

# Some Examples of what you get with YFull

YFull | Home page - Internet Explorer, enhanced for Bing and MSN

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Secure Search McAfee

ClanDF41 DF41 Trees DF41Diagram(JPG) Stewarts Morrison-Q HighStewardsProgress L746Strategy DF41 Diagram(PDF) Sons of DF13

YFull  
Y-Chr Sequence Interpretation Service

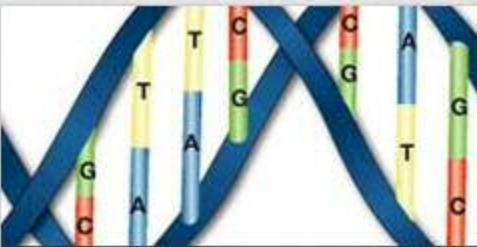
Welcome, Larry Walker! (ID: YF1387) [Settings](#) [Logout](#)

- Hg and SNPs
- STR results
- Novel SNPs
- Browse raw data
- Check SNPs
- Statistics
- Full Mt
- STR matches
- Groups
- YReport <sup>new</sup>
- YTree
- My news

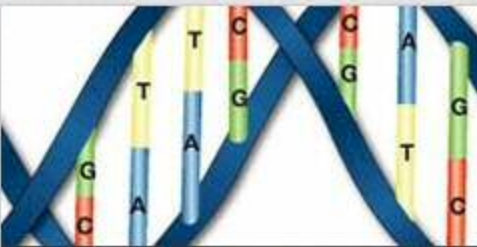


**Haplgroup and SNPs**  
Your Y-haplogroup prediction and all known SNPs (60967)

3	DY5464	DY5465	DY5466	DY5467	DY5468
	9	15	9	14	8
3	DY5510	DY5511	DY5512	DY5513	DY5514
	17	10	9	12	19
2	DY5526	DY5527.1	DY5527.2	DY5528.1	DY5528.2
	37	33	35	9	9
2	DY5540	DY5541	DY5542	DY5543	DY5544
	12	12	18	20	13
4	DY5556	DY5557	DY5558	DY5559	DY5561
	13	15	9	8	15
3	DY5574	DY5575	DY5576	DY5577	DY5578



**STR results**  
All known (494) Short Tandem Repeats extracting from Y-Chr



**Novel SNP results**  
Private SNPs found only in your sample

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100%

Start

12:34 PM  
1/7/2015

## Hg and SNPs

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Select a sample

Y-Haplogroup: **R-Y5649\***

Terminal SNPs: **Y5649 • Y5650 • Y5655 • Y5656 • Y5657 • Y5662 • Y5663 • Y5665**

\* Based on ISOGG v9.29 at 2 March 2014 and YFull Experimental [YTree v3.1](#)

**Known SNPs (60967)** [Download .CSV](#)

Positive (2081)		Ambiguous (535)		No call (91)	
	PF413 level R-Y5649* private			★★★★★	
	PF401 level R-Y5649* private			★★★★★	
	YSC0000154 level R-Y5649* private			★★★★★	
	PF386 level R-Y5649* private			★★★★★	
	PF430 level R-Y5649* private			★★★★★	
	PF372 level R-Y5649* private			★★★★★	
	Y247 level R-Y5649* private			★★★★★	
	PF359 level R-Y5649* private			★★★★★	



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## YFull Experimental YTree v3.1

- Home
- A0-T
- A1
- A1b
- BT
- CT
- CF
- F
- GHIJK
- HIJK
- IJK
- K
- K(xLT)
- MP-M1205
- P
- R
- R-Y482
- R1
- R1b
- R1b1
- R-L389
- R1b1a
- R1b1a2
- R1b1a2a
- R1b1a2a1
- R1b1a2a1a
- R1b1a2a1a2
- R1b1a2a1a2c
- R1b1a2a1a2c1
- R-CTS2501



[Download .CSV](#)

