

Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	
HLA-A allele ^{1,2,6}	ser ³																						
*01:01:01:01:01:01:22, 01:01:24-01:01:47, 01:01:49-01:01:55, 01:01:57-01:01:64, 01:01:67-01:01:78, 01:01:80-01:04:01:02N, 01:06, 01:09:01:01-01:11N, 01:16N-01:18N, 01:20, 01:22N-01:25, 01:27N, 01:29, 01:31N-01:33, 01:35-01:42, 01:44-01:50, 01:52:01N-01:78, 01:80-01:94, 01:96-01:98, 01:100-01:120, 01:122-01:125, 01:127-01:135, 01:137-01:144, 01:146, 01:148, 01:150-01:158, 01:160N-01:166, 01:168-01:175, 01:177, 01:179N-01:191, 01:193, 01:195-01:199, 01:201-01:204, 01:206-01:207, 01:209-01:213, 01:215-01:227, 01:230-01:235, 01:237-01:243, 01:245-01:266:02, 01:268-01:270, 01:272-01:278, 01:280-01:288, 01:290N-01:297, 01:300, 01:302-01:313, 01:315-01:343, 01:345-01:359, 01:362-01:375, 01:377-01:379N, 01:382-01:390, 01:392-01:395, 01:397-01:402, 01:404-01:408, 36:04 ⁴	A1, A36, Null, -		1		4																		
*01:01:23, 01:01:48, 01:01:65-01:01:66, 01:01:79, 01:08, 01:14, 01:30, 01:79, 01:99, 01:145, 01:147Q, 01:149, 01:159Q, 01:167, 01:178N, 01:205, 01:208Q, 01:214, 01:228Q, 01:236, 01:267, 01:271, 01:279, 01:314, 01:376, 01:391, 01:396Q, 01:403, 36:01:01:01-36:01:02, 36:03, 36:05-36:12 ⁴	A1, A36, Null, -		1																				
*01:01:56, 01:361N	Null, -	1			4						11												
*01:07, 01:95, 01:289	A1, -	1			4											16							
*01:12, 01:19, 01:200, 01:244	A1, -	1		3																			
*01:13, 01:176	A1, -	1			4					10	12		14										
*01:15N	Null	1			w																		
*01:21, 01:126, 01:360	A1, -	1		3	4																		
*01:26, 01:136, 01:192, 01:380:01:01-01:380:01:02, 11:94, 11:112, 11:211, 11:226, 11:290, 11:326 ⁵	A1, -	1			4					10													
*01:28, 01:229, 01:299, 11:282 ⁵	-	1			4					10			14										
*01:43, 11:271 ⁵	-	1			4					9													
*01:51	-	1			4			7		9													
*01:121	-	1			4															18			
*01:194	-	1			4							12		14									
*01:298	-	1			4				8											16			
*01:301Q	-	1			4			6															
*01:344, 01:381	-	1			4			7															
*02:01:01:01-02:01:15, 02:01:17-02:01:19, 02:01:21-02:01:81, 02:01:83-02:16, 02:18-02:22:02, 02:24:01-02:33, 02:36-02:45, 02:47, 02:49:01-02:54, 02:57-02:61, 02:63-02:64:02, 02:66-02:69, 02:71-02:77, 02:79:01-02:80, 02:82N-02:97:02, 02:99:01-02:99:02, 02:101:01-02:102, 02:104-02:123, 02:125N-02:128, 02:130-02:134, 02:136-02:148, 02:150:01-02:168, 02:170-02:236, 02:238-02:242, 02:244-02:308, 02:310-02:337, 02:339-02:406, 02:408-02:448, 02:450-02:453, 02:455-02:526, 02:528:01-02:570:02, 02:572-02:579, 02:581Q, 02:583-02:643N, 02:645-02:650, 02:652-02:670, 02:672Q-02:740, 02:742-02:803N, 02:805Q-02:808, 02:810-02:814, 02:816-02:828, 02:830:01-02:841, 02:843-02:906, 02:908-02:926, 02:928, 02:930-02:931, 02:933-02:946N, 02:948-02:951, 02:953-02:1039	A2, Low A2, A203, A210, Null, -		2																				
*02:17:02:01-02:17:04	A2, -		2				w																
*02:34-02:35:01, 02:35:03, 02:56:01-02:56:02, 02:62, 02:103, 02:580, 02:907	A2, -		2									12									19		
*02:35:02	A2											12									19		
*02:46, 02:70, 02:651	A2, -		2																		19		
*02:48, 02:129, 02:571	A2, -																				19		
*02:55	A2, A28		2					7														20 21	
*02:65, 02:407, 02:449, 02:932	A2, A19, -		2																		18		
*02:78	-		w		4																	19	
*02:81, 02:124	A2		2						8														
*02:135	-		2									12											
*02:149:01-02:149:02, 02:842, 02:947	-		2																			20	
*02:169	-		2		4																		
*02:237, 02:809, 02:927	-		2										13	15								21	
