**\*Required Fields**

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| **CUSTOMER DETAILS** | |
| **\*Name:** |  |
| **\*Institute Name / Department** |  |
| **\*Address:** |  |
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| **\*Contact Number:** | **(Office)** **(Mobile)** |
| **\*Email Address:** |  |
| **Principal Investigator / Supervisor:** |  |
| **\*PO/ Standing Order No.:** |  |

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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:** |
| * Prepare ≥ 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. * Prepare ≥ 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. * Prepare ≥ 1 μg of total RNA/ gene analysis. Purified total RNA is in RNase-free water. Purified total RNA meets OD260/280 = 1.8 – 2.0. Please attach gel photo of total RNA. * Prepare ≥ 20 μl of cDNA/ gene analysis. Please attach gel photo of 2 μl cDNA. * Submit samples in 1.5ml microcentrifuge tubes with at least 10 µl of contents. Label the tubes clearly using permanent marker and seal cap with parafilm. Ship the samples in 4oC. DNA should be shipped at 4oC. RNA and cDNA should be shipped with dry ice. |