

human hg38.14

chromosome	HDR	Type
1	11mer	Willard's
	6mer	cascading
	9mer	Willard's
	2mer	cascading
2	10mer	Willard's
	4mer	cascading
3	10mer	Willard's
	17me	cascading
4	7mer	Willard's
	13mer	cascading
5	16mer	cascading
	15mer	Willard's
	24mer	cascading
	17mer	Willard's
	13mer	cascading
6	7mer	Willard's
	6mer	cascading
7	18mer	cascading
	16mer	Willard's
8	2mer	cascading
	8mer	cascading
9	4mer	cascading
	7mer	cascading
10	18mer	cascading
	8mer	cascading
11	5mer	cascading
	12mer	Willard's
12	18mer	cascading
	8mer	cascading
13	14mer	cascading
	33mer	cascading
	23mer	cascading
	20mer	cascading
	22mer	cascading
14	17mer	cascading
	8mer	cascading
	11mer	Willard's
	33mer	cascading
	23mer	Willard's
15	22mer	cascading
	25mer	Willard's
	20mer	cascading
	4mer	cascading
	15mer	cascading
16	2mer	cascading
	8mer	cascading
	28mer	Willard's
	14mer	Willard's
	16mer	cascading
17	10mer	Willard's
	8mer	cascading
	12mer	cascading
	13mer	Willard's
	10mer	cascading
18	12mer	Willard's
	17mer	Willard's
	12mer	cascading
19	17mer	Willard's
	13mer	cascading
	6mer	cascading
20	8mer	Willard's
	6mer	cascading
	2mer	cascading
	11mer	Willard's
	16mer	cascading
21	23mer	Willard's
	23mer	cascading
	20mer	cascading
	22mer	cascading
	8mer	Willard's
22	23mer	cascading
	20mer	Willard's
	22mer	cascading
	17mer	cascading
X	12mer	Willard's
	11mer	cascading
Y	34mer	Willard's
	20mer	Willard's

human CHM13

chromosome	HDR	Type
1	11mer	Willard's
	2mer	Willard's
	9mer	Willard's
2	10mer	Willard's
	28mer	Willard's
3	2mer	cascading
	10mer	Willard's
4	13mer	cascading
	17mer	cascading
5	7mer	cascading
	13mer	Willard's
	16mer	cascading
	4mer	cascading
	15mer	cascading
6	15mer	Willard's
	24mer	Willard's
	13mer	Willard's
	2mer	cascading
	2mer	cascading
7	16mer	Willard's
	2mer	cascading
8	11mer	Willard's
	15mer	cascading
9	4mer	cascading
	7mer	cascading
10	12mer	cascading
	8mer	cascading
	17mer	cascading
11	5mer	Willard's
	12mer	Willard's
12	2mer	cascading
	8mer	cascading
13	23mer	Willard's
	19mer	cascading
	11mer	cascading
	7mer	cascading
	21mer	cascading
14	23mer	cascading
	8mer	Willard's
	11mer	Willard's
	26mer	Willard's
	25mer	Willard's
15	20mer	cascading
	4mer	cascading
	15mer	cascading
	2mer	cascading
	8mer	cascading
16	28mer	Willard's
	14mer	Willard's
17	16mer	cascading
	10mer	Willard's
18	8mer	cascading
	12mer	cascading
19	17mer	Willard's
	7mer	cascading
	25mer	cascading
	16mer	Willard's
	2mer	Willard's
20	23mer	Willard's
	25mer	Willard's
	9mer	cascading
	8mer	cascading
	26mer	cascading
21	23mer	Willard's
	25mer	Willard's
	11mer	cascading
22	20mer	Willard's
	8mer	Willard's
X	12mer	Willard's