*02:243:01-02:243:03	-		2																			20	
*02:309	-		2								11		13									20	
*02:338, 02:952	-		2	3																			
*02:454	-		2								11		13										
Well No.	ser. ³	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	

Well No.	ser. ³	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
*02:527, 02:582	-		2					7														
*02:644	-							7		9											20	
*02:671	-		2																			21
*02:741	-		2					7					12							19	20	
*02:804	-		2				6															
*02:815	-		2					7													20	
*02:829	-				4				8													
*02:929	-		2															17				
*03:01:01-03:01:18, 03:01:20-03:01:22, 03:01:24-03:01:37, 03:01:39-03:01:82, 03:01:84-03:01:93, 03:01:95-03:07:02, 03:09-03:11N, 03:13-03:17:02, 03:19-03:23:02, 03:25-03:31, 03:33-03:35, 03:37-03:40, 03:42, 03:44-01-03:49, 03:51-01-03:56, 03:58, 03:60-03:62:01:02, 03:64-03:71, 03:73-03:74, 03:76-03:81, 03:83-03:87, 03:90-03:94, 03:96-03:103:01, 03:104-03:106, 03:109-03:110, 03:112-03:123:01, 03:124-03:134, 03:136-03:141, 03:143-03:151, 03:153-03:170, 03:174-03:175, 03:179-03:185, 03:188-03:193, 03:195-03:197:02N, 03:201-03:202, 03:204, 03:206-03:210, 03:212-03:214, 03:216-03:218, 03:220-03:224, 03:226-03:230, 03:231:02-03:245, 03:247-03:248, 03:250-03:251, 03:253-03:259, 03:261-03:266N, 03:268-03:272, 03:274-03:281, 03:283N-03:321, 03:323N-03:329N, 03:331-03:342N, 03:344-03:346, 03:348-03:376, 03:378-03:381N, 03:383-03:394, 03:396-03:397, 03:399-03:412, 03:415-03:427, 03:430-03:439	A3, Null, -			3									12									
*03:01:19, 03:103:02	-			3								11	12									
*03:01:23, 03:01:83, 03:01:94, 03:08:01:01-03:08:01:02, 03:36N, 03:57, 03:59, 03:72, 03:89:01-03:89:02, 03:107-03:108, 03:111, 03:142, 03:172-03:173, 03:176, 03:178N, 03:198-03:199, 03:203, 03:205, 03:211, 03:252, 03:267, 03:330N, 03:398, 03:413, 24:92, 24:458, 24:551, 24:557 ⁵	A3, Null, -			3																		
*03:01:38, 03:123:02, 03:171, 03:231:01, 03:428	-			3									12	13								
*03:12	A3			3	4																	
*03:18, 03:135	-		1		4								12									
*03:24, 03:50	A3, -			3				7					12									
*03:32, 03:152, 03:219, 03:273, 03:429	-			3													16					
*03:41, 03:382	-			3																		21
*03:43, 03:82, 03:186	-			3									12	14	16							
*03:63	-			3							10		12									21
*03:75, 03:177, 03:377	-												12									21
*03:88	-			3	4						10											21
*03:95, 03:343	-												12	13	15							21
*03:187, 03:215, 03:225, 03:249, 03:322, 03:414, 25:46, 25:77 ⁵	-												12									
*03:246, 03:282	-			3									12						18			
*03:347	-							6					12									21
*03:395	-		1	3									12	14								
*11:01:01-01-11:02:07, 11:04-11:07:01, 11:08-11:09, 11:12:01-11:16, 11:18-11:19, 11:21N-11:24:02, 11:26-11:27, 11:29-11:39, 11:41-11:52Q, 11:54:01-11:59, 11:61-11:93, 11:95-11:111, 11:114-11:115N, 11:117-11:129, 11:131-11:138, 11:141-11:157, 11:159-11:161, 11:163-11:165, 11:167-11:174, 11:176-11:182Q, 11:184-11:190, 11:192-11:198, 11:200-11:208:02N, 11:210N, 11:212-11:221, 11:224-11:225, 11:227-11:268, 11:270, 11:272Q-11:281, 11:283-11:289, 11:291-11:305, 11:307-11:325, 11:327-11:347N, 11:349-11:365N, 11:367-11:371, 11:373-11:380, 11:382N-11:417N, 24:555 ⁵	A11, Null, -				4							10										
*11:03, 11:20, 11:25:01-11:25:02, 11:60, 11:158, 11:175, 11:209, 11:348, 11:366, 11:381	A11, -			3	4							10										
*11:07:02, 11:372	-			4								10						18				
*11:10, 11:191, 11:269	A11, -			4				7			10											
*11:11, 34:19 ⁵	-			4							10	11										
*11:17, 11:40, 11:223	-			4					9		10											
