

GT AZFScreen Plus

Cat No. GT-11302



A kit for the Detection of Y Chromosome Microdeletions and Klinefelter Syndrome

Product Features

- ✓ Multiplex amplification of 28 markers (16 Sequence Tagged Sites (STS), 4 Segmental Duplication (SD) and 8 X chromosome-specific (STR) markers) in one reaction.
- ✓ GT AZFScreen Plus markers are designed in accordance with European Molecular Genetics Quality Network (EMQN) guidelines.
- ✓ Four SD markers, Y/X b, AMXY, 7/X and 18/X are included for screening Klinefelter Syndrome.
- ✓ The eight STR markers, DXS10101, DXS10146, DXS7423, DXF8SU6, DXS7132, DXS10079, DXS981, DXS8378 aid the detection of Klinefelter Syndrome.
- ✓ Analyzed using 5-dye capillary electrophoresis system.
- ✓ Compatible with Applied Biosystems™ 310, 3130/xl, 3500/xl and SeqStudio platforms.
- ✓ Applicable on DNA extracted from blood or blood on DNA Banking Card (DBC™) or from diluted blood using GT Blood Lysis Buffer (GT BLB).
- ✓ The GT AZFScreen Plus kit comes in two boxes, providing all the necessary reagents for multiplex PCR amplification as well as GT500 Size Standard and GTM5 Matrix Standard for genetic analysis using capillary electrophoresis.

