

Supporting Information

Table S1. DNA oligonucleotides used in this study

Oligo	Sequence (5'-3')
TDF-a	GAGCGTTAGCCACACACACAGTC
TDF-b	TTAGGCGAGTGTGGCAGAGGTGT
TDF-c	CGCCTAAACAAGTGGAGACTGTG
TDF-d	AACGCTCACCACCTTGAACACCTC
Probe 12-a	GAGCGTTAGCCACACACACAGTCCTTT/Cy3/TCGACGCGCCAATATTTA CGTGCTGCTACGTCGA/BHQ2
Probe 12-b	TTAGGCGAGTGTGGCAGAGGTGTTTT/Cy5/TCGACGCGCCAATATTTA CGTGCTGCTACGTCGA/BHQ2
Probe 12-d	AACGCTCACCACCTTGAACACCTCTTT/Cy5/TCGACGCGCCAATATTTA CGTGCTGCTACGTCGA/BHQ2
Probe 21-a	GAGCGTTAGCCACACACACAGTCCTTT/Cy3/TCGACGTCAACATCAGTC TGATAAGCTACGTCGA/BHQ2
Probe 21-b	TTAGGCGAGTGTGGCAGAGGTGTTTT/Cy5/TCGACGTCAACATCAGTC TGATAAGCTACGTCGA/BHQ2
Probe 21-c	CGCCTAAACAAGTGGAGACTGTGTTT/Cy3/TCGACGTCAACATCAGTC TGATAAGCTACGTCGA/BHQ2
Probe 11-a	GAGCGTTAGCCACACACACAGTCCTTT/Cy3/TCGACGCACAAATTCGGT TCTACAGGGTACGTCGA/BHQ2
Probe 11-b	TTAGGCGAGTGTGGCAGAGGTGTTTT/Cy5/TCGACGCACAAATTCGGT TCTACAGGGTACGTCGA/BHQ2

Figure S1. PAGE analysis of TDF.

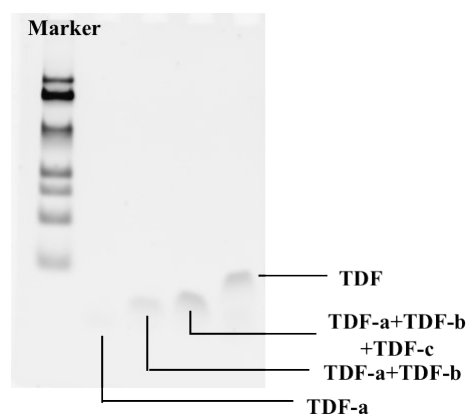


Table S2. Average FEI_{Cy3} and FEI_{Cy5} of six samples. Each experiment was repeated three times.

Samples	Average FEI_{Cy3} (a.u.)	SD_{Cy3}	Average FEI_{Cy5} (a.u.)	SD_{Cy5}
11	3832.33	68.324	74.41	3.677
12	1849.67	69.900	240.93	17.856
21	4926.00	286.497	246.00	24.997
22	3549.67	220.052	460.53	15.310
13	1310.00	69.120	304.97	22.120
31	5697.33	138.346	478.53	36.873