



# oPools™ Oligo Pools

Start from solid bases



**Save time**  
with fast delivery and no  
amplification required



**Reduce experimental variability**  
with more complete coverage



**Leverage your budget**  
to screen more targets

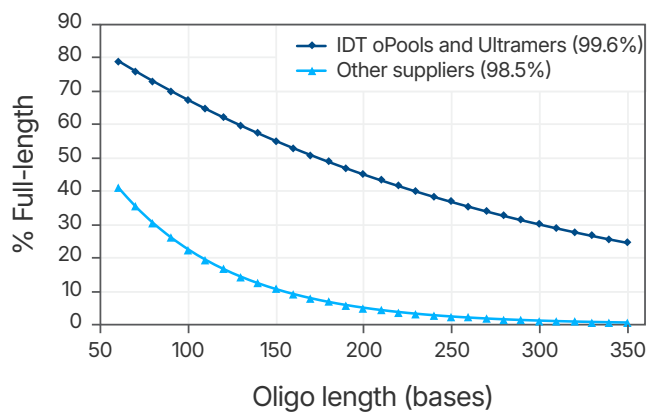
oPools Oligo Pools are single-stranded DNA sequences used for CRISPR library construction, primer pools for multiplex PCR, gene construction, data storage, and FISH analysis.

oPools Oligo Pools are manufactured using IDT's next generation synthesis platform, for the production of high-quality, long oligos (**Figures 1-2**), up to 350 bases (**Table 1**). IDT oPools provide customers pooled DNA sequences with excellent uniformity and yields (**Figure 2**), making PCR amplification unnecessary.

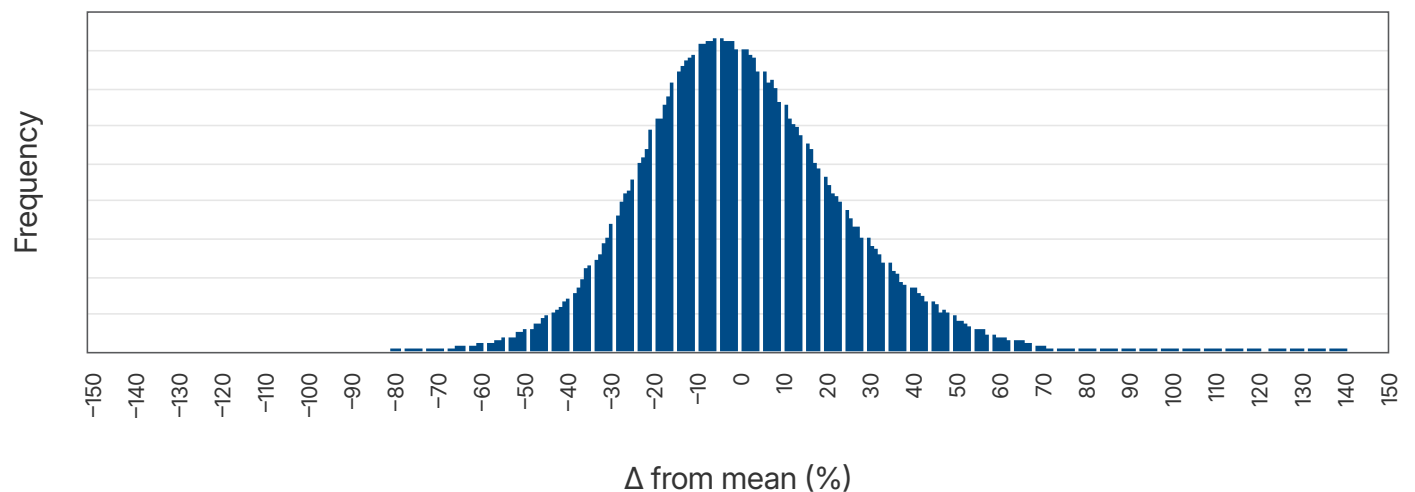
oPools Oligo Pools exhibit low dropout rates. Dropout rate refers to the likelihood that any individual sequence is not present in the final pool. This rate can vary by length and sequence complexity. The average dropout rate for oPools oligos was 0.8% based on a sample size of over 900,000 oligos.

**Table 1. Product specifications**

|                           |   |
|---------------------------|---|
| Oligo length              | 40–350 bases  |
| Number of oligos per pool | Up to 20,000  |
| Amount of each oligo      | 1, 10, or 50 pmol   |
| Mixed bases               | N = A, C, G, and T<br>K = G and T<br>Limited to 9 mixed bases per oligo |
| Modifications             | 5' phosphorylation  |
| Shipping conditions       | Dry   |
| Time to ship              | 4–7 business days   |



**Figure 1. Amount of full-length product received is determined by coupling efficiency.** oPools Oligo Pools are manufactured using the same proprietary synthesis platform as Ultramer™ oligos (IDT) and offer higher coupling efficiencies than industry standards. As seen in the graph, coupling efficiency of oPools Oligo Pools (99.6%) means that longer oligos can be synthesized in comparison to another supplier which have a coupling efficiency of 98.5%.



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

## Ordering Information

| Product            | Size (pmol/oligo) | # of oligos/pool | Ordering information  |
|--------------------|-------------------|------------------|---|
| oPools Oligo Pools | 1                 | 100–20,000       | Order at <a href="http://www.idtdna.com/site/order/poolentry">www.idtdna.com/site/order/poolentry</a> |
|                    | 10                | 10–2000          |   |
|                    | 50                | 2–384            |   |

Oligo pools are shipped dry. If you have custom needs, please contact [Genes@idtdna.com](mailto:Genes@idtdna.com).

For more information, visit [idtdna.com/oPools](http://idtdna.com/oPools)



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