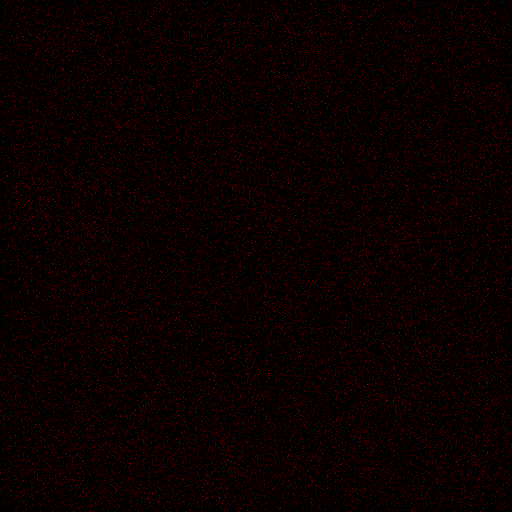
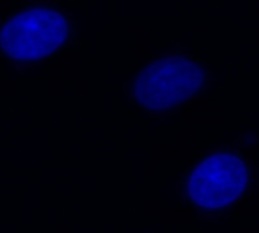
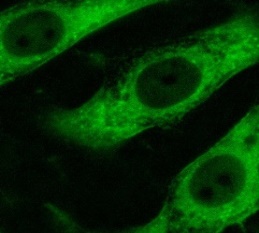
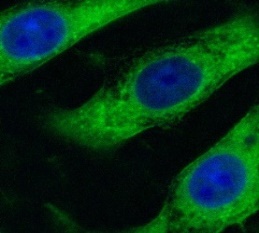
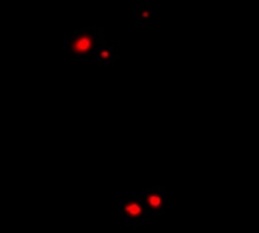
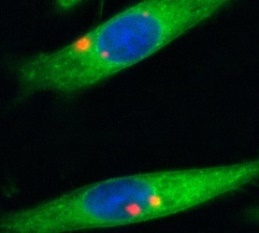
(A)

**Cy3 Labeled DNA Hoechst 33342 Dio Merger**

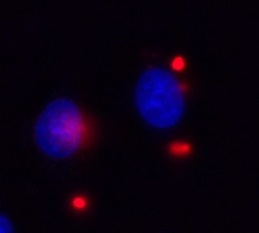
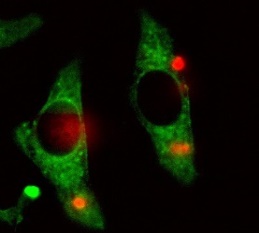
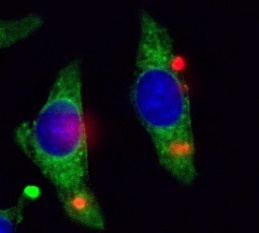
**PBS**

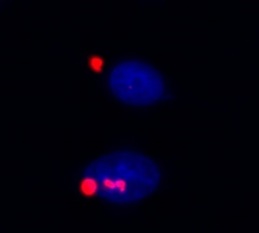
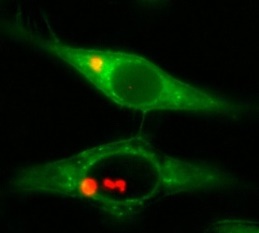
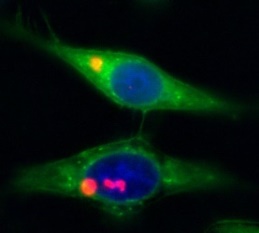
**lipofectamine 2000**

**A ra-DiC16MA**

**N/P=2**

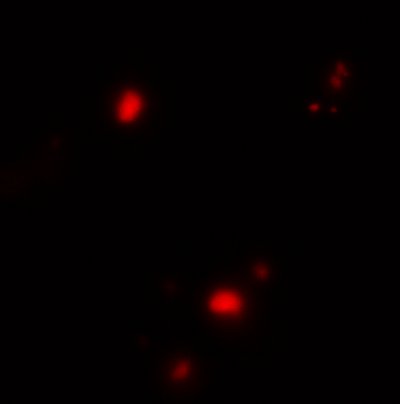
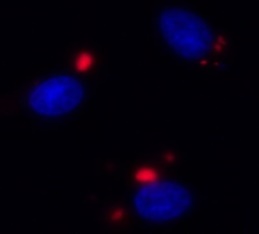
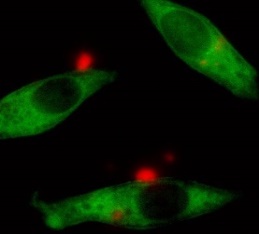
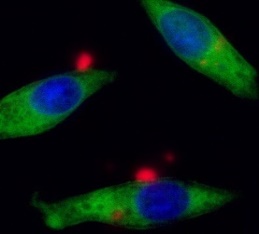
   