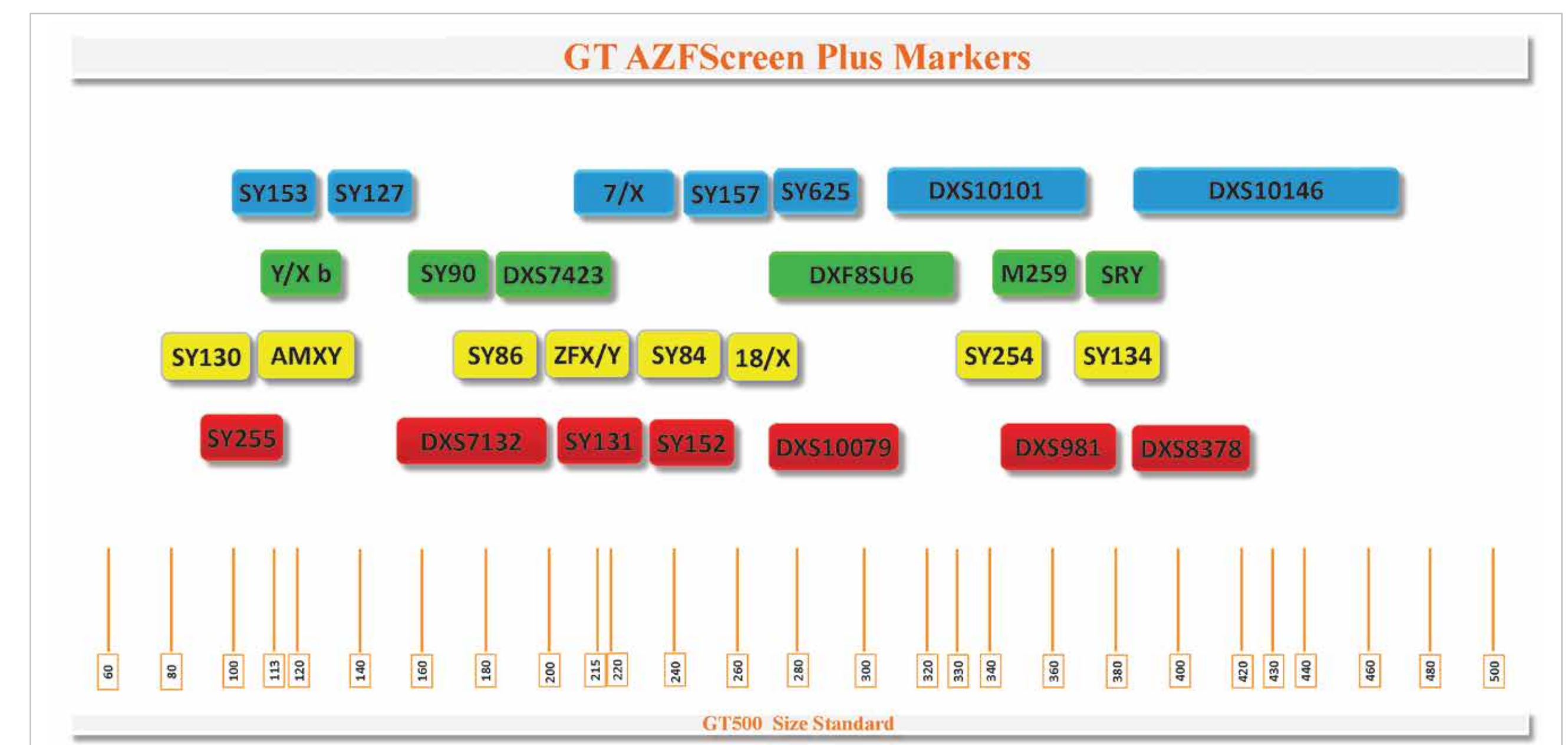


Figure 1. Map of GT AZFScreen Plus markers

Table 1. Details on the 28 markers included in the GT AZFScreen Plus kit

No.	Markers/Dyes	Chromosome	Size Range	Chr. Location
1	SY153 (AZFd)	Y	100-120	Yq11.223
2	SY127 (AZFb)	Y	125-145	Yq11.223
3	7X	7, X	210-243	7q34 Xq13.3
4	SY157 (AZFc)	Y	250-267	Yq11.223
5	SY625(AZFa)	Y	272-292	Yq11.221
6	DXS10101	X	315-375	Xq26.3
7	DXS10146	X	385-470	Xq28
8	Y/X b	Y, X	110-130	Yp11.2 Xq21.31
9	SY90	Y	150-170	Yq11.221
10	DXS7423	X	176-215	Xq28
11	DXF8SU6	X	279-320	Xq28
12	M259 (AZFa)	Y	340-360	Yq11.221
13	SRY(SY14)	Y	375-395	Yp11.2
14	SY130 (AZFb)	Y	80-100	Yq11.223
15	AMXY	X,Y	105-125	Xp22.2 Yp11.2
16	SY86 (AZFa)	Y	170-190	Yq11.221
17	ZFX/Y	X,Y	191-211	Xp22.11 Yp11.2
18	SY84 (AZFa)	Y	220-240	Yq11.221
19	18X	18, X	241-270	18q12.1 Xq21.1
20	SY254 (AZFc)	Y	330-350	Yq11.223
21	SY134 (AZFb)	Y	375-395	Yq11.223
22	SY255 (AZFc)	Y	90-110	Yq11.223
23	DXS7132	X	150-200	Xq11.2
24	SY131 (AZFb)	Y	205-225	Yq11.223
25	SY152(AZFd)	Y	230-250	Yq11.223
26	DXS10079	X	270-315	Xq12
27	DXS981	X	345-380	Xq13.1
28	DXS8378	X	388-420	Xp22.31

