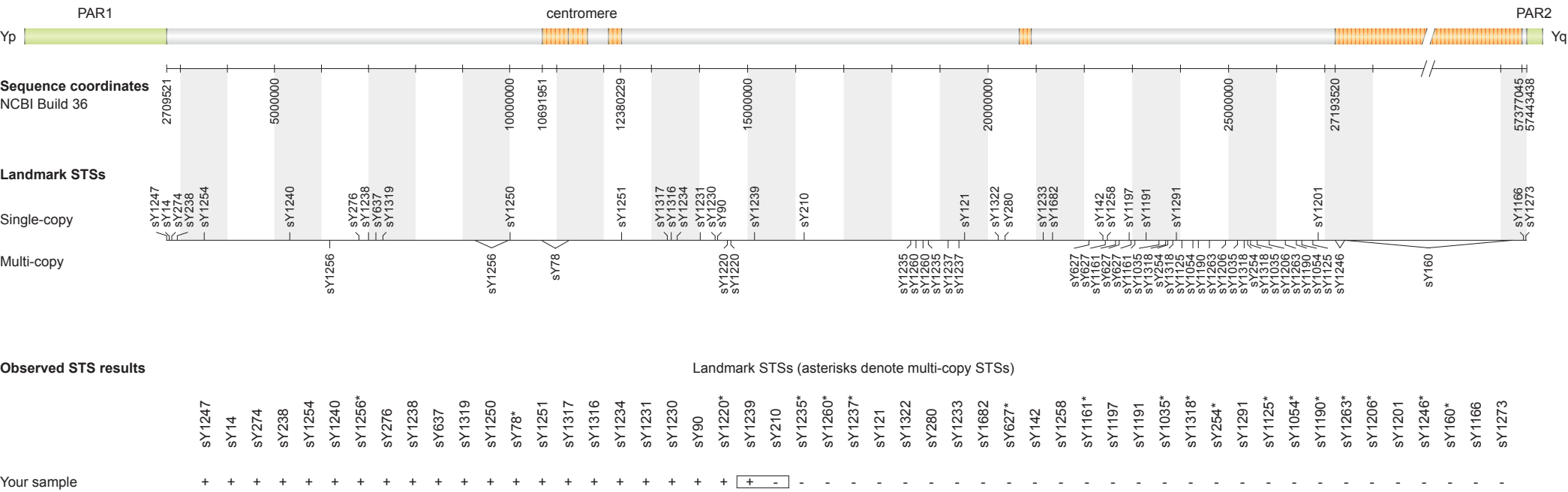


Example: Retrieve STSs Between Two Loci

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 deletion.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

Retrieve STSs Between Two Loci

Landmark STSs: sY1239 to sY210

Any two STSs: Select to Select

chrY coordinates*: to

Output format: ☒ html ☐ text

*NCBI Build 36

Get intervening STSs

Retrieve STSs Near One Locus

Landmark STS: Select and Select interval

Any one STS: Select and Select interval

chrY coordinate*: and Select interval

Output format: ☒ html ☐ text

*NCBI Build 36

Get STSs within interval

continued page 2

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 under Reference Tools.

Example: Retrieve STSs Between Two Loci

continued from page 1

3. STSs in the interval between sY1239 and sY210 are displayed as a table and in a custom Y chromosome 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. The custom Y chromosome browser displays the ~1-Mb region encompassing the catalogued STSs. The position of each STS and of each protein-coding gene within the interval is indicated.

The following STSs are between sY1239 (chrY:15143871-15144336) and sY210 (chrY:16175655-16175919):

STS Identifier	Multi-copy	STS Start	STS End	STS Length	Primer 1	Primer 2	PCR Conditions	GenBank	Co-amplified Loci
sY1239		15143871	15144336	466	CCTAGCTCTCTTTTCTTGACAG	CAAATATCGCCAGTGAGGCT	Standard PCR	BV210876	
NLGN4Y-1		15143872	15144337	466	CCTAGCTCTCTTTTCTTGACAG	CAAATATCGCCAGTGAGGCT	Touchdown PCR	BV679040	
sY886		15288499	15288743	245	TGATACAAGGAAGAATCCACCTG	TGTGTGTGTGTATCCTCCCTG	Standard PCR	G66009	
sY3181		15298857	15299167	311	TGGAAGGTGCCAGTCATTTC	AAAATTAGCTGGGCATGGTG	Touchdown PCR	BV704046	
sY3203		15299660	15299935	276	GCAACTGTACATTGGCAGCA	TAGTTTGGAAAGGTCGTGG	Standard PCR	BV704068	
sY3204		15300468	15300850	383	TGTTGCATTTTGCCATGTT	GTGAAGATGACTGTTGCCCA	Standard PCR	BV704069	
sY3205		15301315	15301536	222	CATATGGGGTTGCCATTTTC	CCCCTCTCTTTGGAGAGCTT	Standard PCR	BV704070	
sY3206		15302112	15302395	284	TAAATGGGGAGTTTGGGACA	AAAGGGAATTGGGTTGGTTC	Touchdown PCR	BV704071	
sY3192		15302595	15303087	493	TGCTGAGGAAAGGAGGAAGA	TACTGAGGTCAATCCCTGCC	Touchdown PCR	BV704057	
...									
STSP-4		16170740	16171530	791	TGAAGTCTCAGACGTTGGGG	CAACCATCCATTCATCCATT	Touchdown PCR	BV679103	
STSP-5		16172594	16173593	1000	TTTGGGATTTTGATCCGGT	GTAAAGGCCAGCGGTTATC	Touchdown PCR	BV679104	
sY2481		16172866	16172964	99	GGGTAAAGGAGGTCATCCCA	TCAGAGAAATGGCACATTGG	Standard PCR	G66437	
sY210		16175655	16175919	265	ATCACTTGGCAGCTTTTCC	GCACTGCAACTTTATGCCT	Standard PCR	G38361	

Showing 1.032 Mb chrY:15143871-16175919

Instructions: Search using an STS identifier, sequence coordinates, or gene symbol. Gene symbols may require a final asterisk wildcard to indicate a gene copy. You can also specify a gene (Gene:BPY2*) or an STS (STS:BPY2*).

Examples: Y, Y:20000000..20100000, sY14, sY34, sY1229, AMELY, AMELY-4, DAZ*, sY*, Gene:BPY2*, STS:BPY2*, Gene:*

Landmark or Region

Y:15143871..16175919

Search

Reset

Flip

Scroll/Zoom:

<< < Show 1.032 Mb > >>

