

Transnetyx Human Cell Line ID Form Instructions

Transnetyx provides reliable, fast, and affordable STR-based human cell line authentication services and cell line species identification.

ANIS/ATCC ASN-0002-2011 recommends eight STR markers and one gender marker in human cell-line authentication: TH01, TPOX, vWA, CSF1PO, D16S539, D7S820, D13S317, D5S818, and Amelogenin.

GenePrint 10 includes co-amplification and 3-color detection of 10 human markers: D21S11, TH01, TPOX, vWA, CSF1PO, D16S539, D7S820, D13S317, D5S818, and Amelogenin for gender identification. These markers collectively provide a genetic profile with a random match probability of 1 in 2.92×10^9 .

GenePrint 24 includes a 24-locus multiplex system designed to generate a profile from a variety of human-derived biological sources. This 5-color system allows co-amplification and fluorescent detection of the following autosomal STR loci: CSF1PO, FGA, TH01, TPOX, vWA, D3S1358, D5S818, D7S820, D8S1179, D13S317, D16S539, D18S51, D21S11, D10S1248, D22S1045, D2S441, D1S1656, D12S391, D2S1338, D19S433, Penta D and Penta E, plus Amelogenin for gender determination. In addition, the male-specific DYS391 locus is included to identify null Y allele results for Amelogenin.

Species ID includes the use of cytochrome C oxidase I (COXI) to identify the species of cell cultures.

1. Please use the Transnetyx Human Cell Line ID Request Template.
2. Load each sample in a labeled tube
 - a) Cells ($> 1 \times 10^5$) should be washed with PBS 3x to remove media. Cells should be submitted on dry ice.
 - b) Genomic DNA (>5 ng/ μ L; 20 μ L) should be purified, preferably using the Qiagen DNAeasy kit and resuspended in TE. DNA can be submitted at ambient temperature.
3. Ship samples to Transnetyx LA
 - a) Use your carrier of choice to ship samples to Transnetyx (Laragen), 10601 Virginia Ave, Culver City, CA 90232.
 - b) For LA organizations eligible for courier service, please drop your samples at your designated pick-up locations
4. Email a copy of your completed template to sequencing@transnetyx.com

Template Instructions and Field Explanations:

- **Account Holder Name:** Name of account holder
- **Account Holder Email:** Account holder email (will be invoiced)
- **Organization:** University/Company Name
- **Payment Method:** (Dropdown menu) Purchase Order, Bill without PO Number, or Credit Card
- **Payment Value:** Optional field for PO number
- **User Name:** Optional field for name of user submitting order, if different than account holder
- **User Email:** Optional field for email address of user submitting order, if different than account holder
- **Date (MM/DD/YYYY):** Date order submitted
- **Tracking Number:** Optional field for shipment tracking number
- **Report Type:** (Dropdown menu) None, Reagent Grade, or GMP Reagent Grade
 - **None** will return data only.
 - **Reagent Grade** will return a summary report
 - **GMP Reagent Grade** will use GMP-grade reagents and return a report that includes chain of custody data.
- **Sample Name:** Please include the unique label on each tube
- **Sample Type:** (Dropdown menu) Cell Pellet, Cell Culture, Supernatant, gDNA, Other
- **Test Type:** (Dropdown menu) GenePrint 10, Geneprint 24, or Species ID
- **ATCC/DMSC Cell Line Name:** Official cell line name, if applicable
- **ATCC/DMSC Cell Line Number:** Official cell line number, if applicable