:158, 44:184, 44:213, 46:12, 51:64, 51:148, 53:14, 53:67, 55:51, 58:18, **C\*03:05:01:01-03:05:01:03, C\*03:25, C\*03:27, C\*03:167, C\*03:296:01-03:296:02, C\*03:335, C\*03:407, C\*03:482, C\*03:494, C\*03:555** |
| **27** | 165 bp 215 bp | \*07:41\*07:29, 07:186, 07:383 | \*08:123, 08:132, **C\*07:335, C\*07:1059** |
| **29** | 85 bp 200 bp | \*07:31:01-07:31:02, 07:34, 07:43\*07:44N | \*08:187, 18:110, 40:199, 40:424, 41:08, 42:05:01-42:05:02, 48:37, **C\*07:38:01-07:38:02** |
| **31** | 215 bp 280 bp | \*07:55, 07:100, 07:464\*07:19, 07:33:01-07:33:03, 07:53, 07:60, 07:100, 07:442 | \*08:70, 08:281, 15:07:01:01-15:07:03, 15:45, 15:68, 15:126, 15:207, 15:324, 15:331, 15:405, 15:431, 15:450, 15:524, 15:668, 46:12, 48:19, **C\*02:60, C\*06:264**\*08:103, 08:134, 08:175, 08:274, 13:71, 13:108, 14:05, 14:13, 14:53, 15:07:01:01-15:07:03, 15:45, 15:55, 15:68, 15:126, 15:197:02, 15:207, 15:324, 15:329, 15:331, 15:360, 15:383, 15:405, 15:421, 15:431, 15:450, 15:524, 15:661, 15:668, 18:14, 27:07:01-27:07:06, 27:11, 27:24, 27:32-27:34, 27:43, 27:138, 27:180, 27:219, 27:233, 27:251, 35:05:01:01-35:05:06, 35:22:01:01-35:22:01:02, 35:31, 35:51:01-35:51:02, 35:58, 35:72, 35:89, 35:97, 35:114, 35:199, 35:232, 35:368, 35:389, 35:416, 35:427N, 35:440, 35:459N, 35:472, 35:481, 35:498-35:499, 35:509, 35:519, 35:541, 35:572, 37:09, 38:19, 39:03:01:01-39:03:02, 39:14:01:01-39:14:01:03, 39:24:01:01-39:24:03, 39:29, 39:37:01:01-39:37:01:02, 39:76, 39:120, 39:144, 39:152, 39:184-39:185, 40:02:01:01-40:03:02, 40:05:01:01-40:05:02, 40:08:01:01-40:09, 40:13, 40:18-40:19, 40:24, 40:27:01-40:27:02, 40:29, 40:35:01-40:35:03, 40:37, 40:39-40:40, 40:50:01:01-40:50:01:02, 40:56-40:58, 40:71, 40:78, 40:82, 40:85, 40:89-40:91, 40:94, 40:97, 40:104-40:105, 40:107, 40:111, 40:115, 40:119, 40:122, 40:133Q, 40:142N-40:145, 40:157, 40:164, 40:169, 40:173-40:174, 40:176, 40:180-40:181, 40:189, 40:200-40:203, 40:205-40:206, 40:209, 40:211, 40:214, 40:219-40:220, 40:224, 40:226, 40:229, 40:232, 40:246, 40:248, 40:254-40:255, 40:266-40:267, 40:271, 40:274, 40:276, 40:283-40:284, 40:287, 40:289-40:293, 40:296-40:297, 40:302-40:305, 40:309, 40:314, 40:320, 40:322, 40:331, 40:334:01-40:335, 40:337N, 40:345N, 40:347, 40:356, 40:359, 40:369, 40:371, 40:375, 40:378, 40:384, 40:390, 40:399N, 40:405, 40:409-40:410, 40:412-40:415, 40:420, 40:432, 40:435, 40:437-40:438N, 40:440-40:442, 40:444, 40:455, 40:457, 40:465, 40:467, 40:470, 40:481N, 40:489, 40:493, 40:496, 40:500, 40:504-40:505, 40:511N, 40:514N-40:515, 40:518, 40:521-40:522, 40:527, 40:529, 40:531, 40:534, 40:536N, 40:540N, 40:544-40:545N, 41:62, 42:08, 44:54, 44:106, 44:135, 