

File S1. The cell line authentication of HeLa, *GJC1* KO-HeLa, A549, and *GJA1* KO-A549 cells. Korean Cell Line Bank analyzed the STR profile of the cells using STR kit described below.



STR Profile Results

Sample	D8S1179	D21S11	D7S820	CSF1PO	D3S1358	TH01	D13S317	D16S539
HeLa (ATCC CCL-2)	12,13	27,28	8,12	9,10	15,18	7	12,14	9,10
HeLa	12,13	27,28	8,12	9,10	15,18	7	12,14	9,10
HeLa-Cx45KO	12,13	27,28	8,12	9,10	15,18	7	12,14	9,10
A549 (ATCC CCL-185)	13,14	29	8,11	10,12	16	8,9,3	11	11,12
A549	13,14	29	8,11	10,12	16	8,9,3	11	11,12
A549-Cx43KO	13,14	29	8,11	10,12	16	8,9,3	11	11,12

Sample	D2S1338	D19S433	Vwa	TPOX	D18S51	Amelogenin	D5S818	FGA
HeLa (ATCC CCL-2)	17	13,14	16,18	8,12	16	X	11,12	18,21
HeLa	17	13,14	16,18	8,12	16	X	11,12	18,21
HeLa-Cx45KO	17	13,14	16,18	8,12	16	X	11,12	18,21
A549 (ATCC CCL-185)	24	13	14	8,11	14,17	X,Y	11	23
A549	24	13	14	8,11	14,17	X,Y	11	23
A549-Cx43KO	24	13	14	8,11	14,17	X,Y	11	23

STR Kit : AmpliFLSTR identifier PCR Amplification kit (Applied Biosystems, Foster, CA, cat.432288)

Analysis Methods : 3530xL DNA Analyzer (Applied Biosystems, Foster, CA)

: GeneMapper v5 (Applied Biosystems, Foster, CA)

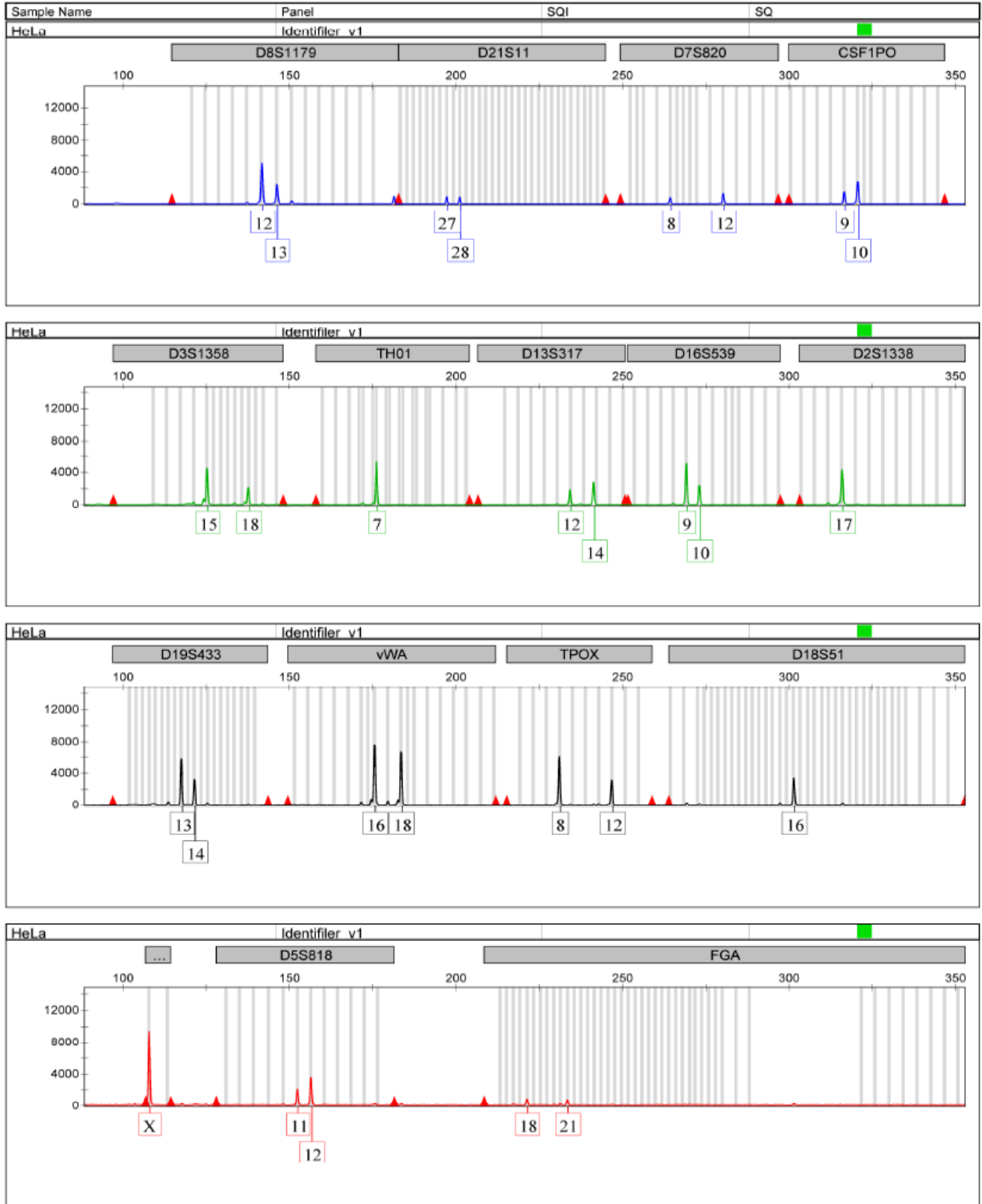
The Fingerprinting of cell lines by 'AmpliFLSTR identifier PCR Amplification kit' was tested on July 29, 2020.

