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| **IVT mRNA quotation request form** |
| **Customer Information** |
| **Company:** |
| **Contact Person:** |
| **Phone:** | **Email:** |
| **Shipping Address:** |
| **mRNA Information** |
| **mRNA Name:** |
| **DNA Template Source:** ☐ Provided by customer\* ☐ Provided by Blue Heron |
| **Template DNA length**: \_\_\_\_\_\_\_\_\_\_\_\_\_**Target mRNA length**: \_\_\_\_\_\_\_\_\_\_\_\_\_**DNA Template Type:** [ ]  Circular Plasmid [ ]  PCR Product If plasmid, what restriction enzyme to linearize your template: \_\_\_\_\_\_\_\_\_\_\_Total number of cut sites for this enzyme in your template: \_\_\_\_\_\_\_\_\_\*Note: ≥ 20ug of DNA template will be required for mRNA production.**Does the mRNA contain a T7 promoter?**[ ]  Yes. If so, please provide the T7 promoter sequence: \_\_\_\_\_\_\_\_\_\_\_  [ ]  No, add the following T7 promoter to the template: 5'TAATACGACTCACTATAAGG...3' **Does the mRNA contain a 5’UTR and 3’UTR?** [ ]  Yes [ ]  No **If yes**, **please copy and paste your UTR sequences:**5’ UTR: \_\_\_\_\_\_\_\_\_\_ 3’ UTR: \_\_\_\_\_\_\_\_\_\_  **If No, please choose which UTRs you want for your templates:**[ ]  HBB gene 5’ and 3’UTRs [ ]  HBA1 gene 5’ and 3’UTRs [ ]  If you prefer other UTRs, please provide the sequences: 5’UTR: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ 3’UTR: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_   |
| **mRNA Synthesis and Purification** |
| **5’ Cap structure:** [ ]  Yes (Default Cap1) [ ]  None |
| **Poly A tail:** [ ]  50nt [ ]  100nt [ ]  None |
| **Modifications:**  [ ]  None ­­[ ]  Pseudouridine (100% substitution) [ ]  N1-me-pseudouridine (100% substitution) [ ]  5-methoxyuridine (100% substitution) [ ]  5-me-Cytidine (100% substitution) |
| **Purification:**[ ]  Silica membrane-based method (Default) [ ]  Other: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **Storage Buffer:** [ ]  Nuclease-free water [ ]  1mM Sodium citrate, pH6.4  |
| **mRNA scale:** [ ]  100ug (Default) [ ]  150ug  [ ]  200ug  | **Concentration adjustment:**[ ]  No (typically 0.5-1mg/ml)[ ]  Yes \_\_\_\_mg/ml (Fees may apply) |
| **QC**  |
| **Standard mRNA QC** [x]  Visual Appearance.[x]  mRNA Concentration and purity using nanodrop. [x]  mRNA size, integrity and purity using PAGE or agarose gel.[x]  pH value using pH meter.**Additional mRNA QC Items with extra fee:**[ ]  Capping efficiency by TBE-Urea gel analysis[ ]  mRNA length by CE + size-based integrity by CE[ ]  Endotoxin test by LAL |

**Please provide your ORF sequences:**

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| **mRNA 1** |
| mRNA Name: |
| ORF from the ATG start codon to the stop codon (TAA,TAG or TGA): |
| **mRNA 2** |
| mRNA Name: |
| ORF from the ATG start codon to the stop codon (TAA,TAG or TGA): |
| **mRNA 3** |
| mRNA Name: |
| ORF from the ATG start codon to the stop codon (TAA,TAG or TGA): |
| **mRNA 4** |
| mRNA Name: |
| ORF from the ATG start codon to the stop codon (TAA,TAG or TGA): |
| **mRNA 5** |
| mRNA Name: |
| ORF from the ATG start codon to the stop codon (TAA,TAG or TGA): |
| **mRNA 6** |
| mRNA Name: |
| ORF from the ATG start codon to the stop codon (TAA,TAG or TGA): |
| **mRNA 7** |
| mRNA Name: |
| ORF from the ATG start codon to the stop codon (TAA,TAG or TGA): |
| **mRNA 8** |
| mRNA Name: |
| ORF from the ATG start codon to the stop codon (TAA,TAG or TGA): |