44:158, 44:184, 44:213, 46:12, 48:04:01:01-48:04:02, 48:13, 48:24, 48:51, 48:53, 51:64, 51:81, 51:148, 53:14, 53:67, 55:04, 55:49, 55:51, 55:86, 55:110, 58:18, 58:27, **C\*02:60, C\*03:05:01:01-03:05:01:03, C\*03:25, C\*03:27, C\*03:167, C\*03:296:01-03:296:02, C\*03:335, C\*03:386, C\*03:407, C\*03:482, C\*03:494, C\*03:555, C\*04:443, C\*06:264, C\*07:526:01, C\*07:530:01, C\*07:681, C\*07:850, C\*08:08:01-08:08:02** |
| **33**  | 90 bp 350 bp | \*07:149\*07:61  | \*08:02, 08:117, 08:255, 08:271, 13:36, 14:118, 15:89:01-15:89:02, 15:115, 15:505, 18:09, 38:02:01:01-38:02:06, 38:02:08-38:02:11, 38:08, 38:15, 38:18, 38:23, 38:29, 38:35, 38:43-38:50, 38:62, 38:64, 38:72, 38:74-38:76, 38:79, 38:82, 38:84-38:85, 38:89, 38:92, 38:97-38:98, 38:103N-38:105, 38:160, 38:162-38:165N, 38:167, 38:172-38:173Q, 44:12, 44:232, 44:263, 44:365, 51:54, 51:78:01-51:78:02, 51:341, 51:371, 53:09, 53:11-53:13, 53:31, 53:36, 53:67, 56:07, 59:08 |
| **35**  | 105 bp 215 bp | \*07:63\*07:143  | \*27:157, 40:166, 42:02:01:01-42:02:02, 42:09, 42:17-42:18, 42:27, 45:06, 54:02, 55:16, 56:35 |
| **36** | 175 bp 250 bp | \*07:167N, 07:201N, 07:285N\*07:64 |  |
| **38** | 190 bp 215 bp | \*07:103, 07:113\*07:66  | \*08:64 |
| **40** | 265 bp 395 bp | \*07:56:01-07:56:02, 07:72, 07:206\*07:83 | \*08:26:01-08:26:03, 08:56:01-08:56:03, 08:180, 08:239, 14:54, 15:634, 35:516, 38:28, 39:63, 39:135, 40:58?, 40:137?, 40:248?, 40:282?, 40:325?, 40:351?, 40:364?, 40:526?, 41:12, 41:36, 42:21, 42:27, 46:89, 49:03, 49:48, 52:90, 56:68, 58:108, **C\*16:112** |
| **41** | 400 bp 425 bp | \*07:58\*07:156 | \*08:191 |
| **42** | 195 bp 225 bp | \*07:67N\*07:71 |  |
| **43** | 185 bp270 bp | \*07:68:01-07:68:03, 07:214, 07:237, 07:262:01-07:262:02, 07:424\*07:272N | \*15:138, 15:230, 15:241, 15:297, 18:35, 18:110, 35:66, 40:77, 40:87:01-40:87:02, 40:121, 40:158, 40:222, 40:237, 40:368, 40:422, 44:150, 46:87, 48:12, 48:14, 48:26, 48:29 |
| **48** | 200 bp 280 bp | \*07:76\*07:77, 07:193  | \*40:60, 40:245:01-40:245:02, **C\*07:38:01-07:38:02** |
| **50** | 75 bp 105 bp 165 bp | \*07:74 \*07:175 \*07:87 | \*08:77, 48:27\*15:126\*08:224 |
| **51** | 335 bp 470 bp | \*07:97, 07:316N, 07:412\*07:93 | \*08:114, 38:91, 39:100\*08:39, 38:27 |
| **54** | 160 bp185 bp | \*07:238\*07:98, 07:167N, 07:201N |  |
| **57** | 150 bp 215 bp | \*07:109, 07:356\*07:70 |  |
| **58** | 245 bp 440 bp | \*07:112\*07:79 | \*08:216 |
| **59** | 100 bp 190 bp | \*07:115, 07:182N, 07:246, 07:327, 07:424, 07:473\*07:89, 07:113  | \*08:69, 08:200, 14:05, 35:440, 38:19, 39:03:01:01-39:03:02, 39:24:01:01-39:24:03, 39:37:01:01-39:37:01:02, 39:76, 39:120, 39:144, 39:152, 39:182, 39:184-39:185, 40:71, 40:314, 40:522, 40:540N, 41:18, 42:06, 42:20, 48:07, **C\*04:443, C\*08:08:01-08:08:02****\***08:64 |
