

January 2017

To Whom It May Concern:

This letter is to confirm that Integrated DNA Technologies' customers have the right under IDT patents and patent applications (the IDT Patent Rights) to use oligonucleotide probes labeled with Iowa Black FQ[®], Iowa Black RQ[®], TAO[™], and/or ZEN[®] quenchers in research, commercial, and diagnostic applications, when those oligonucleotide probes are purchased from Integrated DNA Technologies. Integrated DNA Technologies' customers may purchase such probes with the associated license rights from either IDT's research business unit or its diagnostics (GMP) business unit. No further license agreement or licensing payments are required to exercise these rights.

In the event of any conflicting statement regarding the "research use only" limitations of the probes included on IDT's certificates of analysis, specification sheets, or website, this letter shall supersede any such statement, and shall govern the permitted applications of the probes.

The permission granted herein applies expressly to the U.S. patents listed in the attached, and all foreign counterparts, including without limitation patents and patent applications issued or pending in Europe. This letter creates no legal obligation on IDT to manufacture or sell probes to Integrated DNA Technologies' customers at any price or in any quantity. All terms of oligonucleotide probe supply shall be governed by separate quotations or agreements. This letter does not confer any additional rights under any IDT or third-party patents, and IDT makes no warranty regarding the validity or enforceability, of these patent rights, nor any warranty that the use of IDT probes will not infringe (or will not require licenses under) any third-party patent.



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IDT PATENT RIGHTS

Regarding Iowa Black Quencher Technology

US Patent No. / Serial No.	Issued/Filed Date	Expiration	Title
7,439,341	October 21, 2008	4/21/2026	Fluorescence Quenching Azo Dyes, Their Methods of Preparation and Use
12/252,721	October 16, 2008	Estimated 4/21/2026	Fluorescence Quenching Azo Dyes, Their Methods of Preparation and Use
7,803,536	June 10th, 2004	5/14/2027	Anthraquinone Quencher Dyes, Their Methods of Preparation and Use
12/853,755	August 10, 2010	Estimated 5/14/2027	Anthraquinone Quencher Dyes, Their Methods of Preparation and Use
7,476,735	January 13, 2009	4/24/2027	Compounds and Methods for Labeling Oligonucleotides
7,605,243	October 20, 2009	4/24/2027	Compounds and Methods for Labeling Oligonucleotides
7,645,872	August 4, 2009	4/24/2027	Compounds and Methods for Labeling Oligonucleotides
8,030,460	August 10, 2010	4/24/2027	Compounds and Methods for Labeling Oligonucleotides
13/224,571	September 2, 2011	Estimated 4/24/2027	Compounds and Methods for Labeling Oligonucleotides
8,916,345	March 28, 2011	4/6/2032	Methods for Enhancing Nucleic Acid Hybridization

