

FIG. 1

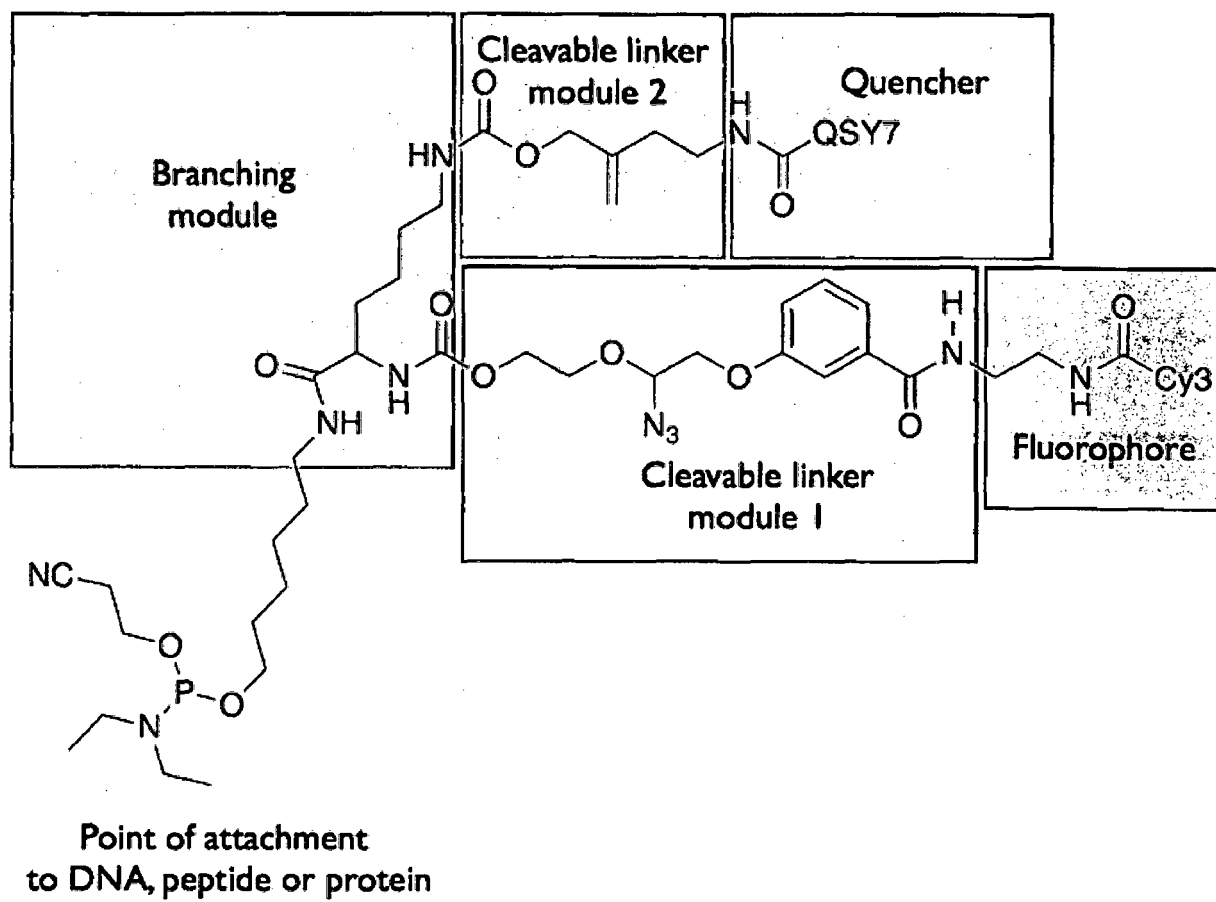
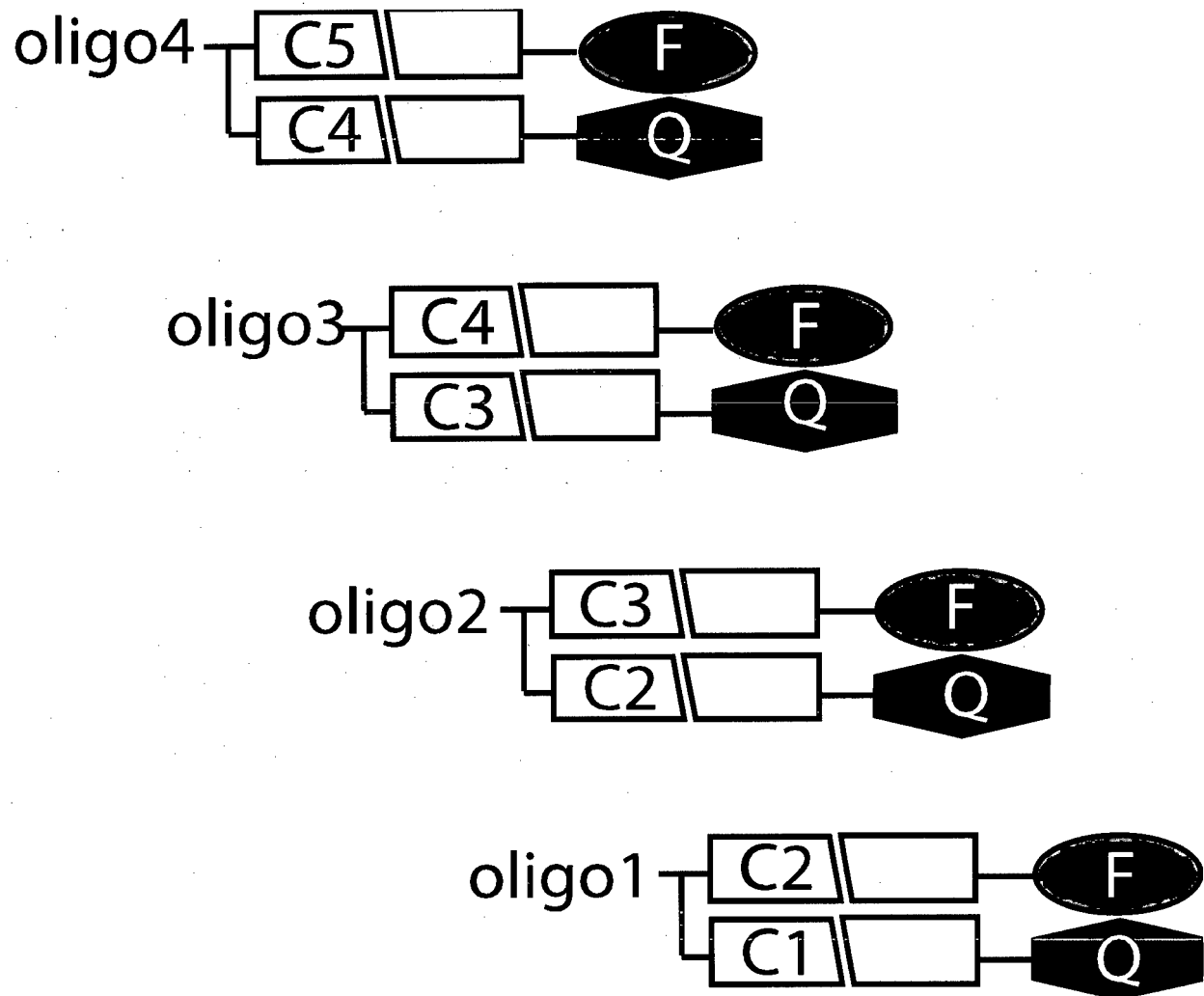
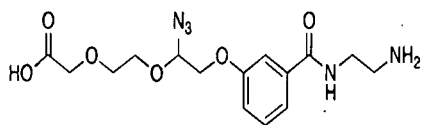
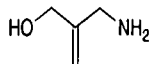
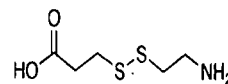
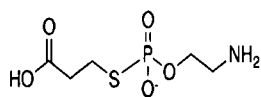
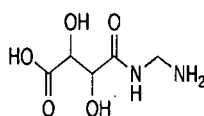
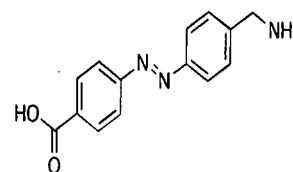
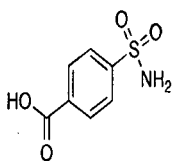
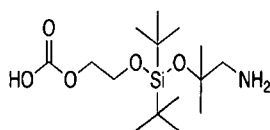