- ★★★★★ +
- ★★★★★ +
- ★★★★★ +
- ★★★★★ +
- ★★★★★ +
- ★★★★★ +
- ★★★★★ +
- ★★★★★ +

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- Select
- YF0
- Y-Haplo
- Termin
- \* Based c
- Know
- Posit
- PF4
- PF4
- YSC
- PF3
- PF4
- PF3
- Y247 level R-Y5649\* private
- PF359 level R-Y5649\* private

### Search in BAM file

Sample:	#YF01387 (R-Y5649)
ChrY position:	9980256 (+strand)
Reads:	66
Position data:	<b>19T 45C 1G 1DEL</b>
Weight for T:	0.297180043384
Weight for C:	0.683839479393
Weight for G:	0.00379609544469
Weight for DEL:	0.0151843817787
Probability of error:	0.43418708959 (0<->1)
Sample allele:	C
Reference (hg19) allele:	T
Known SNPs at this position:	PF413 (T->C)

[Download .CSV](#)

- ★★★★★ +
- ★★★★★ +
- ★★★★★ +
- ★★★★★ +
- ★★★★★ +
- ★★★★★ +
- ★★★★★ +
- ★★★★★ +



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Select a sample

STRs (479) [Statistic](#) [STR matches](#) [Download .CSV](#)

ATA71D03	CDY.1	CDY.2	DXYS166	DYF371.1	DYF371.2	DYF371.3	DYF371.4	DYF380.1	DYF380.2	DYF381.1	DYF381.2	DYF382
11	35	37	12	10	12	13	14	10	10	8	8	13
DYF383.1	DYF383.2	DYF384.1	DYF384.2	DYF385.1	DYF385.2	DYF386.1	DYF386.2	DYF386.3	DYF386.4	DYF387.1	DYF387.2	DYF389
9	9	7	8	10	11	11	14	14	15	30	31	11
DYF390.1	DYF391.1	DYF391.2	DYF392	DYF393	DYF394	DYF395.1	DYF395.2	DYF396.1	DYF396.2	DYF398.1	DYF398.2	DYF399.1
10	9	9	8	26	8	15	16	8	8	8	17	21
DYF399.2	DYF399.3	DYF400.1	DYF400.2	DYF401.1	DYF401.2	DYF403.1	DYF403.2	DYF404.1	DYF404.2	DYF405.1	DYF405.2	DYF406
23	23	22	23	14	16	26	28	14	17	6	11	10
DYF407.1	DYF407.2	DYF408.1	DYF408.2	DYF409.1	DYF409.2	DYF410.1	DYF410.2	DYF411.1	DYF411.2	DYF412.1	DYF412.2	DYR1
12	12	9	14	11	12	10	11	11	11	11	12	17
DYR10	DYR100	DYR101	DYR102	DYR103	DYR104	DYR105	DYR106	DYR107	DYR108	DYR109	DYR110	DYR111
10	11	11	7	11	10	5	8	8	9	5	5	11
DYR112	DYR113	DYR115	DYR116	DYR117	DYR118	DYR119	DYR12	DYR120	DYR121.1	DYR121.2	DYR122.1	DYR122.2
13	6	29	4	7	n/a	n/a	n/a	6	13	13	7	7
DYR123	DYR124.1	DYR124.2	DYR124.3	DYR125.1	DYR125.2	DYR126	DYR127	DYR128.1	DYR128.2	DYR13	DYR130	DYR131
16	9	10	12	23	28	12	8	10	10	n/a	13	7

