

Resource Summary Report

Generated by [NIF](#) on Sep 3, 2026

MGC-803

RRID:CVCL_5334

Type: Cell Line

Proper Citation

RRID:CVCL_5334

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_5334

Proper Citation: RRID:CVCL_5334

Description: Cell line MGC-803 is a Hybrid cell line with a species of origin Homo sapiens (Human)

Defining Citation: [PMID:24743803](#), [PMID:28107433](#), [PMID:28851942](#), [PMID:29683800](#), [PMID:29717028](#), [PMID:37543987](#), [PMID:38079103](#)

Comments: Miscellaneous: Formerly the CCRID database had 2 entries describing this cell line (3111C0001CCC000227, 3131C0001000700084). They were one of the sources for the STR profile of this entry., Problematic cell line: Contaminated. Seems to be an hybrid of HeLa and probably of a gastric cancer cell from an Asian individual. The STR profile is highly similar to that of HeLa yet shows some specific differences that suggest it is an hybrid cell line (PubMed=37543987; PubMed=38079103). Was originally thought to originate from a 53 year old male patient suffering from a poorly differentiated gastric mucinous adenocarcinoma..

Category: Hybrid cell line

Organism: Homo sapiens (Human)

Name: MGC-803

Synonyms: MGC803, MGc80-3

Cross References: BTO:BTO_0004953, EFO:EFO_0006286, ChEMBL-Cells:ChEMBL3706567, ChEMBL-Targets:ChEMBL3706566, Cosmic:2267321, GEO:GSM844588, GEO:GSM1374671, IARC_TP53:24858, PubChem_Cell_line:CVCL_5334, Ubigen:YC-C081, Wikidata:Q54905425

ID: CVCL_5334

Hierarchy: cvcl_0030

Record Creation Time: 20220427T220805+0000

Record Last Update: 20260829T234622+0000

Ratings and Alerts

No rating or validation information has been found for MGC-803.

Warning: Problematic cell line: Possibly contaminated. May be a derivative of HeLa and another cell of unknown origin. The STR profile is highly similar to that of HeLa yet shows some specific differences that suggest a possible hybrid cell line.

Registration: International Cell Line Authentication Committee, Register of Misidentified Cell Lines; ICLAC-00588.

Miscellaneous: Formerly the CCRID database had 2 entries describing this cell line (3111C0001CCC000227, 3131C0001000700084). They were one of the sources for the STR profile of this entry., Problematic cell line: Contaminated. Seems to be an hybrid of HeLa and probably of a gastric cancer cell from an Asian individual. The STR profile is highly similar to that of HeLa yet shows some specific differences that suggest it is an hybrid cell line (PubMed=37543987; PubMed=38079103). Was originally thought to originate from a 53 year old male patient suffering from a poorly differentiated gastric mucinous adenocarcinoma..

Data and Source Information

Source: [Cellosaurus](#)

Usage and Citation Metrics

We found 813 mentions in open access literature.

Listed below are recent publications. The full list is available at [NIF](#) .

Yu S, et al. (2026) Tumor-Derived Exosomal TAGLN2 Promotes Metastasis by Inducing Vascular Permeability and Angiogenesis via the NRP1/SEMA4D/YAP Axis. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 13(29), e21962.

Wei D, et al. (2026) OSMR coordinates a self-perpetuating circuit linking chemoresistance and neutrophil-driven immunosuppression in gastric cancer. Neoplasia (New York, N.Y.), 73, 101279.

Yin S, et al. (2026) Two New Naphthoquinone-Naphthalene Hybrid Dimers From a Marine-Derived Streptomyces Species. Chemistry & biodiversity, 23(3), e71043.

Huang W, et al. (2026) IGFL2 suppresses gastric cancer cell sensitivity to docetaxel by activating the Toll-like receptor signaling pathway. iScience, 29(6), 116246.

Cai G, et al. (2025) UMP functions as an endogenous regulator of NR4A1 to control gastric cancer progression. *Molecular cell*, 85(23), 4347.

Zhang T, et al. (2025) Intratumoral *Fusobacterium nucleatum* Recruits Tumor-Associated Neutrophils to Promote Gastric Cancer Progression and Immune Evasion. *Cancer research*, 85(10), 1819.

Xie Y, et al. (2025) KRT23 promotes proliferation invasion and metastasis of gastric cancer through epithelial-mesenchymal transition mediated by the PI3K/AKT/mTOR signaling pathway. *Translational cancer research*, 14(10), 6520.

Niu L, et al. (2025) Discovery of KMT5A repressed miR-99b cluster with potential to restore chemotherapy sensitivity in gastric cancer by regulating mitochondrial complex II and affecting OXPHOS. *Pharmacological research*, 221, 107996.

Wang HL, et al. (2025) Anovel anti-B7-H3 nanobody and its DM1 conjugate with marked anti-tumor activity against esophageal squamous cell carcinoma. *International journal of biological macromolecules*, 322(Pt 4), 147025.

Cao F, et al. (2024) Multiple approaches revealed MGc80-3 as a somatic hybrid with HeLa cells rather than a gastric cancer cell line. *International journal of cancer*, 154(1), 155.

Lakhani NJ, et al. (2024) First-in-Human Study with Preclinical Data of BCL-2/BCL-xL Inhibitor Pelcitoclax in Locally Advanced or Metastatic Solid Tumors. *Clinical cancer research : an official journal of the American Association for Cancer Research*, 30(3), 506.

Yang M, et al. (2024) Investigation of the mixed origins of the MGC-803 cell line reveals that it is a hybrid cell line derived from HeLa. *Human cell*, 37(2), 560.

Lu X, et al. (2023) Integrated proteome and phosphoproteome analysis of gastric adenocarcinoma reveals molecular signatures capable of stratifying patient outcome. *Molecular oncology*, 17(2), 261.

Yu J, et al. (2023) VPS35 promotes cell proliferation via EGFR recycling and enhances EGFR inhibitors response in gastric cancer. *EBioMedicine*, 89, 104451.

Dharan R, et al. (2023) Tetraspanin 4 stabilizes membrane swellings and facilitates their maturation into migrasomes. *Nature communications*, 14(1), 1037.

Hou J, et al. (2023) Androgen receptor promotes cell stemness via interacting with co-factor YAP1 in gastric cancer. *Biochemical pharmacology*, 217, 115849.

Xu H, et al. (2023) The natural product dehydrocurvularin induces apoptosis of gastric cancer cells by activating PARP-1 and caspase-3. *Apoptosis : an international journal on programmed cell death*, 28(3-4), 525.

Gong Z, et al. (2023) LncRNA LINC01094 Promotes Cells Proliferation and Metastasis through the PTEN/AKT Pathway by Targeting AZGP1 in Gastric Cancer. *Cancers*, 15(4).

Qiu B, et al. (2023) KAT8 acetylation-controlled lipolysis affects the invasive and migratory potential of colorectal cancer cells. *Cell death & disease*, 14(2), 164.

Wang Y, et al. (2023) Girdin acts as an oncogene in gastric cancer by regulating AKT/GSK3 β -catenin signaling. *Functional & integrative genomics*, 23(1), 29.