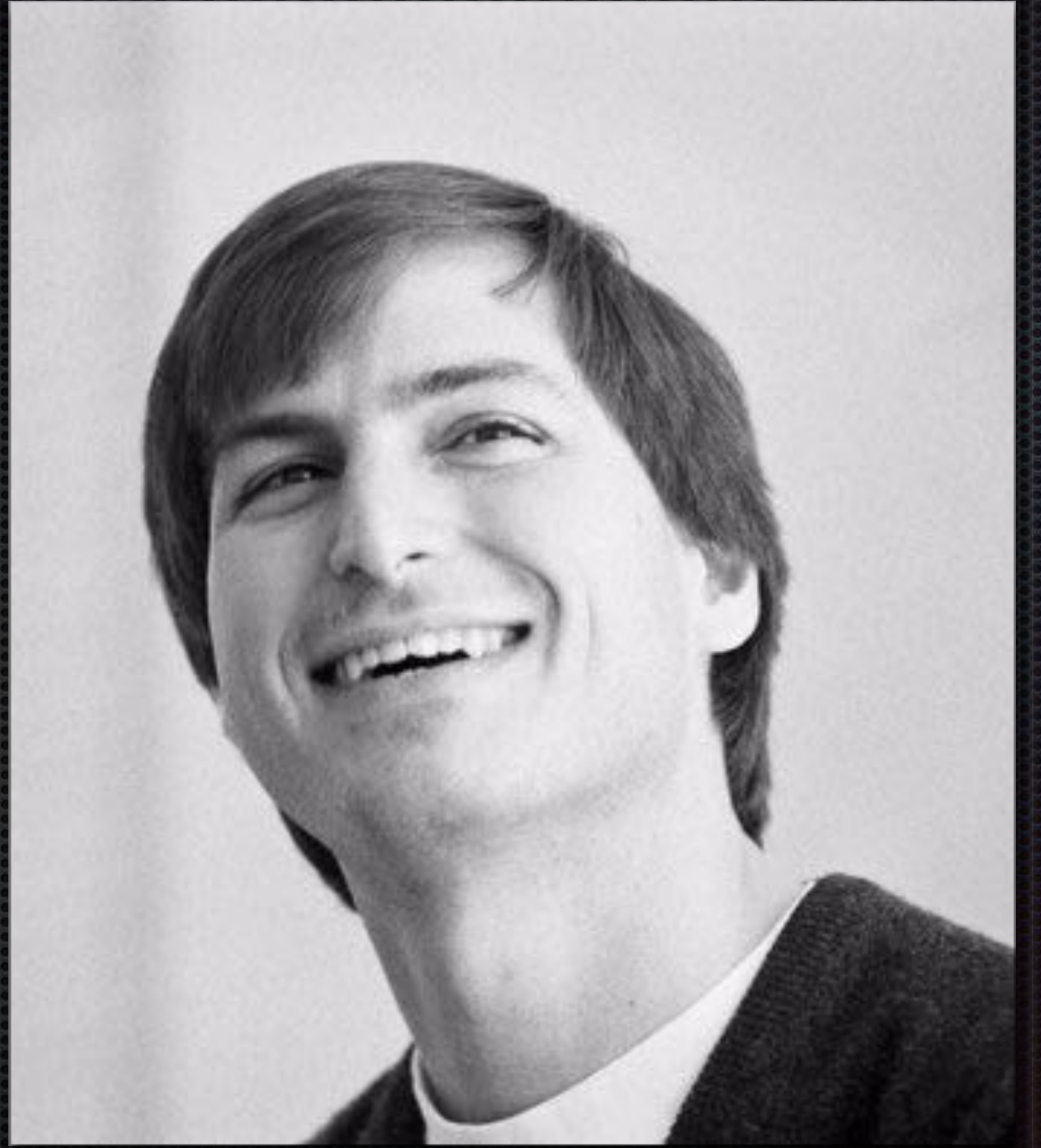


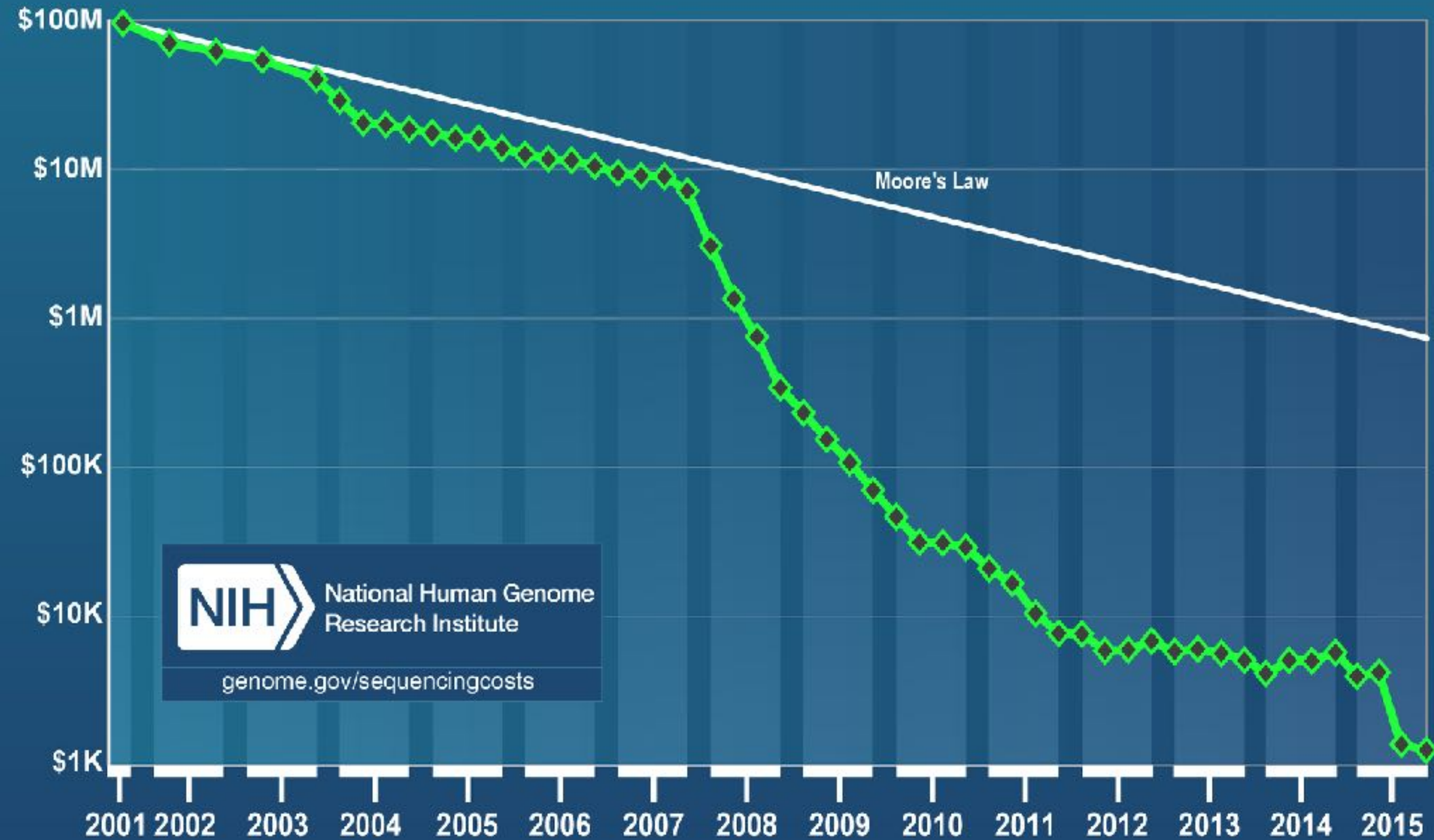
“I’m either going to be one of the first to be able to outrun a cancer like this, or I’m going to be one of the last to die from it.”

Steve Jobs

- ✧ Genomu sekanslanan ilk 20 insan içindedir.