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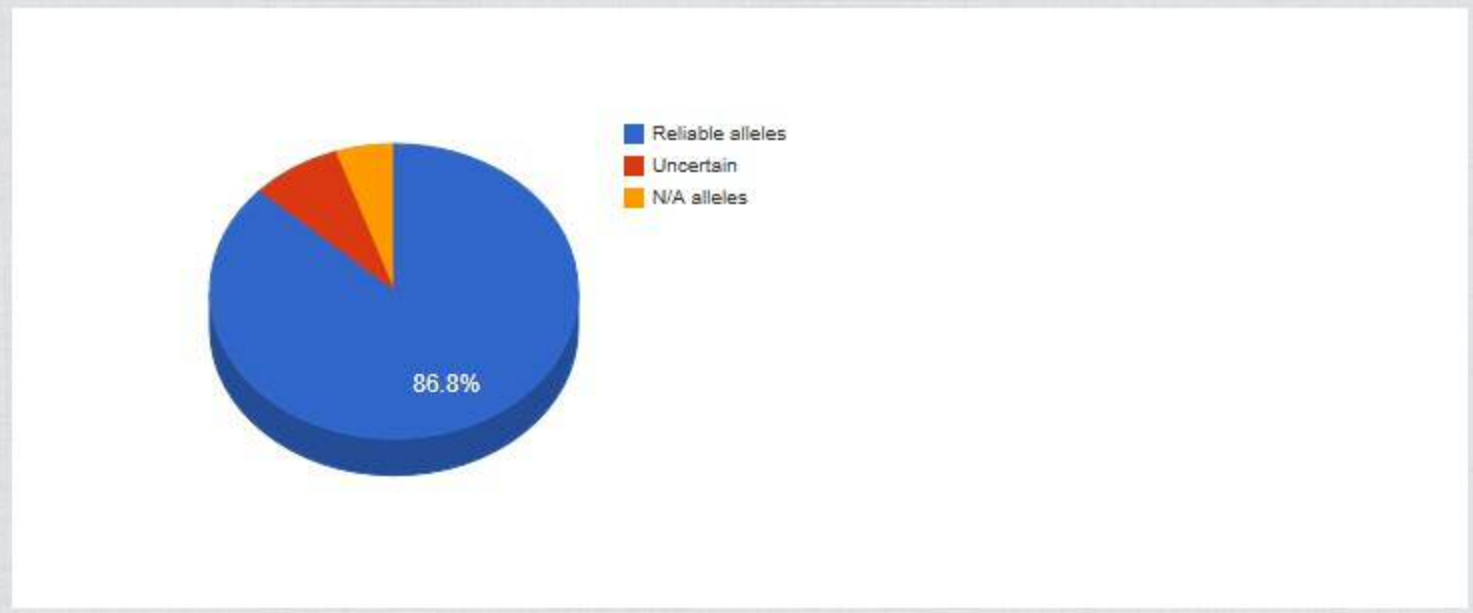
- Hg and SNPs
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Select YF0

STRs

ATA71	11
DYF38	9
DYF39	10
DYF39	23
DYF40	12
DYR	10
DYR	13
DYR123	16
DYR124.1	9
DYR124.2	10
DYR124.3	12
DYR125.1	23
DYR125.2	28
DYR126	12
DYR127	8
DYR128.1	10
DYR128.2	10
DYR13	n/a
DYR130	13
DYR131	7

## Statistic (STRs: 479)



[Statistic](#) [STR matches](#) [Download .CSV](#)

DYF381.2	DYF382
8	13
DYF387.2	DYF389
31	11
DYF398.2	DYF399.1
17	21
DYF405.2	DYF406
11	10
DYF412.2	DYR1
12	17
DYR110	DYR111
5	11
DYR122.1	DYR122.2
7	7



# YFull

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Select a sample

**Novel SNPs (29)** [Download .CSV](#)

	REF	ALT	
🔍 ChrY: 3949540 YFS035905	C	A	Q:100
🔍 ChrY: 7157962 YFS035973	C	T	Q:100 <b>G</b>
🔍 ChrY: 18732366 YFS036126	G	A	Q:100
🔍 ChrY: 19088419 YFS036130	C	T	Q:100
🔍 ChrY: 21876954 YFS036174	T	C	Q:100 <b>G</b>

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- Select
- YF0
- Novel
- Bes
- ChrY
- ChrY
- ChrY
- ChrY
- ChrY

