

## STR分析データベース・データ一覧 (1999年から2005年まで)

細胞のクロスコンタミネーションを防止することを目的に作成したSTR分析データベースのデータ一覧を示す。データベースはMySQLで構築し、日常的な細胞バンク管理業務の一環としてSTR実験を実施して、下図に示したプログラムによりデータを入力する。このプログラムには元となる画像データも記録しており、Web上にも公開している。各ヒト培養細胞に関するデータは可能な限り全て公開して、利用者が自ら確認できるように配慮している。データ作成

成実験は1999年末から開始し、2004年までに収集したヒト細胞に関するデータの作成と入力はほぼ完了した。その後、データを整備する目的もあり、研究者からの依頼を受けて解析していたが、移転を契機に受託業務を実施することが可能になったので、今年度末からは受託業務の一環として有償で実施する予定となっている。データ入力には右のプログラムで実施し、解析プログラムはJAVA等を使ってWEB上で実施できるようにした。細胞バンク利用者が分譲を依頼する際に事前に確認できるようにしている、また、ヒト培養細胞九百種あまりのSTRデータを公開している唯一のサイトである。

現在は9ローカスによる分析になっているが、将来ローカス数が増えても対応できるようにした。プログラムには設定用のルーチンが組まれており、分析ローカスの名称などを登録できるようにしている。また、比較検討用のプログラムは、比較ローカス数が異なる場合は少ないほうを基準に比較できるようにしてある。

入力画面でわかるようにデータの元になった図も取り込んで保存するようにしており、この図もWEB上で公開している。

### データの見方

次ページ以降に示したデータの読み方については、左からレコード番号、細胞番号、細胞名、ロット番号と4項目の細胞に関する基礎データがあり、その後ローカスごとのSTRデータが記録されている。ローカス名は鉤かっこにより「D5S818」のように示されるが、詳細はホームページを参照されたい。国際的な基準で記載されている。この鉤かっこのすぐ後ろにカンマで区切られて数字が並んでいるが、これがSTR分析によって検出されたピークの位置を示している。通常、二個ないし一個のピークが観察されるが、4個のピークが希に観察されることもある。通常の細胞では染色体は1対2本なので二個のピークが妥当だが、四個のピークがある理由は今後明らかにしなければならぬ疑問である。また、各細胞に関する詳細データは細胞番号を記憶しておいて、細胞バンクデータベースから検索すれば良い。文字による詳細データのほか、画像データや動画データを参照できる (<http://cellbank.nibio.go.jp/> CellIDを開く)。

### (データの例)

細胞番号	細胞名	ロット番号	D5S818	D13S317	D7S820	D16S539	VWA	TH01	AM	TPOX	CSF1PO
73	IF050079	Flow7000	335 <D5S818>9, 13	<D13S317>12	<D7S820>9, 12	<D16S539>10, 12	<VWA>15, 17	<TH01>8	<AM>X	<TPOX>8, 11	<CSF1PO>9, 11

934	934	細胞番号	細胞名	ロット番号	D5S818	D13S317	D7S820	D16S539	VWA	TH01	AM	TPOX	CSF1PO
1	01F050300	Miz-1	684	<D5S818>10, 12	<D13S317>11	<D7S820>10, 11	<D16S539>9	<VWA>17, 18	<TH01>7, 9	<AM>X, Y	<TPOX>9, 11	<CSF1PO>10, 11	
2	01F050316	RMG-11	729	<D5S818>12	<D13S317>8, 12	<D7S820>11	<D16S539>9, 10	<VWA>17, 18	<TH01>6, 7	<AM>X	<TPOX>11	<CSF1PO>10	
3	04CR0223	MKN28, 6TG	11389	<D5S818>10	<D13S317>8, 12	<D7S820>11, 12	<D16S539>10	<VWA>14, 16	<TH01>6, 9	<AM>X, Y	<TPOX>8	<CSF1PO>10, 13	
4	CCL-2	HeLa S3	atcc_web	<D5S818>11, 12	<D13S317>13, 3	<D7S820>8, 12	<D16S539>9, 10	<VWA>16, 18	<TH01>7	<AM>X	<TPOX>8, 12	<CSF1PO>9, 10	
5	CCL-171	MRO-5	original	<D5S818>11, 12	<D13S317>11, 14	<D7S820>9, 11	<D16S539>9, 11	<VWA>15	<TH01>8	<AM>X, Y	<TPOX>8	<CSF1PO>11, 12	
6	CCL-243	K-562	atcc0000	<D5S818>11, 12	<D13S317>8	<D7S820>9, 11	<D16S539>11, 12	<VWA>16	<TH01>9, 3	<AM>X	<TPOX>8, 9	<CSF1PO>9, 10	
7	CHB0001	HSY	8122004	<D5S818>11	<D13S317>12, 13, 3	<D7S820>9, 10	<D16S539>9, 10	<VWA>16, 18	<TH01>7	<AM>X	<TPOX>8, 12	<CSF1PO>9	
8	CHB0002	HSG-AZA3	7162004	<D5S818>11	<D13S317>12, 13, 3	<D7S820>8, 12	<D16S539>9, 10	<VWA>16, 18, 19	<TH01>7	<AM>X	<TPOX>8, 12	<CSF1PO>9	
9	CHB0003	HSG-AZA1	7162004	<D5S818>11	<D13S317>12, 13, 3	<D7S820>8, 12	<D16S539>9, 10	<VWA>16, 18, 19	<TH01>7	<AM>X	<TPOX>8, 12	<CSF1PO>9	
10	CHB0004	HSG	7092004	<D5S818>11	<D13S317>12, 13, 3	<D7S820>8, 12	<D16S539>9, 10	<VWA>16, 18, 19	<TH01>7	<AM>X	<TPOX>8, 12	<CSF1PO>9	
11	ORL1572	PA-1	ATCCdata	<D5S818>11	<D13S317>9, 10	<D7S820>9	<D16S539>9, 12	<VWA>15, 17	<TH01>7, 9	<AM>X	<TPOX>11	<CSF1PO>9, 12	
12	CRL2266	SH-SY5Y	atcc	<D5S818>12	<D13S317>11	<D7S820>7, 10	<D16S539>8, 13	<VWA>14, 18	<TH01>7, 10	<AM>X	<TPOX>8, 11	<CSF1PO>11	
13	CRL2271	SK-N-BE(2)	atcc	<D5S818>12	<D13S317>11	<D7S820>9, 10	<D16S539>8, 11	<VWA>18	<TH01>6, 7	<AM>X, Y	<TPOX>8, 11	<CSF1PO>10	
14	CRL8024	PLC/PRF/5	ATCC	<D5S818>12	<D13S317>11, 12	<D7S820>8, 11	<D16S539>13	<VWA>15, 16	<TH01>8	<AM>X	<TPOX>8	<CSF1PO>10	
15	DNA173	HeLa, P3	82587	<D5S818>11, 12	<D13S317>12, 13, 3	<D7S820>8, 12	<D16S539>9, 10	<VWA>16, 18	<TH01>7	<AM>X	<TPOX>8, 12	<CSF1PO>9, 10	
16	FDS0007	NEO15	92190	<D5S818>10, 11	<D13S317>11, 14	<D7S820>10, 11	<D16S539>11	<VWA>15, 16	<TH01>7, 9	<AM>X	<TPOX>8	<CSF1PO>11, 12	
