HLA-B SSP Kit

Reaktionsschema/Reaction Pattern

Alleldatenbank/Allele database: **2020-10-15 HLADB_3.42.0**

REF **826206**

LOT **B114061-db2020-10V1**

187676/03-08/2012

Frq.	Allel / Allele	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
x	B*07:02:01:01/04:01/05:01:01/06:01:01/07:01/09:01(B7)	■														■																						■		■										■
	B*07:02:01:02/02:01:03/02:01:04/02:01:05/02:01:06/02:01:07/02:01:08/02:01:09/02:01:10/02:01:11/02:01:12/02:01:13/ 02:01:14/02:01:15/02:01:16/02:01:17/02:01:18/02:01:19/02:01:20/02:01:21/02:01:22/02:01:23/02:01:24/02:01:25/02:01:26/ 02:01:27/02:01:28/02:01:29/02:01:30/02:01:31/02:01:32/02:01:33/02:01:34/02:01:35/02:01:36/02:01:37/02:01:38/02:01:39/ 02:01:40/02:01:41/02:01:42/02:01:43/02:01:44/02:01:45/02:01:46/02:01:47/02:01:48/02:01:49/02:01:50/02:01:51/02:01:52/ 02:01:53/02:01:54/02:01:55/02:01:56/02:01:57/02:01:58/02:01:59/02:01:60/02:01:61/02:01:64/02:01:65/02:01:66/02:01:67/ 02:01:68/02:01:69/02:01:70/02:01:71/02:01:72/02:02/02:03/02:04/02:05/02:06/02:07/02:08/02:09/02:10/02:12/02:13/ 02:14/02:15/02:16/02:17/02:18/02:20/02:21/02:22/02:23/02:24/02:25/02:26/02:27/02:28/02:29/02:30/02:31/02:32/ 02:33/02:34/02:35/02:36/02:37/02:38/02:39/02:40/02:41/02:42/02:43/02:44/02:45/02:46/02:47/02:48/02:49/02:50/ 02:51/02:52/02:53/02:54/02:55/02:56/02:57/02:58/02:59/02:60/02:61/02:62/02:63/02:64/02:65/02:66/02:67/02:68/ 02:69/02:70/02:71/02:72/02:73/02:74/02:75/02:76/02:77/02:78/02:79/02:80/02:81/02:83/02:84/04:02/05:01:02/05:01:03/ 05:01:04/05:02/05:04/05:05/05:06/05:07/05:08/05:09/05:10/06:01:02/06:01:03/06:02/06:03/06:04/06:05/07:02/07:03/ 09:02/10/101/102/103/104/105/106/107/108/109/110(B7)/111N(Null)/112/113/114/115/116/117/118/119/12/120/121/ 122/123/124/125/126/127/128/129/130/131/132(B7)/135N(Null)/136:01/136:02/137/138/139:01/139:02/14:01/14:02/ 140/141/142/144/145/146/148/15/150/152/153/154/155/156/157/158/159/160(B7)/161N(Null)/162/163/165/166(B7)/ 167N(Null)/168/169/17/170/171/172/173/174/175/176/177/178/179/18:01/18:02(B7)/181N/182N(Null)/183/184/185/ 186/187/188/189/19/190/191/192/193/194/196/197/198/199/20/200(B7)/201N(Null)/203/204/205/206/208/21/210/ 211/212/213/214/215/216/217/218/22:01/22:02/221/222/224/225/227/229:02/23/230(B7)/231N(Null)/233/234/237/ 238/239/24/241/242/243/245/246/248/249/250(B7)/251N(Null)/252/254/255/256/257/258/259/26/260/262/263/264/ 265/266/267/268/269(B7)/272N(Null)/274/275/276:01/276:02/277/278/28/280/281/282/283/284(B7)/285N(Null)/286/ 287/288/289/29/290/291/292/293/294/295/296/297/298/299/30/300/301/302/303:01/303:02/304/305/307/308/309/ 310/311/312/313/314(B7)/315N(Null)/317(B7)/318N(Null)/319/320/321/322/323/324/326/327/328/329/33:01/33:02/ 33:03(B7)/330N(Null)/331/334/335/336/337/338/339/34/341/342(B7)/343N(Null)/344/345/346/347/348/349/35/ 350(B7)/351N(Null)/352/353/354/355/356/357/358(B7)/360Q(Null/B7)/361/362/364/365/366/369/370/371/372(B7)/ 373N/374N(Null)/375/377/378/379/380/381/382/383/384/385/387/388/389/39/390/391/392/393/394/395/396/397/ 398/399/40/401/402/403/404/405/406/41/42/43(B7)/44N(Null)/45/46/47(B7)/49N(Null)/52/53/54/55/56:01/56:02/58/ 59/60/61/62/63/64/66(B7)/67N(Null)/68:01/68:02/68:03/70/71/72/73/74/76/77/80/82/83/86/87/88/89/90/91/92/93/ 94/95/96:01/96:02/97/98/99(B7)/31:01/31:02	■														■																						■		■										■
	B*07:02:01:05/02:01:30/15/232(B7)	■														■																								■										■
	B*07:02:01:05/02:01:30/195/211/244(B7)	■														■																						■		■										
	B*07:02:01:05/02:01:30/229:01/367/368/376(B7)	■														■																								■										
	B*07:02:01:62/02:82/11/240/253/271/340/57/75:01:01/75:01:02(B7)	■																																		■		■										■
	B*07:02:01:63/100(B7)	■									■					■																						■		■										■
	B*07:02:11/05:03(B7)	■														■																						■		■							■			■
	B*07:02:19(B7)	■														■																						■	■	■										■
	B*07:02:47/02:50/02:77/05:02/105/13/15/160/200/203/217/247/270/274/299/300(B7)/315N/316N(Null)/317(B7)/ 325N(Null)/333/347/39/409/47/91(B7)	■														■																						■											■
x	B*07:03(B703)	■														■																																			■
	B*07:08:01/08:02/207/228:01/228:02/32(B7)	■														■	■																																		■
	B*07:13/15/16/232/306/37:01/37:02/50/69/85:01/85:02(B7)	■														■																																			■
	B*07:133(B7)	■														■															■						■												■
	B*07:134/65(B7)	■														■		■																			■												■
	B*07:143(B7)	■													■	■																						■		■										■
	B*07:147/151:01/151:02/279(B7)	■														■						■															■		■										■
	B*07:149(B7)	■																																		■											■	
	B*07:155/164/209/220/223/226/235/25/261/332/363(B7)/386N(Null)/407/408/48/51(B7)															■																					■		■									■	■
	B*07:180(B7)	■																															■			■										■	■
	B*07:202(B7)															■						■															■	■	■									■	■
	B*07:219(B7)	■																															■			■						■				■	
	B*07:236(B7)	■																	■																		■	■		■								■	
	B*07:240(B7)	■																	■																		■	■		■								■	■
	B*07:27(B7)	■																	■																		■											■	
	B*07:273(B7)	■																																		■	■		■								■	
	B*07:359(B7)															■									■												■	■		■								■	■
	B*07:36/81(B7)	■																															■			■	■		■								■	