- ✧ 100 000 \$ harcanmıştır.
- ✧ Kanserle olan mücadelelerinde kullanılmıştır.



Cost per Genome

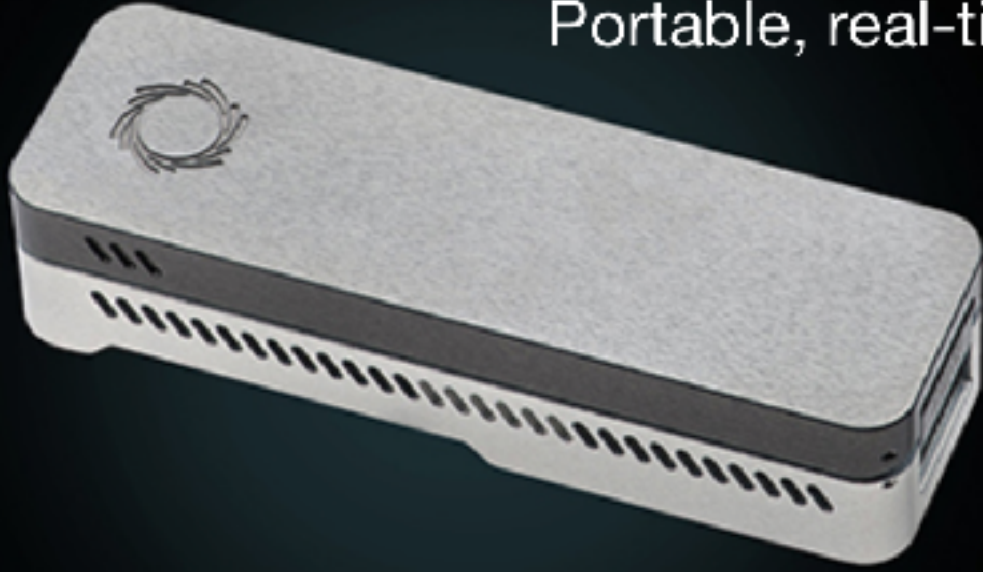


- ✦ 1953 - DNA'nın moleküler yapısı çözüldü.
- ✦ 2001 - ilk insan genomu dizilendi
- ✦ 2010 - 1000 Genomes Project