**A ra-DiC16MA**

**N/P=6**

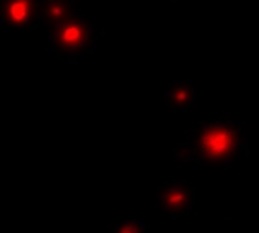
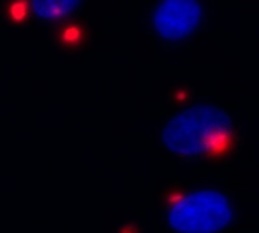
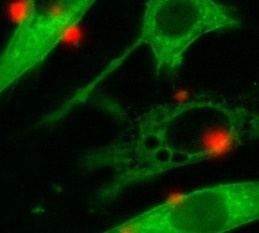
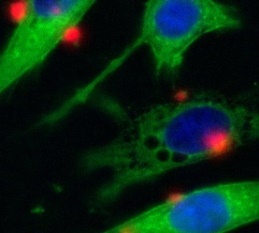
**A ra-DiC16MA**

**N/P=4**

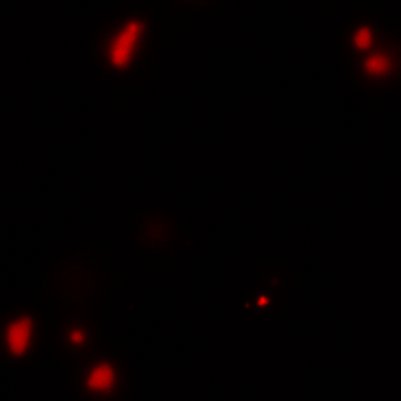
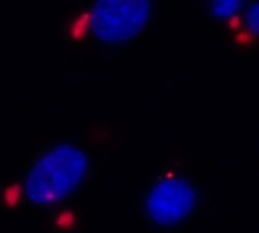
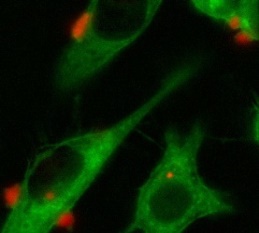
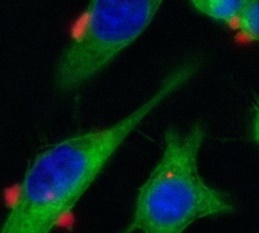
**A ra-DiC16MA**

**N/P=8**

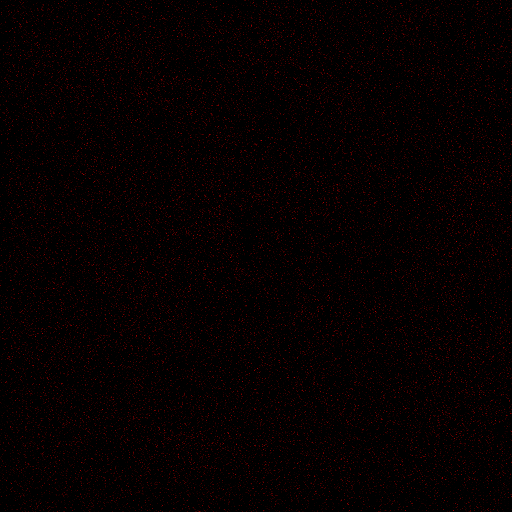
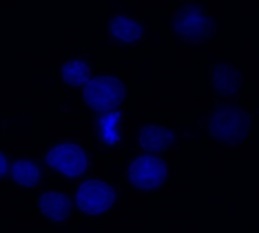
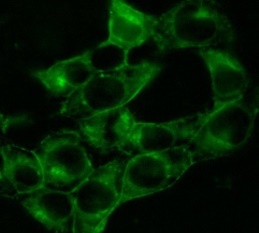
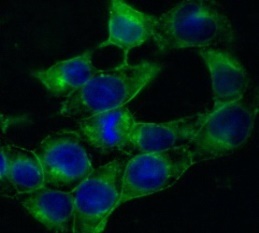
**A ra-DiC16MA**

