

Eurofins Genomics Blue Heron Biotech, LLC. 22310 20th Avenue SE #100 Bothell, WA 98021 USA

Phone: 425.368.5000

Email: sales@blueheronbio.com

| mRNA Information  |  |  |
|---|--|--|
| DNA Template Source:  |  |  |
| ☐ Provided by customer* ☐ Provided by Eurofins Genomics   |  |  |
| 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: ≥ 50ug of DNA template will be required for mRNA production.   |  |  |
| Does the DNA template contain a T7 promoter?  ☐ Yes. If so, please provide the T7 promoter sequence: ☐ No, add the following T7 promoter to the template: ☐ 5'TAATACGACTCACTATAAGG3'        |  |  |
| Does the DNA template 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: |  |  |
| Adding Kozak sequence [GCCGCCACC] after 5'UTR and before start codon: Yes No  |  |  |
| Kozak seguence is essential for the RNA for expression in eukaryotes.   |  |  |



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| 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)  ☐ Yesmg/ml (Fees may apply) |  |
| QC   |   |  |
| <ul> <li>Standard mRNA QC</li> <li>☑ Visual Appearance.</li> <li>☑ mRNA Concentration and purity using nanodxrop.</li> <li>☑ mRNA size, integrity and purity using PAGE or agarose gel.</li> <li>☑ pH value using pH meter.</li> </ul> Additional mRNA QC Items with extra fee: <ul> <li>□ Capping efficiency by TBE-Urea gel analysis</li> <li>□ mRNA length by CE + size-based integrity by CE</li> <li>□ Endotoxin test by LAL</li> </ul> |   |  |



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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): |  |