MinION

Portable, real-time biological analyses



MinION is a portable device for molecular analyses that is driven by nanopore technology. It is adaptable for the analysis of DNA, RNA, proteins or small molecules with a straightforward workflow. The MinION product specification is available [here](#).

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Nanoteknoloji DNA dizileme alıřmalarında
yeni ufuklar amıřtır.


İnsan genomu istatistikleri

- ✦ Genom boyutu 3,209 Mb
- ✦ Gen ve pseudogen 41,566
- ✦ mRNA 67,793
- ✦ Diğer RNA 16,914
- ✦ Protein 70,368

submitter: Genome Reference Consortium

Loc	Type	Name	RefSeq	INSDC	Size (Mb)	GC%	Protein	rRNA	tRNA	Other RNA	Gene	Pseudogene
Nuc	Chr	1	NC_000001.11	CM000863.2	248.96	42.3	9,684	17	89	3,889	4,778	1,050
Nuc	Chr	2	NC_000002.12	CM000864.2	242.19	40.3	6,720	-	7	3,206	3,600	853
Nuc	Chr	3	NC_000003.12	CM000865.2	198.3	39.7	5,616	-	4	2,403	2,780	668
Nuc	Chr	4	NC_000004.12	CM000866.2	190.22	38.3	3,617	-	1	2,072	2,251	581
Nuc	Chr	5	NC_000005.10	CM000867.2	181.54	39.5	3,949	-	17	2,017	2,393	579
Nuc	Chr	6	NC_000006.12	CM000868.2	170.61	39.6	4,674	-	143	2,107	2,020	685
Nuc	Chr	7	NC_000007.14	CM000869.2	159.35	40.7	4,292	-	19	2,099	2,598	710
Nuc	Chr	8	NC_000008.11	CM000870.2	145.14	40.2	3,293	-	4	1,786	2,003	499
Nuc	Chr	9	NC_000009.12	CM000871.2	138.4	42.3	3,964	-	3	1,982	2,132	553
Nuc	Chr	10	NC_000010.11	CM000872.2	133.8	41.6	4,352	-	3	1,856	2,042	484
Nuc	Chr	11	NC_000011.10	CM000873.2	135.09	41.6	5,413	-	13	2,063	2,806	689
Nuc	Chr	12	NC_000012.12	CM000874.2	133.28	40.8	4,986	-	9	1,999	2,398	536
Nuc	Chr	13	NC_000013.11	CM000875.2	114.36	40.2	1,675	-	4	1,141	1,327	408
Nuc	Chr	14	NC_000014.9	CM000876.2	107.04	42.2	2,836	-	18	1,516	1,951	480
Nuc	Chr	15	NC_000015.10	CM000877.2	101.99	43.4	2,909	-	9	1,629	1,721	432
Nuc	Chr	16	NC_000016.10	CM000878.2	90.34	45.1	3,844	-	27	1,543	1,845	348
Nuc	Chr	17	NC_000017.11	CM000879.2	83.26	45.3	5,426	-	34	1,921	2,326	405
Nuc	Chr	18	NC_000018.10	CM000880.2	80.37	39.8	1,568	-	1	901	938	222
Nuc	Chr	19	NC_000019.10	CM000881.2	58.62	47.9	5,885	-	7	1,621	2,420	432
Nuc	Chr	20	NC_000020.11	CM000882.2	64.44	43.9	2,529	-	-	1,125	1,243	232
Nuc	Chr	21	NC_000021.9	CM000883.2	46.71	42.2	1,081	-	1	620	726	179
Nuc	Chr	22	NC_000022.11	CM000884.2	50.82	47.7	2,217	-	1	903	1,129	281
Nuc	Chr	X	NC_000023.11	CM000885.2	156.04	39.6	3,329	-	4	1,010	1,973	703
Nuc	Chr	Y	NC_000024.10	CM000886.2	57.23	45.4	295	-	-	261	496	335
MT	Chr	MT	NC_012820.1	J01415.2	0.016569	44.4	13	2	22	-	37	-
	Un	-	-	-	144.26	44.5	8,326	4	184	3,089	5,540	1,551

Bir örnek: 23andMe

23andMe

Company Info

Fact Sheet

About 23andMe

23andMe, Inc. is the leading personal genetics company. Founded in 2006 by Linda Avey, Paul Cusenza, and Anne Wojcicki, the mission of the company is to help people access, understand and benefit from the human genome. 23andMe has more than one million customers worldwide, with over 80 percent consented to participate in research.