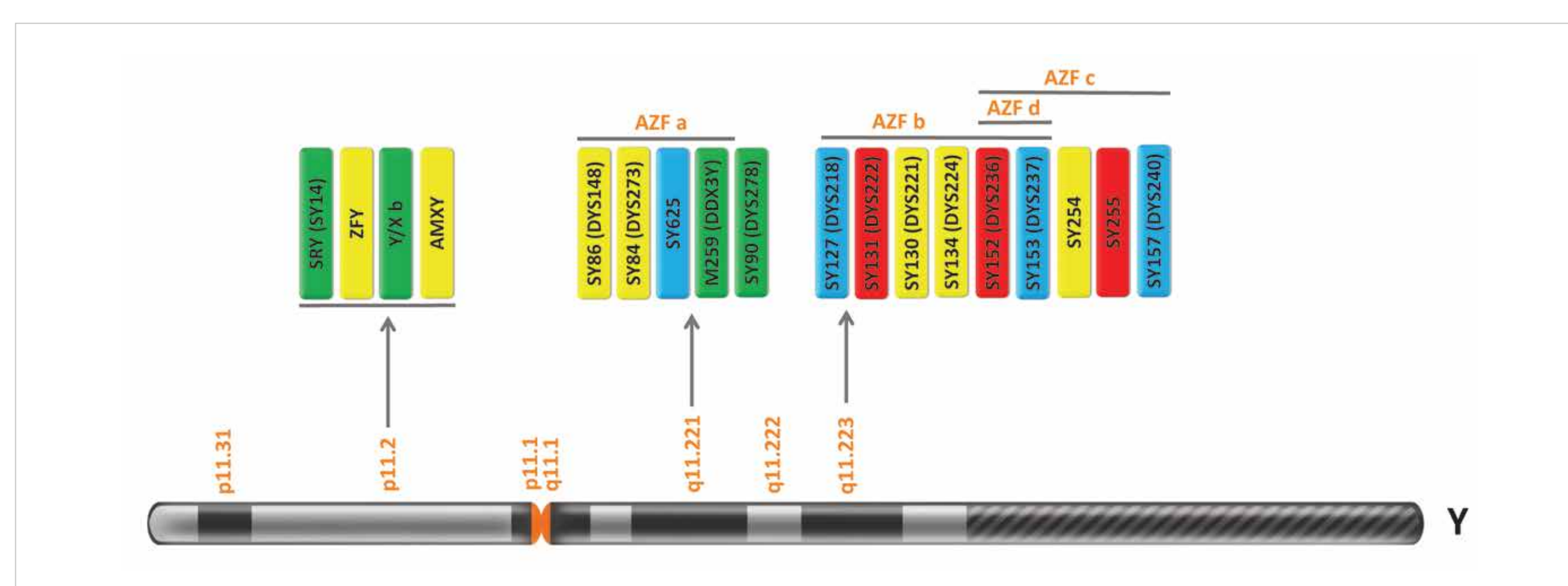


Figure 2. Locations of GT AZFScreen Plus markers on Y chromosome in five regions.

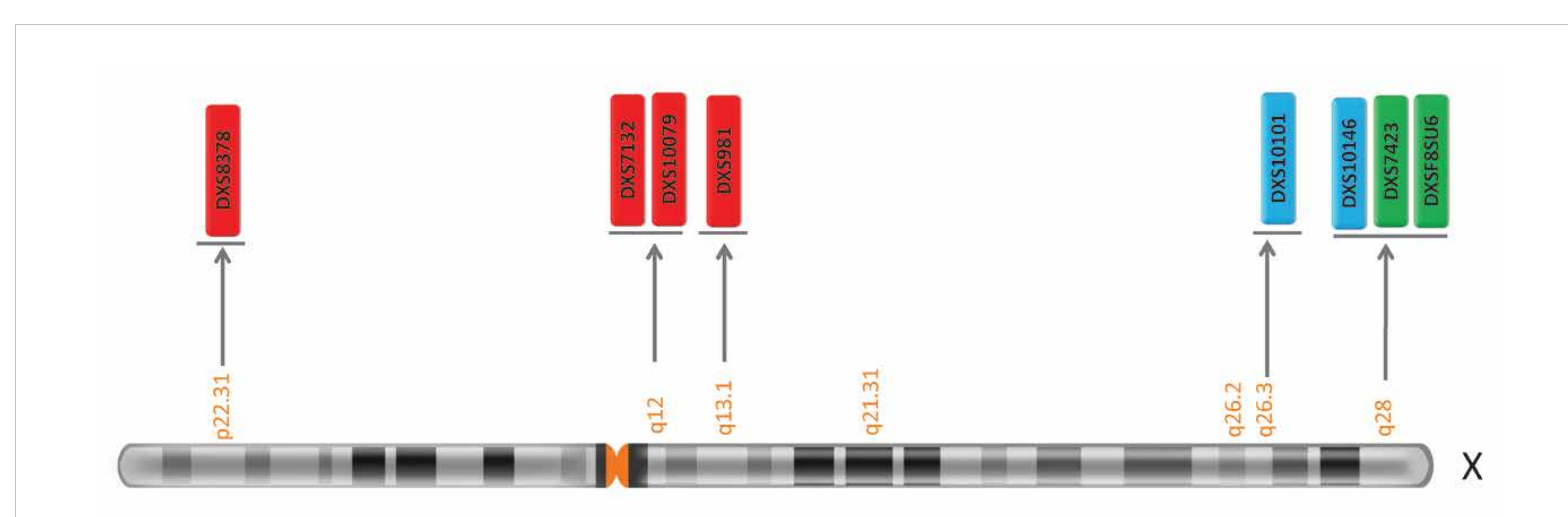


Figure 3. Locations of GT AZFScreen Plus markers on X chromosome in five regions.

