

oPools Oligo Pools

Start from solid bases

oPools Oligo Pools are single-stranded DNA sequences used for CRISPR library construction, primer pools for multiplex PCR, data storage, and gene construction.

oPools are manufactured using IDT's next generation synthesis platform, allowing us to produce high quality, long oligos up to 350 bases (Figures 1–3). With IDT oPools, customers can receive their pooled DNA sequences as the highest quality oligos with excellent uniformity and yields (Figure 2) that make PCR amplification unnecessary.

Product specifications:

- 40–350 bases long
- Up to 20,000 oligos per pool; shipped dry
- 1, 10, or 50 pmol per oligo
- Turnaround time: 4–7 business days
- N or K bases (limited to 3 wobble bases per oligo, handmix only)
 - N = A, C, G, and T
 - K = G and T
- Phosphorylation (5') available

benefits

Get started immediately: fast delivery and no amplification required

Reduce experimental variability with more complete coverage

Leverage your budget to screen more targets

Discover more at
www.idtdna.com/oPools

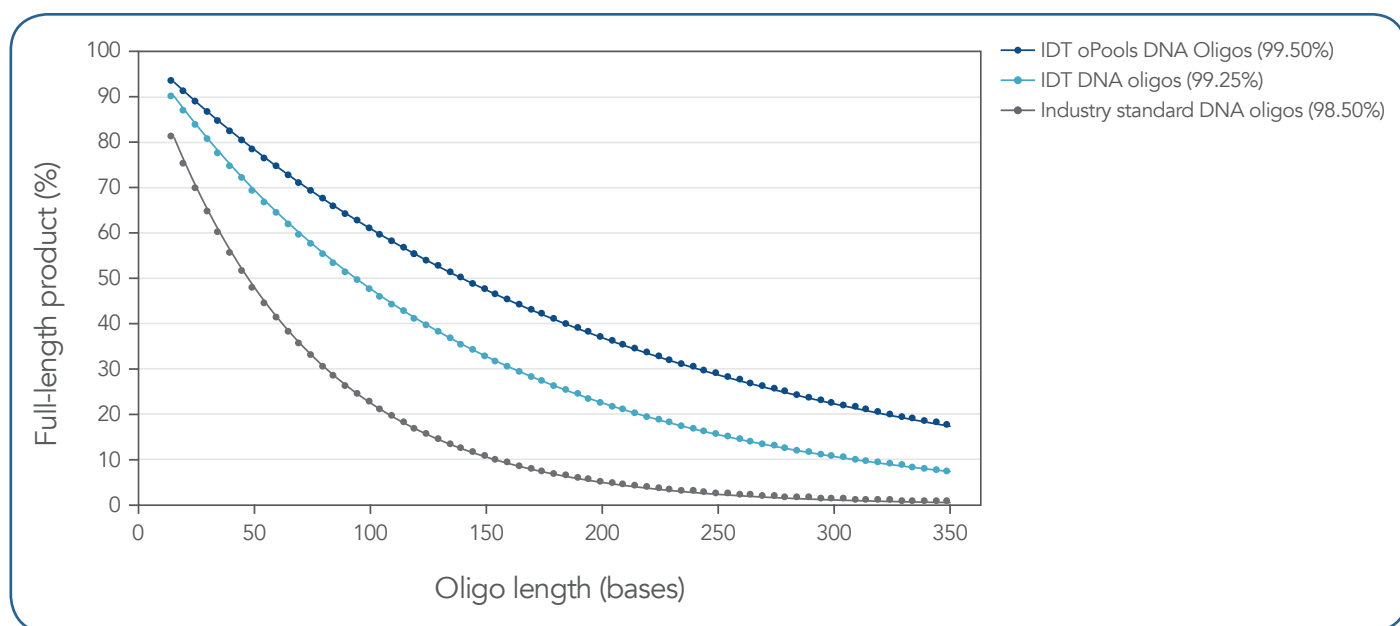


Figure 1. IDT proprietary DNA synthesis equipment permits rapid, high quality synthesis of nucleic acids. Full-length product received is determined by coupling efficiency. oPools DNA oligos are manufactured on the same proprietary synthesis platform as IDT Ultramers and offer higher coupling efficiencies than our standard DNA oligos and industry standards. As seen in the graph, coupling efficiency becomes increasingly important as oligo length increases.