### Search in BAM file

Sample:	#YF01387 (R-Y5649)
ChrY position:	18732366 (+strand)
Reads:	22
Position data:	<b>22A</b>
Weight for A:	1.0
Probability of error:	0.0 (0<->1)
Sample allele:	A
Reference (hg19) allele:	G

[Download .CSV](#)

REF	ALT	Q
C	A	Q:100
C	T	Q:100
G	A	Q:100
C	T	Q:100
T	C	Q:100



# YFull

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## Browse raw data (BAM file)

Enter a position (hg19)

ChrY | YF01387 (R-Y5649) | 8099088 |

Sample:	#YF01387 (R-Y5649)
ChrY position:	8099088 (+strand)
Reads:	46
Position data:	46A
Weight for A:	1.0
Probability of error:	0.0 (0<->1)
Sample allele:	A
Reference (hg19) allele:	G
Known SNPs at this position:	A40 (G->A)

# YFull

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## Check SNPs

Enter a SNP name

YF01387 (R-Y5649) L21

L21 • M529 • S145 R1b1a2a1a2c



- Hg and SNPs
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- Check SNPs**
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Check

Enter

YF0

L21

**Search in BAM file**

Sample:	#YF01387 (R-Y5649)
ChrY position:	15654428 (+strand)
Reads:	10
Position data:	<b>10G</b>
Weight for G:	1.0
Probability of error:	0.0 (0<->1)
Sample allele:	G
Reference (hg19) allele:	C
Known SNPs at this position:	L21 • M529 • S145 (C->G)

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Mt-Haplogroup: **H3h**

\* Tree Version: By [PhyloTree](#) Build 15 (30 Sep 2012)

mtDNA [Download FASTA](#) [Download RSRS.CSV](#) [Download rCRS.CSV](#)

	rCRS values	RSRS values	REF	ALT
	ChrM: 93		A	to G
	ChrM: 263		A	to G
	ChrM: 310		T	to TC
	ChrM: 750		A	to G
	ChrM: 1438		A	to G
	ChrM: 4769		A	to G
	ChrM: 6776		T	to C
	ChrM: 8860		A	to G
	ChrM: 12811		T	to C
	ChrM: 15326		A	to G



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Mt-Haplogroup: **H3h**

\* Tree Version: By [PhyloTree](#) Build 15 (30 Sep 2012)

mtDNA [Download FASTA](#) [Download RSRs.CSV](#) [Download rCRS.CSV](#)

rCRS values **RSRS values**

	REF	ALT
ChrM: 93	A	G
ChrM: 263	A	G
ChrM: 310	T	TC
ChrM: 750	A	G
ChrM: 1438	A	G
ChrM: 4769	A	G
ChrM: 6776	T	C
ChrM: 8860	A	G
ChrM: 12811	T	C
ChrM: 15326	A	G

# YFull

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- Mt-Haplog
- Tree Ve
- mtDM**
- rCRS
- ChrM: 12811
- ChrM: 15326

### Search in BAM file

Sample:	#YF01387 (R-Y5649)
ChrM position:	93 (+strand)
Reads:	74
Position data:	<b>74G</b>
Weight for G:	1.0
Probability of error:	0.0 (0<->1)
Sample allele:	G
RSRS allele:	A
rCRS allele:	A

[Download RSRS.CSV](#) / [Download rCRS.CSV](#)

REF	ALT
A	to G
A	to G
T	to TC
A	to G
A	to G
A	to G
T	to C
A	to G
T	to C
A	to G



- Hg and SNPs
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Select a sample

### STR matches

Close matches (2)		Distant matches (208)					
Compared STRs	Differences	Distance	ID	PM	Most distant ancestor [i]	Country of origin [i]	Terminal Hg
376	16	0.043	YF01932				<b>R-Z4486</b>
376	28	0.074	YF02471				<b>R-Y5649</b>

NOTE: STR matches based on "infinite alleles model"

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Select  
YF0

STR

Close

Comp  
376  
376

NOTE: S

**PM: Compose Message**

Recipient: YF01932

Subject:

