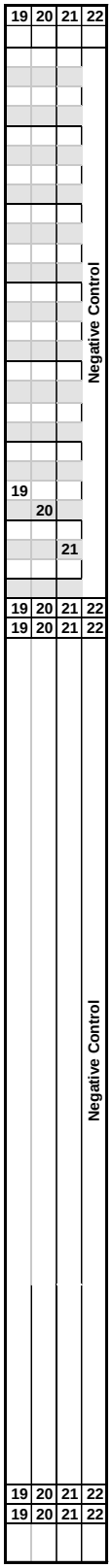
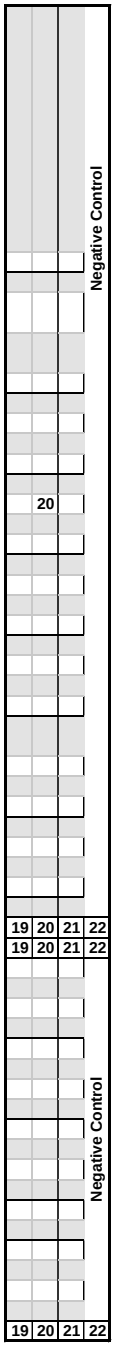
Well No.	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**
HLA-B allele[1,2,3]																		
***54:01:01,** 54:01:03-54:01:07, 54:25-54:30, 54:34-54:37	**1**	**2**	**3**															
*54:01:02		**2**	**3**															
*54:02	**1**	**2**		**4**														
*54:03	**1**	**2**	**3**		**5**													
*54:04	**1**		**3**			**6**												
*54:05N	**1**	**2**					**7**											
*54:06	**1**		**3**					**8**										
*54:07	**1**	**2**	**3**											**14**				
*54:08N	**1**	**2**	**3**		**5**	**6**												
*54:09	**1**		**3**					**8**	**9**									
***54:10**	**1**	**2**	**3**							**10**								
*54:11	**1**		**3**			**6**					**11**							
*54:12	**1**	**2**	**3**									**12**						
***54:13**	**1**	**2**	**3**										**13**					
***54:14**	**1**		**3**					**8**							**15**			
*54:15	**1**		**3**			**6**									**15**			
*54:16	**1**	**2**	**3**												**15**			
*54:17-54:18[4]	**1**	**2**	**3**													**16**		
*54:19	**1**	**2**	**3**	**4**														
*54:20	**1**	**2**	**3**							**10**							**17**	
*54:21	**1**	**2**	**3**															**18**
*54:22	**1**	**2**	**3**								**11**							
*54:23	**1**	**2**	**3**															
*54:24	**1**	**2**	**3**															
*54:31, 54:38	**1**		**3**															
*54:32	**1**	**2**	**3**															
*54:33	**1**	**2**	**3**		**5**					**10**							**w**	
*07:02:19, 37:01:04	**1**																	
Well No.	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**
Well No.	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**
*07:09, 07:11, 07:17, 07:162, 07:235, 07:237, 07:255, 07:287, 08:28, 08:35, 08:37, 08:89, 08:107, 13:26:01-13:26:02, 15:01:01:01-15:01:03, 15:01:06-15:03:07, 15:06-15:08:02, 15:11:01-15:15, 15:18:01:01-15:21:01:02, 15:23-15:29, 15:32:01-15:36, 15:38:01-15:40:02, 15:43-15:44, 15:46-15:47:02, 15:49-15:51, 15:53-15:54, 15:56-15:57, 15:60-15:62, 15:64:01-15:66, 15:68-15:72, 15:74-15:76, 15:78:01-15:82, 15:84-15:85, 15:87-15:89, 15:92-15:94N, 15:96-15:98, 15:101-15:106, 15:108-15:113, 15:115-15:122, 15:125-15:129, 15:131-15:132, 15:134-15:135, 15:138-15:149N, 15:152-15:154, 15:156-15:161, 15:163-15:167, 15:169-15:176, 15:178-15:184, 15:187, 15:189-15:195, 15:197:01-15:207, 15:209N-15:215, 15:217-15:221, 15:223, 15:225-15:228, 15:231-15:232, 15:234, 15:236, 15:238-15:242:02, 15:244-15:247, 15:249-15:251, 15:255-15:268, 15:270-15:272N, 15:274, 15:276-15:286, 15:288-15:292, 15:294N-15:302N, 15:304N-15:309, 15:311, 15:314-15:322, 15:325-15:328, 15:330-15:331, 15:333, 15:335-15:337, 15:340-15:341, 15:343-15:347, 15:349:01-15:355, 15:357-15:360, 15:363:01-15:382, 15:384-15:395, 15:397-15:399, 15:401-15:402, 15:404-15:407, 15:409-15:410, 15:412-15:415, 15:417-15:419, 15:422, 15:425-15:426, 15:428-15:433, 15:436-15:438, 15:440-15:444, 18:01:06, 18:02, 18:08, 18:15, 18:18:01:01-18:19, 