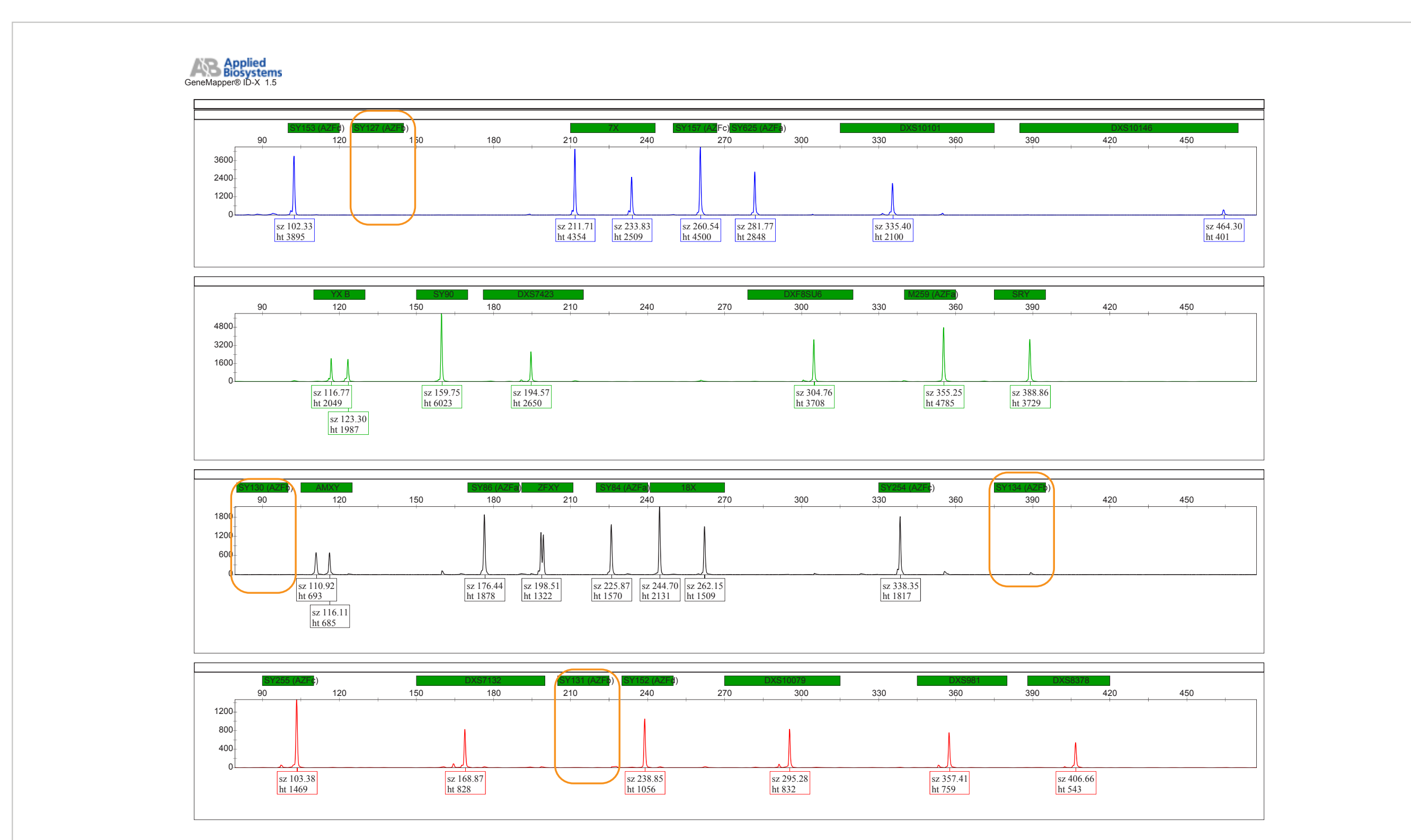


Figure 4. A sample profile of a male individual affected with infertility due to deletion of AZFb region (boxed) amplified using GT AZFScreen Plus kit.

