Eupheria Biotech

EUPHORIC ABOUT PHENOTYPES

dsRNA for AgroRNAi Research — Precision Gene Silencing in Insects and Agricultural Pests

RNA interference (RNAi) has emerged as one of the most promising approaches in pest management research. By delivering target-specific double-stranded RNA (dsRNA), researchers can achieve precise gene silencing in pest species — without the broad-spectrum effects of conventional insecticides.

Eupheria Biotech's RNAi-OPEN provides custom-synthesized long dsRNA specifically designed to support AgroRNAi studies and RNAi-based pest management research up to milligram scales.

RNAi-OPEN is tailored for scientific applications in **crop protection** and **entomology**: from target validation in established model systems to functional studies in economically significant pest species. We have successfully designed and produced dsRNAs for a range of agriculturally relevant insects, including the Colorado potato beetle (Leptinotarsa decemlineata), western corn rootworm (Diabrotica virgifera), southern green stink bug (Nezara viridula), and the red flour beetle (Tribolium castaneum), among others. Our **proprietary sequence design pipeline** identifies regions of optimal silencing efficiency for each target, ensuring reliable and reproducible knockdown results. An **integrated cross-species off-target analysis** ensures specificity for your target organism and minimizes effects on non-target species — a critical consideration in any AgroRNAi research program.

Custom dsRNAs from the Experts

All dsRNA is produced **GMO-free in Germany**, purified by ion-exchange chromatography, and rigorously quality-controlled by gel electrophoresis, UV spectrometry, and sequence verification.

With **over 20 years of RNAi expertise** and a **track record in peer-reviewed publications**, Eupheria Biotech is your scientific partner from sequence submission to final product delivery.

RNAi-OPEN for AgroRNAi — available in standard quantities of 30 µg and 50 µg, with custom mg-scale production on request.

Contact us for more information and personal support

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