Message:

[Send »](#)

Country of origin [i]	Terminal Hg
	<a href="#">R-Z4486</a>
	<a href="#">R-Y5649</a>



YFull | YReport (id: YF01387) YF01387 (R-Y5649) Submit

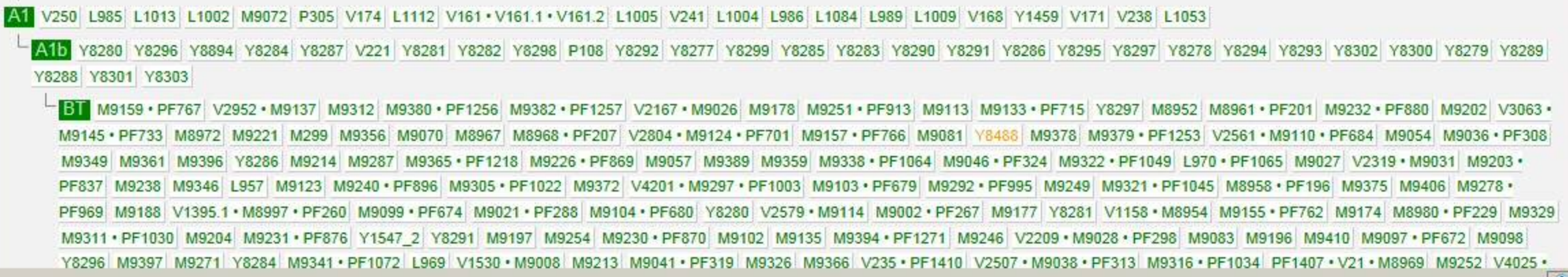


Copy shared link <http://www.yfull.com/share/yreport/41cbc4fa3f80cf4d5f6996394864fdc3/> Unshared YReport

R-Y5649

YFull Experimental YTree v3.1 at 04 January 2015

ROOT (Y-Chromosome "Adam")





Groups

The Group list

- <a href="#">Bernese Cluster (2)</a>	Private	»
- <a href="#">ChasCitCo (11)</a>	Private	»
- <a href="#">C-M216 (36)</a>	Private	»
- <a href="#">E-L19 (18)</a>	Private	»
- <a href="#">E-L791 (10)</a>	Private	»
- <a href="#">E-M84 (17)</a>	Private	»
- <a href="#">E-V13 (15)</a>	Private	»
- <a href="#">G2a (22)</a>	Private	»
- <a href="#">I1-L22 (40)</a>	Private	»
- <a href="#">I1-M227 (5)</a>	Private	»
- <a href="#">I1-P109 (34)</a>	Private	»
- <a href="#">I1-P109 DYS455=9 (7)</a>	Private	»
- <a href="#">I1-Z140 (34)</a>	Private	»
- <a href="#">I1-Z60 (62)</a>	Private	»
- <a href="#">I-A376 (10)</a>	Private	»
- <a href="#">I-DF29* (11)</a>	Private	»
- <a href="#">I-L1237 Hamilton (4)</a>	Private	»
- <a href="#">I-L1251 (2)</a>	Private	»



Group: R-L21 → Y-STR results

A Y-STR is a short tandem repeat (STR) on the Y-chromosome. Y-STRs are often used in forensics, paternity, and genealogical DNA testing. Y-STRs are taken specifically from the male Y chromosome. These Y-STRs provide a weaker analysis than autosomal STRs because the Y chromosome is only found in males, which are only passed down by the father, making the Y chromosome in any paternal line practically identical. This causes a significantly smaller amount of distinction between Y-STR samples. © Wikipedia