17	FDS00010	MKN7	51289	<D5S818>9, 13	<D13S317>8, 12	<D7S820>9, 11	<D16S539>9, 10	<VWA>17	<TH01>7, 9	<AM>X	<TPOX>9	<CSF1PO>10, 13	
18	FDS00011	MKN28	12042002	<D5S818>11	<D13S317>11	<D7S820>9	<D16S539>9, 11	<VWA>16, 20	<TH01>6	<AM>X	<TPOX>8, 11	<CSF1PO>12	
19	FDS00011	MKN28	xxxxxx	<D5S818>12, 13	<D13S317>9	<D7S820>10, 11	<D16S539>11	<VWA>16, 18	<TH01>6, 7, 10	<AM>X	<TPOX>8, 11	<CSF1PO>	
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21	FDS00025	SKG-11	92190	<D5S818>6, 12	<D13S317>9, 12	<D7S820>9, 13	<D16S539>12	<VWA>15, 17	<TH01>9	<AM>X	<TPOX>11	<CSF1PO>11, 12, 14	
22	FDS00026	SKG-11lb	52890	<D5S818>10, 11	<D13S317>12	<D7S820>10, 12	<D16S539>9, 11	<VWA>16	<TH01>6, 9	<AM>X	<TPOX>8, 11	<CSF1PO>11, 12	
23	FDS00027	RMG-1	72990	<D5S818>12	<D13S317>12	<D7S820>11	<D16S539>9, 10	<VWA>17, 18	<TH01>6, 7	<AM>X	<TPOX>11	<CSF1PO>10	
24	FDS00028	RMG-1	81391	<D5S818>11	<D13S317>14	<D7S820>10, 12	<D16S539>10, 12	<VWA>15, 17	<TH01>7	<AM>X	<TPOX>8	<CSF1PO>10	
25	FDS00029	SHG-11	32190	<D5S818>12	<D13S317>8	<D7S820>11	<D16S539>11	<VWA>16, 18	<TH01>9	<AM>X	<TPOX>8, 9	<CSF1PO>12	
26	FDS00030	SHG-M	32190	<D5S818>9, 13	<D13S317>8, 10, 11	<D7S820>10, 11, 12	<D16S539>10, 12	<VWA>16, 17, 18, 20	<TH01>6, 7	<AM>X	<TPOX>8, 9	<CSF1PO>11, 12	
27	FDS00033	RKN	31490	<D5S818>10, 12	<D13S317>8, 9	<D7S820>8, 10	<D16S539>11	<VWA>16, 17	<TH01>6	<AM>X	<TPOX>8, 11	<CSF1PO>11, 12	
28	FDS00034	GAK	10122001	<D5S818>10	<D13S317>9, 13	<D7S820>11	<D16S539>12	<VWA>15, 18	<TH01>7	<AM>X	<TPOX>8, 9	<CSF1PO>10	
29	FDS00038	Lu-134-B	50990	<D5S818>11	<D13S317>9	<D7S820>11	<D16S539>9	<VWA>16, 17	<TH01>9	<AM>X	<TPOX>11	<CSF1PO>12	
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32	FDS00052	NGC-1T-A3	51490	<D5S818>10, 13	<D13S317>11	<D7S820>10	<D16S539>8, 12	<VWA>14, 18	<TH01>7, 9	<AM>X	<TPOX>8	<CSF1PO>10, 12	
33	GANKEN01	MKN28	test snp	<D5S818>11	<D13S317>11	<D7S820>9	<D16S539>9, 11	<VWA>16, 20	<TH01>6	<AM>X, Y	<TPOX>8, 11	<CSF1PO>12	
34	GANKEN02	U251	test snp	<D5S818>11, 12	<D13S317>10, 11	<D7S820>10, 12	<D16S539>12	<VWA>16, 18	<TH01>9, 3	<AM>X, Y	<TPOX>8	<CSF1PO>11, 12, 13	
35	GANKEN03	MKN45	test snp	<D5S818>10, 11	<D13S317>8, 11	<D7S820>10, 11	<D16S539>10	<VWA>14, 18, 19	<TH01>7	<AM>X	<TPOX>8	<CSF1PO>12	
36	GANKEN04	MKN74	test snp	<D5S818>11	<D13S317>11	<D7S820>9	<D16S539>9, 11	<VWA>16, 20	<TH01>6	<AM>X	<TPOX>8, 11	<CSF1PO>12	
37	GANKEN05	JHH-1	0	<D5S818>11, 13	<D13S317>8, 10	<D7S820>9, 10	<D16S539>8, 13	<VWA>16, 17	<TH01>7	<AM>X	<TPOX>8, 11	<CSF1PO>12, 13	
38	HSR00024	KIRC-20	2072003	<D5S818>9, 11	<D13S317>8	<D7S820>10, 11	<D16S539>9, 11	<VWA>14, 17	<TH01>7, 9	<AM>X	<TPOX>11	<CSF1PO>10, 12	
39	HSR00034	TCC-PAN2	1032003	<D5S818>11, 13	<D13S317>8	<D7S820>8, 11	<D16S539>11	<VWA>17	<TH01>6, 7	<AM>X	<TPOX>11, 12	<CSF1PO>12	
40	HSR00035	SUIT-2	1102003	<D5S818>11, 12	<D13S317>9, 11	<D7S820>9, 11	<D16S539>9	<VWA>16, 17	<TH01>6	<AM>X	<TPOX>8, 10	<CSF1PO>11, 12	
41	HSR00036	KYSE140	1272003	<D5S818>10	<D13S317>12	<D7S820>10, 11	<D16S539>10, 12	<VWA>14	<TH01>7, 9	<AM>X	<TPOX>8	<CSF1PO>13	
42	HSR00037	KYSE150	1272003	<D5S818>12, 13	<D13S317>8, 11	<D7S820>10	<D16S539>8, 11	<VWA>16, 17	<TH01>7, 9	<AM>X	<TPOX>8	<CSF1PO>12, 13	
43	HSR00038	KYSE110	1272003	<D5S818>10, 13	<D13S317>8	<D7S820>9, 11	<D16S539>9	<VWA>18, 19	<TH01>9	<AM>X, Y	<TPOX>8	<CSF1PO>10, 11	

44	HSR00043	CPT-K5	5202003	<D5S818>11, 12, 13	<D13S317>10, 12	<D7S820>9, 12, 14	<D16S539>10, 14	<VWA>18, 20	<TH01>6, 7	<AM>X	<TP0X>8	<CSFIPO>9, 10, 11, 12
45	HSR00044	OCUM-6	2072003	<D5S818>10, 14, 15	<D13S317>8	<D7S820>12, 13	<D16S539>10, 11	<VWA>18	<TH01>8, 9, 3	<AM>X	<TP0X>8, 11	<CSFIPO>9, 12
46	HSR00044	OCUM-6	8072003	<D5S818>10, 14, 15	<D13S317>8	<D7S820>12, 13	<D16S539>10, 11	<VWA>18	<TH01>8, 9, 3	<AM>X	<TP0X>8, 11	<CSFIPO>9, 12