**N/P=10**

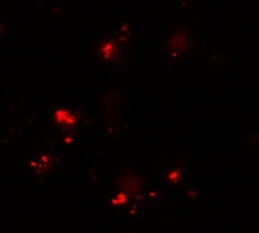
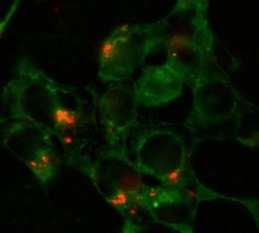
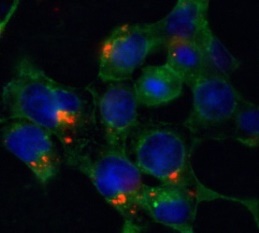
(B)

**Cy3 Labeled DNA Hoechst 33342 Dio Merger**

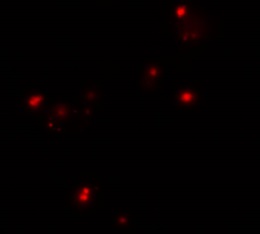
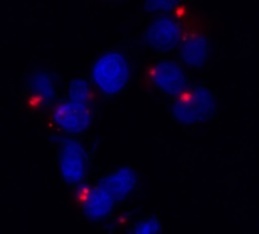
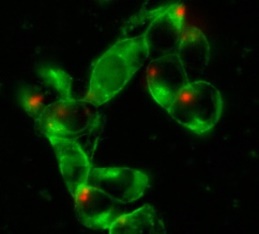
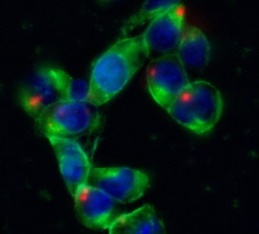
**PBS**

**lipofectamine 2000**

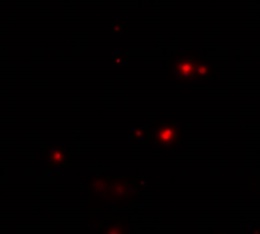
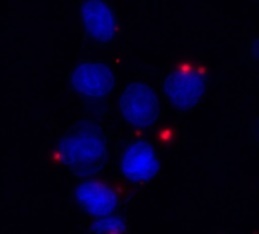
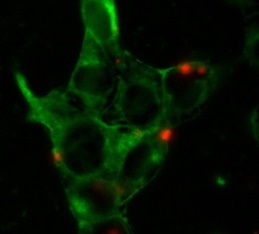
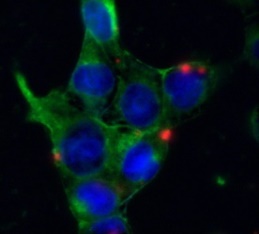
**A ra-DiC14MA**

**N/P=2**

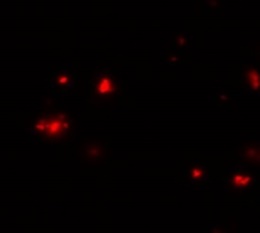
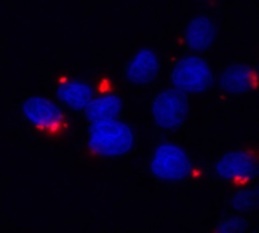
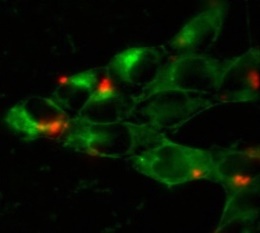
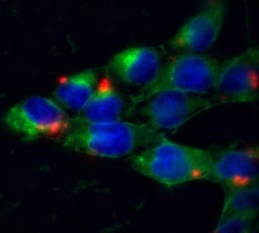
**A ra-DiC14MA**

**N/P=4**

** **  ** **

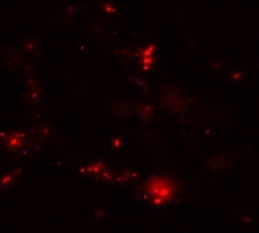
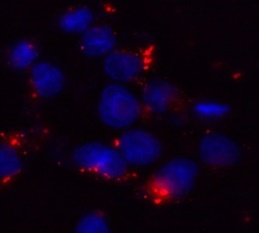
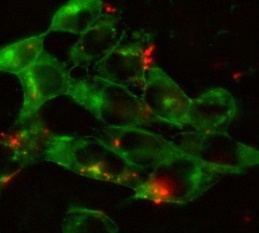
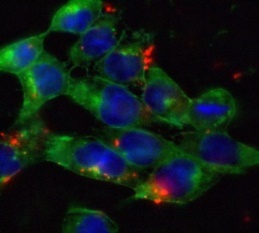
**A ra-DiC14MA**