*11:113, 11:162	-			4							10				14							
*11:116, 11:140, 11:199:01-11:199:02, 11:222, 66:23 ⁵	-			4							10	12										
*11:130	-			3	4						10		13									21
*11:139	-			4				6			10											
*11:166	-			4	5						10											
*11:183	-			3	4			7			10											
*11:199:03	-			4							10	12								19		
*11:306	-			4							10				15							
Well No.	ser. ³	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21

Well No.	ser. ³	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	
*23:01:01:01-23:13, 23:15-23:56, 23:58-23:63, 23:65, 23:67-23:68, 23:70-23:98, 23:100-23:103N, 23:106N-23:112, 23:114-23:120, B*18:27 ⁵	A23, Null, -					5																	
*23:14:01-23:14:02, 23:105, 24:24, 24:71, 24:315, 24:392, 24:527 ⁵	A23, A24, A9, -					5	6																
*23:57	-																				20		
*23:64	-					5											16						
*23:104, 23:113N, 24:02:01:01-24:11N, 24:13:01-24:13:02, 24:17:01:01-24:17:01:02, 24:20:01:01-24:23, 24:25-24:43, 24:45N-24:50, 24:54-24:56:02, 24:58-24:63, 24:66-24:70, 24:72-24:81, 24:83N-24:91, 24:93, 24:95-24:103, 24:105-24:113, 24:115-24:137, 24:139-24:187, 24:189-24:203, 24:205-24:210, 24:212, 24:214-24:221, 24:223-24:227, 24:229-24:242, 24:244-24:290, 24:292-24:295, 24:297-24:303N, 24:305-24:314, 24:317-24:323N, 24:325-24:391, 24:393-24:411, 24:413-24:457, 24:459-24:470, 24:472-24:480, 24:482-24:514N, 24:516-24:526, 24:528-24:550, 24:552-24:554, 24:556N, 24:558-24:565 ⁵	A24, Low A24, A2403, A9, Null, -					6																	
*24:18, 24:204, 24:213	A24, A3, -						6															21	
*24:19, 24:44	A9						6			10													
*24:82	-						6											17			20		
*24:104, 24:243	-						6										16						
*25:01:01:01-25:02, 25:04, 25:07-25:16, 25:18-25:29, 25:31-25:33, 25:35, 25:37-25:42N, 25:44-25:45, 25:47-25:49N, 25:51, 25:53, 25:55-25:58, 25:60-25:64, 25:66-25:70, 25:72-25:76, 25:79-25:80	A25, Null, -							7	8				12										
*25:03	A25							7	8				12				16						
*25:05	A25							7	8			11	12								19		
*25:06	A25							7	8			11											
*25:17, 25:34, 25:54, 25:71	-								8				12										
*25:30	-							7	8				12				16				20		
*25:36, 25:50, 25:52, 25:65	-							7	8														
*25:43	-				4			7	8														
*25:59	-	1			4					9											19		
*25:78, 26:01:63, 26:57, 66:12, 66:15 ⁵	-							7					12										
*26:01:01:01-26:01:47, 26:01:49-26:01:62, 26:01:64-26:01:74, 26:08:01:01-26:08:03, 26:10-26:15, 26:17-26:18, 26:20:01-26:20:02, 26:23-26:28, 26:31-26:43:02, 26:45-26:48, 26:50-26:53, 26:55-26:56, 26:58-26:63, 26:65-26:71N, 26:73-26:74, 26:76-26:77, 26:79-26:88, 26:90, 26:93-26:110, 26:112-26:119, 26:121, 26:123-26:151, 26:153-26:176, 26:178-26:183, 26:185-26:192, 26:194-26:197, 26:199-26:203, 26:206N, 26:208-26:216, 26:218-26:220	A26, A10, Null, -							7		9			12										
*26:01:48, 26:07:01-26:07:02, 26:64, 26:89	A26, -									9			12										
*26:02:01-26:02:02, 26:29, 26:49	A26, -							7		9			w										
*26:03:01:01-26:03:01:02, 26:06, 26:21, 26:111	A26, -							7		10		12										21	
*26:04, 26:75, 26:205	A26, -							7		9													
*26:05, 26:30	A26							7					12									21	
*26:09, 26:91	A26, -							7		9		11											
*26:16	A26						6			9			12										
*26:19	-				4					9			12	13									
*26:22	A26							7		9			12	13								20	
*26:54	-							7		9		11	12									19	
*26:72, 26:184	-				4					9			12										
*26:78	-							7				10										21	
*26:92, 66:42 ⁵	-											10	12										
*26:120	-	1						7		9			12										
*26:122	-							7		9			12									19	