47	HSR00045	OCUM-11	7072003	<D5S818>10, 14	<D13S317>8, 12	<D7S820>12, 13	<D16S539>10, 11	<VWA>18	<TH01>9, 3	<AM>X	<TP0X>8, 11	<CSFIPO>9, 12
48	HTB-11	SK-N-SH	atcc	<D5S818>12	<D13S317>11	<D7S820>7, 10	<D16S539>8, 13	<VWA>14, 18	<TH01>7, 10	<AM>X	<TP0X>8, 11	<CSFIPO>11
49	IF050004	WISH	10	<D5S818>11, 12	<D13S317>13, 3	<D7S820>8, 12	<D16S539>9, 10	<VWA>16, 18	<TH01>7	<AM>X	<TP0X>8, 12	<CSFIPO>9, 10
50	IF050005	J-111	12	<D5S818>11, 12	<D13S317>12, 13, 3	<D7S820>8, 12	<D16S539>9, 10	<VWA>16, 18	<TH01>7	<AM>X	<TP0X>8, 12	<CSFIPO>9, 10
51	IF050007	Ca Ski	15	<D5S818>13	<D13S317>8, 12	<D7S820>8, 11	<D16S539>11, 12	<VWA>17	<TH01>7	<AM>X	<TP0X>8	<CSFIPO>10
52	IF050009	G-361	18	<D5S818>11	<D13S317>11	<D7S820>8, 11	<D16S539>15	<VWA>15, 17	<TH01>7, 9	<AM>X	<TP0X>8, 10	<CSFIPO>10
53	IF050011	HeLa S3	4052004	<D5S818>11	<D13S317>12, 13, 3	<D7S820>8, 12	<D16S539>9, 10	<VWA>17, 18	<TH01>7	<AM>X	<TP0X>8, 12	<CSFIPO>9, 10
54	IF050013	RPMI 8226	25	<D5S818>11, 13	<D13S317>11	<D7S820>9, 10	<D16S539>9	<VWA>16, 18	<TH01>8	<AM>X, Y	<TP0X>8, 11	<CSFIPO>12
55	IF050016	Chang Liver	328	<D5S818>11, 12	<D13S317>12, 13, 3	<D7S820>8, 12	<D16S539>9, 10	<VWA>16, 18	<TH01>7	<AM>X	<TP0X>8, 12	<CSFIPO>9, 10
56	IF050022	HL-60	1055	<D5S818>12	<D13S317>8, 11	<D7S820>11, 12	<D16S539>11	<VWA>16	<TH01>8	<AM>X	<TP0X>8, 11	<CSFIPO>13, 14
57	IF050025	IMR-9	44	<D5S818>13	<D13S317>9, 11	<D7S820>11, 12	<D16S539>9, 13	<VWA>14, 17	<TH01>6, 9, 3	<AM>X, Y	<TP0X>11	<CSFIPO>10, 11
58	IF050028	CGRF-SB	45	<D5S818>11, 12	<D13S317>10, 12	<D7S820>11, 12	<D16S539>13	<VWA>15	<TH01>9, 10	<AM>X, Y	<TP0X>8	<CSFIPO>10, 12
59	IF050028	EB-3	48	<D5S818>8, 13	<D13S317>11, 12	<D7S820>8, 10	<D16S539>10, 12	<VWA>15, 17	<TH01>6, 7	<AM>X, Y	<TP0X>8, 11	<CSFIPO>12
60	IF050037	RPMI 1788	56	<D5S818>12, 13	<D13S317>11, 13	<D7S820>10, 12	<D16S539>10, 13	<VWA>18, 19	<TH01>6, 9, 3	<AM>X	<TP0X>8, 9	<CSFIPO>10
61	IF050038	U-937	331	<D5S818>12	<D13S317>10, 12	<D7S820>9, 11	<D16S539>12	<VWA>14, 15	<TH01>6, 9, 3	<AM>X	<TP0X>8, 11	<CSFIPO>12
62	IF050039	NC-37	58	<D5S818>10, 13	<D13S317>13	<D7S820>10	<D16S539>8, 11	<VWA>16, 19	<TH01>6, 7	<AM>X, Y	<TP0X>8, 13	<CSFIPO>10, 12
63	IF050040	NamaIwa	59	<D5S818>12, 13	<D13S317>11, 12	<D7S820>11	<D16S539>9	<VWA>14	<TH01>7, 9, 3	<AM>X	<TP0X>6, 11	<CSFIPO>10, 11
64	IF050043	WiDr	84	<D5S818>11, 12	<D13S317>11, 12	<D7S820>10	<D16S539>11, 12	<VWA>17, 19	<TH01>6, 9	<AM>X	<TP0X>8, 9	<CSFIPO>11, 12
65	IF050046	Raji	53	<D5S818>10, 13	<D13S317>13	<D7S820>10	<D16S539>8, 11	<VWA>16, 19	<TH01>6, 7	<AM>X, Y	<TP0X>8, 13	<CSFIPO>10, 12
66	IF050071	LoVo	93	<D5S818>11, 13	<D13S317>8, 11	<D7S820>9, 3, 10, 11	<D16S539>9, 12	<VWA>17, 18	<TH01>9, 3	<AM>X, Y	<TP0X>8, 9	<CSFIPO>11, 13, 14
67	IF050069	AlexanderCells 2272004		<D5S818>12	<D13S317>11, 12	<D7S820>9, 11	<D16S539>13	<VWA>15, 16	<TH01>7, 8	<AM>X	<TP0X>8	<CSFIPO>10
68	IF050072	MRC-9	181	<D5S818>12, 13	<D13S317>8, 11	<D7S820>10, 11	<D16S539>12	<VWA>16, 17	<TH01>6, 8	<AM>X	<TP0X>11	<CSFIPO>12
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71	IF050075	WI-38	1053	<D5S818>10	<D13S317>11	<D7S820>9, 11	<D16S539>11, 12	<VWA>19, 20	<TH01>8, 9, 3	<AM>X	<TP0X>8	<CSFIPO>10, 12
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73	IF050079	Flow7000	335	<D5S818>9, 13	<D13S317>12	<D7S820>9, 12	<D16S539>10, 12	<VWA>15, 17	<TH01>8	<AM>X	<TP0X>8, 11	<CSFIPO>9, 11
74	IF050079	Flow7000	335, 16d	<D5S818>11, 12	<D13S317>12, 13, 3	<D7S820>8, 12	<D16S539>9, 10	<VWA>16, 18	<TH01>7	<AM>X	<TP0X>8, 12	<CSFIPO>9, 10
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76	IF050079	Flow7000	336, 14d	<D5S818>11, 12	<D13S317>12, 13, 3	<D7S820>8, 12	<D16S539>9, 10	<VWA>16, 18	<TH01>7	<AM>X	<TP0X>8, 12	<CSFIPO>9, 10