The Meaning Behind the Name

The name 23andMe refers to the fact that human DNA is organized into 23 pairs of chromosomes. 23andMe connects individuals to their unique, paired set of 23 chromosomes.


Big Data

- 23andMe has more than 1,000,000 genotyped customers.
- More than 80% of our customers have opted-in to participate in our research.
- To date, the company has collected 320 million phenotypic data points (individual survey responses).
- On an average week the company collects more than two million individual survey responses from our active online research community.
- On average, one individual contributes to 230 different research studies.
- To date, 23andMe has published more than 45 peer-reviewed studies in scientific journals.


Location

23andMe is headquartered in Mountain View, California.

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- Contact your DNA relatives across continents or across the street
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1

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2

Register

When it arrives, be sure to register your specific barcode number so we can process your results.



3

Send

Our DNA kit includes detailed instructions on how to provide your saliva sample. Once complete, send your kit back to us in the pre-paid packaging provided.

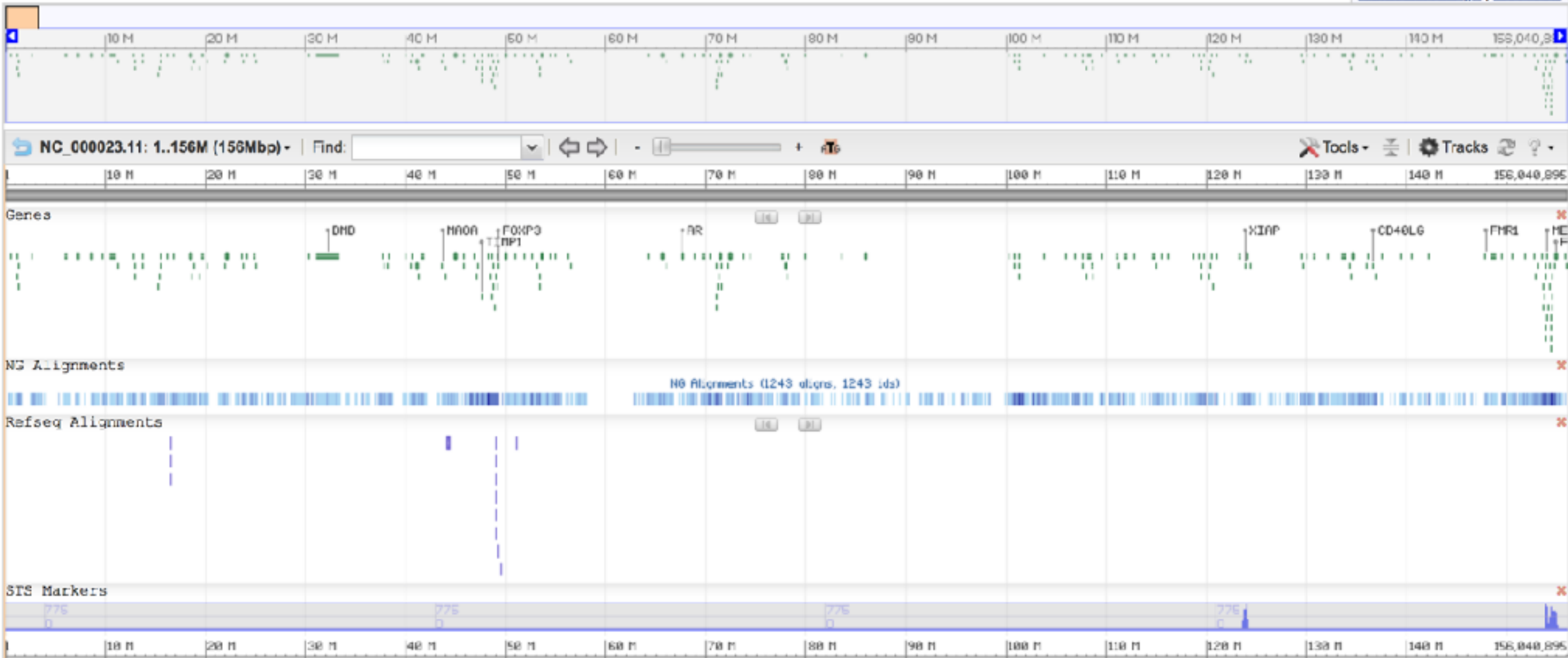
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Homo sapiens chromosome X, GRCh38.p2 Primary Assembly

NCBI Reference Sequence: NC_000023.11

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