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VIC phosphoramidite, 6-isomer
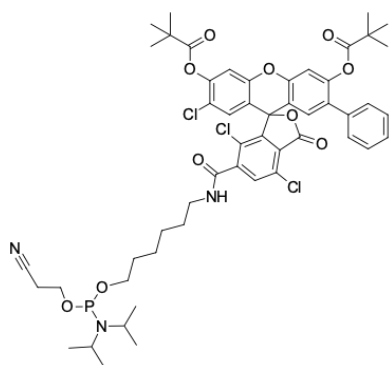
http://www.lumiprobe.com/p/vic-amidite-6

VIC is an asymmetrical xanthene dye (two flanking rings are not the same). This dye is used for the design of qPCR probes. The spectral properties of VIC are similar to HEX and JOE.

This phosphoramidite reagent allows to introduce the label onto 5'-terminus of the oligonucleotide.
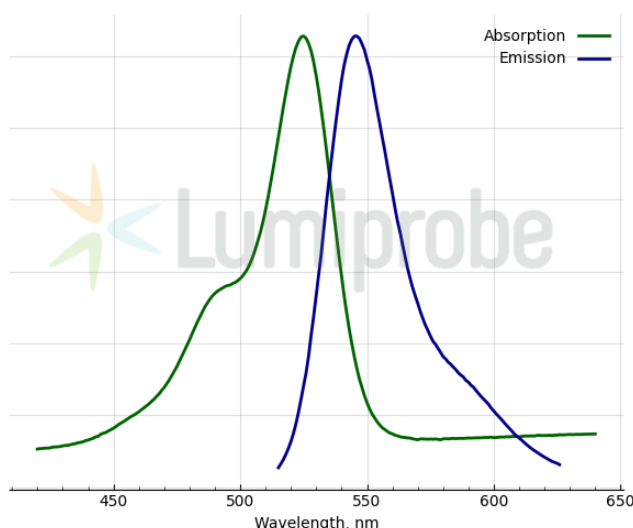
Recommendations for using the reagent:

Coupling: 10 minutes.

Deprotection: standard conditions with ammonium hydroxide; AMA (solution of 30% ammonium hydroxide/40% aqueous methylamine 1:1 v/v) (15 minutes at 65°C) can be used with minor side product forming.

Structure of VIC amidite, 6-isomer

Absorption and emission spectra of 6-VIC

General properties

Appearance:	white / off white solid
Molecular weight:	1023.39
CAS number:	1414265-81-8
Molecular formula:	$C_{52}H_{59}Cl_3N_3O_{10}P$
Quality control:	NMR ^{1}H, ^{31}P and HPLC-MS (95+%)
Storage conditions:	12 months after receival at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate. Avoid prolonged exposure to light.
Legal statement:	This Product is offered and sold for research purposes only. It has not been tested for safety and efficacy in food, drug, medical device, cosmetic, commercial or any other use. Supply does not express or imply authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, in the manufacture of food or pharmaceutical products, in medical devices or in cosmetic products.

Spectral properties

Excitation/absorption maximum, nm:	525
ε, L·mol^{-1}·cm^{-1}:	103000
Emission maximum, nm:	546
Fluorescence quantum yield:	0.53

CF$_{260}$:	0.07
CF$_{280}$:	0.07

Oligo synthesis details

Diluent:	acetonitrile
Coupling conditions:	standard coupling, identical to normal nucleobases
Deprotection conditions:	standard deprotection conditions