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mRNA Information

mRNA Name:

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: ≥ 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: _____

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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:	**Concentration adjustment:**
☐ 100ug (Default) ☐ 150ug ☐ 200ug	☐ No (typically 0.5-1mg/ml) ☐ Yes ____mg/ml (Fees may apply)

QC

Standard mRNA QC
☐ Visual Appearance.
☐ mRNA Concentration and purity using nanodrop.
☐ mRNA size, integrity and purity using PAGE or agarose gel.
☐ 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

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):