**\*Required Fields**

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| **CUSTOMER DETAILS**  |
| **\*Name:** |       |
| **Reference ID:** |       |
| **\*Institute Name / Department** |       |
| **\*Address:** |       |
|  |        |
| **\*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 PreparationGenomic DNA Extraction. Price per sample. |
|       | MBS-6103 | RNA PreparationRNA Extraction. Price for each 100 mg of sample. |
|       | MBS-6100 | RNA LabChip AnalysisTotal RNA (25 to 500 ng/uL), Eukaryotic, 18S and 28S, size 25 - 6000 bp. Price per chip (up to 12 samples). |
|       | MBS-6104 | RNA PreparationReverse 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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|       |       |       |
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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.
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