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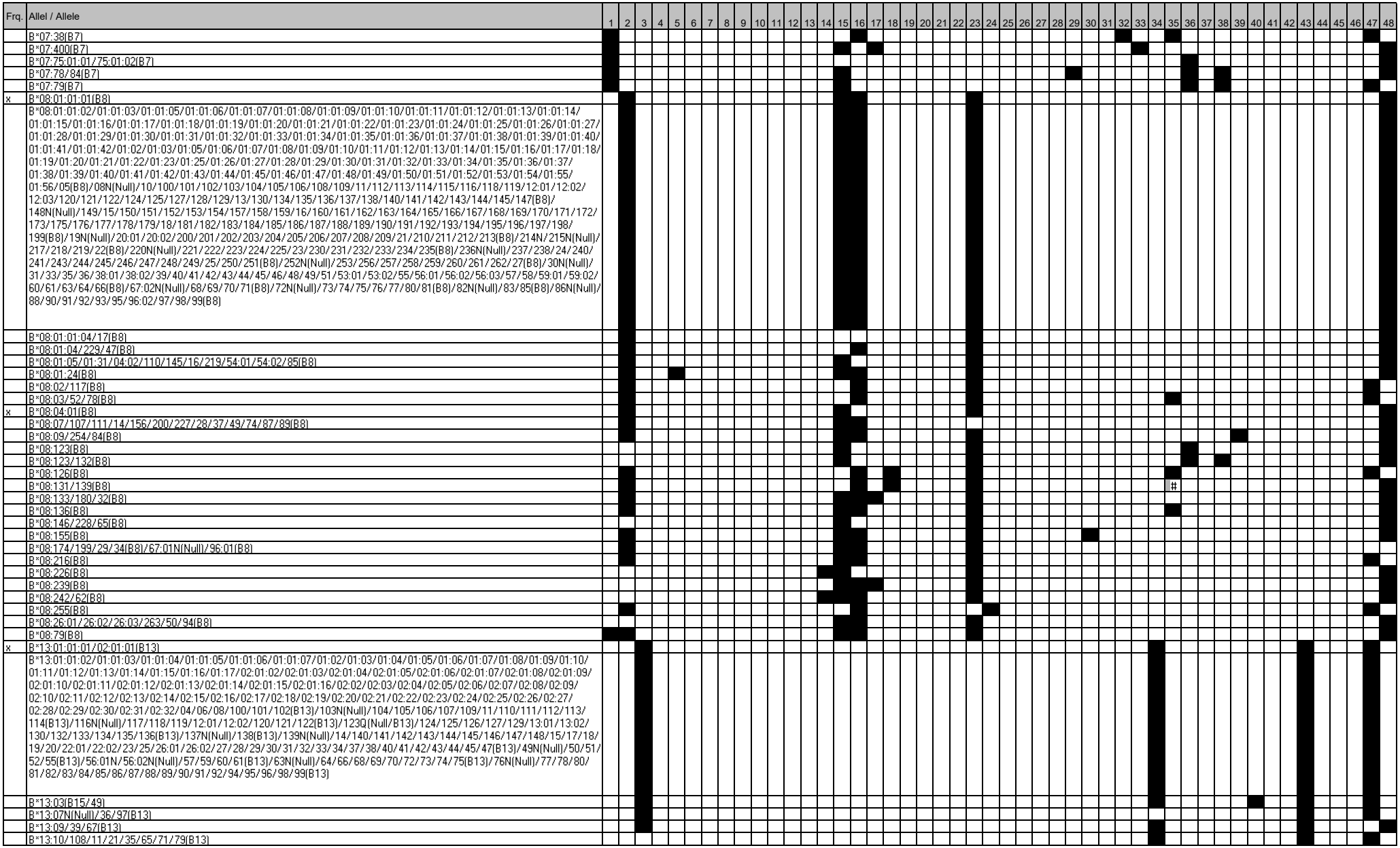
CE 0197



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Frq.	Allel / Allele	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
	B*13:115/54/85(B13)			■																															■														■	
	B*13:128/145/16/31/48(B13)			■																									■						■								■						■	
	B*13:131(B13)			■																															■					■									■	
	B*13:131/46/53(B13)			■																									■						■								■						■	
	B*13:58(B13)			■																															■								■						■	
	B*13:62(B13)																												■		■				■								■						■	
	B*13:93(B13)		■	■																															■								■						■	
x	B*14:01:01:01(B64)				■											■																																		■	
	B*14:01:01:02/01:01:03/01:01:04/01:01:05/01:01:06/01:01:07/01:02/01:03/01:04/01:05/01:06/01:07/01:09/01:10/01:11(B64)/02:03/02:06(B65)/07N(Null)/08:01/08:02/10/12/14/19/24/26/32/40/46/47/54/55/71(B14)/78N(Null)/80/81/82/83/86/87(B14)/53				■											■																																		■	
	B*14:01:08(B64)/49/65(B14)				■											■																																		■	
x	B*14:02:01:01(B65)/03/05(B14)				■	■										■																																		■	
	B*14:02:01:02/02:01:03/02:01:04/02:01:05/02:01:06/02:01:07/02:01:08/02:01:09/02:01:10/02:01:11/02:01:12/02:01:13/02:01:14/02:01:15/02:01:17/02:01:18/02:01:19/02:01:20/02:02/02:04/02:05/02:07/02:08/02:09/02:10/02:11/02:12/02:13/02:14/02:15/02:16/02:17/02:18/02:19/02:20/02:21/02:22/02:23/02:24/02:25/02:26/02:27(B65)/04/06:01/06:02/09/11/13/15/16/17/18/20/22/23/24/25/27/28/29/30/31/33/34/35/36/38/39(B14)/41N(Null)/43/44/45/48/50/51/52/56/58/59/60/61/62/63/64/66/67/68(B14)/69N(Null)/70Q(Null/B14)/72N(Null)/74/75(B14)/76N/79N(Null)/84(B14)/85N(Null)/88/89/90/91/92(B14)				■	■										■																																		■	
	B*14:02:01:16(B65)/73(B14)					■										■																																		■	
	B*14:21(B14)															■																						■			■									■	
	B*14:37(B14)				■	■										■														■										■								■	
	B*14:42(B14)															■	■																																	■	
	B*14:57(B14)					■										■																						■												■	
	B*14:77(B14)				■											■																																		■	
	B*14:93(B14)				■	■														■																		■										■	
x	B*15:01:01:01/04:01:01/05:01/07:01:01/27:01/28/30:01:01/35/39:01:01(B62)/40:01(B15/70)/45(B62)						■	■																											■														■	
	B*15:01:01:02N(Null)/01:01:03/01:01:04/01:01:05/01:01:06/01:01:07/01:01:08/01:01:09/01:01:10/01:01:11/01:01:12/01:01:13/01:01:14/01:01:15/01:01:16/01:01:17/01:01:18/01:01:19/01:01:20/01:01:21/01:01:22/01:01:23/01:01:24/01:01:25/01:01:26/01:01:27/01:01:28/01:01:29/01:01:30/01:01:31/01:01:32/01:01:33/01:01:34/01:01:35/01:01:36/01:01:37/01:01:38(B62)/01:01:39Q(Null/B62)/01:01:40/01:01:41/01:02/01:03/01:06/01:07/01:08/01:09/01:10/01:12/01:13/01:14/01:15/01:16/01:17/01:18/01:20/01:21/01:22/01:23/01:24/01:25/01:26/01:27/01:28/01:29/01:30/01:31/01:32/01:33/01:34/01:35/01:36/01:37/01:38/01:39/01:40/01:41/01:42/01:44/01:45/01:46/01:47/01:48/01:49/01:50/01:51/01:52/01:53/01:54/01:55/01:56/01:57/01:58/01:59/01:60/01:61/01:62/01:63/01:64/04:01:02/04:01:03/04:02/04:03/04:04/05:02/07:01:02/07:01:03/07:01:04/07:01:05/07:02/07:03/102(B62)/104/105(B15/70)/107(B62)/109/110(B15/70)/111N(Null)/113/116/117/118/122/125:02/126/129/135/136/138/140/141/145(B15/70)/146(B62)/147/150/152/154/155/159/160:01:01/160:01:02/163/164/165/166/167/169/171/172/174/175/178/179:01/179:02(B15/70)/181N/182N(Null)/183/184/185/187(B15/70)/190N(Null)/192/193/195/201/203/205/206/207/211/217/219/225/227/228/231/232/234/237/241/244(B15/70)/245:01Q(Null/B15/70)/247/248/249/257(B15/70)/258N(Null)/260/261(B15/70)/262N(Null)/264/269(B15/70)/26N(Null)/27:02/27:03/27:04(B62)/272N(Null)/276/277/278/279/280/285/286/287/288/295/296/299(B15/70)/30:01:02/30:01:03(B62)/300/309/315/316/317/318(B15/70)/32:01/32:02(B62)/320(B15/70)/321Q(Null/B15/70)/322/324/326/327(B15/70)/33(B15)/331/332/333/334/336(B15/70)/34:01/34:02(B62)/340/343/344/346/347/349:01/349:02/352/353/355/359/363:01/363:02/364/365/370/371/372/373(B15/70)/375N(Null)/38:01/38:02/381/383/385/386/387(B15/70)/39:01:02/39:02(B62)/390/391/393/398/40:02(B15/70)/400N(Null)/401/402/406/407/409/410/412/413/415/416/417/419/421/422/428/430/431/432/440/441/443/450/452/453/456/457/459/461/464/465/466/467/469/470/471/472/473/474/476/477/478(B15/70)/48(B62)/480/482(B15/70)/483N(Null)/484/489/490/492/493(B15/70)/496N(Null)/499/501/507/510/512/514/515/519/521/522/524(B15/70)/528N(Null)/531/533/534/535/536/538(B15/70)/540N(Null)/541/542/547(B15/70)/549N(Null)/554/558/559/56/561(B15/70)/562N(Null)/565/568/57/572(B15/70)/58(B62)/60/63/65/66(B15/70)/71/73:01:01/73:01:02(B62)/75(B15/70)/78:01:01/78:01:02/78:02/78:03/78:04(B15)/81(B15/70)/82/84(B62)/85/92(B15/70)/94N(Null)/96(B62)/97(B15/70)						■	■																												■														■	
	B*15:01:02(B62)/278(B15/70)						■	■																												■											■				■	
	B*15:01:04/01:43(B62)						■	■																												■					■									■	
	B*15:01:11(B62)/236/267(B15/70)/70(B62)						■	■																												■														■	
	B*15:01:19(B62)/120(B15/70)/149N(Null)/15:01:02(B62)/194/223/306/392/460/504(B15/70)							■																																										■	
x	B*15:02:01:01/11:01/21:01:01/31:01:01(B75)							■			■																																							■	
	B*15:02:01:02/02:01:03/02:01:04/02:02/02:03/02:04/02:05/02:06/02:07/02:08/02:09/02:10/02:11/02:12/11:02/11:03/11:04/11:05/11:06/11:07(B75)/112(B15)/139/144/148/170(B15/70)/209N(Null)/21:01:02(B75)/213/214/215/283/284/291/297/301(B15/70)/302N(Null)/303/305(B15/70)/31:01:02/31:01:03(B75)/319/325/328/330/341/345/350/357/358/367/374/378/384/394/399/404/420/425/437/438(B15/70)/454N(Null)/486/491/495/513/537(B15/70)/55(B15)/557/567/569/574/88(B15/70)							■			■																																							■	