77	IF050079	Flow7000	336, 7d	<D5S818>11, 12	<D13S317>12, 13, 3	<D7S820>8, 12	<D16S539>9, 10	<VWA>15, 16, 17, 18	<TH01>7, 8	<AM>X	<TP0X>8, 11, 12	<CSFIPO>9, 10
78	IF050089	Flow2000	421	<D5S818>10, 12	<D13S317>11, 12	<D7S820>10	<D16S539>9, 11	<VWA>15, 17	<TH01>8, 9, 3	<AM>X	<TP0X>8, 9	<CSFIPO>10, 11
79	IF050106	HOS	239	<D5S818>13	<D13S317>12	<D7S820>11, 12	<D16S539>10, 13	<VWA>18	<TH01>6	<AM>X	<TP0X>8, 11	<CSFIPO>12
80	IF050107	G-292 clone---	241	<D5S818>12, 13	<D13S317>8, 14	<D7S820>9	<D16S539>12	<VWA>14	<TH01>6	<AM>X	<TP0X>8	<CSFIPO>11, 12
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82	IF050151	MEG-01	322	<D5S818>13	<D13S317>8	<D7S820>11	<D16S539>9	<VWA>16	<TH01>7	<AM>X, Y	<TP0X>8, 11	<CSFIPO>10
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84	IF050271	HUV-EC-C	1121	<D5S818>11, 12	<D13S317>8, 11	<D7S820>8, 12	<D16S539>11, 12	<VWA>16	<TH01>6, 9, 3	<AM>X	<TP0X>8, 11	<CSFIPO>11, 12
85	IF050276	A2058	1071	<D5S818>9, 12	<D13S317>13, 14	<D7S820>11	<D16S539>9, 13	<VWA>14, 18	<TH01>7, 9	<AM>X, Y	<TP0X>8	<CSFIPO>10, 11
86	IF050283	IMR-32	1058	<D5S818>11, 12	<D13S317>9	<D7S820>9, 10	<D16S539>8	<VWA>15	<TH01>7, 9, 3	<AM>X, Y	<TP0X>11	<CSFIPO>11, 12
87	IF050285	U-251 MG (KO)	1003	<D5S818>11	<D13S317>10, 11	<D7S820>10, 12	<D16S539>12	<VWA>16, 18	<TH01>9, 3	<AM>X	<TP0X>8	<CSFIPO>11, 12
88	IF050286	SF126	590	<D5S818>11	<D13S317>11	<D7S820>8, 10	<D16S539>9, 12	<VWA>14, 17	<TH01>6, 7	<AM>X	<TP0X>8, 11	<CSFIPO>12

89	IF050288	U-251 MG	11012001	<D5S818>11, 12	<D13S317>10, 11	<D7S820>10, 12	<D16S539>12	<VWA>16, 18	<TH01>9, 3	<AMP>X, Y	<TP0>X8	<GSF1PD>11, 12
90	IF050288	U-251 MG	598	<D5S818>11, 12	<D13S317>10, 11	<D7S820>10, 12	<D16S539>12	<VWA>16, 18	<TH01>9, 3	<AMP>X, Y	<TP0>X8	<GSF1PD>11, 12
91	IF050289	Becker	599	<D5S818>12	<D13S317>9	<D7S820>11	<D16S539>10, 14	<VWA>16, 17	<TH01>8, 9	<AMP>X, Y	<TP0>X8, 11	<GSF1PD>12, 13
92	IF050290	Marcus	600	<D5S818>11, 12	<D13S317>11	<D7S820>9, 11	<D16S539>12, 13	<VWA>17, 18	<TH01>9, 9.3	<AMP>X, Y	<TP0>X8, 11	<GSF1PD>12, 15
93	IF050294	HEG-01SSF	635	<D5S818>13	<D13S317>8	<D7S820>11	<D16S539>9	<VWA>16	<TH01>7, 8	<AMP>X, Y	<TP0>X8, 11	<GSF1PD>10, 11
94	IF050295	NB-1	678	<D5S818>9, 11	<D13S317>10, 13	<D7S820>8, 12	<D16S539>9	<VWA>16, 19	<TH01>7	<AMP>X	<TP0>X8, 11	<GSF1PD>10, 12
95	IF050297	HE-1	670	<D5S818>10, 13	<D13S317>11, 12	<D7S820>8, 10	<D16S539>9, 12	<VWA>14, 16	<TH01>8, 9	<AMP>X	<TP0>X8, 9	<GSF1PD>11, 12
96	IF050303	T986	687	<D5S818>10, 12	<D13S317>13	<D7S820>9, 10	<D16S539>13	<VWA>17, 20	<TH01>7, 9.3	<AMP>X, Y	<TP0>X8	<GSF1PD>10, 12
97	IF050308	SKG-I	727	<D5S818>12	<D13S317>10	<D7S820>10	<D16S539>10	<VWA>16, 18	<TH01>7	<AMP>X	<TP0>X8	<GSF1PD>12
98	IF050309	SKG-II	728	<D5S818>12	<D13S317>8	<D7S820>11	<D16S539>11	<VWA>16, 18	<TH01>7, 9	<AMP>X	<TP0>X8, 9	<GSF1PD>12
99	IF050310	SKG-IIIa	719	<D5S818>10, 11	<D13S317>12	<D7S820>10, 12	<D16S539>9, 11	<VWA>16	<TH01>6, 9	<AMP>X	<TP0>X8, 11	<GSF1PD>11, 12
100	IF050311	SKG-IIIb	720	<D5S818>10, 11	<D13S317>12	<D7S820>10, 12	<D16S539>9, 11	<VWA>16	<TH01>9	<AMP>X	<TP0>X8, 11	<GSF1PD>11, 12
101	IF050312	SNG-I	1117	<D5S818>6, 12	<D13S317>9, 12	<D7S820>9, 13	<D16S539>12, 13	<VWA>15, 16, 17	<TH01>9	<AMP>X	<TP0>X8, 11	<GSF1PD>11, 14
102	IF050312	SNG-II	721	<D5S818>6, 12	<D13S317>9, 12	<D7S820>9, 13	<D16S539>12, 13	<VWA>15, 16, 17	<TH01>9	<AMP>X	<TP0>X8, 11	<GSF1PD>11, 14
103	IF050313	SNG-III	1118	<D5S818>9, 13	<D13S317>8, 10, 11	<D7S820>10, 11	<D16S539>10, 11, 12	<VWA>17, 18, 20	<TH01>6, 7	<AMP>X	<TP0>X8, 9	<GSF1PD>11, 12
104	IF050313	SNG-III	722	<D5S818>9, 13	<D13S317>8, 10	<D7S820>10, 11	<D16S539>10, 12	<VWA>17, 18	<TH01>6, 7	<AMP>X	<TP0>X8, 9	<GSF1PD>11, 12