chimpanzee

chromosome	HDR	Type
1	7mer	Willard's
	13mer	Willard's
2A	20mer	cascading
	11mer	cascading
2B	7mer	Willard's
	2mer	cascading
3	6mer	cascading
	19mer	Willard's
4	3mer	cascading
	14mer	Willard's
	6mer	cascading
	25mer	Willard's
5	5mer	Willard's
	5mer	cascading
6	19mer	cascading
	24mer	cascading
7	32mer	Willard's
	2mer	cascading
8	8mer	Willard's
	4mer	cascading
9	19mer	Willard's
	4mer	cascading
10	4mer	cascading
	4mer	cascading
11	13mer	cascading
	8mer	Willard's
12	2mer	cascading
	2mer	cascading
13	28mer	cascading
	10mer	cascading
14	2mer	cascading
	2mer	cascading
15	33mer	cascading
	4mer	cascading
16	2mer	cascading
	2mer	cascading
17	18mer	cascading
	11mer	cascading
18	22mer	cascading
	4mer	cascading
19	24mer	cascading
	26mer	cascading
20	2mer	cascading
	2mer	cascading
21	4mer	cascading
	7mer	cascading
22	16mer	Willard's
	12mer	cascading
X	22mer	cascading
	20mer	cascading
Y	6mer	cascading
	12mer	Willard's

gorila

chromosome	HDR	Type
1	4mer	Willard's
	2mer	Willard's
	22mer	cascading
	14mer	cascading
2A	7mer	Willard's
	4mer	cascading
2B	15mer	Willard's
	24mer	Willard's
3	11me	cascading
	4mer	cascading
4	15mer	Willard's
	2mer	cascading
5	18mer	cascading
	2mer	Willard's
6	19mer	Willard's
	27mer	Willard's
7	4mer	cascading
	6mer	cascading
8	2mer	Willard's
	4mer	cascading
9	5mer	cascading
	4mer	cascading
10	2mer	Willard's
	4mer	cascading
11	16mer	Willard's
	2mer	Willard's
12	43mer	Willard's
	18mer	cascading
13	2mer	Willard's
	4mer	cascading
14	13mer	cascading
	3mer	cascading
15	9mer	cascading
	13mer	cascading
16	3mer	cascading
	3mer	cascading
17	40mer	cascading
	4mer	cascading
18	2mer	Willard's
	14mer	Willard's
19	29mer	cascading
	2mer	cascading
20	2mer	cascading
	8mer	cascading
21	2mer	cascading
	3mer	cascading
22	2mer	Willard's
	13mer	cascading
X	18mer	Willard's
	10mer	Willard's
Y	12mer	cascading
	19mer	cascading

orangutan

chromosome	HDR	Type
1	13mer	Willard's
	3mer	cascading
	23mer	Willard's
	21mer	Willard's
2	22mer	cascading
	15mer	cascading
3	2mer	cascading
	6mer	cascading
	10mer	cascading
	15mer	Willard's
4	12mer	Willard's
	2mer	cascading
	6mer	cascading
	19mer	cascading
5	14mer	cascading
	12mer	Willard's
	53mer	cascading
	2mer	cascading
6	10mer	cascading
	2mer	cascading
	9mer	Willard's
	8mer	cascading
7	15mer	Willard's
	7mer	cascading
	3mer	cascading
	4mer	Willard's
8	9mer	cascading
	4mer	Willard's
	31mer	cascading
	9mer	cascading
9	25mer	cascading
	16mer	cascading
	54mer	cascading
	27mer	cascading
10	45mer	cascading
	23mer	cascading
	4mer	cascading
	37mer	cascading
11	30mer	cascading
	31mer	cascading
	27mer	cascading
	8mer	cascading
12	18mer	cascading
	27mer	cascading
	59mer	cascading
	14mer	Willard's
13	7mer	Willard's
	45mer	cascading
	4mer	Willard's
	8mer	cascading
14	18mer	cascading
	23mer	Willard's
	2mer	cascading
	16mer	cascading
15	4mer	cascading
	27mer	cascading
	20mer	cascading
	10mer	cascading
16	6mer	cascading
	15mer	Willard's
	3mer	cascading
	21mer	cascading
17	12mer	cascading
	14mer	Willard's
	7mer	cascading
	5mer	cascading
18	17mer	cascading
	19mer	Willard's
	22mer	cascading
	2mer	cascading
19	7mer	cascading
	2mer	cascading
	10mer	cascading
	15mer	cascading
20	24mer	cascading
	18mer	cascading
	45mer	cascading
	4mer	cascading
21	6mer	cascading
	2mer	cascading
	2mer	cascading
	2mer	cascading
22	2mer	cascading
	2mer	cascading
	2mer	cascading
	2mer	cascading
23	2mer	cascading
	2mer	cascading
	2mer	cascading
	2mer	cascading
X	8mer	Willard's
	2mer	cascading
	58mer	cascading
	18mer	cascading
Y	58mer	cascading
	2mer	cascading
	18mer	cascading
	58mer	cascading