Frq.	Allel / Allele	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
x	B*15:03:01:01(B72)/47:01(B15/70)						■	■		■																																							■
	B*15:03:01:02/03:01:03/03:01:04/03:01:05/03:01:06/03:01:07/03:01:08/03:01:09/03:02/03:03/03:04/03:05/03:06/03:07/03:08/03:09/03:10/03:11(B72)/103(B70)/123/127/132/151/158/173(B15/70)/220:01:01/220:01:02/220:02(B70)/235/242:01/242:02/243/253/266/274/281/282/369/379/389/444/448/47:02/475/49/502/527/539/54/560/62(B15/70)/68(B35)/74/98(B15/70)						■	■		■																																						■
x	B*15:04:01:01(B62)						■	■																					■					■													■
	B*15:04:01:02/04:01:03/04:02/04:04(B62)/310/531(B15/70)						■	■																					■					■													■
	B*15:05:03(B62)/125:01(B15/70)/245:02Q/377Q(Null/B15/70)/481(B15/70)/520Q(Null/B15/70)/529(B15/70)/79N(Null)						■	■																										■													
x	B*15:06/25:01:01(B62)						■	■			■																								■													■
x	B*15:08:01(B75)							■				■																																					■
	B*15:08:02(B75)/191/479/508(B15/70)							■				■																																					■
x	B*15:09:01(B70)/10:01:01/18:01:01(B71)/37(B70)							■		■																																						■
x	B*15:09:01(B70)							■		■																																					■		■
	B*15:09:02(B70)/10:01:02/10:01:03/10:01:04/10:01:05/10:01:06/10:02/10:03/10:04/10:05/10:06/10:07/108(B71)/114(B70)/119/124/133/134/153/176(B15/70)/18:01:02/18:01:03/18:01:04/18:01:05/18:01:06/18:01:07/18:02/18:03/18:04/18:05/18:06/18:07/18:08/18:09(B71)/197:01/197:02/198/200/221(B15/70)/226N(Null)/229/238/263/275:01/275:02/290/292(B15/70)/294N(Null)/306/307/311/312/313/314/329/335/337/338/351/354(B15/70)/380N(Null)/382/388/414/427/433/434/435/436/439/445/447/451/455(B15/70)/487N(Null)/498/503/506(B15/70)/51(B70)/52(B15)/526/530/548/570/573/64:01/64:02/72(B15/70)/80(B70)/90/99(B15/70)						■	■		■																																						■
	B*15:09:02(B70)/435(B15/70)							■		■																																					■		■
	B*15:101(B15/70)						■				#																									#		■										■
	B*15:106(B15/70)						■	■		■	■																			■																	■
	B*15:115(B15/70)							■		■																																						■	
x	B*15:12:01/14(B76)						■	■					■																							■											■
	B*15:12:02(B76)/188(B15/70)/19(B76)/199(B15/70)/218Q(Null/B15/70)/224/270/298(B15/70)/304N(Null)/348/368/449/485/494/497/50/518/551/86(B15/70)						■	■					■																							■											■
	B*15:12:03(B76)						■	■					■																							■			■								■
	B*15:121/265/44(B15/70)							■			■		■																							■											■
	B*15:128/137/152/204/233/240(B15/70)/25:02/25:03/25:04(B62)/250/271/289/342/360/366/395/405/458(B15/70)/463N(Null)/468/488/543(B15/70)/544N(Null)/564/77(B15/70)						■	■			■																									■											■
x	B*15:13:01(B77)							■			■																						■		■											■
	B*15:13:02/13:03(B77)/418(B15/70)							■			■																						■													■
	B*15:131/69/91(B15/70)						■	■		■			■																																			■
	B*15:137(B15/70)						■	■			■																		■						■											■
	B*15:142(B15/70)		■				■	■																											■											■
	B*15:143(B15/70)							■		■	■																			■																■
x	B*15:15:01:01(B62)							■																																								■
	B*15:156(B15/70)						■	■		■	■																																					■
	B*15:157(B15/70)/24:02(B62)/442/87(B15/70)						■	■																									■		■											■
x	B*15:16:01:01(B63)						■		■																					■																■	
	B*15:16:01:02/16:01:03/16:01:04/16:01:05/16:01:06/16:01:07/16:02:01/16:02:02/16:03/16:04(B63)/254/362/408/550/67/95(B15/70)						■		■																					■																■	
	B*15:161/186/252/323(B15/70)/93(B71)							■		■			■																																			■
	B*15:162/168(B15/70)/17:01:02/17:01:03/17:02/17:03/17:04/17:05/17:06/17:07(B63)/177/196/208/216/230/273/356/396/403/411/423/424/446/462/500/516/523/532(B15/70)/546Q(Null/B15/70)/555(B15/70)						■		■	■																								■												■	
x	B*15:17:01:01(B63)						■		■	■																								■												■	
	B*15:18:01:08(B71)																																															■
	B*15:180(B15/70)		■							■		■																																				■
	B*15:189(B15/70)				■																																										■
x	B*15:20(B62)																																		■	■											■
	B*15:202(B15/70)						■	■										■																■	■											■
	B*15:202/239(B15/70)						■	■										■																■	■											■
	B*15:210/571(B15/70)						■	■		■					■																																■
	B*15:212(B15/70)/46(B72)/525/53(B15/70)						■	■		■																				■																■
	B*15:222(B15/70)						■		■																																						■	
x	B*15:23(B70)							■		■																																						■	
	B*15:236(B15/70)						■			■		■																									■											■
x	B*15:24:01(B62)						■	■																									■		■											■	
	B*15:243(B15/70)						■	■		■																																				■		■
	B*15:246N(Null)/259/502/511(B15/70)						■	■																																							■
	B*15:25:01:02(B62)						■	■			■					■																															■
	B*15:251:01/251:02/251:03/545/556(B15/70)						■	■		■																										■											■
	B*15:252(B15/70)							■		■			■																																	■		■

