

Y2H cDNA Library Screening Service: Supporting Gene Functional Analysis and Potential Drug Target Discovery

New York City, New York Jun 29, 2022 ([Issuewire.com](https://www.issuewire.com)) - Creative Biogene, as one of the most competitive biotechnology companies in the world, has extensive expertise and experience to provide customers with professional services and solutions to support research in biology, drug development, and pharmaceutical areas. With experience in gene delivery tool development, Creative Biogene is specialized in providing gene delivery and gene knockdown services that cover the full scope of biotechnology needs of early drug discovery and drug development. Recently, Creative Biogene announced the release of its [Y2H cDNA library screening service](#) which can be applied to support gene functional analysis and potential drug target discovery.

Creative Biogene can provide customers with a range of custom library construction services, including cDNA libraries, genomic libraries, BAC libraries, mutant libraries, and shotgun libraries. Y2H cDNA library screening searches for pairwise interactions between a defined protein of interest (bait) and its interacting partner (prey) present in a cDNA library or library sub-library. Creative Biogene has extensive expertise and experience to provide Y2H cDNA library screening services for scientists.

Creative Biogene's nucleoprotein Y2H library screening service was developed based on this technology, which can use pre-made or custom Y2H libraries to identify proteins that interact with customers' proteins of interest. In this service, the client's bait protein of interest is fused to the Gal4 DNA binding domain, while the "ORF" (prey) of the protein library of interest is fused to the Gal4 transcriptional activation domain (AD). Two plasmids expressing the bait and prey fusion proteins were co-transformed in the same cell.

Protein-protein interactions play an integral role in many cellular processes. Membrane protein interactions, in particular, have received increasing attention for their role in disease and their ubiquity as primary drug targets. However, the hydrophobicity of membrane proteins makes them difficult to study in a high-throughput format. As a leading biotechnology company, Creative Biogene can provide membrane protein Y2H library screening services to help efficiently and accurately discover novel membrane protein interactions.

"Creative Biogene has the expertise and experience to provide you with comprehensive Y2H library screening services, using your pre-made library or our custom Y2H library to identify proteins that interact with your protein of interest." said Marcia Brady, the marketing director of Creative Biogene, she also added, "We have sophisticated equipment, advanced technology, and experienced staff to provide you with personalized screening services to meet your analytical needs."

About Creative Biogene

Creative Biogene, is a top-of-its-kind company that holds a leading position and is committed to accelerating the development of human science through biotechnology, offering innovative technologies, products, unique tools, and services for research discoveries and product development. With more than 10 years of experience and in-house experts, Creative Biogene has become a well-recognized industry leader to support researchers worldwide.

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