FIG. 2



**FIG. 3****Azido linker****Allyl linker****Disulfide linker****Phosphorothioate linker****Diol linker****Diazobenzene linker****Acylsulfonamide linker****Silyl linker**

| Linkers (10mM) | Cleavage reagents         |
|----------------|---------------------------|
| Diol           | 15mM NaIO <sub>4</sub>    |
| Phosphothioate | 50mM AgNO <sub>3</sub>    |
| Disulfide      | 20mM DTT (Dithiothreitol) |
| Silyl          | 60mM TBAF/THF             |

FIG. 4

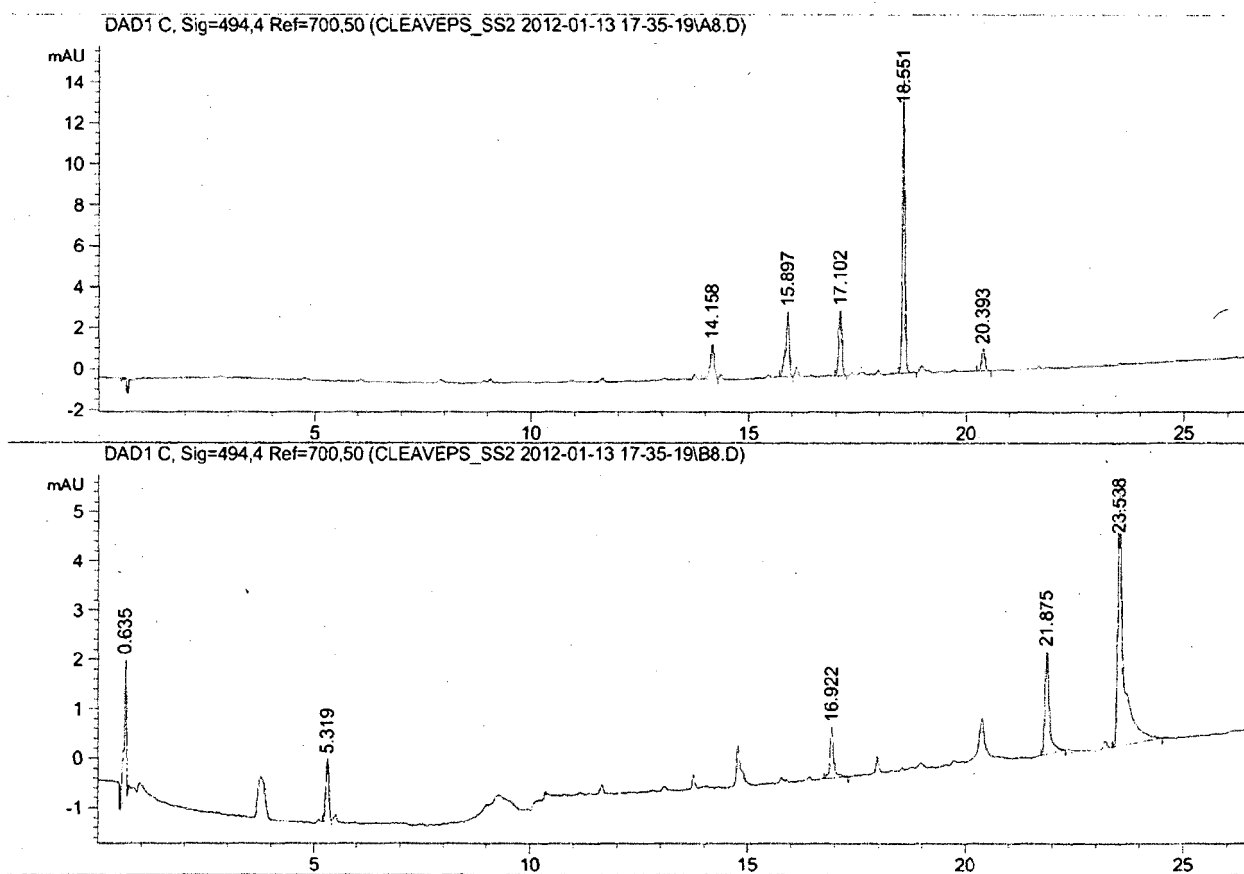
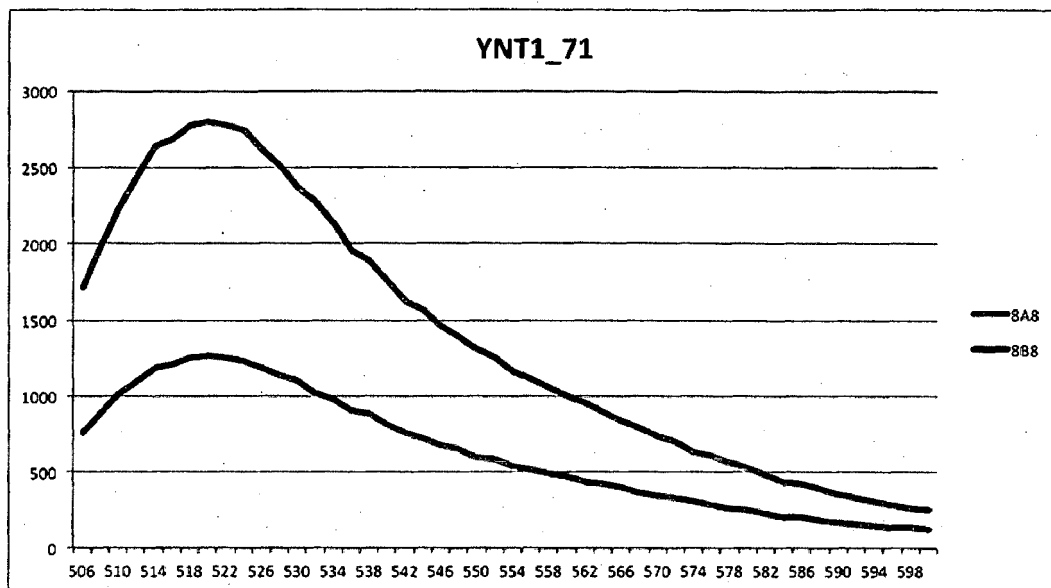
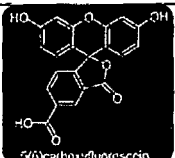
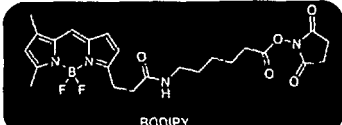
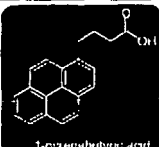
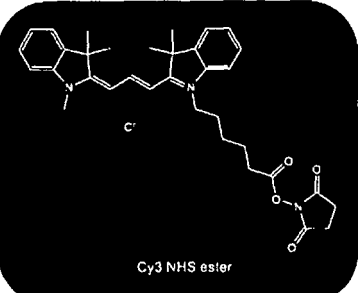
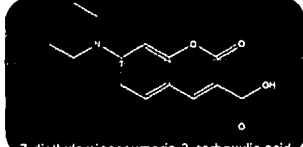