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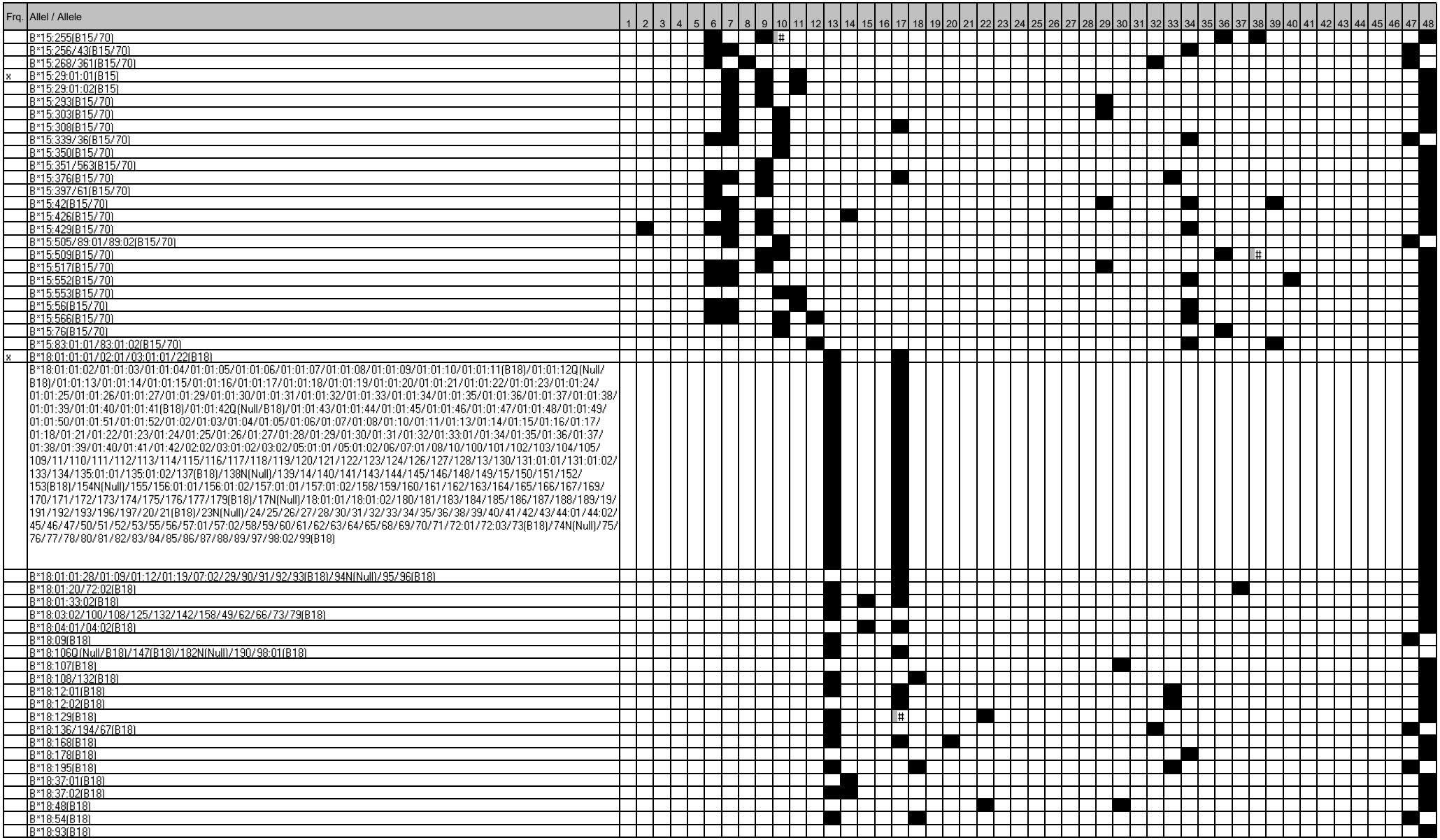

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x	B*27:01/02:01:01/04:01/05:02:01/06:01:01/07:01/09/14(B27)														■																							■												
	B*27:02:01:02/02:01:03/02:01:04/02:01:05/02:01:06/02:02/02:03/02:04/02:05/03/04:02/04:03/04:04/04:05/04:06/ 05:02:02/05:02:03(B27)/05:02:04Q(Null/B27)/05:02:05/05:02:06/05:02:07/05:02:08/05:02:09/05:02:10/05:02:11/05:02:12/ 05:02:13/05:02:14/05:02:15/05:02:16/05:02:17/05:02:18/05:02:19/05:02:20/05:02:21/05:03/05:04/05:05/05:06/05:07/ 05:08/05:09/05:10/05:11/05:12/05:13/05:14/05:15/05:16/05:17/05:18:01/05:18:02/05:19/05:20/05:21/05:22/05:23/05:24/ 05:25/05:26/05:27/05:28/05:29/05:30/05:31/05:32/05:33/05:34/05:35/05:36/05:37/05:38/05:39/05:40/05:41/05:42/ 05:43/05:44/05:45/05:46/05:48/05:49/06:01:02/07:02/07:03/07:05/07:06/10/100/102/103/104/105/106/107/108/109/ 11/110/111/112/113/114/115/117/118/120/121/122/123/124/126/128/13:01/130/131/132/133/134/135/136/137/ 138/139/140/141/142/143/144:01/145/146/147/148/149/15/150/151/152/154/155/156/158/159/160/161/162/163/ 164/165/166/167/168/17/170/171/172/173/174/175(B27)/176N(Null)/177/178/179/180/181/182/183/184(B27)/ 185Q(Null/B27)/186/187/188/189/19:01:01/19:01:02/190/191/192/193/194/195/196/197/20/200/201/202/203/205/ 206/207/208/209/21:02/210/211(B27)/212N(Null)/213/214/216/217/218/219/220/221/222(B27)/223N(Null)/227/229/ 230/231/232/233/234/235/24/25/27/28/30/32/34/35/38/39/41/43/45/46/47/48/49/50:01/50:02/51/53/54/55/56/57/ 58(B27)/59N(Null)/60/61/62/63(B27)/64N/65N/66N(Null)/68/69/70/71/72/73/74/76/78/79/80/81/82/83/84/85/86/87/ 88/90:01/90:02/90:03/90:04/91/93(B27)/94N(Null)/95/96:01/96:02/97/98/99(B27)													■																							■												
	B*27:04:03(B27)														■																							■									■			
	B*27:05:47/119/129/13:02/144:02/16/199/21:01(B27)/225N(Null)/226/228/23/29/77/92(B27)														■																																	■		
	B*27:07:04(B27)														■					■																		■												
x	B*27:08(B2708)														■																							■											■	■
	B*27:101/157/31(B27)														■																							■			■								■	
	B*27:116/169(B27)														■																							■												
x	B*27:12:01:01(B27)														■																																			■
	B*27:12:01:02/18/204(B27)														■																																			■
	B*27:12:01:03(B27)														■	■																																		
	B*27:125/36(B27)														■							■																■										■	
	B*27:127(B27)														■										■													■										■	
	B*27:153(B27)																												■		■														■			■
	B*27:198(B27)																																														■	
	B*27:224/37/52/67(B27)																																				■										■	
	B*27:26(B27)														■																							■		■								■	
	B*27:33/40/42/44/89(B27)																																	■			■										■	
	B*27:52(B27)																																	■			■										■	
	B*27:67(B27)																																		■		■										■	
	B*27:75(B27)														■																			■				■										■	

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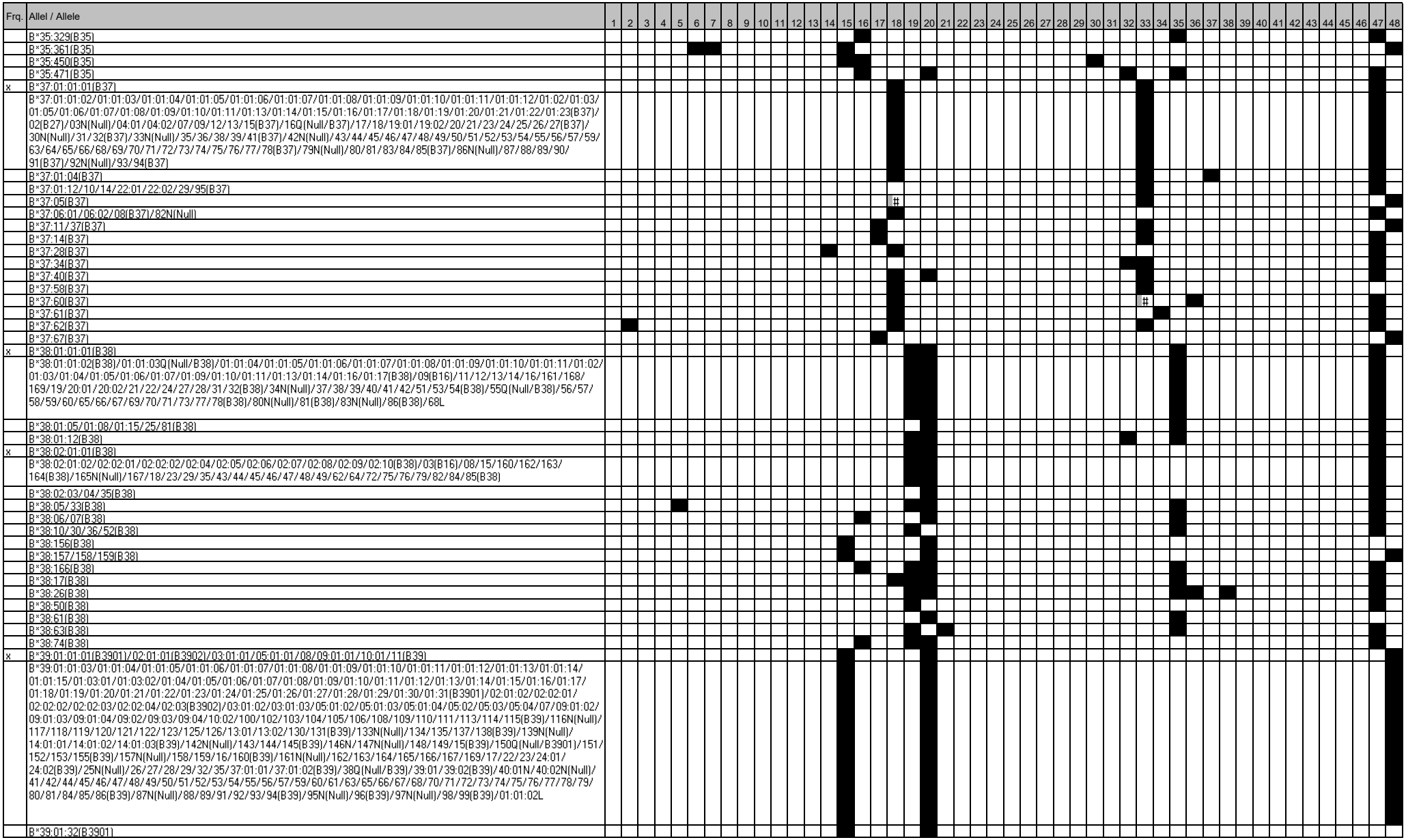

