

FTDNA	STR Marker	motif allele mut-rate	Anc	FTDNA	STR Marker	motif allele mut-rate	Anc
1	DYS393	AGAT 9-17 0.00076	A33	68	DYS710		
2	DYS390	TCT-G/A 17-28 0.00311	A33	69	DYS485	TTA 10-18	
3	DYS19 / 394	TAGA 10-19 0.00151	A33	70	DYS632	CATT	
4	DYS391	TCTA 6-14 0.00265	A33	71	DYS495	AAT 12-18	
5-6	DYS385a-b	GAAA 7 – 28 0.00226	A33	72	DYS540	TTAT 10-13	
7	DYS426	GTT 10-12 0.00009	A33	73	DYS714		
8	DYS388	ATT 10-16 0.00022	A33	74	DYS716	CCATT	
9	DYS439 / GATA-A4	AGAT 9-14 0.00477	A33	75	DYS717		
10	DYS389I	multi 9-17 0.00186	A33	76	DYS505	TCCT 9-15	
11	DYS392	TAT 6-17 0.00052	A33	77	DYS556	AATA 8-12	
12	DYS389II (tot len)	multi 24-34 0.00242	A33	78	DYS549	AGAT 10-14	
13	DYS458	GAAA 13-20 0.00814	A33	79	DYS589	TTATT 13	
14-15	DYS459a-b	TAAA 7-10 0.00132	A33	80	DYS522	GATA 8-17	
16	DYS455	AAAT 8-12 0.00016	A33	81	DYS494	TAT 10	
17	DYS454	AAAT 10-12 0.00016	A33	82	DYS533	ATCT 9-14	
18	DYS447	TAAWA 22-29 0.00264	A33	83	DYS636		
19	DYS437	CTA 13-17 0.00099	A33	84	DYS575	AAAT 8-12	
20	DYS448	AGAGAT 17-24 0.00135	A33	85	DYS638	TTTA 10-12	
21	DYS449	TTTC 26-36 0.00838	A33	86	DYS462	TATG 8-14	A46
22-25	DYS464a-b-c-d	CCTT 9-20 0.00566	A33	87	DYS452	YATAC 27-33	A46
26	DYS460	ATAG 7-12 0.00402	A33	88	DYS445	TTTA 10-13	A46
27	Y-GATA-H4 **	TAGA 8-13 (25-30) 0.00208	A33	89	Y-GATA-A10 **	TAGA 13-18	A46
28-29	YCA II a-b	0.00123	A33	90	DYS463	AARGG 18-27	A46
30	DYS456	AGAT 13-18 0.00735	A33	91	DYS441 **	CCTT 12-18	A46
31	DYS607	AAGG 8-20 0.00411		92	Y-GGAAT-1B07		A46
32	DYS576	AAAG 13-21 0.01022		93	DYS525	TAGA 9-12	
33	DYS570	TTTC 12-23 0.00790		94	DYS712		
34-35	CDY a-b / DYS724	0.03531		95	DYS593		
36	DYS442 **	TATC 10-14 0.00324	A46	96	DYS650		
37	DYS438	TTTTTC 6-14 0.00055	A46	97	DYS532	CTTT 9-17	
38	DYS531	AAAT 11-13		98	DYS715		
39	DYS578	AAAT 7-10		99	DYS504		
40-41	DYF395S1a-b			100	DYS513		
42	DYS590	TTTTG		101	DYS561		
43	DYS537			102	DYS552		
44	DYS641	TAAA 7-11		103	DYS726	11-16	
45	DYS472			104	DYS635 / GATA-C4	TSTA compd 17-27	A46
46	DYF406S1			105	DYS587		
47	DYS511			106	DYS643	CTTTT 7-15	
48	DYS425 (~DYF371)	TGT 10-15		107	DYS497	TAT 13-16	
49-50	DYS413a-b			108	DYS510		
51	DYS557	TTTC		109	DYS434	TAAT (CTAT) 9-12	
52	DYS594	TAAAA 8-11		110	DYS461 / GATA-A7.2	(TAGA) CAGA 8-14	A46
53	DYS436	GTT 9-15		111	DYS435	TGGA 9-13	
54	DYS490	TTA 12-16					
55	DYS534	CTTT 10-20					
56	DYS450	TTTTA 8-11					
57	DYS444	TAGA 11-15	A46				
58	DYS481	CTT 20-30					
59	DYS520	ATAS 18-26					
60	DYS446	TCTCT 10-18	A46				
61	DYS617						
62	DYS568						
63	DYS487	ATT 12-14					
64	DYS572	AAAT 8-12					
65	DYS640						
66	DYS492						
67	DYS565	TAAA 9-14					

**** Conversions**

GATA-H4 Anc – 1 = FTDNA
442 Anc – 5 = FTDNA
GATA-A10 Anc – 2 = FTDNA
441 Anc – 1 = FTDNA #

"List of Y-STR markers," *Wikipedia*

([http://en.wikipedia.org/wiki/](http://en.wikipedia.org/wiki/List_of_Y-STR_markers)

List_of_Y-STR_markers : 1 Jan 2015)

for repeat motif, allele values, and mutation rates.

FAST-CHANGING