

NUProtein Co., Ltd. Announces the Launch of the Innovative Technology Licensing Program "GenesCIS Elements and Methods"

- Sharing Knowledge to Shape the Future -

August 27, 2024, Awaji Island — NUProtein Co., Ltd., a leader in plant-based functional proteins innovation, is pleased to announce the launch of a new technology licensing program, "GenesCIS Elements and Methods." This program aims to widely share our wheat germ-based cell-free protein synthesis technology, driving innovation in the cultivated meat industry and the field of biochemical reagents.

"Bringing the Future of Functional Proteins to Everyone"

The new technology licensing program developed by NUProtein provides an accessible environment for companies and researchers to synthesize functional proteins, including growth factors. This program supports the acceleration of the cultivated meat industry and enables researchers in the biochemical field to access essential proteins quickly and cost-effectively.

According to the latest report by U.S.-based Roots Analysis, *"Cell Free System Market: Cell Free Expression Kits and Service Providers, 2023-2025"* (2023 edition), the cell-free protein synthesis market reached approximately \$275 million in 2023 and is expected to grow at a compound annual growth rate (CAGR) of 7.1% by 2035. The report also comprehensively reviews patents related to cell-free protein synthesis technology filed between 2015 and 2023, identifying NUProtein as one of the top five industry players in terms of patent strength. Through this program, NUProtein will make these critical patents available along with the associated know-how.

The program offers two licensing options: a short-term evaluation license and a commercial license. The evaluation license is intended for technical evaluation and trial use, while the commercial license supports commercial applications. Both licenses include access to the composition and extraction methods for reagents needed to isolate protein translation machinery from wheat germ, the formulation methods for amino acid mixtures necessary for translation reactions, and the optimized gene sequences for two types of functional proteins, along with the relevant intellectual property rights.

Additionally, the commercial license offers an optional gene optimization service using advanced gene design technology provided by the Nara Institute of Science and Technology (NAIST). This service allows commercial users to synthesize various functional proteins, such as bovine growth factors, more cost-effectively in a non-GMO environment, starting from food-grade wheat germ.

"Sharing Knowledge to Shape the Future"

NUProtein is seeking partners to share our accumulated research and technical knowledge, working together to create the future of the industry. Through this innovative licensing program, we aim to transform the next generation of meat production and biochemical research into more sustainable and efficient endeavors.