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	B*39:04/12:01:01/12:01:02(B39)					■										■					■																													
x	B*39:06:01(B39)															■					■																				■									
	B*39:06:02:01/06:02:02/06:02:03/06:02:04/06:02:05/06:02:06/06:02:07/06:03/06:04/06:06/127/132/140/141/154/57/62/64/90(B39)															■					■																				■									
	B*39:06:05(B39)																				■																				■									
	B*39:101/31:01:01/31:01:02(B39)														■	■					■																													
	B*39:107/112/136/156/18/30/33/36/43/82(B39)															■																																	
	B*39:124/168/20(B39)																				■																													
	B*39:128(B39)														■	■																																		
	B*39:129(B39)					■										■					■																				■									
	B*39:19:01/19:02(B39)															■		■			■																													
	B*39:34(B39)															■					■																				■									
	B*39:58(B39)															■	■				■																													
	B*39:69(B39)															■					■												■																	
	B*39:83:01/83:03(B39)															■	■				■																													
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x	B*40:01:01/07(B60)																					■									■																	
	B*40:01:02:01/01:02:02/01:02:03/01:02:04/01:02:06/01:02:07/01:02:08/01:02:09/01:02:10/01:02:11/01:02:12/01:02:13/01:02:14/01:02:15/01:02:16/01:02:17/01:02:18/01:02:19/01:02:20/01:02:21/01:02:22/01:02:23/01:02:24/01:02:25/01:02:26/01:02:27/01:02:28/01:02:29/01:02:30/01:02:31/01:02:32/01:02:33/01:02:34/01:02:35/01:02:36/01:02:37/01:02:38/01:03:01/01:03:02/01:04/01:07/01:08/01:09/01:10/01:11/01:12/01:13/01:14/01:15/01:16/01:17/01:18/01:19/01:21/01:22/01:23/01:24/01:25/01:26/01:27/01:28/01:29/01:30/01:31/01:32/01:33/01:34/01:35/01:36/01:37/01:38/01:39/01:40/01:41/01:42/01:43/01:44/01:45/01:46/01:47/01:48/01:49/01:50/01:52/01:53/01:54/01:55/01:56/01:57/01:58/01:59/01:60/01:61/01:62/01:63/01:64/01:65/01:66/01:67/01:68/01:69/01:70(B60)/101/102/106/108/112/113/116(B40)/118N(Null)/123/124:01/124:02/125:02/126/128/132/134/135/138/139/140/141/146/147/149/150/151/152/153/154(B40)/155:01N/155:02N(Null)/156/160:01/160:02/168/170/171/172/175/179/182/186:01/186:02/187/191/192/193/194/195/196/197/198/199/204/207/210/212/213/215(B40)/216N(Null)/217/218/221/222/223/227/228(B40)/22N(Null)/233/234/235/236/237/238/239/240/241/242/245/247/249/25/250/251/252/253/257/258/259/260/261/262(B40)/263N(Null)/264/272/273/277/278/279/280/282(B40)/286N(Null)/288/298:01/298:02/299/30/300/301(B40)/31(B60)/310/312/315/316/319/321/324/325/326/327/329/33/332/333(B40)/338N(Null)/339(B40)/34(B60)/346/353:02/357/358/36/360/367/368/370/377/379/38/380/381/382/383/385/386/391/392/393/395/397/401/402/403/404/406/407/416/417/418/419/42(B40)/421Q(Null/B40)/422/424(B40)/428N(Null)/43/431/433/436/439/443/446/447/448/450/452/456/461/463(B40)/48(B60)/49(B40)/52/54(B60)/55/59/60/61/62/63/65/66/67/69/72:01/72:02/73/74/76/77/79/80/81/84/87:01/87:02/88(B40)																					■									■																	
	B*40:01:02:05(B60)/353:01(B40)															■						■									■																	
	B*40:01:05(B60)/12:02(B48)/208(B40)/265N(Null)/344(B40)																					■																											
	B*40:01:06(B60)																					■									■																■			
	B*40:01:20/01:51(B60)/02:05(B61)/103/104/105/107/114:01:01/114:01:02/114:02/115/120/121/125:01/127/130:01/130:02/131(B40)/133Q(Null/B40)/136/145/158/159/162/163/164/165/167/169/173/174/176/177/178/180/184/189/190/200/203/205/206/211/219/220/224/225:01/226/230/231/232/243/244/246/248(B40)/256N(Null)/274/275/276/283/285/287/289(B40)/291N(Null)/293/294/295/297/306/307/311/313/317/318/322/330/335/336(B40)/337N(Null)/341/342/343/348/349/351/352/354/359(B40)/361N(Null)/363/364/366/373/374/376/378/380/388/396/398/40/400/457/51(B40)/53(B61)/83/98(B40)																					■									■																	

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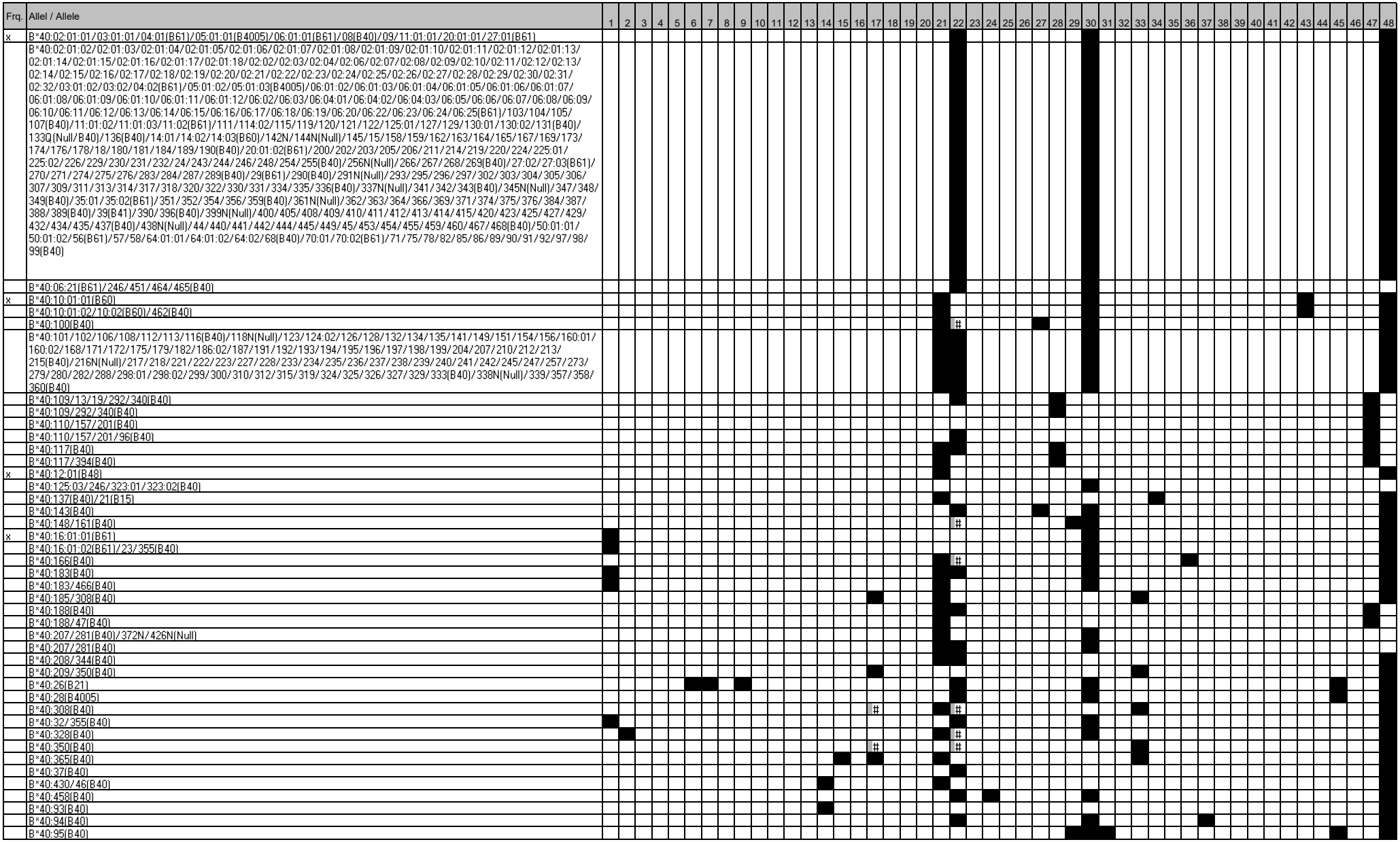

