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MicroRNA Detection Platform for Disease Monitoring and Diagnostics

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Description

This innovative technology leverages a cell-free gene expression system to create robust sensing platform that fluoresces when a specific target microRNA is detected in a sample. Designed primarily for use with patient serum, it represents a significant leap forward in non-invasive diagnostic and monitoring processes. The platform combines affordability, simplicity, and efficiency, making it an ideal solution for ongoing disease monitoring and extending its reach to underserved populations and regions.



Advantages:

- Non-invasive sample collection
- Inexpensive components
- User-friendly operation
- Facilitates more frequent disease monitoring for timely interventions
- Expands testing accessibility to low-income families and rural areas

Commercial Uses:

- Disease diagnostics and monitoring
- Point-of-care testing at many clinics
- Global health initiatives focusing on affordable diagnostic solutions
- Research tools for studying microRNA and its role in various diseases



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