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The ultimate qPCR based lncRNA profiling platform

lncRNAs represent an emerging important class of regulatory transcribed elements. The study of lncRNAs is timely and relevant, because of their implication in important cellular processes, through new modes of action. The lncRNA genes are generally low abundant, which is exactly why there is a genuine need for a platform with ultimate sensitivity superseding microarray based platforms. Biogazelle's qPCR service solution is the first to accommodate this need!

Biogazelle has developed a revolutionary platform for accurate and sensitive expression profiling of 1718 human long non-coding RNAs (lncRNAs). The platform consists of state-of-the-art validated qPCR assays for 1666 long intergenic ncRNAs (lincRNAs) and 52 lncRNAs.

Experiments are set-up in 5184-well SmartChips (Wafergen). A low-volume liquid handler enables fast and high-precision pipetting and low volume qPCR reactions to ensure fast turn-around times at affordable costs. The 1718 SYBR Green I RT-qPCR assays are strictly validated according to the MIQE guidelines, and meet Biogazelle's strict quality control criteria in terms of optimal PCR efficiency, specificity, sensitivity and linear dynamic range of quantification.

Data analysis is performed using our qbase^{PLUS} software, which is built upon a state-of-the-art quantification model. Thorough post-PCR quality control ensures reliable results. The calculation parameters and quality control settings are tailored toward the need of the lincRNA project. Both raw data and processed results (e.g. global mean normalized relative quantities) are delivered in an easy to understand format.

About Biogazelle

Biogazelle is the real-time PCR data analysis company, built upon a decade of experience in real-time PCR experiment design, assay development and data-analysis. Groundbreaking papers published by Biogazelle's founders Jo Vandesompele and Jan Hellemans on normalization of gene expression and data-analysis have been cited more than 3,500 times.

Biogazelle's expert knowledge and experience form the basis for its complete solution portfolio. The products and services are designed to accommodate the needs of all academic and industrial qPCR users.



Biogazelle's primary focus is providing state-of-the-art qPCR data-analysis software that guides users towards sound and powerful data-analysis. Other activities include 2-day qPCR training courses and consultancy where specialist knowledge is needed. Biogazelle is also an experienced service provider for academic and industrial customers, amongst others providing whole genome microRNA and long non-coding RNA gene expression profiling and data-analysis service.

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