**N/P=6**

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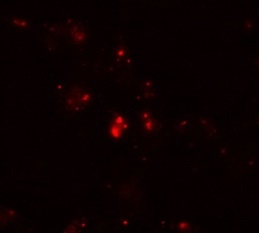
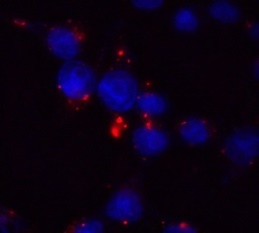
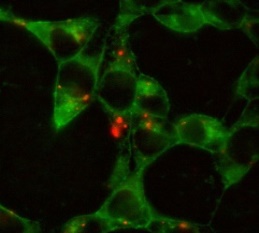
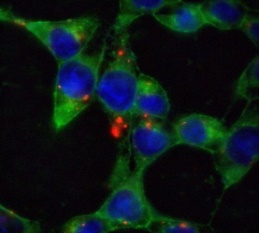
**A ra-DiC14MA**

**N/P=8**

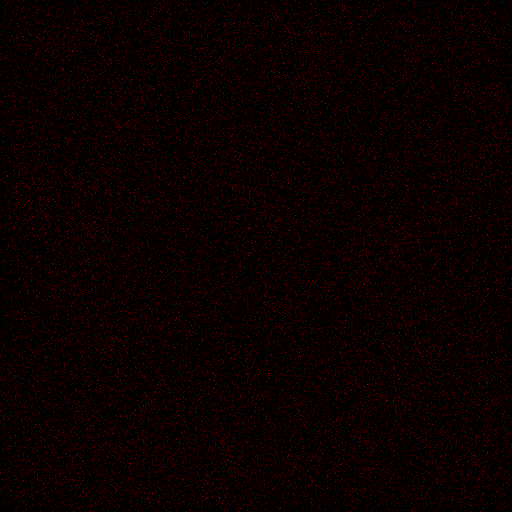
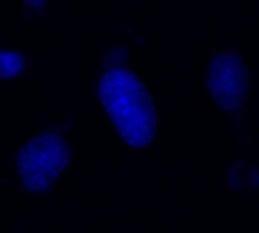
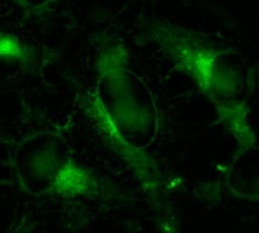
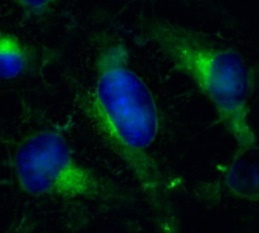
**A ra-DiC14MA**

**N/P=10**

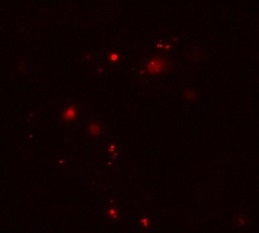
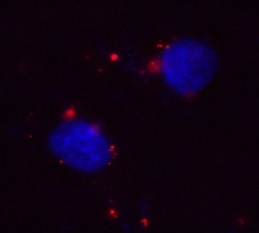
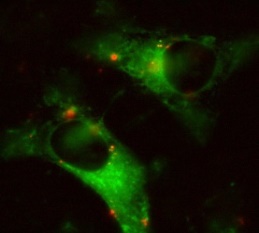
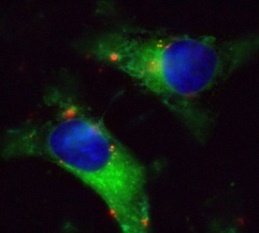
(C)

