

This cell line was deposited as a cell line derived from the African green monkey.

At the time of deposit, the African green monkey was included in the *aethiops* group of the genus *Cercopithecus*, but later, based on morphological and genetic studies, it was separated from *Cercopithecus* and is now classified in the genus *Chlorocebus*. Although the taxonomy of the African green monkey is controversial, the IUCN Red List of Threatened Species also follows a taxonomy of six or more animal species.^{1,2}

RIKEN CELL BANK performed mitochondrial Cytochrome C Oxidase Subunit 1 (COI) DNA barcoding analysis³ on all cell lines deposited as the African green monkey and confirmed that those cell lines were derived from three different animal species; Vervet monkey, Green monkey and Grivet monkey. Please refer to the next page.

Please also refer to the following documents for animal species identification of the African green monkey-derived cell lines.^{4,5}

1. Haus T, Akom E, Agwanda B, Hofreiter M, Roos C, Zinner D.
Mitochondrial diversity and distribution of African green monkeys (*chlorocebus* gray, 1870).
Am J Primatol. 2013 Apr;75(4):350-60. doi: [10.1002/ajp.22113](https://doi.org/10.1002/ajp.22113). Epub 2013 Jan 10. PMID: [23307319](https://pubmed.ncbi.nlm.nih.gov/23307319/); PMCID: [PMC3613741](https://pubmed.ncbi.nlm.nih.gov/PMC3613741/).
2. The IUCN Red List of Threatened Species
<https://www.iucnredlist.org/search?query=Chlorocebus>
3. Ratnasingham S, Hebert PD. bold: The Barcode of Life Data System (<http://www.barcodinglife.org>).
Mol Ecol Notes. 2007 May 1;7(3):355-364. doi: [10.1111/j.1471-8286.2007.01678.x](https://doi.org/10.1111/j.1471-8286.2007.01678.x). PMID: [18784790](https://pubmed.ncbi.nlm.nih.gov/18784790/); PMCID: [PMC1890991](https://pubmed.ncbi.nlm.nih.gov/PMC1890991/).
4. Osada N, Kohara A, Yamaji T, Hirayama N, Kasai F, Sekizuka T, Kuroda M, Hanada K.
The genome landscape of the african green monkey kidney-derived vero cell line.
DNA Res. 2014 Dec;21(6):673-83. doi: [10.1093/dnares/dsu029](https://doi.org/10.1093/dnares/dsu029). Epub 2014 Sep 28. PMID: [25267831](https://pubmed.ncbi.nlm.nih.gov/25267831/); PMCID: [PMC4263300](https://pubmed.ncbi.nlm.nih.gov/PMC4263300/).
5. Lung O, Candlish R, Nebroski M, Kruckiewicz P, Buchanan C, Moniwa M.
High-throughput sequencing for species authentication and contamination detection of 63 cell lines.
Sci Rep. 2021 Nov 4;11(1):21657. doi: [10.1038/s41598-021-00779-5](https://doi.org/10.1038/s41598-021-00779-5). PMID: [34737324](https://pubmed.ncbi.nlm.nih.gov/34737324/); PMCID: [PMC8569163](https://pubmed.ncbi.nlm.nih.gov/PMC8569163/).

COI DNA Barcoding results of the African green monkey cell lines

		Information at the time of cell line deposition		DNA Barcoding Results for COI gene (658bp)			
Cell No	Cell Name	Animal species name	scientific name	Animal species name	scientific name	identity (%)	Reference mitogenome accession
RCB0994	MA104	African green monkey	<i>Cercopithecus aethiops</i>	Vervet monkey	<i>Chlorocebus pygerythrus</i>	100	MT481926.1
RCB0001	Vero	African green monkey	<i>Cercopithecus aethiops</i>	Green monkey	<i>Chlorocebus sabaesus</i>	99.7	EF597503.1
RCB0272	Vero-317	African green monkey	<i>Cercopithecus aethiops</i>	Green monkey	<i>Chlorocebus sabaesus</i>	99.7	EF597503.1
RCB0706	Verots S3(SF)	African green monkey	<i>Cercopithecus aethiops</i>	Green monkey	<i>Chlorocebus sabaesus</i>	99.7	EF597503.1
RCB0707	Verots S3	African green monkey	<i>Cercopithecus aethiops</i>	Green monkey	<i>Chlorocebus sabaesus</i>	99.7	EF597503.1
RCB0143	COS-1	African green monkey	<i>Cercopithecus aethiops</i>	Grivet monkey	<i>Chlorocebus aethiops</i>	100	MN816163.1
RCB0160	CV-1	African green monkey	<i>Cercopithecus aethiops</i>	Grivet monkey	<i>Chlorocebus aethiops</i>	100	MN816163.1
RCB0539	COS-7	African green monkey	<i>Cercopithecus aethiops</i>	Grivet monkey	<i>Chlorocebus aethiops</i>	100	MN816163.1
RCB1374	1-8	African green monkey	<i>Cercopithecus aethiops</i>	Grivet monkey	<i>Chlorocebus aethiops</i>	100	MN816163.1
RCB1375	2-2	African green monkey	<i>Cercopithecus aethiops</i>	Grivet monkey	<i>Chlorocebus aethiops</i>	100	MN816163.1
RCB1376	2-7	African green monkey	<i>Cercopithecus aethiops</i>	Grivet monkey	<i>Chlorocebus aethiops</i>	100	MN816163.1
RCB2814	COS/Fucci	African green monkey	<i>Cercopithecus aethiops</i>	Grivet monkey	<i>Chlorocebus aethiops</i>	100	MN816163.1

Molecular phylogenetic tree estimation by maximum likelihood method using COI gene sequences.

