**\*Required Fields**

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| **CUSTOMER DETAILS** | |
| **\*Name:** |  |
| **Reference ID:** |  |
| **\*Institute Name / Department** |  |
| **\*Address:** |  |
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| **\*Contact Number:** | (Office)       (Mobile) |
| **\*Email Address:** |  |
| **Principal Investigator / Supervisor:** |  |

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| **TYPE OF SERVICE** | | | |
| **Service Name** | **Type of analysis** | | **Description** |
| **MBS-2101 qPCR/RT-qPCR Optimization using customer-supplied primer sequences**  **MBS-2102 qPCR/RT-qPCR Optimization using in-house designed primer sequences**  Please select:  SYBR® green method  Probe method  Both SYBR® and Probe methods  **MBS-2103 qPCR Reaction**, duplicate reactions for each run. Price per run. | Copy number analysis        gene | Gene Expression analysis        gene | Service includes   * Primer (**NOT** Probe) synthesis * Generate standard curve of a gene (1 non-template control, serial dilutions of 5 data points, duplicates \**Customer to provide their own endogenous controls*)   Service includes   * generate qPCR raw data (Ct value, amplification curve, melt curve for SYBR green method only) |

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| **PLEASE PROVIDE ANY REFERENCE PAPER OR STATE CLEARLY ANY SPECIAL RESULTS DELIVERABLES** |
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| **TEMPLATE INFORMATION** |
| 1. Please indicate the type of Organism submitted      1. Please select type of sample submitted:   gDNA  total RNA  cDNA  Others; please specify |

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| **PRE-SERVICE ADD ON (Note: additional fees are applicable)** | | |
| **Quantity** | **Product No.** | **Type of Services** |
|  | MBS-6001 | DNA Preparation  Genomic DNA Extraction. Price per sample. |
|  | MBS-6103 | RNA Preparation  RNA Extraction. Price for each 100 mg of sample. |
|  | MBS-6100 | RNA LabChip Analysis  Total RNA (25 to 500 ng/uL), Eukaryotic, 18S and 28S, size 25 - 6000 bp. Price per chip (up to 12 samples). |
|  | MBS-6104 | RNA Preparation  Reverse Transcription PCR: First-strand cDNA (cDNA/RNA heteromer) synthesis by oligo(dT), using customer provided purified total RNA. Includes primer synthesis and gel photo of 2ul reaction mix. |
|  | MBS-2001 | PCR Optimization using customer-supplied primer sequences. Includes primer synthesis, all PCR reagents and Purification. Customer to provide template DNA and positive control template. Terms and conditions apply. |
|  | MBS-2003 | PCR Reaction using the Optimized Protocol obtained from MBS-2001 or MBS-2002. Includes all PCR reagents and Purification. Price per sample. |
|  | MBS-3002 | PCR Product Cloning Service (up to 1.5kb)  Include: Cloning of a purified/ unpurified PCR product into pJET1.2/ Blunt or pBASE-1 vector, colony PCR screening and DNA sequencing for confirmation. |
|  | MBS-6002 | DNA Analysis & Preparation. DNA digestion using Restriction Enzyme (RE):       and      . Price per sample. |
|  | MBS-6003 | DNA Preparation. Desphosphorylation of linearized destination vector and purification |

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| **MBS-2101 qPCR/RT-qPCR OPTIMIZATION USING CUSTOMER-SUPPLIED PRIMER SEQUENCES** | | |
| **Gene Information** | | |
| **Gene Name** | **Region (Start… End); Size (bp)** | **Primers information** |
|  | bp | Forward:  Reverse:  Probe:  Tm: |
|  | bp | Forward:  Reverse:  Probe:  Tm: |
|  | bp | Forward:  Reverse:  Probe:  Tm: |
|  | bp | Forward:  Reverse:  Probe:  Tm: |
|  | bp | Forward:  Reverse:  Probe:  Tm: |

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| **EXPERIMENT INFORMATION** | |
| **Types of experiment** | **Sample Name**  *\*For publication purposes, a minimum of 3 replicates is recommended* |
| Negative control |  |
| Positive control |  |
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| **MBS-2102 qPCR/RT-qPCR OPTIMIZATION USING IN-HOUSE DESIGNED PRIMER SEQUENCING** | | |
| **Gene Information** | | |
| **Gene accession no.** | **Gene Name** | **Region (Start… End); Size (bp)** |
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| **EXPERIMENT INFORMATION** | |
| **Types of experiment** | **Sample Name**  *\*For publication purposes, a minimum of 3 biological replicates is recommended* |
| Negative control |  |
| Positive control |  |
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| **POST-SERVICE ADD ON (Note: additional fees are applicable)** | |
| **Quantity** | **Type of Services** |
|  | SS1020 Agarose gel electrophoresis of qPCR product |
|  | SS1012 DNA Sequencing Sample Preparation - PCR Clean-up |
|  | SS1001 Single Pass DNA Sequencing |
|  | MBS-2104 qPCR/RT-qPCR data analysis |

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| **BEFORE SENDING YOUR ORDER TO 1ST BASE, PLEASE CHECK THAT YOU HAVE:** |
| * Prepared ≥ 1 μg of genomic DNA/ gene analysis. Purified gDNA in either TE or 10 mM Tris-HCl (pH8.0) elution buffer. Purified DNA meets OD260/280 1.8-2.0. * Prepared ≥ 5 μg of plasmid DNA/ gene analysis. Purified plasmid DNA in either TE or 10 mM Tris-HCl (pH8.0) elution buffer. Purified DNA meets OD260/280 1.8-2.0. * Prepared ≥ 1 μg of total RNA/ gene analysis. Purified total RNA is in RNase-free water. Its purity OD260/280 = 1.8 – 2.0. Please attach gel photo of total RNA. * Prepared ≥ 20 μl of cDNA/ gene analysis. Please attach gel photo of 2 μl cDNA. * Samples submitted in 1.5 ml microcentrifuge tubes with at least 10 μl of contents. Each tube should be clearly labelled using a permanent marker, with caps sealed with parafilm. DNA should be shipped at 4oC. RNA and cDNA should be shipped with dry ice. |