

**Supporting Information for**  
**Preparation of Mammalian Expression Vectors Incorporating**  
**Site-Specifically Platinated-DNA Lesions**

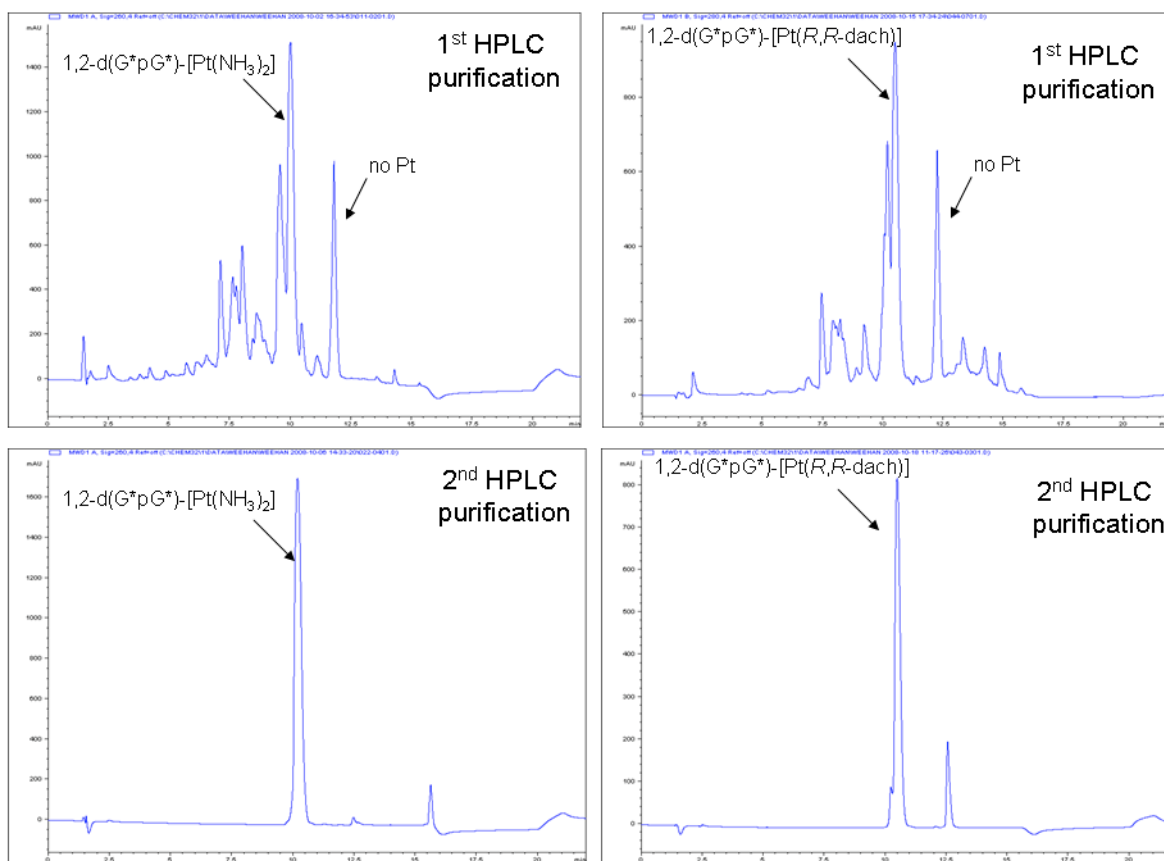
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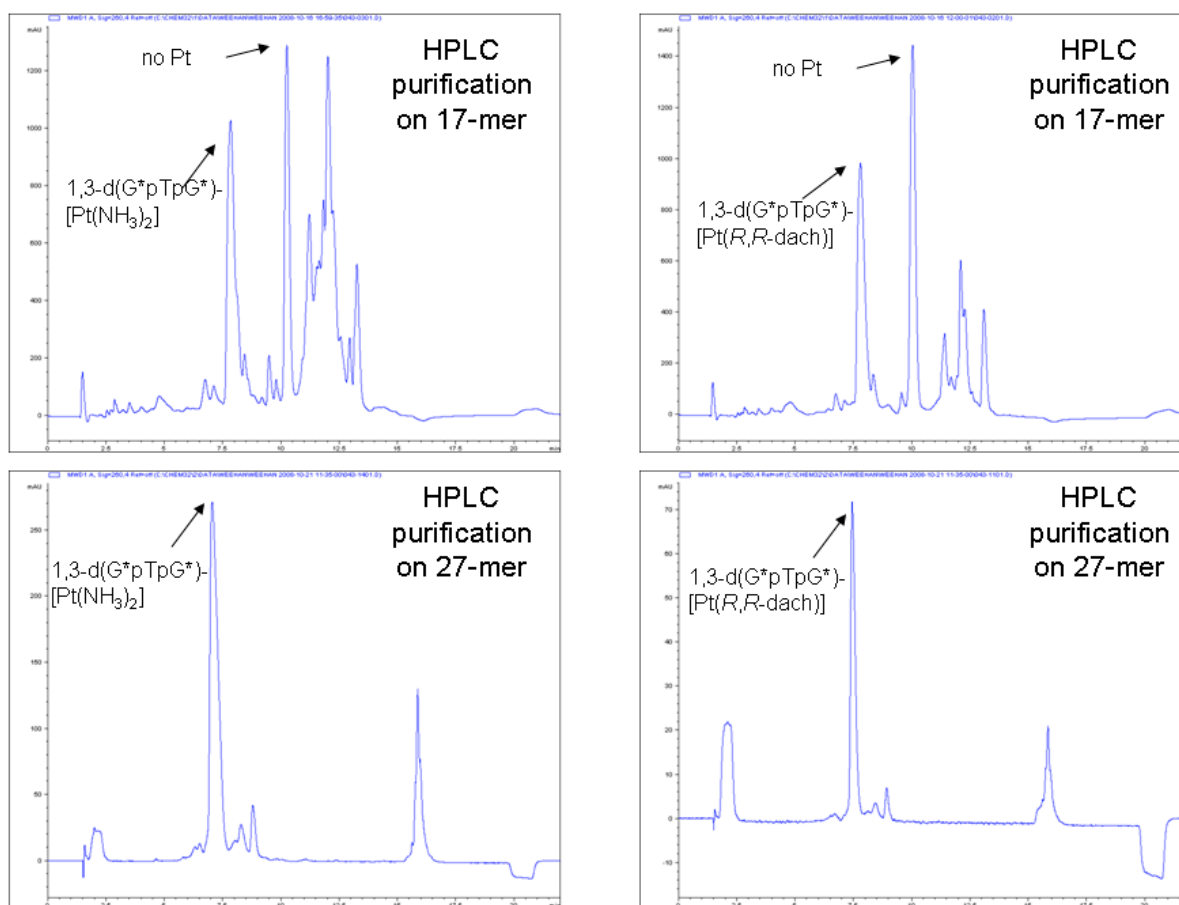
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*Running Title: Site-Specifically Platinated Mammalian Expression Vectors*