*26:152, 26:193	-							7		9	10		12										
*26:177	-									10			12								17	20	21
*26:198	-							7		9			12	13									
*26:204:01:01-26:204:01:02	-				4			7		9													
*26:207	-									9			12								17		
*26:217	-							7		9		11	12										
*29:01:01:01-29:06, 29:08N-29:12, 29:15-29:27, 29:29-29:38, 29:40-29:47, 29:50-29:66, 29:68-29:79, 29:81-29:97, 29:99-29:104, 29:106-29:154, 29:157-29:163, 29:165-29:167	A29, Null, -													13									
*29:07, 29:49	A29, -					5								13									
*29:13, 29:39, 29:98	-													13							16		
*29:14	-													13							15		

Well No.	ser. ³	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
----------	-------------------	---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----

Well No.	ser. ³	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
*29:28	-							7						13								
*29:48	-													13				17				
*29:67, 29:156	-				4									13								
*29:80, 29:155	-													13							20	
*29:105, 29:164	-									9				13				17				
*30:01:01-01-30:04:01:02, 30:04:02-30:04:03, 30:06-30:07, 30:09:01:01-30:20, 30:22-30:54, 30:56-30:88, 30:90-30:124, 30:126-30:139, 30:141-30:149, 30:151-30:162, 30:164-30:176, 30:178N-30:185, 30:187-30:200, B*07:260, C*12:328 ⁵	A30, Null, -														14							
*30:04:01:03	-				3										14							
*30:08:01-30:08:02, 30:150	A30, -				4										14							
*30:55, 30:186	-												12		14							
*30:89, 30:177	-														14			16				
*30:125, 30:140	-										10				14							
*30:163	-							6							14							
*31:01:02:01-31:02:02, 31:05-31:07, 31:09-31:20, 31:22-31:23, 31:26-31:28, 31:30-31:34, 31:36-31:40, 31:42-31:84, 31:86-31:108, 31:110-31:122, 31:124-31:175, 31:177-31:178, 31:180-31:199, 31:201N-31:211	A31, Null, -															15						
*31:03-31:04:02	A31, -			w								11		13		15						
*31:08, 31:109, 33:53, 33:125, 33:131 ⁵	A31, A24, -															15		17				
*31:21	-															15	16					
*31:24-31:25	-												12		15							
*31:29, 31:85	-							5							15							
*31:35	-														14	15	16					
*31:41	-														15						20	
*31:123	-														11	13	15					
*31:176, 31:179	-				3											15						
*31:200	-		1													15						
*32:01:01-01-32:02, 32:07-32:14, 32:16-32:25, 32:27N-32:37, 32:39-32:41, 32:43:01-32:59, 32:61-32:63, 32:65-32:70, 32:73-32:77, 32:81-32:92N, 32:94-32:106:01:02, 32:108-32:127, 32:129-32:141, 32:143-32:151, 32:153-32:155, 32:157-32:158	A32, Null, -								8								16					
*32:03:01-01-32:03:01:02, 32:38, 32:60, 32:71, 32:78, 32:80, 32:107	A32, -																16					
*32:04, 32:142	A32, A3, -				3				8								16					
*32:05, 32:79	A32, -															15	16	17				
*32:06	A32								8								16				20	
*32:15	A32							7	8								16	17				
*32:26:01-32:26:02, 32:152	-								8								16					
*32:42	-								8								16					
*32:64	-				4				8					13			16					
*32:72	-							5	8								16					
*32:93	-								8								16	17				
*32:128	-								8								15	16				
*32:156	-		1						8								16					
*33:01:01-01-33:01:16, 33:03:01-01-33:12, 33:14-33:18:02, 33:20-33:21, 33:23, 33:25-33:37, 33:39-33:47, 33:50, 33:52, 33:54-33:60, 33:62-33:118, 33:120-33:124, 33:126-33:130, 33:132-33:143N, 33:145-33:178, 33:180-33:183, 33:185-33:186, 33:188-33:189, 33:191-33:200, 33:202-33:225	A33, Null, -																	17				
*33:13, 33:48	-									9								17				
*33:19, 33:119	-								6									17				
*33:22	-																	17			20	
*33:24	-																	17				21
*33:49, 33:144, 33:179, 33:201	-				w													17				