18:21-18:22, 18:27, 18:30, 18:44:02, 18:52, 18:56-18:57, 18:101, 18:105, 18:113, 18:141, 27:41, 27:107, 35:01:01:01-35:01:48, 35:07-35:08:10, 35:10-35:11:03, 35:14:01-35:17:02, 35:19-35:21, 35:23-35:30, 35:35, 35:40N-35:43:01, 35:45-35:50, 35:52-35:54, 35:57-35:58, 35:61:01-35:64:02, 35:67-35:68:01, 35:69, 35:71, 35:76-35:80, 35:82, 35:86, 35:90-35:94, 35:99-35:105, 35:107-35:108:02, 35:110-35:113, 35:115-35:126, 35:130N-35:135, 35:137-35:148, 35:158-35:159, 35:161, 35:165N-35:166, 35:168, 35:170-35:171, 35:173:01N-35:178, 35:180, 35:185-35:192, 35:194, 35:196-35:197, 35:200, 35:202-35:203, 35:206-35:210, 35:212, 35:215-35:219, 35:222, 35:224-35:229, 35:232, 35:238-35:241, 35:244-35:245, 35:247-35:250, 35:252-35:255, 35:259-35:260, 35:262-35:264, 35:268-35:269, 35:271-35:272, 35:275, 35:277, 35:280, 35:283-35:284, 35:286-35:289, 35:293-35:295, 35:297, 35:299-35:308, 35:310, 35:313-35:315, 35:317-35:319, 35:322, 35:324-35:325, 35:327-35:328, 35:330-35:334, 35:336-35:338, 35:340-35:343, 35:346-35:348, 35:351-35:353, 35:356, 35:359, 35:363, 35:365, 35:369-35:370, 37:35, 37:56, 40:59-40:60, 40:158, 40:352, 41:24, 41:30, 41:51, 42:09, 44:17, 44:43:01-44:43:02, 44:144, 44:230, 44:256, 44:276, 46:01:01-46:05, 46:07N-46:10, 46:12, 46:14-46:17, 46:20, 46:22-46:31, 46:33-46:42, 46:44-46:60, 46:62-46:69, 46:71-46:73, 48:02:01-48:02:03, 48:25, 51:45, 51:97, 51:220, 53:01:01-53:03, 53:05:01-53:06, 53:08:01-53:13, 53:15-53:18, 53:20-53:30, 53:32, 53:34-53:35, 53:37-53:41, 53:43, 53:45-53:50, 55:14, 55:32, 56:03, 56:09, 56:32, 57:01:01:01-57:01:27, 57:06, 57:08, 57:10-57:11, 57:13-57:16, 57:18-57:27, 57:29-57:31, 57:33-57:38, 57:40-57:41, 57:43-57:45, 57:47-57:56, 57:59-57:62, 57:64-57:65, 57:67:01-57:69, 57:71-57:75, 57:77-57:79N, 57:81, 57:85-57:93, 57:95, 58:01:01:01-58:01:07, 58:01:09-58:02:02, 58:04-58:07, 58:09-58:15, 58:16:02-58:17N, 58:19, 58:21-58:26, 58:29, 58:31N-58:33, 58:35-58:64, 58:66-58:72N, 58:74-58:93N								**8**										
Well No.	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**
Well No.	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**
*07:13, 07:110, 37:52, *A*26:142, C*03:137, C*03:182, C*07:351, C*12:82, C*16:116*				**4**														

*07:48, 07:209, 07:223, 08:13, 08:25, 08:55, 08:171, 13:11, 13:71, 13:108, 15:48, 15:188, 15:224, 15:396, 18:26, 18:41, 18:61, 18:122, 27:07:01-27:07:06, 27:11, 27:32-27:34, 27:43, 27:70, 27:125, 27:164, 35:22, 35:31, 35:151, 35:199, 35:234, 35:251, 35:367, 38:01:01:01-38:09, 38:12-38:19, 38:21, 38:23, 38:25-38:29, 38:31, 38:33-38:43, 38:45-38:51, 38:53-38:70, 39:01:01:01-39:01:01:07, 39:01:03:01-39:05:03, 39:10:01-39:10:02, 39:12-39:17, 39:19:01-39:20, 39:22-39:23, 39:25N-39:32, 39:37-39:41, 39:44-39:49, 39:51-39:56, 39:58-39:59, 39:61, 39:63, 39:65-39:75, 39:77-39:81, 39:84-39:87N, 39:89, 39:92-39:101, 39:103-39:106, 39:108, 39:110-39:111, 39:113-39:119, 39:121-39:126, 39:128, 39:130-39:131, 39:133N, 