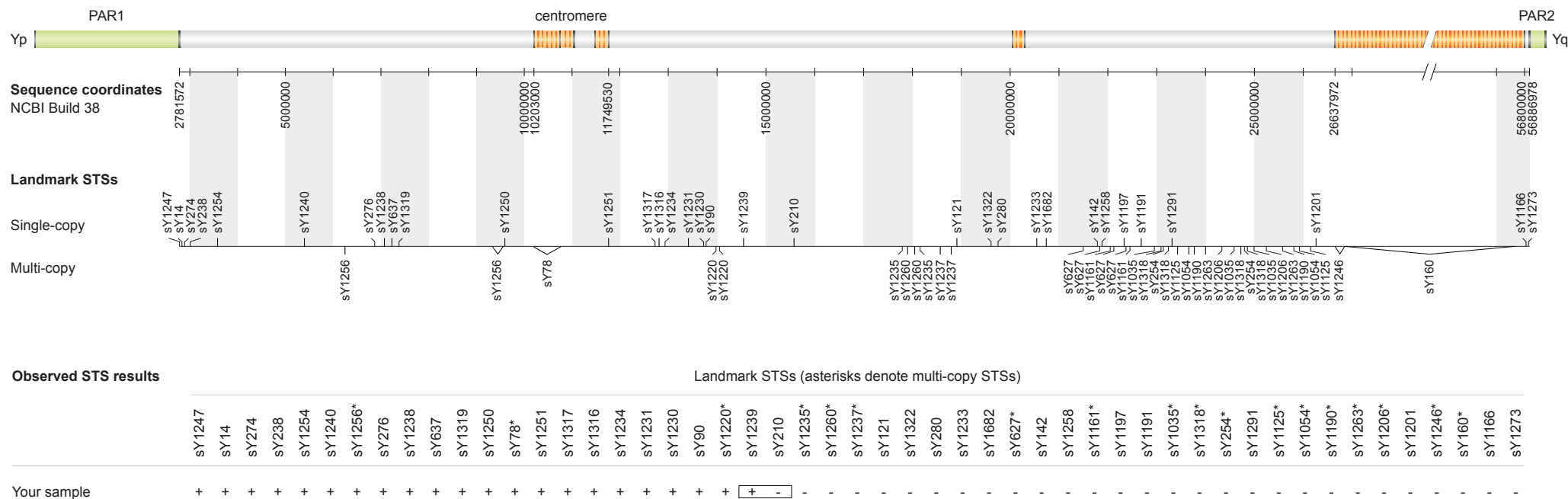


1. By testing your sample with 51 landmark STSs,¹ you have identified the following breakpoint: between sY1239 and sY210.



2. This breakpoint does not correspond to a previously reported common interstitial deletion, isodicentric chromosome, or isochromosome.² To further narrow the breakpoint in your sample, you wish to assay additional STSs between sY1239 and sY210. To generate a catalogue of STSs between sY1239 and sY210, select [sY1239] and [sY210] from pull-down menus, and click on the [Get intervening STSs] button.

Reference Tools

Table of landmark STSs

STS maps of common interstitial deletions

STS maps of idicY and isoY chromosomes

Retrieve STSs Between Two Loci Example

Landmark STSs sY1239 to sY210 :
 Any two STSs Select to Select :
 chrY coordinates* to :

Output format html text

*NCBI Build 38

Retrieve STSs Near One Locus Example

Landmark STS Select and Select interval :
 Any one STS Select and Select interval :
 chrY coordinate* and Select interval :

Output format html text

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Notes

¹ See Table of landmark STSs under Reference Tools. Landmark STSs consist of sY1247 and sY1273, located at the boundaries between MSY and pseudoautosomal (PAR) sequences on Yp and Yq, respectively, and a previously published panel of 49 STS (see Supplementary Methods Table SM-2 in Repping et al., 2006).

² See STS maps of common interstitial deletions or of isodicentric chromosomes and isochromosomes under Reference Tools.

3. STSs in the interval between sY1239 and sY210 are displayed as a table and in a customized UCSC Genome Browser. For each STS, the table indicates: multi-copy with an asterisk, start and end sequence coordinates, PCR product length, primer sequences, amplification conditions, GenBank accession number, and in the case of a multi-copy STS, sequence coordinates of co-amplified loci. A custom track in the browser displays the ~1-Mb region encompassing the catalogued STSs. The positions of each STS and of each protein-coding gene, as well as of other genomic features within the interval, are indicated.

The following STSs are between sY1239 (chrY:14522598-14523063) and sY210 (chrY:15554250-15554514):

STS Identifier	Multi-copy	STS Start	STS End	STS Length	Primer 1	Primer 2	PCR Conditions	GenBank	Co-amplified Loci
sY1239		14522598	14523063	466	CCTAGCTCTCTTTTCTTGACAG	CAAAATATCGCCAGTGAGGCT	Standard PCR	BV210876	
NLGN4Y-1		14522598	14523063	466	CCTAGCTCTCTTTTCTTGACAG	CAAAATATCGCCAGTGAGGCT	Touchdown PCR	BV679040	
sY886		14667226	14667470	245	TGATACAAGGAAGAATCCACCTG	TGTGTGTGTGTATCCTCCCTG	Standard PCR	G66009	
sY3181		14677584	14677894	311	TGGAAGGTCCAGTCATT	AAAATTAGCTGGGCATGGTG	Touchdown PCR	BV704046	
sY3203		14678387	14678662	276	GCAACTGTACATTGGCAGCA	TAGTTTGGAAAGGGTCGTGG	Standard PCR	BV704068	
sY3204		14679195	14679577	383	TGTTGCATTTTGCATGTT	GTGAAGATGACTGTTGCCCA	Standard PCR	BV704069	
sY3205		14680042	14680263	222	CATATGGGGTGGCATTTC	CCCTCTCTTTGGAGAGCTT	Standard PCR	BV704070	
sY3206		14680839	14681122	284	TAAATGGGGAGTTGGGACA	AAAGGGAATTGGGTTGGTTC	Touchdown PCR	BV704071	
sY3192		14681322	14681814	493	TGCTGAGGAAAGGAGGAAGA	TACTGAGGTCAATCCCTGCC	Touchdown PCR	BV704057	
...									
STSP-4		15549467	15550257	791	TGAACTCTCAGAGTTGGGG	CAACCATCCATTATCCATT	Touchdown PCR	BV679103	
STSP-5		15551321	15552320	1000	TTTGGGATTTTATCCGGT	GTAAGGCCAGCGGGTTATC	Touchdown PCR	BV679104	
sY2481		15551593	15551691	99	GGGTTAAGGAGGTATCCCA	TCAGAGAAATGGCACATTGG	Standard PCR	G66437	
sY210		15554250	15554514	265	ATCACTTGGCAGCTTTTCC	GCACTGCAACTTTTATGCCT	Standard PCR	G38361	