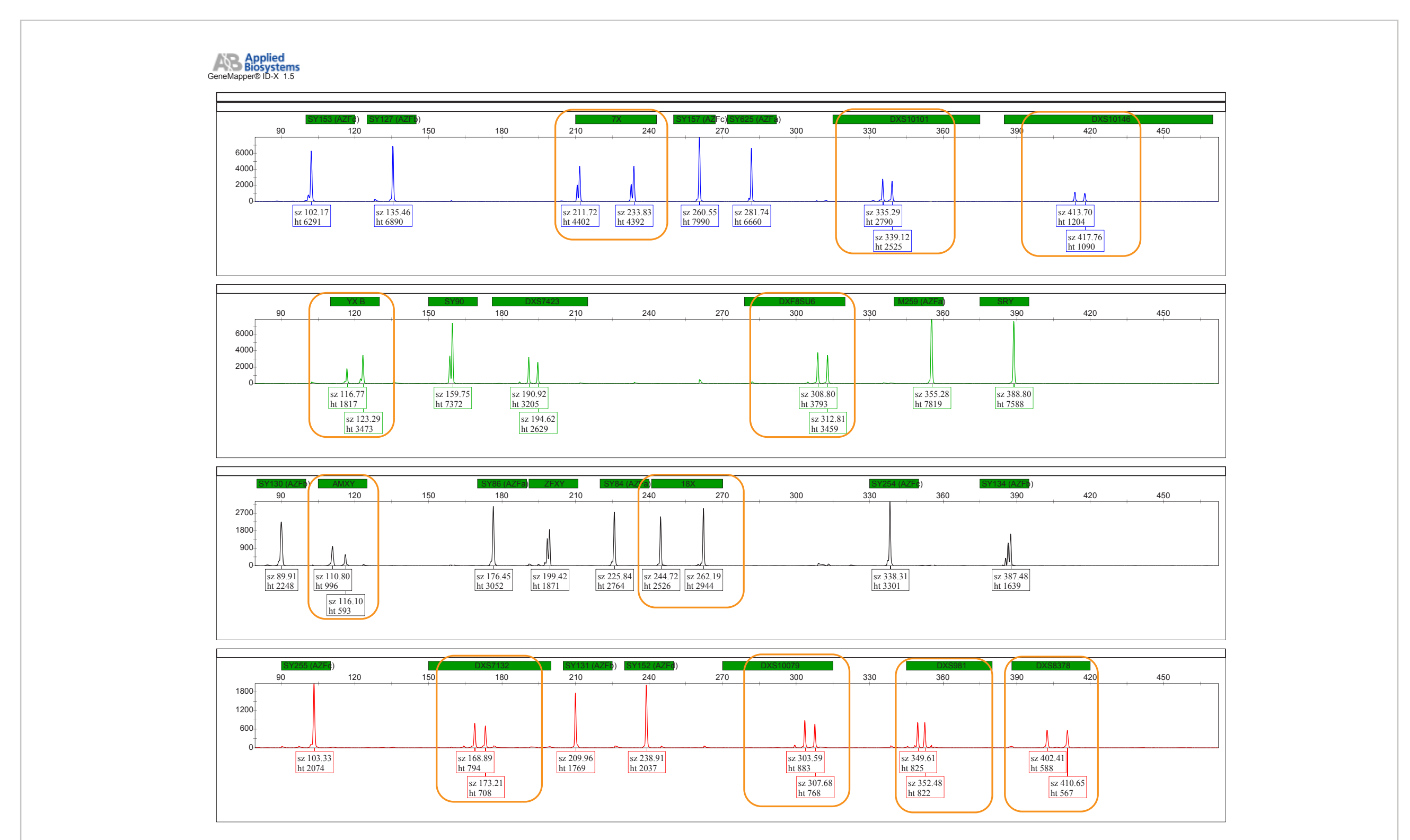


Figure 5. A profile of DNA sample from an individual affected with Klinefelter Syndrome (XXY) amplified using GT AZFScreen Plus kit. The loci supporting the diagnosis are boxed in orange.

For further information please contact us via info@genetek.de

More details on Genetek products are available on our website: www.genetek-biopharma.com

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