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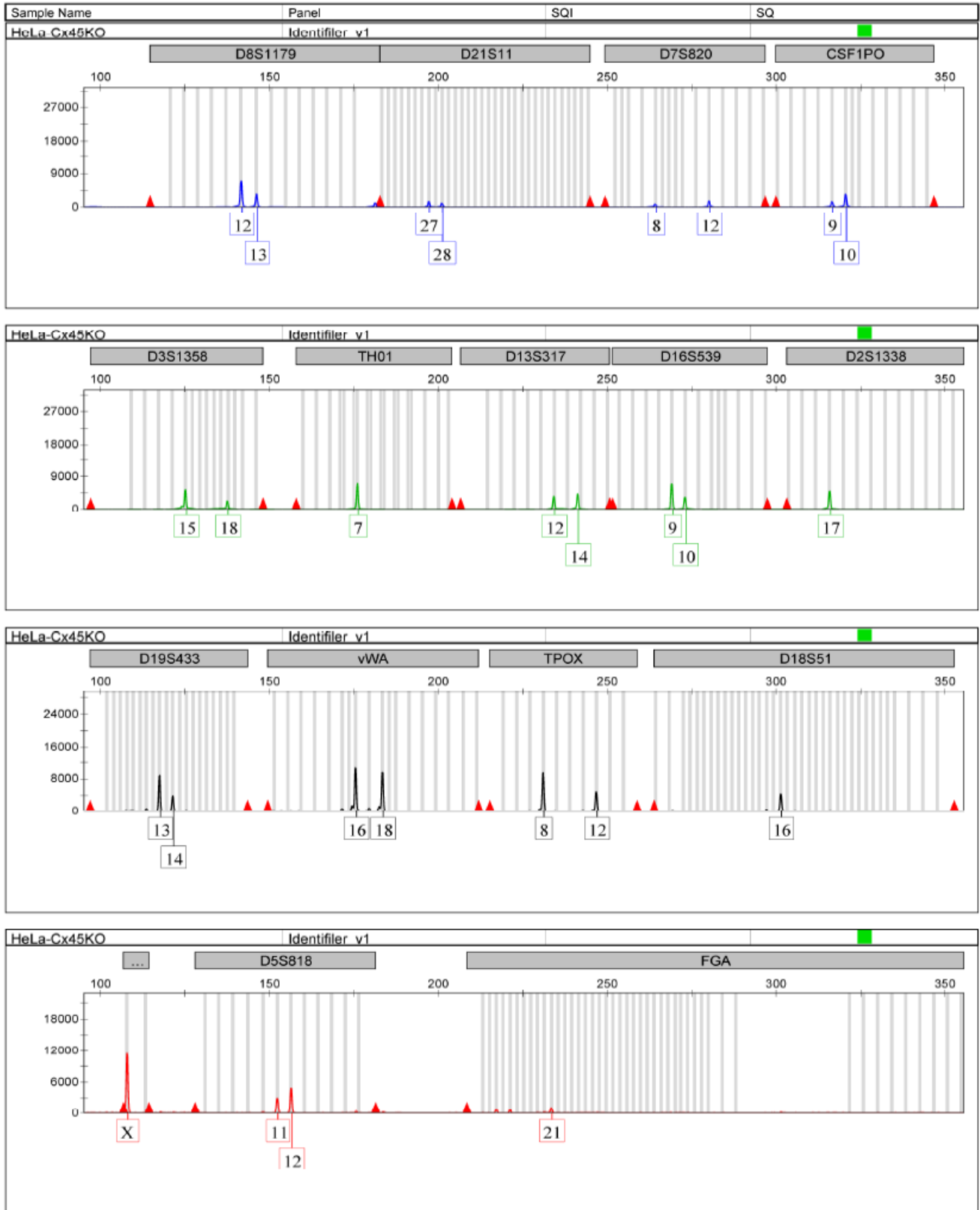
HeLa_STR results

