

# CELL PANEL

## LEUKEMIA CELL LINE PANEL

The Leukemia Cell Line Panel (ATCC® [TCP-1010™](#)) is composed of 7 leukemia cell lines representing Acute Myeloid Leukemia (AML), Acute Monocytic Leukemia (AMoL), Chronic Myeloid Leukemia (CML), and Acute Lymphoblastic Leukemia (ALL). Each culture contains genomic mutations in one or more of the following genes according to the Sanger COSMIC database: CDKN2A, KDM6A, TP53, NRAS, NOTCH1, PTEN, FBXW7, FLT3, KRAS, MLH1, and PIK3R1. The table below provides more information for the cell lines included in this panel.

| ATCC® No.                 | Name     | Tumor Source | Disease                            | Mutant Gene   | Zygoty   | Gene Sequence  | Protein Sequence  |
|---------------------------|----------|--------------|------------------------------------|---|--|--|---|
| <a href="#">CRL-2724™</a> | KASUMI-1 | primary      | acute myeloid leukemia (AML)       | TP53  | homozygous   | c.743G>A   | p.R248Q   |
| <a href="#">CCL-240™</a>  | HL-60    | primary      | acute myeloid leukemia (AML)       | CDKN2A<br>NRAS<br>TP53  | homozygous<br>heterozygous<br>homozygous   | c.238C>T<br>c.182A>T<br>c.1_1182del1182  | p.R80*<br>p.Q61L<br>p.0?  |
| <a href="#">TIB-202™</a>  | THP-1    | primary      | acute monocytic leukemia (AMoL)    | CDKN2A<br>KDM6A<br>NRAS   | homozygous<br>homozygous<br>heterozygous   | c.1_471del471<br>c.1_1923del1923<br>c.35G>A  | p.0?<br>p.0<br>p.G12D   |
| <a href="#">CCL-243™</a>  | K-562    | primary      | chronic myeloid leukemia (CML)     | CDKN2A<br>TP53  | homozygous<br>homozygous   | c.1_471del471<br>c.406_407insC   | p.0?<br>p.Q136fs*13   |
| <a href="#">CRL-1873™</a> | RS4;11   | metastasis   | acute lymphoblastic leukemia (ALL) | CDKN2A  | homozygous   | c.1_471del471  | p.0?  |
| <a href="#">CRL-1582™</a> | MOLT-4   | primary      | acute lymphoblastic leukemia (ALL) | CDKN2A<br>NOTCH1<br>NRAS<br>PIK3R1<br>PTEN<br>TP53                                    | homozygous<br>heterozygous<br>heterozygous<br>heterozygous<br>homozygous<br>heterozygous   | c.1_471del471<br>c.7544_7545delCT<br>c.34G>T<br>c.1355_1363>CTGGAGGGAGTAGGATTA<br>c.800delA<br>c.916C>T  | p.0?<br>p.P2515fs*4<br>p.G12C<br>p.Y452_Q455>SGGSRIK<br>p.K267fs*9<br>p.R306*                                 |
| <a href="#">CCL-119™</a>  | CCRF-CEM | primary      | acute lymphoblastic leukemia (ALL) | CDKN2A<br>FBXW7<br>FLT3<br>KRAS<br>MLH1<br>MLH1<br>NOTCH1<br><br>PTEN<br>TP53<br>TP53 | homozygous<br>heterozygous<br>heterozygous<br>heterozygous<br>heterozygous<br>heterozygous<br>heterozygous<br><br>homozygous<br>heterozygous<br>heterozygous | c.1_471del471<br>c.1393C>T<br>c.1879G>A<br>c.35G>A<br>c.298C>T<br>c.790+1G>A<br>c.4783_4784ins36<br><br>c.80_492del413<br>c.524G>A<br>c.743G>A | p.0?<br>p.R465C<br>p.A627T<br>p.G12D<br>p.R100*<br>p.?<br>p.R1595>PRLPHNSSF-HFLR<br>p.?<br>p.R175H<br>p.R248Q |

The mutation data was obtained from the Sanger Institute Catalogue Of Somatic Mutations In Cancer web site, <http://www.sanger.ac.uk/cosmic> Bamford *et al* (2004) The COSMIC (Catalogue of Somatic Mutations in Cancer) database and website. Br J Cancer, 91,355-358. ATCC and The Sanger Institute provide these data in good faith, but make no warranty, express or implied, nor assumes any legal liability or responsibility for any purpose for which the data are used.