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108	IF050315	RNG-I	712	<D5S818>12	<D13S317>8, 12	<D7S820>11	<D16S539>9, 10	<VWA>17, 18	<TH01>6, 7	<AMP>X	<TP0>X8	<GSF1PD>10
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110	IF050317	RKN	724	<D5S818>10, 12	<D13S317>8, 9	<D7S820>8, 10	<D16S539>11	<VWA>17	<TH01>6	<AMP>X	<TP0>X8, 11	<GSF1PD>11, 12
111	IF050318	RTSG	725	<D5S818>6, 12	<D13S317>9, 12	<D7S820>9, 12, 13	<D16S539>12, 13, 15	<VWA>15, 16, 17	<TH01>9	<AMP>X	<TP0>X8, 11	<GSF1PD>11, 13
112	IF050318	RTSG	725	<D5S818>6, 12	<D13S317>9, 12	<D7S820>9, 12, 13	<D16S539>12, 13, 15	<VWA>15, 16, 17	<TH01>9	<AMP>X	<TP0>X8, 11	<GSF1PD>11, 13
113	IF050319	RTSG	725	<D5S818>6, 12	<D13S317>8, 9, 12	<D7S820>9, 11, 12, 13	<D16S539>12, 13, 14, 15	<VWA>15, 16, 17	<TH01>9	<AMP>X	<TP0>X8, 11	<GSF1PD>11, 13
114	IF050319	RNUG-L	730	<D5S818>6, 12, 13	<D13S317>8, 9, 11, 12	<D7S820>8, 9, 12, 13	<D16S539>12, 13, 14, 15	<VWA>15, 16, 17	<TH01>9	<AMP>X	<TP0>X8, 11	<GSF1PD>11, 13
115	IF050320	RNUG-S	731	<D5S818>10, 14	<D13S317>10, 11	<D7S820>12	<D16S539>10, 11	<VWA>14, 16	<TH01>9	<AMP>X	<TP0>X8, 11	<GSF1PD>12
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119	IF050344	SK-HG-1	6092004	<D5S818>11, 12	<D13S317>11	<D7S820>9	<D16S539>12, 13	<VWA>17	<TH01>9, 9.3	<AMP>X	<TP0>X8, 11	<GSF1PD>12, 15
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121	IF050354	HT-1080	828	<D5S818>11, 13	<D13S317>12, 14	<D7S820>9, 10	<D16S539>9, 12	<VWA>14, 19	<TH01>6	<AMP>X, Y	<TP0>X8	<GSF1PD>12
122	IF050355	ONS-76	825	<D5S818>9, 10	<D13S317>8, 13	<D7S820>11, 12	<D16S539>9, 10	<VWA>14, 16	<TH01>9	<AMP>X	<TP0>X8	<GSF1PD>10, 12
123	IF050356	KNS-42	834	<D5S818>12	<D13S317>8	<D7S820>8, 11	<D16S539>9, 12	<VWA>18, 19	<TH01>6	<AMP>X	<TP0>X8	<GSF1PD>10
124	IF050357	KNS-60	835	<D5S818>11	<D13S317>8	<D7S820>9, 12	<D16S539>10, 11	<VWA>15, 19	<TH01>7, 8	<AMP>X	<TP0>X8, 11	<GSF1PD>12
125	IF050358	KNS-62	836	<D5S818>9	<D13S317>11	<D7S820>11	<D16S539>9, 11	<VWA>17	<TH01>7, 9	<AMP>X	<TP0>X8	<GSF1PD>9, 12
126	IF050359	KNS-81	837	<D5S818>9, 12	<D13S317>9	<D7S820>11	<D16S539>10, 12	<VWA>17, 18	<TH01>7, 9	<AMP>X, Y	<TP0>X8, 11	<GSF1PD>9, 12
127	IF050360	KNS-89	875	<D5S818>11, 12	<D13S317>10, 11	<D7S820>10, 12	<D16S539>12	<VWA>16, 18	<TH01>9, 3	<AMP>X	<TP0>X8	<GSF1PD>11, 12
128	IF050361	B2-17	839	<D5S818>11, 12	<D13S317>10, 11	<D7S820>10, 12	<D16S539>12	<VWA>16, 18	<TH01>9, 3	<AMP>X	<TP0>X8	<GSF1PD>11, 12
129	IF050362	MOLT-4	762	<D5S818>12	<D13S317>12, 13	<D7S820>8, 10, 11	<D16S539>11, 14	<VWA>17, 18	<TH01>6, 8	<AMP>X, Y	<TP0>X8	<GSF1PD>11, 12, 13
130	IF050363	KU812	787	<D5S818>10	<D13S317>8	<D7S820>12	<D16S539>9	<VWA>15	<TH01>9	<AMP>X, Y	<TP0>X8, 12	<GSF1PD>12, 13
131	IF050368	no. 10	854	<D5S818>12, 13	<D13S317>12	<D7S820>8, 11	<D16S539>11	<VWA>17	<TH01>7, 9	<AMP>X, Y	<TP0>X8	<GSF1PD>12, 13
132	IF050369	no. 11	855	<D5S818>10, 11	<D13S317>8	<D7S820>11	<D16S539>11	<VWA>14, 17	<TH01>8	<AMP>X	<TP0>X8	<GSF1PD>10, 12
133	IF050411	A-431	880	<D5S818>12, 13	<D13S317>9, 13	<D7S820>10	<D16S539>12, 14	<VWA>15, 17	<TH01>9	<AMP>X	<TP0>X8, 11	<GSF1PD>11, 12

134	IF050412	CCRF-DEM	881	<D5S818>12, 13	<I3S317>11, 12	<D7S820>8, 13	<VWA>17, 19	<THO1>6, 7	<AMP>X	<TPO>X8	<GSFIPD>10, 11
135	IF050413	KP-N-VN	896	<D5S818>10, 11	<I3S317>8, 11	<D7S820>11, 13	<VWA>14, 17	<THO1>7, 9	<AMP>X, Y	<TPO>X8, 11	<GSFIPD>10, 12
136	IF050418	ASF-4-1	847	<D5S818>9, 10	<I3S317>11, 12	<D7S820>10, 11	<VWA>17, 18	<THO1>8, 9	<AMP>X, Y	<TPO>X11	<GSFIPD>10, 13
137	IF050419	ASF-4-2	848	<D5S818>9, 10	<I3S317>11, 12	<D7S820>10, 11	<VWA>17, 18	<THO1>8, 9	<AMP>X, Y	<TPO>X11	<GSFIPD>10, 13
138	IF050428	CWK-86	692	<D5S818>11, 12	<I3S317>11	<D7S820>11, 12	<VWA>18	<THO1>7	<AMP>X, Y	<TPO>X9, 11	<GSFIPD>11, 13