**Figure S1.** HPLC purification of platinumated 13-mer insertion strands; 13-is-Pt (left panel) and 13-is-oxPt (right panel).



**Figure S2.** HPLC purification of platinumated 27-mer insertion strands, 27-is-Pt (left panel) and 27-is-oxPt (right panel); top panel depicts HPLC purification of platinumated 17-mer strand, bottom panel depicts denaturing HPLC purification of ligated 27-mer strands.

**Table S1.** Characterization of the Insertion Strand by Nucleotide Composition Analysis<sup>a</sup> and MALDI-TOF MS.

insertion strand	Nucleotide composition analysis								MALDI-TOF MS	
	dC		dG		T		dA		(m/z)	
	obsd	calcd	obsd	calcd	obsd	calcd	obsd	calcd	obsd	calcd
13-is	6.2	6	3.0	3	2.0	2	1.8	2	3894	3895
13-is-Pt	6.1	6	1.1	1	2.0	2	1.7	2	4123	4124
13-is-oxPt	6.2	6	1.0	1	2.0	2	1.8	2	4204	4202
27-is	14.8	15	3.1	3	7.1	7	1.9	2	8022	8018
27-is-Pt	15.2	15	1.2	1	6.9	7	1.8	2	8245	8247
27-is-oxPt	15.3	15	1.0	1	7.1	7	1.6	2	8328	8325

<sup>a</sup>The insertion strand (500 pmol) was digested with nuclease S1 (10 U) for 12 h at 37 °C followed by calf intestinal phosphatase (10 U) for 4 h at 37 °C. Analyses of digests were carried out using reverse-phase HPLC with Supelcosil LC-18-S column; the gradient used was 5-15% B over 30 min, where solvent A contained 10 mM NaOAc and solvent B contained 100% methanol.