40:01:01-40:01:03, 40:01:05-40:01:11, 40:01:13-40:01:50, 40:01:52-40:02:08, 40:02:10-40:02:25, 40:07-40:11:01, 40:12-40:14:03, 40:18-40:19, 40:21-40:22N, 40:24-40:25, 40:27:01-40:27:02, 40:29, 40:31, 40:33, 40:35:01-40:37, 40:39-40:40, 40:42-40:43, 40:45-40:50, 40:54-40:58, 40:61-40:63, 40:65-40:67, 40:69, 40:72:01-40:74, 40:76-40:82, 40:84-40:85, 40:87:01-40:92, 40:97, 40:99, 40:101-40:102, 40:104, 40:106-40:108, 40:111-40:119, 40:121-40:123, 40:124:02, 40:126, 40:128, 40:130:01-40:130:02, 40:132-40:135, 40:138-40:142N, 40:144N-40:147, 40:150-40:157, 40:163-40:164, 40:166, 40:168-40:172, 40:175-40:176, 40:178-40:182, 40:184-40:189, 40:191-40:197, 40:199-40:202, 40:204-40:221, 40:223-40:224, 40:226-40:229, 40:232-40:242, 40:246-40:248, 40:250-40:255, 40:258, 40:260-40:266, 40:271-40:274, 40:276-40:278, 40:280-40:283, 40:285-40:293, 40:296-40:297, 40:299-40:305, 40:308, 40:310, 40:312, 40:314-40:316, 40:319-40:323, 40:325-40:329, 40:331-40:336, 40:338N-40:339, 40:344-40:347, 40:351, 40:353, 40:356-40:360, 40:365, 40:367-40:370, 44:31, 44:54, 44:65, 44:82, 44:135, 44:184, 48:01:01:01-48:01:06, 48:03:01, 48:04:01-48:04:02, 48:06-48:07, 48:09-48:13, 48:16, 48:18, 48:20, 48:22, 48:27-48:35, 48:37-48:46, 51:81, 51:148, 51:194, 55:04, 55:08, 55:49, 55:51, 55:86, 56:04:02, 56:10, 58:20, 58:27, 67:01:01-67:01:03, 67:03-67:05, 81:01-81:05, 81:07-81:08, *C*02:03, C*03:296:01-03:296:02*									9									
*07:78, 55:09, 55:52		2								10							17	
*07:84, 51:197						6				10					15		17	
*07:202, 07:261, 08:40, 40:257, 48:24, *A*02:01:87*									w									
*08:09, 08:84, 13:59, 15:83, 27:14, 27:81, 27:130, 35:273, 40:06:01:01-40:06:08, 40:06:10-40:06:16, 40:53, 40:70:01-40:70:02, 40:75, 40:83, 40:93, 40:96, 40:103, 40:109-40:110, 40:127, 40:131, 40:162, 40:165, 40:167, 40:177, 40:190, 40:230, 40:244, 40:256N, 40:268-40:270, 40:275, 40:294-40:295, 40:306-40:307, 40:311, 40:313, 40:317-40:318, 40:340-40:342, 40:348-40:350, 40:354, 40:361N-40:364, 41:01:01-41:01:05, 41:05-41:07, 41:09, 41:12, 41:14, 41:16-41:17, 41:20, 41:25-41:26, 41:28-41:29, 41:32-41:35, 41:37, 41:53-41:54, 42:04, 51:08:01:01-51:10, 51:19-51:20, 51:31, 51:36, 51:40, 51:44N, 51:72-51:73, 51:87, 51:91, 51:93, 51:108, 51:115, 51:122, 51:141, 51:153, 51:181, 51:211, 52:03, 52:10:01-52:10:03, 52:19, 52:71, 52:74, 55:20, 55:81, 56:15, 59:02, 78:04, 78:08						6												
*08:101, 41:55, 44:24, 44:181, *C*05:30, C*06:125, C*07:441:01-07:441:02, C*16:86*			3															
*08:158																		
*13:02:01:01-13:02:14, 13:02:16-13:02:22, 13:08-13:09, 13:14-13:15, 13:19, 13:27, 13:30, 13:32-13:34, 13:37-13:38, 13:40, 13:42, 13:44-13:45, 13:49N, 13:53-13:56:02N, 13:58, 13:65-13:70, 13:74-13:75, 13:81-13:82, 13:84-13:85, 13:88-13:89, 13:91, 13:93-13:94, 13:96-13:105, 35:60, 45:03, 45:08, 45:10, 46:18, 50:49, 51:157, 55:02:01:01-55:02:06, 55:02:08-55:02:10, 55:07, 55:12, 55:16, 55:18-55:19, 55:22, 55:26, 55:30, 55:34-55:35, 55:41, 55:43, 55:47-55:48, 55:50, 55:56-55:57, 55:62-55:63, 55:65, 55:67, 55:69-55:72, 55:77, 55:80, 55:82-55:83N, 56:01:01:05S, 56:01:05, 56:01:10-56:01:11, 56:19N, 56:23, 56:54, 56:55:01:02, 59:01:01:01-59:01:01:02, 59:05, 59:07-59:10N		2																