| **61** | 205 bp 325 bp420 bp | \*07:88\*07:316N\*07:105 |  |
| **63** | 65 bp 230 bp | \*07:94 \*07:135N | **\***27:267, 55:99, 67:04, **C\*01:166, C\*02:120, C\*02:201, C\*03:124, C\*04:49, C\*05:15, C\*07:262, C\*07:417, C\*07:475, C\*08:153, C\*12:95, C\*15:175, C\*17:45** |
| **65** | 385 bp 420 bp450 bp | \*07:54, 07:123\*07:315N\*07:111N  | \*40:513, 45:06\*08:72N, 14:72N |
| **68** | 335 bp 365 bp 415 bp | \*07:148 \*07:101\*07:13, 07:15, 07:160, 07:463w | \*40:193?\*08:193\*08:16, 08:123, 08:145, 42:18, 67:02:01:01-67:02:01:02 |
| **69**  | 130 bp190 bp 245 bp 465 bp | \*07:136:01-07:136:02\*07:106\*07:108\*07:102  | \*40:320\*08:18, 38:79, 39:196, 73:01:01:01-73:03 |
| **70** | 125 bp 205 bp | \*07:104\*07:114 |  |
| **71** | 245 bp 280 bp 390 bp | \*07:108\*07:107\*07:181N |  |
| **72** | 165 bp235 bp | \*07:13, 07:110\*07:315N | \*37:52, 38:11, 48:36, 54:02, 67:02:01:01-67:02:01:02, 81:06, **A\*26:142, C\*02:191, C\*03:137, C\*03:182, C\*03:459, C\*03:504, C\*07:102w, C\*07:351, C\*12:82, C\*16:116** |
| **73**  | 85 bp 240 bp | \*07:119, 07:169 \*07:49N | \*48:34 |
| **74** | 345 bp 425 bp | \*07:120\*07:156, 07:282  | \*40:150, 48:45\*40:278 |
| **75** | 105 bp 250 bp | \*07:126, 07:175\*07:121  | \*15:126 |
| **76** | 130 bp170 bp 285 bp | \*07:136:01-07:136:02\*07:128\*07:122  | \*40:320 |
| **77** | 335 bp 405 bp | \*07:148\*07:116  | \*40:193? |
| **78** | 110 bp160 bp 380 bp415 bp | \*07:125\*07:231N\*07:129\*07:282  | \*40:278 |
| **79** | 65 bp 95 bp | \*07:130\*07:119 |  |
| **85** | 110 bp160 bp | \*07:208\*07:238, 07:285N |  |
| **87** | 210 bp260 bp | \*07:251N\*07:218, 07:220  | \*08:118, 14:05, 14:13, 14:53, 18:14, 35:519, 40:174, 51:64 |

**4**The following HLA-B\*07 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

|  |  |  |  |
| --- | --- | --- | --- |
| **Alleles** | **Primer mix** | **Alleles** | **Primer mix** |
| B\*07:42, 07:118 | 26 | B\*07:89, 07:246, 07:473 | 59 |
| B\*07:49N, 07:169 | 73 | B\*07:94, 07:135N | 63 |
| B\*07:60, 07:100 | 31 | B\*07:102, 07:106 | 69 |
| B\*07:61, 07:149 | 33 | B\*07:121, 07:126 | 75 |
| B\*07:63, 07:143 | 35 | B\*07:129, 07:231N | 78 |

**5**The following alleles will give rise to identical amplification patterns. These alleles can e.g. be distinguished by the HLA-B low resolution kit and/or the HLA-B\*48 high resolution kit.

|  |
| --- |
| **Alleles** |
| B\*07:50, 07:453, B\*48:08 |

Abbreviations

w: might be weakly amplified

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