

Cost-Effective Dyes for Your qPCR or Genotyping Experiments

Safe Money and use our cost-effective alternatives for patent-protected dyes.

Alternatives

Microsynth offers cost-effective dye alternatives for the patent-protected dyes VICTM, NEDTM, PETTM, and LIZTM with nearly identical emission and absorptions properties.

Easy-to-Use

No changes in channel and filter settings on your sequencer or qPCR machine are needed (e.g. ABI 3100, 3130, 3730, ABI Prism 7000, 7700, Rotorgen 3000, 6000 and others).

Customer Proven

Thousands of probes for qPCR and modified oligos have been produced using the dye alternatives (see table below). And our customers like them.

Your Benefits Include

All modified oligos and dual-labelled probes are **quality controlled** by MALDITOF MS – **Fast delivery** within 3 business days – You can expect **high quantities** for each modified

oligo or each dual-labelled probes (≥ 1.5 OD₂₆₀) – Upon request we aliquote your **dual-labelled probes** in 5 tubes to enhance the stability free of charge – The possibility to use cost-ef-

fective alternatives to MGB probes and LNA chemistry (propynyl bases) – Professional **probe design service** available free of charge – Our experts are happy to assist you!

| Alternative Dye | Replaced Dye | Max. Absorption ²⁾ | Max. Emission ²⁾ |
|-----------------------------|-------------------|-------------------------------|-----------------------------|
| Yakima Yellow ¹⁾ | VIC TM | 530 nm | 549 nm |
| ATTO 532 ¹⁾ | VIC TM | 532 nm | 553 nm |
| ATTO 550 | NED TM | 554 nm | 576 nm |
| ATTO 565 | PET TM | 563 nm | 592 nm |
| Dynamics 630 | LIZ TM | 636 nm | 657 nm |

1) Yakima Yellow is the preferred alternative dye for qPCR applications and ATTO 532 for fragment analysis.
2) Wavelengths of absorption and emission are dependent on buffer conditions (pH, salts), oligo sequence, and other factors

Important – Please Note!

- You need a functional qPCR assay? Then leave it up to us to design and validate your qPCR assay (singleplex or multiplex).
- Neither time, resources or the experience to set-up and perform a sound

qPCR experiment? Then consider to outsource the entire project to us.
• Please contact us to get more information at realtime@microsynth.ch

