

User Guide: Gene Synthesis Product

Dear Customer,

Thank you for your trust and support in us! Before using Quintara Bioscience gene synthesis products, please read the following instructions.

✧ Plasmid

The recombinant plasmids containing the target sequence inserts are delivered as lyophilized powder. Lyophilized plasmid DNA pellet appears as either transparent or an off-white thin-film, and is typically accumulated at the bottom of the centrifuge tube. Centrifuge the tube briefly before opening with extra caution to prevent accidental loss of plasmid DNA.

Our standard deliverable for regular gene synthesis services is approximately 4µg plasmid per vial. We suggest dissolve the plasmid with 40-50µL sterilized distilled deionized (dd) water or 1X TE buffer. The plasmid concentration in the resultant solution is approximately 100ng/µL. You can also dissolve the plasmid according to your specific experiment requirement.

Once dissolved, please store the plasmid at -20°C for long-term storage. Avoid frequent thawing and re-freezing as such procedures will cause plasmid degradation.

The plasmid DNA we provided meet the standards to be used in most general molecular biology experiments, e.g. PCR reaction, enzyme digestion/ligation, plasmid transformation and plasmid sequencing etc.

✧ COA Files

The COA files associated with synthetic gene products and other molecular biology services are delivered as a compressed folder in .rar format. The

folder contains the following documents:

1. **.seq file** --- The final target sequence generated associate with your specific order. This file can be opened with DNASTAR® SeqMan or simply with NotePad as .txt files.
2. **.abi/.ab1 file** --- This is the sequence chromatograms (trace) data of the target gene sequence. The file can be viewed with Chromas software.
3. **.sqd file** --- Sequence alignment data between the target sequence (.seq) and the sequencing results (.abi). This file can be viewed with DNASTAR® SeqMan
4. **.pdf file** --- Each product typically has two pdf files. One of them is the pdf version of the .sqd file. The other contains the QC information.

✧ Storage Condition

Plasmid Storing at -20°C