View All 111 67 37 25 12

ID	PM	Name	Country	HG	ATA171D03	CDY.1	CDY.2	DYS156	DYF371.1	DYF371.2	DYF371.3	DYF371.4	DYF380.1	DYF380.2	DYF381.1	DYF381.2	DYF382	DYF383.1	DYF383.2	DYF384.1	DYF384.2	DYF385.1	DYF385.2	DYF386.1	DYF386.2	DYF386.3	DYF386.4	DYF387.1	DYF387.2	DYF388	DYF390	DYF390.1	DYF390.2	DYF391.1	DYF391.2	DYF392	DYF393	DYF394	DYF395.1	DYF395.2
YF01525		Jacob Rem-Schultheiss (Sulc) b. 1598 d. 1683	Slovakia	R-YP654	x	33	39	12	10	12	15	15	10	10	8	8	13	x	x	7	8	10	10	13	14	15	15	31	32	11	x	10	x	9	9	8	24	x	17	17
YF02010				R-Y6951*	x	34	38	12	10	12	13	14	10	10	8	8	12	9	9	7	8	10	11	11	14	14	15	30	30	11	x	10	x	9	9	8	28	x	15	16
YF01652				R1b1a2a1a2c*	x	37	39	12	10	12	13	14	10	10	8	8	x	9	9	7	8	10	11	11	14	15	29	31	11	x	10	x	9	9	8	26	8	15	16	
YF01638				R1b1a2a1a2c1	x	35	38	12	10	12	12	13	10	10	8	8	x	9	9	7	8	10	11	11	14	14	15	30	30	12	x	10	x	9	9	8	28	x	15	16
YF01674				R1b1a2a1a2c1	x	35	41	12	10	12	13	14	10	10	8	8	x	9	9	7	8	10	11	x	x	x	x	30	30	11	x	10	x	9	9	8	27	x	15	16
YF01869				R1b1a2a1a2c1	x	38	40	12	10	12	13	14	10	10	8	8	13	8	9	6	7	10	11	11	14	14	15	30	31	11	x	10	x	9	9	8	27	x	15	16
YF01822		Anthony Collins, b. 1678 and d. 1754	England	R1b1a2a1a2c1*	x	37	39	12	10	12	13	14	10	10	8	8	x	9	9	7	8	10	11	10	14	14	16	30	30	11	x	10	x	9	9	8	29	8	15	16
YF01878				R1b1a2a1a2c1*	x	37	40	12	10	12	13	14	10	10	8	8	x	x	x	7	8	10	11	11	14	14	16	30	30	11	x	10	x	9	9	8	29	x	15	16
YF02319		Scotch-Irish	Scotland	R-A40*	11	x	x	12	10	12	13	14	10	10	8	8	13	9	9	7	8	10	11	11	11	14	14	30	31	11	x	10	x	9	9	8	x	8	15	16
YF01387		John Walker, b. 1795	Scotland	R-Y5649*	11	35	37	12	10	12	13	14	10	10	8	8	13	9	9	7	8	10	11	11	14	14	15	30	31	11	x	10	x	9	9	8	26	8	15	16
YF01037				R-7449R	v	35	37	12	10	12	13	14	10	10	8	8	v	9	9	7	8	10	11	11	14	14	15	30	31	11	v	10	v	9	9	8	26	v	15	16



Group: R-L21 → Y-SNP results

A single-nucleotide polymorphism (SNP) is a DNA sequence variation occurring when a single nucleotide — A, T, C or G — in the genome (or other shared sequence) differs between members of a biological species or paired chromosomes in a human. For example, two sequenced DNA fragments from different individuals, AAGCCTA to AAGCTTA, contain a difference in a single nucleotide. @ Wikipedia