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x	B*41:01:01:01(B41)																							■							■										■								■
	B*41:01:01:02/01:01:03/01:01:04/01:01:05/01:02/01:03/01:04/01:05/01:06/01:07/05/06/07/09/12/14/16/20/22/25/26/28/29/30/32/33/34/35/37/44/50/53/54(B41)/56Q(Null/B41)/57/59/61/64/66(B41)																					■							■										■								■
x	B*41:02:01:01/03:01(B41)																							■							■										■								■
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	B*41:02:09(B41)																							■							■										■								■
	B*41:04/18/51/52/63(B41)																														■																		■
	B*41:21(B41)																														■																		■
	B*41:46(B41)																							■					■																					
	B*41:60(B41)																																							■								■	
x	B*42:01:01:01(B42)															■								■													■		■									■
	B*42:01:01:02/01:02/01:03/01:04/05:01/05:02/06/08/10/12/13/14/19/20/21/22/23/25(B42)/28															■								■													■		■									■
x	B*42:02:01:01(B42)														■	■								■													■		■									■
	B*42:02:01:02/02:02/17/18/27(B42)														■	■								■													■		■									■
	B*42:04(B42)															■								■													■		■									■
	B*42:07/11/24(B42)															■								■															■		■								■
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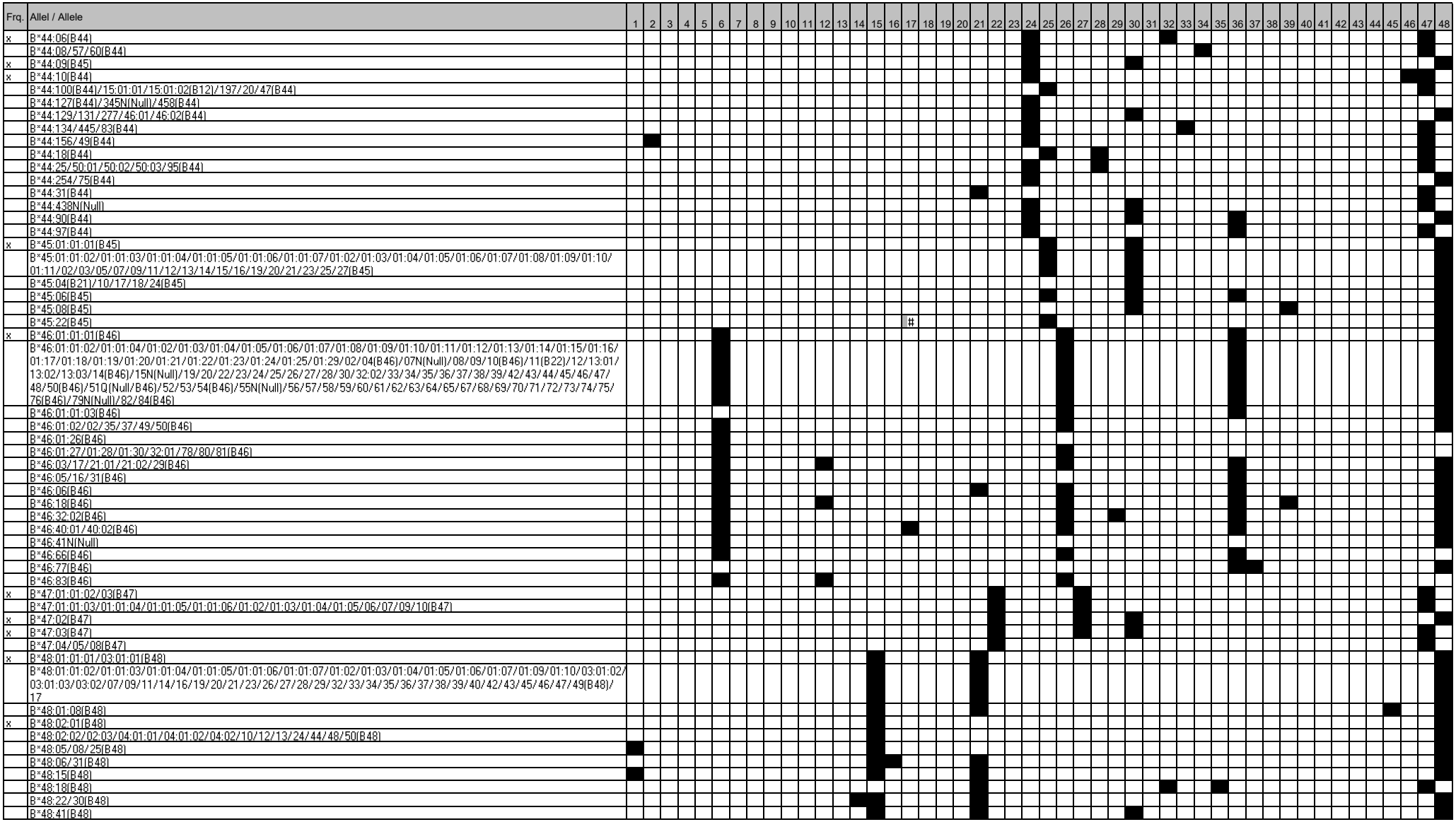
	B*42:16/20(B42)															■								■													■		■									■
	B*42:18(B42)														■	■								■													■											■
	B*42:24(B42)															■								■																	■								■
	B*42:26(B42)														■	■	■							■																									■
x	B*44:02:01:01/03:01:01/04/05:01:01/10(B44)																								■																							■	
	B*44:02:01:02S(Null)/02:01:03/02:01:04/02:01:05/02:01:06/02:01:07/02:01:08/02:01:09/02:01:10/02:01:11/02:01:12(B44)/02:01:13Q(Null/B44)/02:01:14/02:01:15/02:01:16/02:01:17/02:01:18/02:01:19/02:01:20/02:01:21/02:01:22/02:01:23/02:01:24/02:01:25/02:01:26/02:01:27/02:01:28/02:01:29/02:01:30/02:01:31/02:01:32/02:01:33/02:01:34/02:01:35/02:01:36/02:01:37/02:01:38/02:01:39/02:01:40/02:01:41/02:01:42/02:01:43/02:01:44/02:01:45/02:02/02:03/02:04/02:05/02:06/02:07/02:09/02:10/02:11/02:12/02:13/02:14/02:15/02:16/02:17/02:18/02:19/02:20/02:21/02:22/02:23/02:24/02:25/02:26/02:27/02:28/02:29/02:30/02:31/02:32/02:35/02:36/02:37/02:38/02:39/02:40/02:41/02:42/02:43/02:44/02:45/02:46/02:47/02:48/02:49/02:50/02:51/02:52/02:53/02:54/02:55/02:56/02:57/02:58/02:60/02:61/02:62/02:63/02:64/02:65/02:66/02:67/02:68/03:01:02/03:01:03/03:01:04/03:01:05/03:01:06/03:01:07/03:01:08/03:01:09/03:01:10/03:01:11/03:01:12/03:01:13/03:01:14/03:01:15/03:01:16/03:01:17/03:01:18/03:01:19/03:01:20/03:01:21/03:01:22/03:01:23/03:01:24/03:01:25/03:01:26/03:01:27/03:01:28/03:01:29/03:01:30/03:01:31/03:01:32/03:01:33/03:01:34/03:01:35/03:01:36/03:01:37/03:02:01/03:02:02/03:03/03:04/03:05/03:06/03:07/03:08/03:09/03:10/03:11/03:12/03:13/03:14/03:15/03:16/03:18/03:19/03:20/03:21/03:22/03:23/03:24/03:25/03:26/03:27/03:28/03:32/03:33/03:34/03:35/03:36/03:37/03:38/03:39/03:40/03:42/03:43/03:44/03:46/03:47/03:48/03:49/03:50/03:51/03:52/03:53/03:54/03:55/03:56/03:57/03:58/05:01:02/05:01:03/05:01:04/05:02/05:03/05:04/07/102/103/104/105/107(B44)/108N(Null)/109/11/110/111/112/113/114/115/116/117/118/119/12/120/121/122/123/124/125/126:01/126:02/13/130/133/136/137/139/14/140/141/142/143/144/145/146/147/148(B44)/149N(Null)/151/152/153/154/155/157(B44)/160Q(Null/B44)/161/162/163:02/164/165/167/168/169/17/170(B44)/171N(Null)/172/173/174/175/176/177/178/179/180/181/182/183/185/186:02/187/188/189/191/192:01/192:02/192:03/194/196(B44)/198N(Null)/199(B44)/19N(Null)/200/201/202/204:02/205:01/205:02/206/207/208/209/21/210:02/211/212/214/215/216(B44)/217N(Null)/218/219/22/220/221/222/223/224/225/229(B44)/23:01:01N/23:01:02N(Null)/24/241/242/243/244/245/247/248/249/250/251/253/255/256/257/258/259/26/260/261/262/263/264/265/266:02(B44)/267N(Null)/269/27:01:01/27:01:02/27:02/27:03/270:01/270:02/278/279/28:01/28:02/280/281:01/281:02/282/286/287/288/289/29/291/292/293/294/295/296/298/30/301/302(B44)/303N(Null)/304/305(B44)/306N(Null)/307/308(B44)/309N/310N(Null)/311/312/313/315/316/318/319/32/320/321/322/323/324/325/326/327(B44)/328N(Null)/329/33/330/331/332(B44)/333N/334N(Null)/335/336/337/338/34:01/34:02/340(B44)/341N(Null)/342/343/344/346/35/36/38/39/40/43:01/43:02/437/439/44/441/442/443/444/446/447(B44)/448N/449N(Null)/45/450/451/452/453/455/456/457/460/461/462/463/464:01:01/464:01:02/465/467/468/469/470/471/472/473/474/476/477/478/479/48(B44)/480Q(Null/B44)/481/482/484/485/486/487/489/490/491/492/493/494/495/496/51(B44)/52N(Null)/53:01/53:02/55(B44)/56N/58N(Null)/59:01/59:02(B44)/61N(Null)/62/63/66/67/68/69:01/69:02/70/71/72/73/74/76/77/78/79:01/79:02/80/81/84:01/84:02/85/86/87/88/89/92/93/94/96/98(B44)/483																								■																							■	
	B*44:02:08/02:33/02:34/03:17/03:29/03:30/03:31/03:41/03:45/101/106/128:01/128:02/132/135(B44)/138Q(Null/B44)/150/158/159(B44)/16(B47)/163:01/166/184/186:01/190/192:04/193(B44)/195N(Null)/203:01/203:02/204:01/210:01/213/226/227/228/230/231/232/233/234/235/236(B44)/237N(Null)/238/239/240/252/266:01/268/271/272/273/274/275/276/283/284/285/290/297/299/300(B44)/314N(Null)/317/339/37:01/37:02/41:01/41:02(B44)/42(B21)/440/454/459(B44)/466N(Null)/475/488/54/64:01/64:02/65/82/91/99(B44)																								■																							■	
	B*44:02:59(B44)																						■		■																							■	



