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**Wu**

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(54) **PHOSPHATASE COUPLED  
GLYCOSYLTRANSFERASE ASSAY**

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CPC .. **C12Q 1/42** (2013.01); **C12Q 1/48** (2013.01);  
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See application file for complete search history.

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(57) **ABSTRACT**

A kit for detecting or measuring glycosyltransferase activity including a first reagent comprising a phosphatase and a second reagent comprising a free phosphate detector, and method of detecting and measuring glycosyltransferase activity. A sugar donor, an acceptor substrate, a glycosyltransferase enzyme and a phosphatase are combined and the amount of free phosphate present in the product is measured and used to calculate the activity of the glycosyltransferase enzyme.

**5 Claims, 4 Drawing Sheets**