2020.07.29



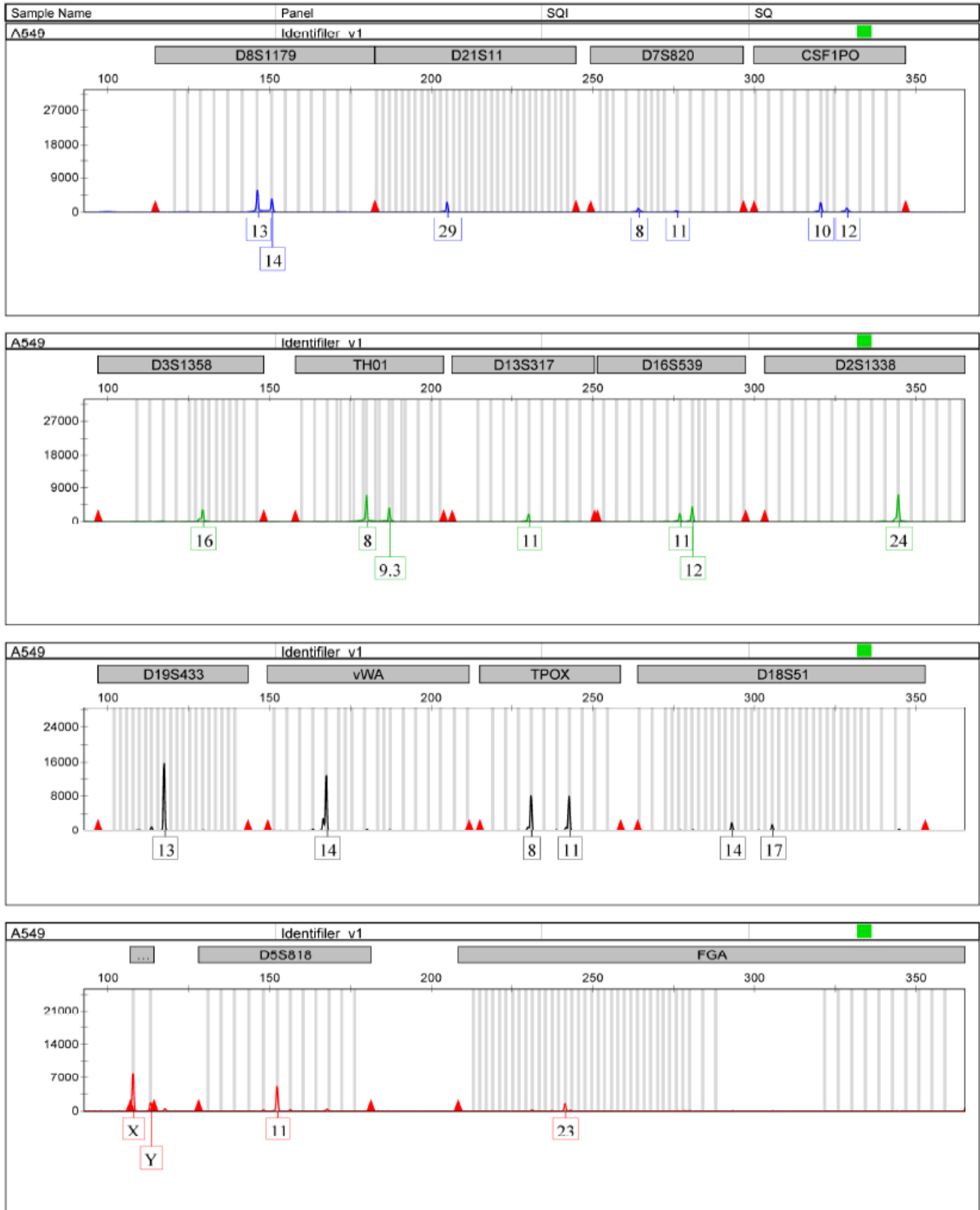
HeLa-Cx45KO_STR results

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A549_STR results

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A549_Cx43KO_STR results

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