Enter a SNPs (comma-delimited) [input field] OK

Sample ID	HG	L21M29S145	DF41SS9A4CTS89	M222PAG994U	DF41SS9A4CTS89	DF41SS9A4CTS89	DF41SS9A4CTS89	A40
YFD1525	R-YP654	+	+	+	+	+	+	+
YFD2010	R-Y6951*	+	+	+	+	+	+	+
NA12340	R1b1a2a1a2c	+	+	+	+	+	+	+
YFD1652	R1b1a2a1a2c*	+	+	+	+	+	+	+
YFD1674	R1b1a2a1a2c1	+	+	+	+	+	+	+
YFD1638	R1b1a2a1a2c1	+	+	+	+	+	+	+
YFD1669	R1b1a2a1a2c1	+	+	+	+	+	+	+
NA19658	R1b1a2a1a2c1*	+	+	+	+	+	+	+
YFD1822	R1b1a2a1a2c1*	+	+	+	+	+	+	+
HG00119	R1b1a2a1a2c1*	+	+	+	+	+	+	+
NA12045	R1b1a2a1a2c1*	+	+	+	+	+	+	+
HG01953	R1b1a2a1a2c1*	+	+	+	+	+	+	+
HG00115	R1b1a2a1a2c1*	+	+	+	+	+	+	+
YFD1878	R1b1a2a1a2c1*	+	+	+	+	+	+	+
NA10851	R-CTS2501*	+	+	+	+	+	+	+
YFD2319	R-A40*	+	+	+	+	+	+	+
YFD1367	R-Y5649*	+	+	+	+	+	+	+
YFD1932	R-Z4486	+	+	+	+	+	+	+
YFD1692	R-L563	+	+	+	+	+	+	+
YFD1975	R-L744*	+	+	+	+	+	+	+
YFD2025	R-L744*	+	+	+	+	+	+	+



Group: R-L21 → Y-Chr browser

Enter a Y-Chr positions hg19 (comma-delimited) 16049791, 8402779, 8099088, 18811118, 18538470, 9401022, 9395960, 18053160, 7527754 OK

Sample ID	HG	16049791	8402779	8099088	18811118	18538470	9401022	9395960	18053160	7527754
REFSEQ		G	C	G	G	G	C	G	T	A
YFD1525	R-YP654	G	C	G	G	G	C	G	T	A
YFD2010	R-Y6951*	G	C	G	G	G	C	G	T	A
NA12340	R1b1a2a1a2c	G	C	G	N	G	C	G	T	A
YFD1652	R1b1a2a1a2c*	G	C	G	G	G	C	G	T	A
YFD1638	R1b1a2a1a2c1	G	C	G	G	G	C	G	T	A
YFD1674	R1b1a2a1a2c1	G	C	G	G	G	C	G	T	A
YFD1869	R1b1a2a1a2c1	G	C	G	G	G	C	G	T	A
HG00119	R1b1a2a1a2c1*	G	C	G	G	G	C	G	T	A
HG00115	R1b1a2a1a2c1*	G	C	G	G	G	C	G	T	A
YFD1822	R1b1a2a1a2c1*	G	C	G	G	G	C	G	T	A
YFD1878	R1b1a2a1a2c1*	G	C	G	G	G	C	G	T	A
NA12045	R1b1a2a1a2c1*	G	C	G	G	G	C	G	T	A
HG01953	R1b1a2a1a2c1*	G	C	G	G	G	C	G	T	A
NA19658	R1b1a2a1a2c1*	G	C	G	G	G	C	G	T	A
NA10851	R-CTS2501*	G	C	G	G	G	C	G	T	A
YFD1550	R-CTS2501*	G	C	G	G	G	C	G	T	A
YFD2319	R-A40*	A	T	A	G	G	C	G	T	A
YFD1357	R-Y5649*	A	T	A	G	G	C	G	T	A
YFD1932	R-Z4486	A	T	A	G	G	C	G	T	A
YFD1692	R-L583	G	C	G	G	G	C	A	C	A
YFD2086	R-L744*	G	C	G	G	G	C	G	T	A
YFD2025	R-L744*	G	C	G	G	G	C	G	T	A
YFD2294	R-L744*	G	C	G	G	G	C	G	T	A
YFD1975	R-L744*	G	C	G	G	G	C	G	T	A
YFD2090	R-S781	G	C	G	G	A	C	G	T	A
YFD2184	R-S781	G	C	G	G	A	C	G	T	A
YFD1691	R-S781	G	C	G	G	A	C	G	T	A