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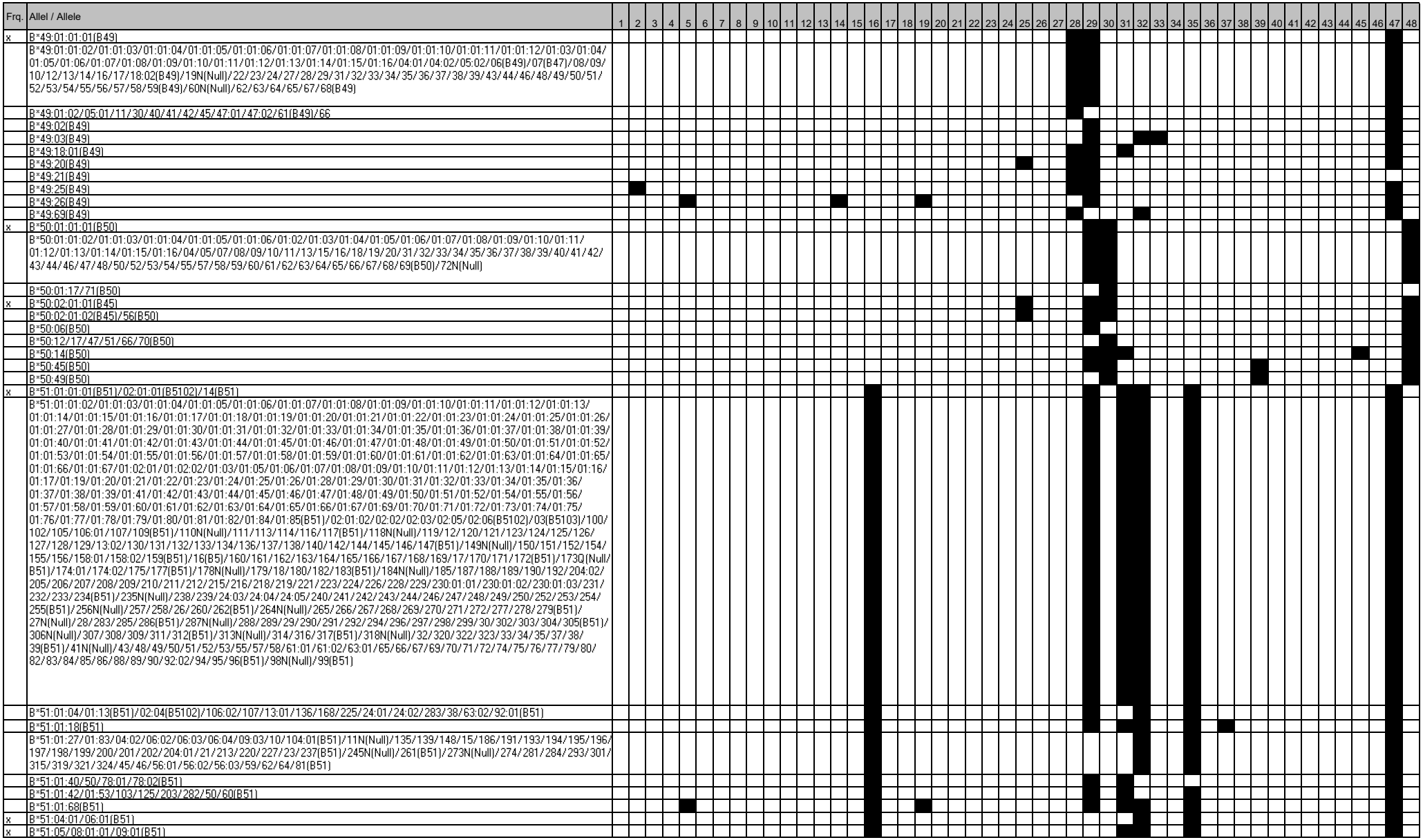

