

Resource Summary Report

Generated by [NIF](#) on Aug 30, 2026

K-562

RRID:CVCL_0004

Type: Cell Line

Proper Citation

RRID:CVCL_0004

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_0004

Proper Citation: RRID:CVCL_0004

Description: Cell line K-562 is a Cancer cell line with a species of origin Homo sapiens (Human)

Sex: Female

Disease: Blast phase chronic myelogenous leukemia, BCR-ABL1 positive

Defining Citation: [PMID:163658](#), [PMID:367973](#), [PMID:528075](#), [PMID:570644](#), [PMID:924690](#), [PMID:2041050](#), [PMID:2140233](#), [PMID:2446768](#), [PMID:2465826](#), [PMID:2568171](#), [PMID:2985879](#), [PMID:3023859](#), [PMID:3159941](#), [PMID:3332852](#), [PMID:3335022](#), [PMID:3856862](#), [PMID:3857109](#), [PMID:3874327](#), [PMID:3930277](#), [PMID:6091813](#), [PMID:6582512](#), [PMID:6954533](#), [PMID:6996765](#), [PMID:7194480](#), [PMID:8142256](#), [PMID:8558913](#), [PMID:9290701](#), [PMID:9331090](#), [PMID:9510473](#), [PMID:9738977](#), [PMID:10071072](#), [PMID:10576511](#), [PMID:10700174](#), [PMID:10739008](#), [PMID:11021758](#), [PMID:11226526](#), [PMID:11248328](#), [PMID:11416159](#), [PMID:12506034](#), [PMID:12859996](#), [PMID:14642717](#), [PMID:15637111](#), [PMID:15748285](#), [PMID:15843827](#), [PMID:16408098](#), [PMID:16957166](#), [PMID:17088437](#), [PMID:18277095](#), [PMID:19372543](#), [PMID:20164919](#), [PMID:20215515](#), [PMID:20809971](#), [PMID:21269460](#), [PMID:21552520](#), [PMID:22068913](#), [PMID:22278370](#), [PMID:22347499](#), [PMID:22384151](#), [PMID:22460905](#), [PMID:22628656](#), [PMID:23325432](#), [PMID:23671654](#), [PMID:23856246](#), [PMID:23933261](#), [PMID:23955599](#), [PMID:24279929](#), [PMID:24618588](#), [PMID:24670534](#), [PMID:25485619](#), [PMID:25877200](#), [PMID:25960936](#), [PMID:25984343](#), [PMID:27377824](#), [PMID:27397505](#), [PMID:27807467](#), [PMID:28196595](#), [PMID:29509191](#), [PMID:30285677](#), [PMID:30629668](#), [PMID:30737237](#), [PMID:30894373](#), [PMID:31068700](#), [PMID:31160637](#), [PMID:31733513](#), [PMID:31978347](#), [PMID:32449352](#), [PMID:35819189](#), [PMID:35839778](#), [PMID:36982453](#), [PMID:38861359](#)

Comments: Population: Caucasian., Part of: NCI-60 cancer cell line panel., Part of: MD Anderson Cell Lines Project., Part of: LL-100 blood cancer cell line panel., Part of: Human

Protein Atlas, Cell Atlas panel., Part of: ENCODE project common cell types; tier 1., Part of: COSMIC cell lines project., Part of: Cancer Dependency Map project (DepMap) (includes Cancer Cell Line Encyclopedia - CCLE).

Category: Cancer cell line

Organism: Homo sapiens (Human)