FIG. 5

## Fluorophores

| Fluorophores                                                                                                 | $\lambda_{EX}(nm)$ | $\lambda_{EM}(nm)$ |
|--------------------------------------------------------------------------------------------------------------|--------------------|--------------------|
| <br>5(6)-carboxyfluorescein | 494                | 518                |
| <br>BODIPY                  | 503                | 512                |
| <br>1-pyrenebutyric acid    | 340                | 470                |

## Fluorophores

| Fluorophores                                                                                                                    | $\lambda_{EX}(nm)$ | $\lambda_{EM}(nm)$ |
|---------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------|
| <br>Cy3 NHS ester                            | 555                | 570                |
| <br>7-diethylaminocoumarin-3-carboxylic acid | 350                | 470                |

## Quencher

Dabcyl

- Excitation wavelength 498nm

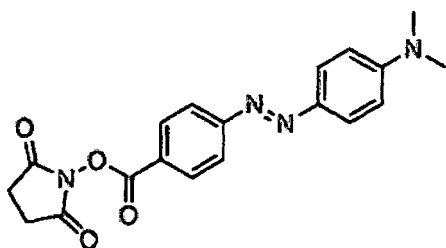


FIG. 6

PM2\_20 (Ps-Dab-Oligo-Diol-Py)

Emission spectra of PM2\_20

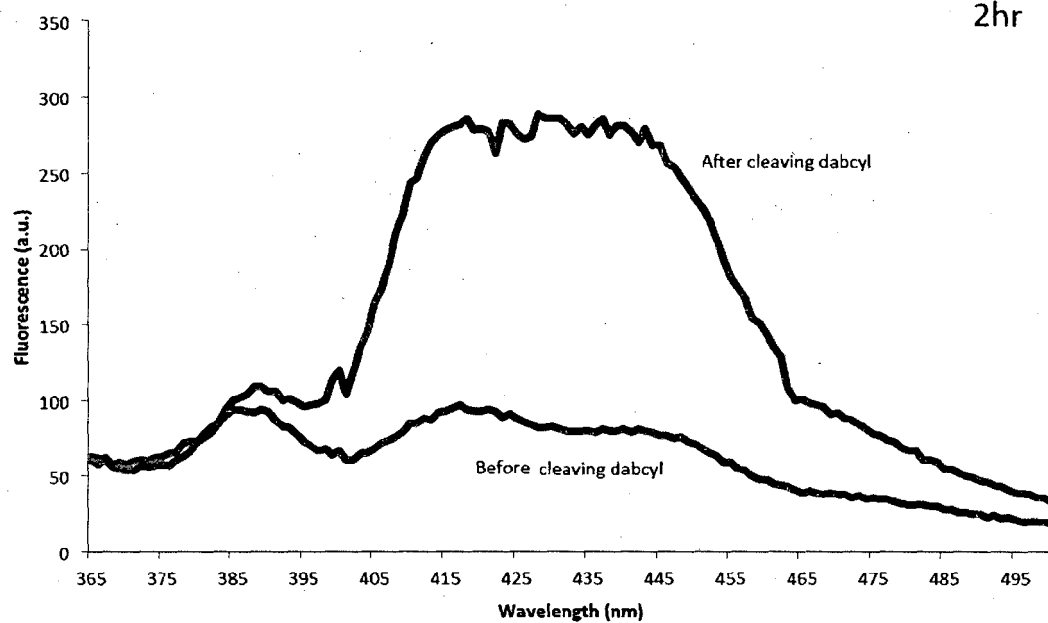
2uM  
100mM AgNO<sub>3</sub>  
2hr

FIG. 7

PM2\_24 (Si-Py-Oligo-SS-Dab)