139	IF050430	CWK-11-5	694	<D5S818>11, 12	<I3S317>11	<D7S820>11, 12	<VWA>18	<THO1>7	<AMP>X, Y	<TPO>X9, 11	<GSFIPD>11, 13
140	IF050432	KP-N-RT-BM-1	897	<D5S818>10, 13	<I3S317>9, 12	<D7S820>10, 11	<VWA>17, 20	<THO1>6, 7	<AMP>X	<TPO>X8	<GSFIPD>11, 12
141	IF050433	KP-N-S19s	898	<D5S818>13	<I3S317>11, 14	<D7S820>8, 11	<VWA>17	<THO1>6	<AMP>X, Y	<TPO>X8, 11	<GSFIPD>10
142	IF050434	KALS-1	918	<D5S818>9	<I3S317>10	<D7S820>10, 12	<VWA>14, 17	<THO1>9	<AMP>X	<TPO>X8	<GSFIPD>9
143	IF050435	KINGS-1	919	<D5S818>11, 13	<I3S317>8	<D7S820>10, 12	<VWA>14, 17	<THO1>7, 9	<AMP>X, Y	<TPO>X8, 11	<GSFIPD>12
144	IF050436	KS-1	940	<D5S818>8, 12	<I3S317>11, 13	<D7S820>11	<VWA>14, 18	<THO1>6, 9	<AMP>X	<TPO>X8, 11	<GSFIPD>10, 12
145	IF050444	KMS-81-FD	948	<D5S818>9, 12	<I3S317>9	<D7S820>11	<VWA>17, 18	<THO1>7, 9	<AMP>X, Y	<TPO>X8, 11	<GSFIPD>9, 12
146	IF050467	NMC-61	563	<D5S818>12	<I3S317>11, 13	<D7S820>8, 12	<VWA>17, 18	<THO1>9, 9, 3	<AMP>X	<TPO>X8, 9	<GSFIPD>12
147	IF050473	MEG-01s	533	<D5S818>13	<I3S317>8	<D7S820>11	<VWA>16	<THO1>7, 8	<AMP>X, Y	<TPO>X8, 11	<GSFIPD>10, 11
148	IF050474	NOMO-1	390	<D5S818>11, 13	<I3S317>8, 10	<D7S820>8, 10	<VWA>17, 18	<THO1>6, 9	<AMP>X	<TPO>X8, 12	<GSFIPD>11, 12
149	IF050475	NOMO-1s	378	<D5S818>11, 13	<I3S317>8, 10	<D7S820>8, 10	<VWA>17, 18	<THO1>6, 9	<AMP>X	<TPO>X8, 12	<GSFIPD>11, 12
150	IF050476	NKM-1	920	<D5S818>10, 12	<I3S317>11, 13	<D7S820>10, 11	<VWA>17	<THO1>6, 9	<AMP>X	<TPO>X9, 11	<GSFIPD>10
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152	IF050478	MEG-A2	922	<D5S818>10, 11	<I3S317>8, 14	<D7S820>10, 12	<VWA>14	<THO1>9	<AMP>X	<TPO>X11	<GSFIPD>10, 12
153	IF050479	MAGL-1	1035	<D5S818>9, 11	<I3S317>8, 9	<D7S820>11, 12	<VWA>16, 17	<THO1>6, 7	<AMP>X	<TPO>X8, 11	<GSFIPD>10, 12
154	IF050482	CCD 841 CoN	832	<D5S818>12, 13	<I3S317>11, 13	<D7S820>12	<VWA>17	<THO1>7	<AMP>X, Y	<TPO>X11	<GSFIPD>11, 12
155	IF050483	CCD-35Co	833	<D5S818>11, 12	<I3S317>11	<D7S820>11, 13	<VWA>14, 18	<THO1>7, 8	<AMP>X	<TPO>X8, 10	<GSFIPD>10, 11
156	IF050488	OUMS-27	1086	<D5S818>10, 11	<I3S317>12	<D7S820>10, 12	<VWA>15, 16	<THO1>6, 9, 3	<AMP>X, Y	<TPO>X9, 11	<GSFIPD>10, 11
157	IF050489	GB-1	1089	<D5S818>10, 13	<I3S317>11	<D7S820>11, 12	<VWA>14	<THO1>9	<AMP>X	<TPO>X11	<GSFIPD>10, 12
158	IF050492	AM-38	961	<D5S818>12, 13	<I3S317>8	<D7S820>8, 12	<VWA>18	<THO1>6, 7	<AMP>X	<TPO>X8, 11	<GSFIPD>10, 11
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161	IF050516	TMD5	1150	<D5S818>9, 13	<I3S317>8	<D7S820>10, 11	<VWA>18	<THO1>6, 9	<AMP>X, Y	<TPO>X8, 11	<GSFIPD>10, 13
162	IF050518	KAI3	1139	<D5S818>11	<I3S317>8	<D7S820>10, 12	<VWA>17, 18	<THO1>8, 9	<AMP>X, Y	<TPO>X8, 11	<GSFIPD>12
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165	JCRB0006	HL6ORG	52092	<D5S818>12	<I3S317>8, 11	<D7S820>11, 12	<VWA>16	<THO1>8	<AMP>X	<TPO>X8, 11	<GSFIPD>13, 14
166	JCRB0006	HL6ORG	6052002	<D5S818>12	<I3S317>8, 11	<D7S820>11, 12	<VWA>16	<THO1>8	<AMP>X	<TPO>X8, 11	<GSFIPD>13, 14
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477	JCRB1047	OVSAYO	deposit	<D5S818>11, 12	<D13S317>8, 11	<D7S820>10, 12	<D16S539>9, 10	<VWA>17, 18	<TH01>7	<AM>X	<TP0X>9, 11	<CSF1P0>12
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482	JCRB1054	Hep G2	deposit	<D5S818>11, 12	<D13S317>9, 13	<D7S820>10	<D16S539>12, 13	<VWA>17	<TH01>9	<AM>X, Y	<TP0X>8, 9	<CSF1P0>10, 11
483	JCRB1055	XP30S (SVT)	deposit	<D5S818>10, 11	<D13S317>9, 11	<D7S820>11, 12	<D16S539>9, 12	<VWA>14, 16	<TH01>7	<AM>X	<TP0X>8, 11	<CSF1P0>10, 11
484	JCRB1056	CS20S (SVT)	deposit	<D5S818>13	<D13S317>8, 9	<D7S820>11	<D16S539>9	<VWA>16	<TH01>7	<AM>X, Y	<TP0X>11, 13	<CSF1P0>11, 12
485	JCRB1057	XP390STERT	deposit	<D5S818>11, 12	<D13S317>9, 11	<D7S820>11, 12	<D16S539>10, 12	<VWA>17, 18	<TH01>6, 7	<AM>X	<TP0X>8, 11	<CSF1P0>12