Name: K-562

Synonyms: K562, K.562, K 562, KO, GM05372, GM05372E

Cross References: BTO:BTO_0000664, CLO:CLO_0007050, CLO:CLO_0007059, CLO:CLO_0024880, CLO:CLO_0050123, CLO:CLO_0050124, CLO:CLO_0050126, EFO:EFO_0002067, MCCL:MCC:0000261, CLDB:cl2967, CLDB:cl2969, CLDB:cl2970, CLDB:cl2971, CLDB:cl2972, CLDB:cl2973, CLDB:cl2974, CLDB:cl2976, CLDB:cl2978, CLDB:cl2979, CLDB:cl2980, CLDB:cl2981, CLDB:cl2982, CLDB:cl2984, 4DN:4DNSRP5XBV7W, 4DN:4DNSRWQFKJYO, Abcam:ab275469, AddexBio:C0003004/52, ArrayExpress:E-MEXP-2623, ArrayExpress:E-MTAB-38, ArrayExpress:E-MTAB-2706, ArrayExpress:E-MTAB-2770, ArrayExpress:E-MTAB-3610, ArrayExpress:E-MTAB-5197, ArrayExpress:E-MTAB-7061, ArrayExpress:E-MTAB-7721, ArrayExpress:E-MTAB-7722, ATCC:CCL-243, BCRC:60007, BCRJ:0126, BioGRID_ORCS_Cell_line:98, BioSample:SAMN03472111, BioSample:SAMN03473172, BioSample:SAMN03473407, BioSample:SAMN10988357, cancercellines:CVCL_0004, CCLV:CCLV-RIE 0439, CCRID:1101HUM-PUMC000039, CCRID:1102HUM-NIFDC00026, CCRID:3101HUMSCSP5054, CCRID:3101HUMTCHu191, CCRID:4201HUM-CCTCC00037, CCRID:5301HUM-KCB93038YJ, CCTCC:GDC0037, Cell_Model_Passport:SIDM00791, CGH-DB:9215-4, ChEMBL-Cells:ChEMBL3308378, ChEMBL-Targets:ChEMBL385, CLS:300224, Coriell:GM05372, Cosmic:683655, Cosmic:755290, Cosmic:759897, Cosmic:760646, Cosmic:787495, Cosmic:798223, Cosmic:798664, Cosmic:850384, Cosmic:851999, Cosmic:875864, Cosmic:897450, Cosmic:905940, Cosmic:919127, Cosmic:922682, Cosmic:924039, Cosmic:932771, Cosmic:949095, Cosmic:974253, Cosmic:991559, Cosmic:994173, Cosmic:998760, Cosmic:999774, Cosmic:1012074, Cosmic:1019830, Cosmic:1026565, Cosmic:1037680, Cosmic:1044253, Cosmic:1067445, Cosmic:1070699, Cosmic:1078718, Cosmic:1089521, Cosmic:1092608, Cosmic:1107181, Cosmic:1118473, Cosmic:1127251, Cosmic:1175856, Cosmic:1176584, Cosmic:1191694, Cosmic:1226862, Cosmic:1305338, Cosmic:1312324, Cosmic:1319552, Cosmic:1325761, Cosmic:1465965, Cosmic:1516632, Cosmic:1523829, Cosmic:1524846, Cosmic:1601068, Cosmic:1604867, Cosmic:1779132, Cosmic:1998450, Cosmic:2009516, Cosmic:2024372, Cosmic:2089675, Cosmic:2301564, Cosmic:2649242, Cosmic:2651386, Cosmic:2750873, Cosmic-CLP:905940, DepMap:ACH-000551, DSMZ:ACC-10, DSMZCellDive:ACC-10, ECACC:89121407, EGA:EGAS00001000610, EGA:EGAS00001000978, EGA:EGAS00001002554, ENCODE:ENCBS000CDD, ENCODE:ENCBS001TOZ, ENCODE:ENCBS001ZKL, ENCODE:ENCBS004ALC, ENCODE:ENCBS005AIZ, ENCODE:ENCBS005ZXA, ENCODE:ENCBS007IVF, ENCODE:ENCBS007KQB, ENCODE:ENCBS007ZNT, ENCODE:ENCBS008XYP, ENCODE:ENCBS010SYB, ENCODE:ENCBS011IBX, ENCODE:ENCBS012WJD, ENCODE:ENCBS013BQD, ENCODE:ENCBS013ENT, ENCODE:ENCBS013GDO, ENCODE:ENCBS013VIB, ENCODE:ENCBS014ZBK, ENCODE:ENCBS014ZUQ, ENCODE:ENCBS016BTC, ENCODE:ENCBS016SET, ENCODE:ENCBS016SXN, ENCODE:ENCBS016YMK, ENCODE:ENCBS017GMY, ENCODE:ENCBS017IKU,

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Ratings and Alerts

No rating or validation information has been found for K-562.