*33:51	-								7									17				
*33:61, 33:190	-													12				17				
*33:184	-												10					17				21
*33:187	-								5									17				
*34:01:01-01-34:01:07, 34:05-34:06, 34:11-34:12, 34:14, 34:16-34:18, 34:23, 34:27, 66:40 ⁵	A34, A10, -								7			10	11									
*34:02:01-01-34:03, 34:07, 34:10N, 34:13, 34:15, 34:20-34:22, 34:24-34:26N	A34, Null, -				3				7			10	11									
*34:04	A34				3				7			10	11		13							
*34:08	A34				3				7			10	11	12								
*34:09	-				3				7			11										
Well No.	ser. ³	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21

Well No.	ser. ³	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
*36:02	A36	1	3											13								21
*43:01-43:03	A43, Null, -									9	11	12										
*66:01:01:01-66:01:06, 66:04-66:05, 66:07-66:08, 66:11, 66:13-66:14, 66:17-66:18, 66:20, 66:22, 66:24, 66:27N, 66:29-66:33, 66:35-66:38, 66:41	A66, A26, Null, -							7			10	12										
*66:02:01:01-66:03:01:03, 66:16, 66:21, 66:25-66:26Q, 66:28N, 66:34, 66:39N, 66:43	A66, A10, Null, -							7				11										
*66:06	A66							7			10	12										20
*66:09	-							7			10	12	13									20
*66:10	-							7			10	w										
*66:19	-							7			10	11	12									
*68:01:01:01-68:04:02, 68:06-68:08:01:02, 68:09-68:12:02, 68:13:02-68:14, 68:16-68:18N, 68:21:01-68:24, 68:26-68:28, 68:30-68:44, 68:46-68:65, 68:67-68:70, 68:72-68:83, 68:85-68:102, 68:104:01-68:104:02, 68:106-68:108, 68:110-68:116, 68:118-68:129, 68:131-68:133, 68:135, 68:137-68:156, 68:158-68:177, 68:179-68:217, 68:219-68:226, 68:228-68:249, 68:251N-68:254, 68:256-68:257, 68:259-68:261, 68:263Q-68:270, 68:272-68:275, 68:277-68:285	A68, A28, Null, -							7													19	
*68:05, 68:15, 68:20, 68:109, 68:136, 68:255	A68, -							7													19	21
*68:08:02, 68:105:01:01-68:105:01:02, 68:157, 68:276Q	A68, -							7													19	20
*68:13:01, 68:66:01-68:66:02, 68:134	A68, -				4			7														19
*68:19, 68:130:02	A68, -							7						13								19
*68:25, 68:262	A68, -							7													18	19
*68:29	A68							7										17			19	20
*68:45, 68:117	-						6	7														19
*68:71	-							7				12										19
*68:84, 68:227	-							7		9												19
*68:103:01-68:103:02	-			3				7														19
*68:130:01	-							7				11										19
*68:178	-				4																	19
*68:218, 68:258	-							7														19
*68:250	-																	17			19	20
*68:271	-							7			10											19
*69:01:01:01-69:01:04, 69:03-69:06, 69:08	A69, -							7														20
*69:02	-							7			10											20
*69:07	-							7				12										20
*74:01:01:01-74:01:02, 74:01:04-74:03:02, 74:05-74:06, 74:08-74:12N, 74:14N-74:18, 74:20, 74:22, 74:24-74:29, 74:31-74:32N, 74:34, 74:36, 74:38-74:41	A74, Null, -																					18
*74:01:03	-											11										18
*74:04, 74:21	A74, -																				17	18
*74:07, 74:33	A74, -																				16	18
*74:13	-											12			15							18
*74:19	-				4																	18
*74:23	-			3																		18
*74:30	-										10											18
*74:35	-																					18
*74:37	-												12									20
*80:01:01:01-80:01:02, 80:03, 80:05-80:09N	A80, Null, -					5																21
*80:02	-					5					10											
*80:04	-					5											16					21
B*07:81, B*08:52, B*18:67, B*38:41, B*38:67, B*49:67, B*51:185, B*53:05:01-53:05:02, B*53:16, B*53:33, B*57:01:38, B*57:60	B53, -								8													
C*03:365, C*12:131	-				4																	
C*06:187	-																					21
Well No.	ser. ³	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21