*13:03, 44:15:01:01-44:15:01:02, 44:18, 45:01:01-45:01:03, 45:04-45:07, 45:11-45:21, 46:11, 49:01:02, 49:11, 49:45, 51:15, 56:01:01:01-56:01:01:04, 56:01:02-56:01:04, 56:01:06-56:01:09, 56:07-56:08, 56:13-56:14, 56:17, 56:20:01-56:20:02, 56:24, 56:26-56:30, 56:33-56:36, 56:38N-56:42, 56:44-56:49, 56:52-56:53, 56:55:01:01, 59:04		2			5													
*13:04, 13:72, 15:155, 15:222, 35:37, 40:159, 45:09, 55:23, 56:50								8							15			
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
*13:10, 14:56, 15:05:01-15:05:03, 15:31, 15:52, 15:55, 15:91, 15:107, 15:114, 15:123-15:124, 15:136, 15:151, 15:185-15:186, 15:235, 15:275:01-15:275:02, 15:332, 15:348, 15:383, 15:421, 18:01:01:01-18:01:05, 18:01:07-18:01:19, 18:01:21-18:01:25, 18:03:01-18:07:02, 18:09-18:12:02, 18:14, 18:17N, 18:20, 18:23N-18:25, 18:28-18:29, 18:31-18:40, 18:42-18:44:01, 18:45-18:51, 18:53-18:55, 18:58-18:60, 18:62-18:72:01, 18:72:03-18:100, 18:102-18:104, 18:106-18:112, 18:114-18:121, 18:123-18:140, 18:142-18:145, 35:05:01:01-35:05:03, 35:32:01-35:32:02, 35:51, 35:68:02, 35:72, 35:89, 35:97, 35:114, 38:52, 39:07, 39:43, 39:91, 39:134, 40:03:01:01-40:03:01:02, 40:20:01:01-40:20:01:02, 40:38, 40:52, 40:105, 40:222, 40:267, 40:284, 46:06, 46:13:01-46:13:03, 46:19, 46:21:01-46:21:02, 46:43, 48:14, 48:23, 53:14, 53:44, 56:18, 56:31, 57:83, 58:16:01, 58:18								8	9									
*13:16, 14:37, 15:42, 49:01:08, 49:07, 49:49, 50:31, 50:45, 50:55, 55:01:01-55:01:03, 55:01:05-55:01:06, 55:01:08-55:01:16, 55:03, 55:05, 55:11, 55:15, 55:24-55:25, 55:29, 55:31, 55:33, 55:36, 55:38, 55:40, 55:45, 55:54-55:55N, 55:59-55:60, 55:66, 55:73-55:76, 55:78-55:79, 55:84-55:85, 55:87		2															17	
*13:18, 13:41, 55:37		2								10								
*13:31, 55:21		2								10							w	
*13:35, 40:44, 41:21, 44:20, 44:47, 44:100, 44:197, 55:27						6									15			
*13:48, 49:01:01:01-49:01:01:02, 49:01:03-49:01:07, 49:01:09-49:03, 49:06, 49:08-49:10, 49:12-49:14, 49:16-49:17, 49:19N-49:24, 49:26-49:40, 49:42-49:44, 49:46, 49:48, 50:01:01:01-50:02, 50:04-50:08, 50:10-50:11, 50:13, 50:15, 50:18-50:19, 50:32, 50:34-50:38, 50:40, 50:43-50:44, 50:46, 50:48, 50:50, 50:52-50:54, 51:106:02, 51:225, 52:25:01, 56:25, 56:37		2			5												17	

*13:62, 27:153, 40:95, 40:148, 49:18:01-49:18:02, 50:14, 50:20, 51:01:01:01-51:01:17, 51:01:19-51:01:47, 51:01:49-51:03, 51:07:01-51:07:02, 51:11N-51:12, 51:14, 51:16-51:18, 51:21-51:24:05, 51:26-51:28, 51:30, 51:32-51:34, 51:38, 51:41N, 51:43, 51:48-51:53, 51:55, 51:57-51:58, 51:60, 51:65-51:71, 51:74-51:80, 51:83-51:86, 51:88-51:89, 51:94-51:96, 51:98N, 51:100-51:105, 51:107, 51:109-51:114, 51:116-51:121, 51:123-51:130, 51:132, 51:134, 