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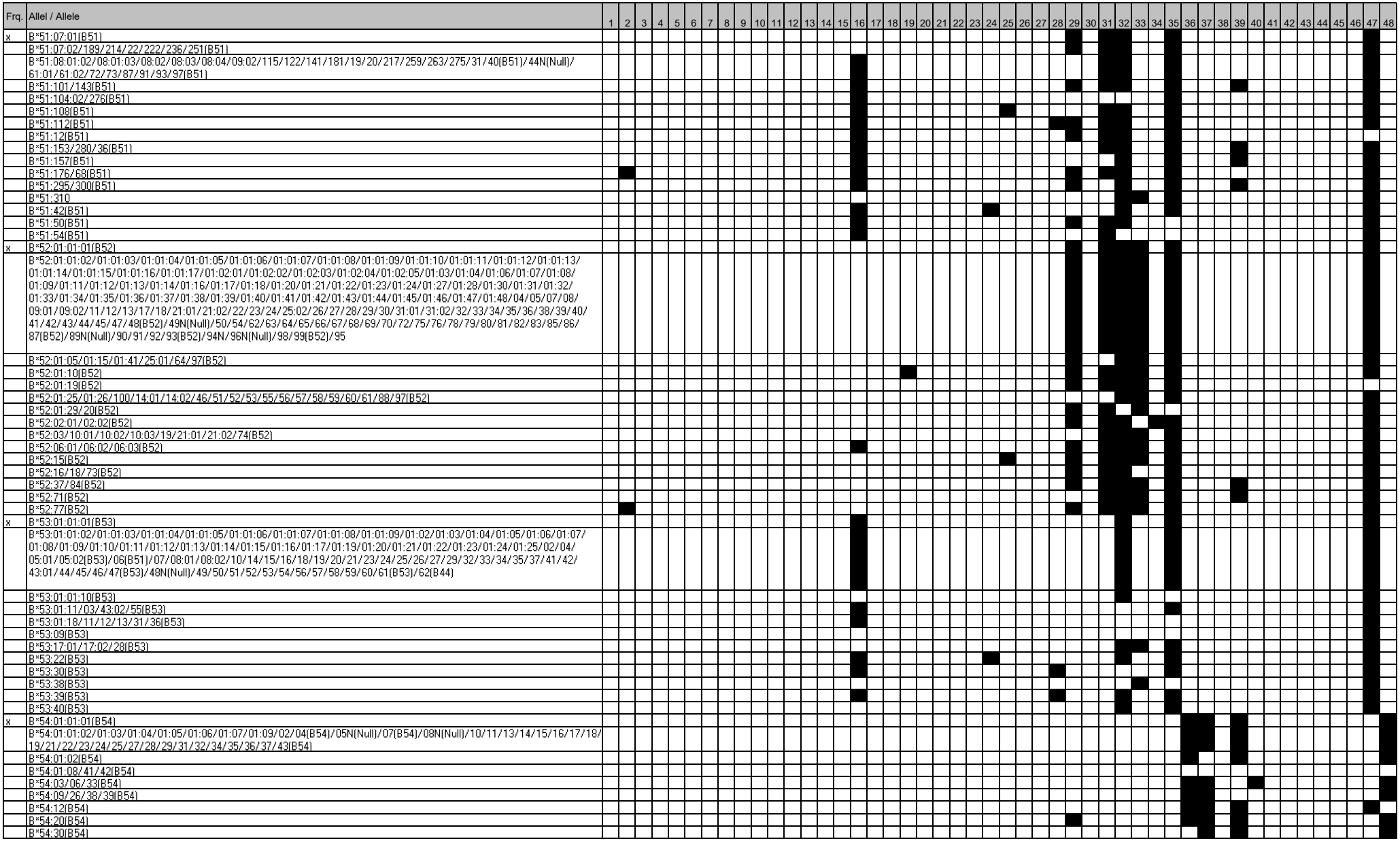

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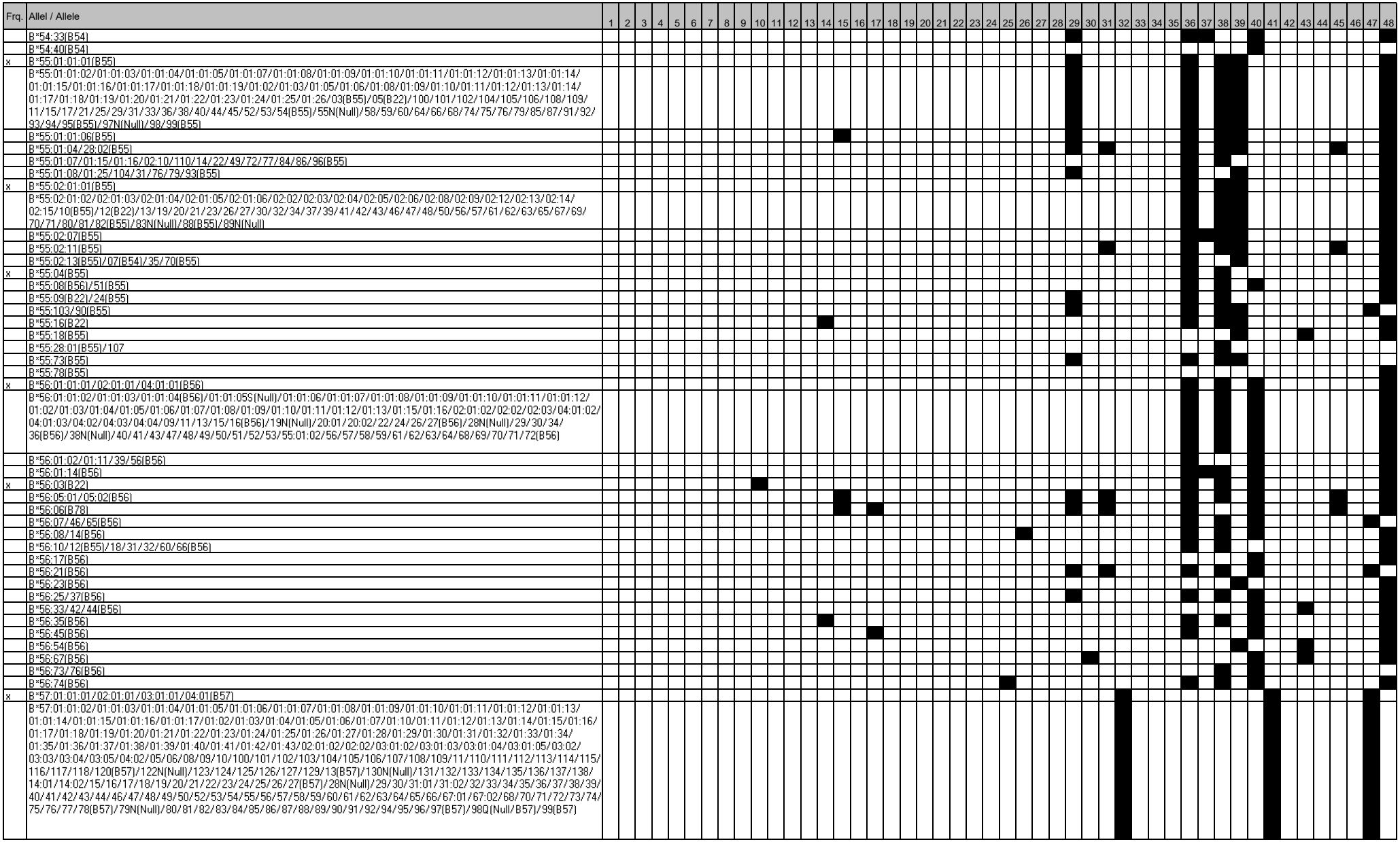

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Frq.	Allel / Allele	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
	B*57:01:01:02/01:08(B57)																																															
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	B*58:01:01:05(B58)																																															
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	B*81:08(B81)																																															
x	B*82:01:01:01(B82)																																															
	B*82:01:01:02/01:02/01:03/02:01:01/02:01:02/02:02(B82)																																															
	B*82:03/04(B82)																																															
	B*83:01																																															

#	manchmal schwache Amplifikation, sometimes weak amplification
x	häufige Allele, frequent alleles

Frequenzangaben / Frequencies

Quelle: Schreuder et. al.: The HLA Dicitionary 2004; Tissue Antigens 2005: 65: 1-55
Allele die in der Studie mit einer Häufigkeit von größer gleich 0,01% gefunden wurden sind in der Frequenzspalte als häufig markiert

Source: Schreuder et. al.: HLA Dicitionary 2004; Tissue Antigens 2005: 65: 1-55
Alleles that were found with an occurence higher or equal to 0,01% are marked in the frequency column

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