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790	NHSO291.5S	OJMS-36T-5F	1252002	<D5S818>10,12	<D13S317>8,11	<D7S820>11	<VWA>18,20	<TH01>6,9	<AMDX	<TPOX>8	<GSF1PO>12
791	NHSO291.6	OJMS-36T-6	1162003	<D5S818>10,12	<D13S317>8,11	<D7S820>11	<VWA>18,20	<TH01>6,9	<AMDX	<TPOX>8	<GSF1PO>12
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795	NHSO291.8	OJMS-36T-8	10022002	<D5S818>10,12	<D13S317>8,11	<D7S820>11	<VWA>18,20	<TH01>6,9	<AMDX	<TPOX>8	<GSF1PO>12
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802	NHSO295	U-373MG	3042002	<D5S818>11,12	<D13S317>10,11	<D7S820>10,12	<VWA>16,18	<TH01>9,3	<AMDX, Y	<TPOX>8	<GSF1PO>11,12
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804	NHSO296	OVI SE	2072003	<D5S818>10	<D13S317>11,12	<D7S820>11,12	<VWA>18	<TH01>9,9,3	<AMDX	<TPOX>8	<GSF1PO>9,11
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806	NHSO299	OVSAHO	depos it	<D5S818>12,13	<D13S317>8	<D7S820>8,10	<VWA>14	<TH01>6	<AMDX	<TPOX>8,11	<GSF1PO>10,12
807	NHSO300	OVSAYO	3182003	<D5S818>11,12	<D13S317>8,11	<D7S820>10,12	<VWA>17,18	<TH01>7	<AMDX	<TPOX>9,11	<GSF1PO>12
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809	NIHS0301	OVTOKO	deposit	<D5S818>11, 12	<D13S317>8, 12	<D7S820>9, 10	<D16S539>11, 12	<VWA>14, 17	<TH01>6, 9, 3	<AMP>X	<TPOX>8, 12	<CSFIPO>12
810	NIHS0302	OVMIU	3142003	<D5S818>11, 12	<D13S317>8, 11	<D7S820>10, 12	<D16S539>9, 10	<VWA>17, 18	<TH01>7	<AMP>X	<TPOX>9, 11	<CSFIPO>12
811	NIHS0302	OVMIU	deposit	<D5S818>11, 12	<D13S317>8, 11	<D7S820>10, 12	<D16S539>9, 10	<VWA>17, 18	<TH01>7	<AMP>X	<TPOX>9, 11	<CSFIPO>12
812	NIHS0308	XP400STERT	deposit	<D5S818>10, 14	<D13S317>8, 9	<D7S820>10, 12	<D16S539>10, 12	<VWA>17, 18	<TH01>9	<AMP>X, Y	<TPOX>8	<CSFIPO>12
813	NIHS0309	CS2AWTERT	deposit	<D5S818>11, 13	<D13S317>10, 12	<D7S820>11	<D16S539>9, 10	<VWA>14, 17	<TH01>7, 10	<AMP>X	<TPOX>11	<CSFIPO>10, 13
814	NIHS0311	BSZCHTERT	deposit	<D5S818>11, 13	<D13S317>8, 10	<D7S820>8, 12	<D16S539>10, 11	<VWA>16, 19	<TH01>7, 9	<AMP>X	<TPOX>8, 11	<CSFIPO>11, 12
815	NIHS0313	OUS-11	8122002	<D5S818>10, 11	<D13S317>10, 11	<D7S820>10, 11	<D16S539>10	<VWA>14, 17	<TH01>7	<AMP>X, Y	<TPOX>8, 11	<CSFIPO>10, 11
816	NIHS0314	Kasumi-6	9242002	<D5S818>11	<D13S317>8, 12	<D7S820>9, 11	<D16S539>9, 10	<VWA>17	<TH01>6, 9	<AMP>X, Y	<TPOX>8, 9	<CSFIPO>10, 12
817	NIHS0315	IRC-1	10022002	<D5S818>10, 11	<D13S317>12	<D7S820>11, 12	<D16S539>9, 13	<VWA>17	<TH01>7, 9	<AMP>X	<TPOX>9, 11	<CSFIPO>11, 13
818	NIHS0322	IRC-2	10242002	<D5S818>7, 10	<D13S317>10, 13	<D7S820>10, 11	<D16S539>9, 10	<VWA>16, 17	<TH01>9	<AMP>X	<TPOX>8, 11	<CSFIPO>11, 12
819	NIHS0324	IKN28 nigata	12032002	<D5S818>11	<D13S317>11	<D7S820>9	<D16S539>9, 11	<VWA>16, 20	<TH01>6	<AMP>X	<TPOX>8, 11	<CSFIPO>12
820	NIHS0325	IKN28 unknown	12062002	<D5S818>11	<D13S317>11	<D7S820>9	<D16S539>9, 11	<VWA>16, 19, 20	<TH01>6	<AMP>X	<TPOX>8, 11	<CSFIPO>12
821	NIHS0327	OUMS-24/P6X	deposit	<D5S818>11	<D13S317>12	<D7S820>12	<D16S539>10, 11	<VWA>16, 19	<TH01>8, 9	<AMP>X	<TPOX>8, 12	<CSFIPO>11, 12
822	NIHS0328	PA-1/6TG-r	deposit	<D5S818>11	<D13S317>8, 10	<D7S820>9	<D16S539>9, 12	<VWA>15, 17	<TH01>7, 9	<AMP>X	<TPOX>11	<CSFIPO>9, 12
823	NIHS0329	JHH-1	deposit	<D5S818>11, 13	<D13S317>8, 10	<D7S820>9, 10	<D16S539>9, 13	<VWA>17	<TH01>7	<AMP>X	<TPOX>8, 11	<CSFIPO>12, 13
824	NIHS0329	JHH-1	deposit	<D5S818>11, 13	<D13S317>8, 10	<D7S820>9	<D16S539>9, 13	<VWA>17	<TH01>7	<AMP>X	<TPOX>8, 11	<CSFIPO>12, 13
825	NIHS0331	H5G6-C5	10062003	<D5S818>11	<D13S317>12, 13, 3	<D7S820>8, 12	<D16S539>9, 10	<VWA>16, 18, 19	<TH01>7	<AMP>X	<TPOX>8, 12	<CSFIPO>9
826	NIHS0331	H5G6-C5	10062003	<D5S818>11	<D13S317>12, 13, 3	<D7S820>8, 12	<D16S539>9, 10	<VWA>16, 18, 19	<TH01>7	<AMP>X	<TPOX>8, 12	<CSFIPO>9