**Cy3 Labeled DNA Hoechst 33342 Dio Merger**

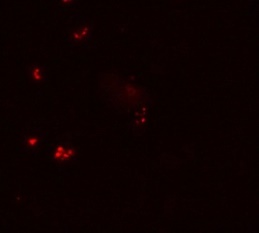
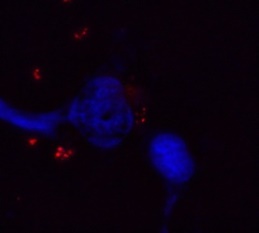
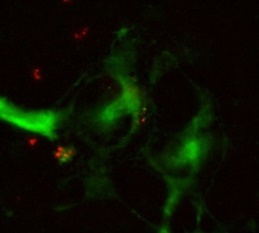
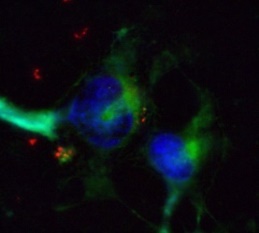
**lipofectamine 2000**

**PBS**

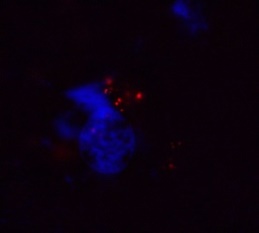
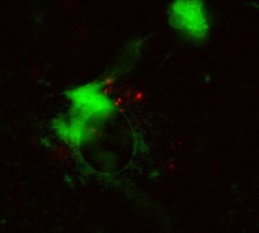
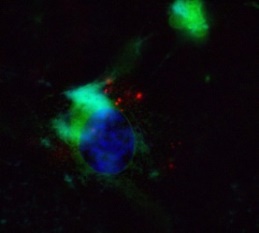
**A ra-DiC16MA**

**N/P=2**

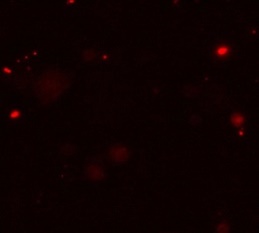
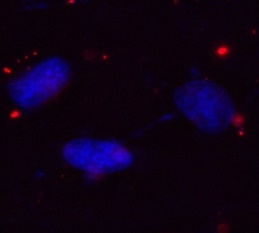
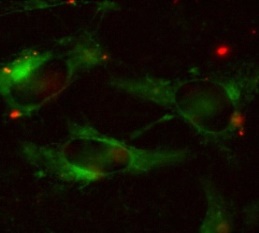
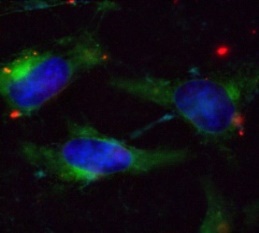
**A ra-DiC16MA**

**N/P=4**

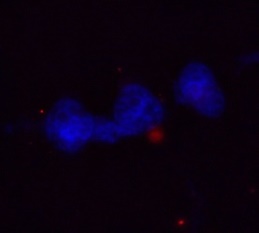
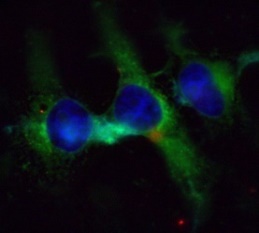
**A ra-DiC16MA**

**N/P=6**

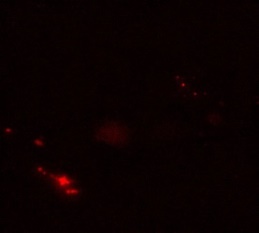
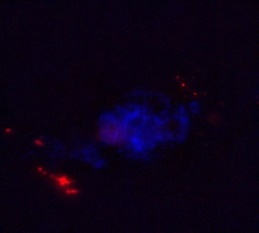
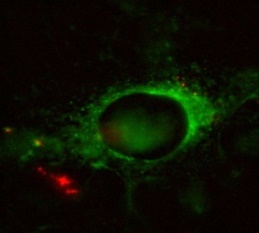
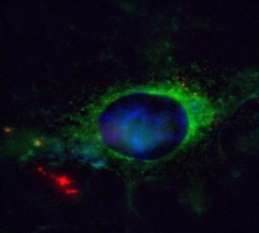
**A ra-DiC16MA**

**N/P=8**

**A ra-DiC16MA**

**N/P=10**

**S5 Fig. Cellular uptake of lipid/pDNA lipoplexes.** Fluorescence microscopic images (100×) of cellular uptake in PC-3 cell (A, Ara-DiC16MA/pDNA complexes), HEK293 cell (B, Ara-DiC14MA/pDNA complexes) and HeLa (C, Ara-DiC16MA/pDNA complexes) at the N/P ratio of 2:1, 4:1, 6:1, 8:1, 10:1 after 4 h of gene transfection (green: Dio used to label cytomembrane, red: Cy3-labeled pDNA, blue: Hochest 33342 stained cell nuclei).