No alerts have been found for K-562.

Data and Source Information

Source: [CelloSaurus](#)

Usage and Citation Metrics

We found 8762 mentions in open access literature.

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

Chen TQ, et al. (2026) RBM15B recognizes H3K79me2 to guide selective m6A-modification of mRNA and enhance oncoprotein translation in MLL-r leukemia. The EMBO journal, 45(5), 1672.

Qiu Q, et al. (2026) Spatial mapping of RNA turnover kinetics and regulatory landscapes of mRNA stability in the mammalian brain. bioRxiv : the preprint server for biology.

Nathans JF, et al. (2026) Multichannel genomic recording of biological information with ENGRAM. Nature protocols.

Liu Z, et al. (2026) Functional regulation of GlycoRNA and progress in malignant tumors. Journal of translational medicine, 24(1).

Carlson HL, et al. (2026) MYST acetyltransferases are a targetable therapeutic vulnerability in SETBP1-mutant leukemia. bioRxiv : the preprint server for biology.

Ng HL, et al. (2026) BCR::ABL1-Induced Enhancer Reprogramming Uncovers Hypersensitivity of Ph+B-ALL Cells to Enhancer-Targeting Drugs. Advanced science (Weinheim, Baden-Wurtemberg, Germany), 13(25), e17231.

Sung HM, et al. (2026) Peroxidasin enables melanoma immune escape by inhibiting natural killer cell cytotoxicity. Molecular oncology, 20(5), 1161.

Ji JH, et al. (2026) The transcriptional repressor Fli1 inhibits proteostasis during nutrient stress to limit NK cell persistence in solid tumors. Immunity, 59(3), 717.

Wang K, et al. (2026) Peptide-centric local stability assay (PELSA) for sensitive identification of ligand-targeting proteins and binding sites at proteome scale. Nature protocols.

Le T, et al. (2026) Cell shapes decode molecular phenotypes in image-based spatial proteomics. Cell systems, 17(6), 101589.

Munoz MA, et al. (2026) NK cell dysfunction and interferon-?? production underlie autoinflammation in mevalonate kinase deficiency. Immunity, 59(6), 1726.

Yang L, et al. (2026) Trichostatin Analogues From the Karst Cave Associated *Streptomyces* sp. DX6D14. *Chemistry & biodiversity*, 23(5), e71334.

Barajas JM, et al. (2026) Tandem Duplications in UBTF Create XPO1-Dependent Nuclear Export Signals that Reveal a Leukemic Therapeutic Dependency. *Blood cancer discovery*, 7(1), 51.

Liu Y, et al. (2026) Integrated scFv identification and CAR T cell generation for AML targeting in vivo. *International journal of cancer*, 158(4), 994.

Wang J, et al. (2026) Systematic annotation of orphan RNAs reveals blood-accessible molecular barcodes of cancer identity and cancer-emergent oncogenic drivers. *Cell reports. Medicine*, 7(2), 102577.

Fang X, et al. (2026) The Disordered Region of ASXL1 Acts as an Auto-Regulator Through Condensation. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 13(17), e10999.

Zhang H, et al. (2026) Programmable iPSC-derived CAR-NK vesicles remodel the immune microenvironment and eradicate tumors. *Cell reports. Medicine*, 7(2), 102545.

Hosogane M, et al. (2026) Variant-specific interaction of kinectin 1 with the multi-tRNA synthetase complex regulates ER sheet organization. *iScience*, 29(1), 114303.

Daly J, et al. (2026) CRISPR activation screens map the genomic landscape of cancer glycome remodeling. *Cell genomics*, 6(4), 101139.

Zhu M, et al. (2026) Minimizing far-extending chromatin perturbation in genome editing preserves stem cell identity. *Cell stem cell*, 33(3), 470.