827	NIHS0331	H5G6-C5	deposit	<D5S818>11	<D13S317>12, 13, 3	<D7S820>8, 12	<D16S539>9, 10	<VWA>16, 18, 19	<TH01>7	<AMP>X	<TPOX>8, 12	<CSFIPO>9
828	NIHS0331	H5G6-C5	deposit	<D5S818>11	<D13S317>12, 13, 3	<D7S820>8, 12	<D16S539>9, 10	<VWA>16, 18, 19	<TH01>7	<AMP>X	<TPOX>8, 12	<CSFIPO>9
829	NIHS0331	H5G6-C5	deposit	<D5S818>11	<D13S317>12, 13, 3	<D7S820>8, 12	<D16S539>9, 10	<VWA>16, 18, 19	<TH01>7	<AMP>X	<TPOX>8, 12	<CSFIPO>9
830	NIHS0331	H5G6-C5	deposit	<D5S818>11	<D13S317>12, 13, 3	<D7S820>8, 12	<D16S539>9, 10	<VWA>16, 18, 19	<TH01>7	<AMP>X	<TPOX>8, 12	<CSFIPO>9
831	NIHS0331	H5G6-C5	deposit2	<D5S818>11	<D13S317>12, 13, 3	<D7S820>8, 12	<D16S539>9, 10	<VWA>16, 18, 19	<TH01>7	<AMP>X	<TPOX>8, 12	<CSFIPO>9
832	NIHS0332	FU97	deposit	<D5S818>10, 12	<D13S317>10, 12	<D7S820>11	<D16S539>9, 11	<VWA>17	<TH01>9	<AMP>X	<TPOX>12	<CSFIPO>12
833	NIHS0333	IM95	deposit	<D5S818>9, 11	<D13S317>10, 12	<D7S820>9, 3	<D16S539>9, 10	<VWA>17, 18, 19	<TH01>6, 10	<AMP>X	<TPOX>8, 10	<CSFIPO>11
834	NIHS0334	IM95m	deposit	<D5S818>9, 11	<D13S317>10, 12	<D7S820>9, 3	<D16S539>9, 10	<VWA>17, 18	<TH01>6, 10	<AMP>X	<TPOX>8, 10	<CSFIPO>11
835	NIHS0335	MS-3	deposit	<D5S818>10, 13	<D13S317>10, 12	<D7S820>9, 10	<D16S539>12, 13	<VWA>15	<TH01>8, 9	<AMP>X	<TPOX>11	<CSFIPO>11, 12
836	NIHS0338	OYISE	deposit	<D5S818>10	<D13S317>11, 12	<D7S820>11, 12	<D16S539>9	<VWA>18	<TH01>9, 9, 3	<AMP>X	<TPOX>8	<CSFIPO>9, 11
837	NIHS0339	OKATE	deposit	<D5S818>9, 13	<D13S317>12	<D7S820>10, 12	<D16S539>9	<VWA>18	<TH01>9	<AMP>X	<TPOX>8, 11	<CSFIPO>12
838	NIHS0340	OYMANA	deposit	<D5S818>13	<D13S317>8, 9	<D7S820>10, 11	<D16S539>10	<VWA>15, 16	<TH01>7, 9	<AMP>X	<TPOX>8, 11	<CSFIPO>12, 13
839	NIHS0341	OVSAYO	deposit	<D5S818>12, 13	<D13S317>8	<D7S820>8, 10	<D16S539>9	<VWA>14	<TH01>6	<AMP>X	<TPOX>8, 11	<CSFIPO>10, 12
840	NIHS0342	OVSAYO	deposit	<D5S818>11, 12	<D13S317>8, 11	<D7S820>10, 12	<D16S539>9, 10	<VWA>17, 18	<TH01>7	<AMP>X	<TPOX>9, 11	<CSFIPO>12
841	NIHS0343	OVTOKO	deposit	<D5S818>11, 12	<D13S317>8, 12	<D7S820>9, 10	<D16S539>11, 12	<VWA>14, 17	<TH01>6, 9, 3	<AMP>X	<TPOX>8, 12	<CSFIPO>12
842	NIHS0344	OVMIU	deposit	<D5S818>11, 12	<D13S317>8, 11	<D7S820>10, 12	<D16S539>9, 10	<VWA>17, 18	<TH01>7	<AMP>X	<TPOX>9, 11	<CSFIPO>12
843	NIHS0345	OVMIU-11	deposit	<D5S818>13	<D13S317>14	<D7S820>13, 14	<D16S539>11	<VWA>14	<TH01>9	<AMP>X	<TPOX>9, 11	<CSFIPO>12
844	NIHS0346	KYSE-170	deposit	<D5S818>11, 12, 13	<D13S317>9	<D7S820>11, 12	<D16S539>9, 10	<VWA>16, 17	<TH01>7, 9	<AMP>X	<TPOX>11	<CSFIPO>10, 12, 13
845	NIHS0347	KYSE-180	deposit	<D5S818>8, 11	<D13S317>9, 12	<D7S820>9, 12	<D16S539>9, 10	<VWA>16, 17	<TH01>7	<AMP>X	<TPOX>11	<CSFIPO>12, 13
846	NIHS0349	KMIF-1	deposit	<D5S818>12, 13	<D13S317>8	<D7S820>11, 12	<D16S539>10, 11	<VWA>14, 16	<TH01>6, 7	<AMP>X	<TPOX>8, 11	<CSFIPO>9, 11
847	NIHS0350	KMIRF-A1	deposit	<D5S818>10, 11	<D13S317>10, 13	<D7S820>8	<D16S539>9, 13	<VWA>16, 17	<TH01>6, 9	<AMP>X	<TPOX>8	<CSFIPO>11, 12
848	NIHS0351	KMRC-21	deposit	<D5S818>11, 13	<D13S317>10	<D7S820>10, 11	<D16S539>9, 13	<VWA>15, 20	<TH01>7, 9, 3	<AMP>X, Y	<TPOX>11	<CSFIPO>11, 12
849	NIHS0352, 0	HARA	deposit	<D5S818>12	<D13S317>9	<D7S820>12	<D16S539>10	<VWA>16, 17	<TH01>7	<AMP>X, Y	<TPOX>8, 9	<CSFIPO>13
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851	NIHS0353	MS-1-L	deposit	<D5S818>12, 13	<D13S317>9, 12	<D7S820>11	<D16S539>9, 11	<VWA>14, 19	<TH01>8, 9, 3	<AMP>X	<TPOX>8	<CSFIPO>10, 13
852	NIHS0364	KYSE200	deposit	<D5S818>10, 13	<D13S317>8	<D7S820>9, 11	<D16S539>9	<VWA>18, 19	<TH01>9, 10	<AMP>X, Y	<TPOX>8	<CSFIPO>10
853	NIHS0365	KYSE220	deposit	<D5S818>11	<D13S317>8, 9	<D7S820>12	<D16S539>11	<VWA>18	<TH01>9	<AMP>X	<TPOX>11	<CSFIPO>10