

Target Gene Expression	
Service Title	Taqman Low Density Array (TLDA)
Workflow Code	PCR_TLDA
Short Service Description	Analyse gene regulation / expression in a quantitative fashion using customised or inventoried gene expression panels.
Base Price (Price per unit)	Price on enquiry
Turn Around Time	1 working day
Detailed Description and background	
<p>TaqMan® Arrays are used predominantly for validating the “interesting” hits from microarray assays because TaqMan® Arrays can be customized to include up to 384 of those hits in one easy-to-use card. TaqMan® Custom Arrays are ideal for screening biomarkers and toxicology panels and for analyzing pathways, target classes, and complete disease sets. TaqMan® Gene Expression Assays are highly specific and sensitive for real-time PCR. They are pre-loaded into a micro fluidic card, thus ensuring reliable performance.</p>	
Service Details	
<p>The TaqMan® Custom Array is a 384-well micro fluidic card. The card allows the researcher to perform up to 384 simultaneous real-time PCR reaction. Each card has 8 sample-loading ports, each connected to 48 reaction wells. The protocol involves simply pipetting the sample (pre-mixed with Master Mix) into each sample-loading port and briefly centrifuging. The cards may be primed with between 12-384 TaqMan® Gene Expression Assay targets for 1-8 samples to be run in parallel. Just select the TaqMan® Gene Expression Assays and the TaqMan® Array format for your experiment. Over 47,000 gene expression assays covering human, mouse, and rat genes are available. Using the TaqMan® Array is fast and simple.</p>	
Service Deliverable	
<p>Report includes the QC quality gate results, the raw data and an analysis report. Bioinformatic analysis and interpretation of data is optional.</p>	
Sample/Info Submission Info	
<p>1-8 samples may be run on each 384 well plate. The concentration of RNA per sample required is a minimum of 150ng in 10uL for effective cDNA synthesis for 80-100 reactions. RNA must be proven good quality (bioanalyzer trace) and 260/280 and 260/230 ratios between 1.8 and 2.1.</p>	
Pricing Details	Price on request
Key Words	gene expression. Taqman assay. qPCR RT-PCR. Genomic DNA. Pathway analysis. RNA. cDNA. TLDA. Microfluidic card. Validation. Biomarker profiling
Sample Shipping Address	Institute of Infectious Disease and Molecular Medicine, UCT, Faculty of Health Sciences, Wernher and Beit Building, Level 2, Lab S2.09, Anzio Road, Observatory, Cape Town 7925, South Africa
Related services	Bioinformatics. Sample Preparation. Microarray. Biomarker profiling