51:136-51:138, 51:140, 51:142-51:147, 51:149N-51:152, 51:154-51:156, 51:158:01-51:171, 51:173Q-51:180, 51:182-51:193, 51:195-51:196, 51:198-51:210, 51:212, 51:214-51:215, 51:218-51:219, 51:221-51:222, 51:224, 51:226, 51:228-51:234, 52:01:01:01-52:02:02, 52:04-52:09:02, 52:11, 52:13, 52:15-52:18, 52:20, 52:22-52:23, 52:27-52:38, 52:40-52:43, 52:45-52:62, 52:64-52:70, 52:72-52:73, 55:17, 55:28, 56:05:01-56:06, 56:21, 58:08:01-58:08:02, 78:01:01:01-78:03, 78:05-78:07, 78:09						6										17	
*15:01:04, 58:01:08	1							8										
*15:04:01:01-15:04:04, 35:265, 46:32								8		10					15		w	
*15:16:01:01-15:16:03, 15:67, 15:95, 15:254, 15:293, 15:310, 15:362, 15:408, 49:04:01-49:05, 50:33, 51:37, 51:216, 55:68								8							15		17	
*15:73, 44:10, 44:140, 49:47, 50:12, 50:17, 50:51, 51:62, 58:73, *C*03:19, C*03:102*					5													
*15:137										10							w	
*15:237, 18:13, 35:66								8	w									
*15:303, 50:47		2			5					10							w	
*15:434			3					8										
*18:01:20, 18:72:02	1							8	9									
*35:235, *C*07:463*															15			
*35:368								8	9									
*38:11, 48:36, 67:02, 81:06				4					9									
*39:33										10								
*40:71, 56:02:01-56:02:02, 56:04:01					5				9									
*40:94	1								9									
*40:149									9									18
*40:161, 51:29, 51:82, 52:24, *C*14:92*						6				10							17	
*40:298:01-40:298:02						6					11							
*41:22						6												18
*49:25		2			5												17	18
*49:41		2			5					10							17	
*49:50, 50:09, 51:01:48, 51:13:01-51:13:02, 51:35, 51:99, 51:131, 51:133, 51:172, 52:14, 55:01:04, 55:44, 55:53, 55:58																	17	
*50:16, 50:41-50:42, 51:106:01, 51:223, 52:25:02					5												17	
*50:39		2													15		17	
*51:01:18	1					6											17	
*51:05, 51:54, 51:217						6				10								
*51:39			3			6											17	
*51:61:01-51:61:02, 52:21:01-52:21:02						6				10							w	
*51:63:01-51:63:02, 52:39								8									17	
*51:90, 52:12, 52:26, 52:63						6									15		17	
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
*51:92:01-51:92:02, 52:75															15		17	
*52:44						6											w	
*55:02:07	1	2																
*55:10		2																18
*55:46		2													15			
*55:64		2												14			17	
*56:16		2			5													18
*56:43		2			5					10								
*56:51					5				w									
*57:58								8										18
*57:80, 82:01:01:02, 82:02:01:02																		18
*59:06		2										12						
*67:06-67:07									9									?
*82:01:01:01, 82:02:01:01, 82:02:02-82:03					5													18
*C*03:217*													13					
*C*05:152*										10							17	
*C*07:102*				w														
*C*12:183*										10					15		w	
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18


19 20 21 22
Negative Control
19
20
21
19 20 21 22
19 20 21 22
Negative Control
19 20 21 22
19 20 21 22

Negative Control
19
19 20 21 22
19 20 21 22


Negative Control
20
19 20 21 22
19 20 21 22
Negative Control
19 20 21 22