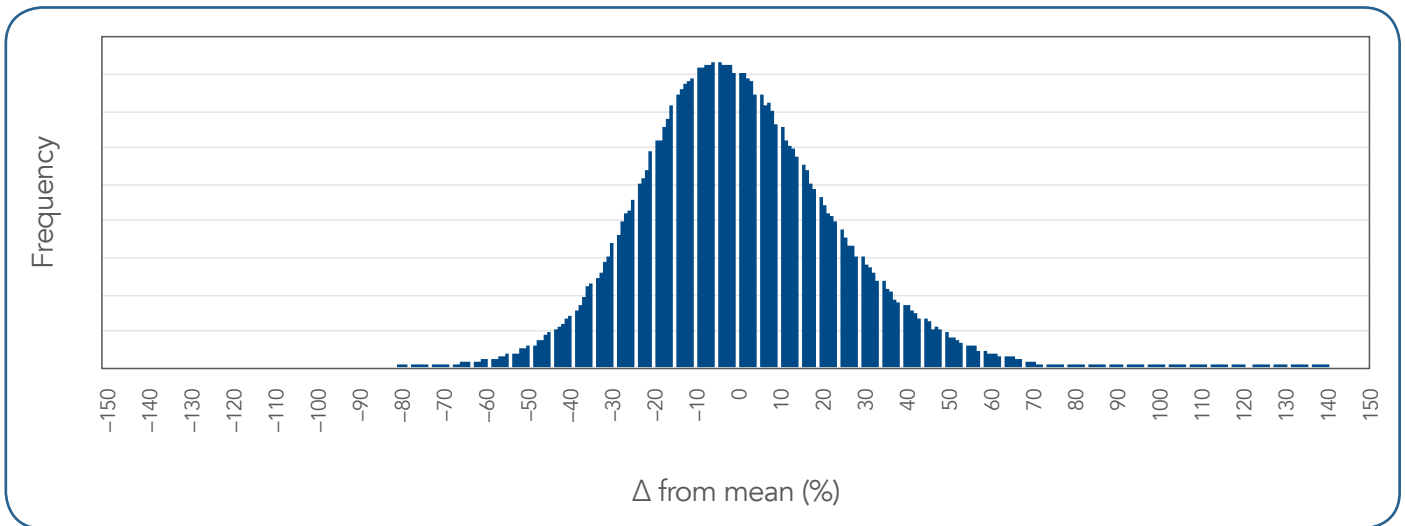


Figure 2. IDT proprietary DNA synthesis results in an even yield distribution of oPools oligos. This even yield distribution is shown here as a function of % difference from the mean. The standard deviation observed across ½ million sequences is less than 23% of the mean, demonstrating a high level of uniform sequence representation.

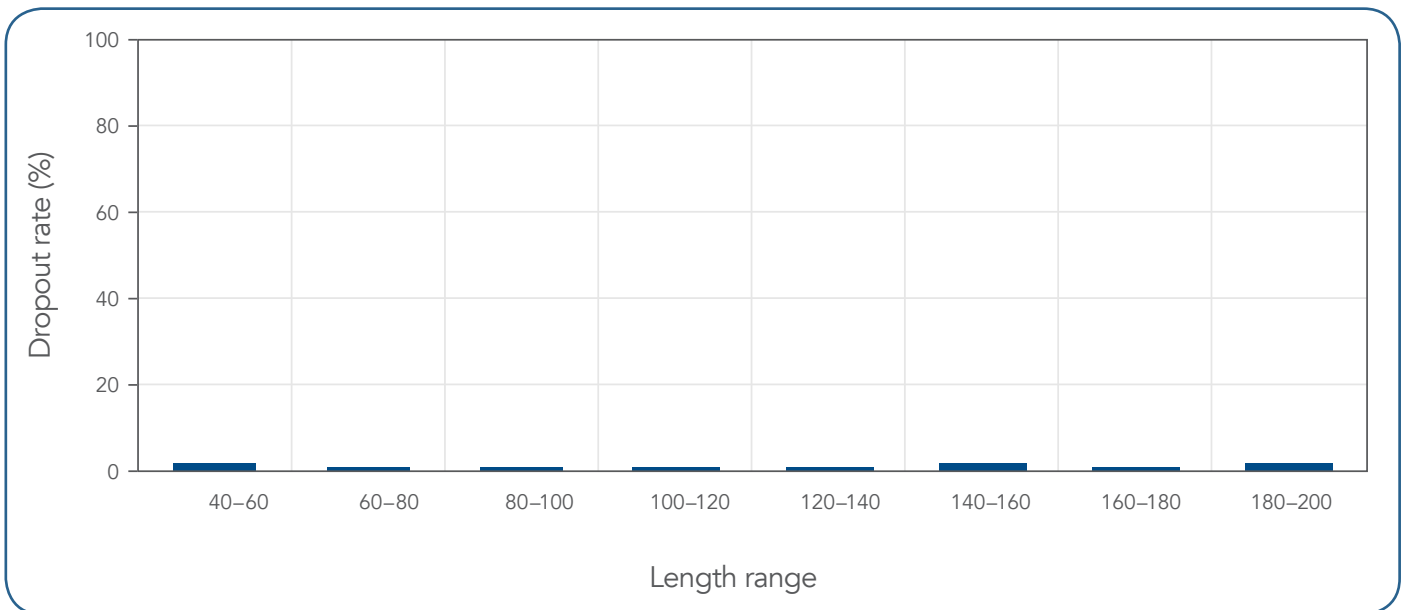


Figure 3. oPools oligo pools demonstrate exceptionally low dropout rates. Dropout rate refers to the likelihood that any individual sequence is not present in the final pool. This rate can vary by length and sequence complexity. The average dropout rate for oPools oligos across all length ranges was observed to be under 1% based on a sample size of over 900,000 oligos. Dropout rates are plotted by length range.

Ordering information

Product	Size	# of oligos/pool	Catalog #
oPools Oligo Pools	1 pmol/oligo	100 to 20,000	Order at www.idtdna.com/site/order/poolentry
	10 pmol/oligo	10 to 2000	
	50 pmol/oligo	2 to 384	

Oligo pools are shipped dry. If you have custom needs, please contact Genes@idtdna.com.

For more information and to order, visit www.idtdna.com/oPools.

For Research Use Only. Not for use in diagnostic procedures.

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