CROWN BIOSCIENCE

CRISPR/Cas9 Services for Cancer Disease Modeling

Unlock the Power of Gene Editing

A JSR Life Sciences Company

FACTSHEET

Discover the potential of gene editing with our comprehensive CRISPR/Cas9 services. With an extensive collection of cancer cell lines, tumor organoids, and *in vitro* and *in vivo* efficacy studies, you can revolutionize your drug discovery process and bring your research to the next level.

Extensive Biobank of Models

Our biobank has hundreds of options available for your research needs

- Access to diverse and well-characterized cell lines
- Patient-derived organoids for personalized research
- PDX-derived organoids for *in vivo* relevance
- *In vitro* validation services using **OrganoidBase™**
- Use 2D and 3D models in combination with high content imaging for in depth analysis of compound efficacy and mode of action

Disease Modeling

Capture disease relevance and patient population heterogeneity

- Viral host factor identification for understanding viral pathogenicity
- Predictive biomarker identification for companion diagnostics
- Immunotherapy assessment using immune checkpoint inhibitor resistant models
- Bridging *in vitro* and *in vivo*

Ready-to-Use Engineered Cell Lines

Bypass initial cell line generation for faster research

- Commercially available cell lines representing multiple tissues
- Hundreds of cell types
- Choose from pre-engineered **XenoBase®** cell lines
- Available assays include tumor cytotoxicity, cell killing, target expression, antibody binding, immune validation, invasion and differentiation

Gene Editing

Conduct conclusive gene function studies

- Knockout and knock-in options
- Single point mutations for studying protein function
- Knockdowns for reducing gene expression
- Lead screening and optimization using reporter/disease modeling cell lines or cell line derived xenograft models

Unlock New Possibilities for Your Research

Ready-to-Use Engineered Cell Lines

Modify, Screen, and Knockdown with Exceptional Precision and Speed

- ✓ Easily modify genes with cutting-edge technology
- ✓ Screen for mutations and knockdown gene expression
- ✓ Achieve conclusive experiments to validate or invalidate gene targets

A Process You Can Trust

Our milestone-measured process ensures that data is provided at key intervals, overcoming any limitations prior to project advancement.

Get in touch

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