DNA Assembly FAQ

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How do I order DNA fragments for building on the BioXp?

You can sign up for an account at https://customer.codexdna.com/accounts/login/.
Please contact egriffit@fredhutch.org or Codex DNA for the ordering guide and assistance.

Will every sequence be synthesized?

Some sequences are more difficult or impossible to synthesize (for example, those high in GC or containing many repetitive sequences). The ordering portal has a complexity checker that will determine if a sequence is likely to be synthesized.

How long does it take?

Once an order is made, the reagents should arrive in three to five business days. The BioXp run takes one additional day.

What DNA fragment lengths can be ordered?

DNA fragments between 300 and 1800 base pairs can be assembled. Up to 32 fragments can be assembled in each BioXp overnight run.

How much does it cost?

To see Fred Hutch prices for running Codex DNA reagents on the BioXp, you must log into the Fred Hutch iLab page. Click on *Immune Monitoring* and then *DNA Assembly*.

For questions about the cost of reagents, please contact egriffit@fredhutch.org.

How does shipping work?

Please have the reagents shipped to your lab. Once you receive the reagents, bring them to IML (as well as linearized vector if cloning on the BioXp). If it is brought to IML by 2pm, the product will be ready for pickup the next morning.

What is the expected amount of dsDNA?

200ng to 10ug

What is the error rate?

1:10,000 to 1:30,000 base pairs

Can the DNA fragment be used directly to clone into a vector?

Potentially, yes. Sometimes there are byproducts from the BioXp reaction. These can be visualized by running the product on a DNA gel. If there are other bands present, we advise doing a gel extraction on the properly sized band.