

## **TR6-3 國家轉譯醫學與臨床試驗資源中心之轉譯核心實驗室**

### **客製化服務收費說明**

#### **TR6-3 Customized Service Price of Translational Core**

#### **Laboratories (TCL) of National Translational Medicine and**

#### **Clinical Trial Resource Center (NTCRC)**

The mission of National Translational Medicine and Clinical Trial Resource Center (NTCRC) is to provide necessary support for clinical trials and translational medicine studies initiated by investigators of National Research Program for Biopharmaceuticals (NRPB). To meet the needs of NRPB researchers we have established Translational Core Laboratories (TCL) of NTCRC to provide the standard gene tests and customized gene tests. To help the users easily to estimate the budget for customized service we provide the service prices (ref 1) of two most popular services (Veracode Goldengate Genotyping Cost Estimation for BeadXpress system and Sequenom Mutation Detection and Genotyping Cost Estimation) for your references. The prices listed below include reagents, consumables and 20% fail rate (ref 2) as well as 8% utility fee.

Ref 1. The service price does not include the primers used in assays. Users can provide primers by themselves or ask freely TCL to design and order these primers

Ref 2. Fail rate: A value of 20% means that at every 10 experiments, on the average there will be 2 experiments yielding failed result and therefore needing to be repeated.

#### **Veracode Goldengate Genotyping Cost Estimation for BeadXpress system**

BeadXpress is a professional method for high-throughput SNP typing with FDA approval which is very useful to validate the findings of GWAS. The table indicates the prices for different service requests. For example, if user requests 48 SNP typing for 480 samples the service price for one sample will be 875. When the sample number increases from 480 to 960, the price of one sample will be reduced from 875 to 761.

### Veracode Goldengate Genotyping Cost Estimation for BeadXpress sy

Plexity	Service Item	No. of Smaples	Reagnet Price / kit (NTD)	Others (NTD)*	Total Cost (NTD)	Per sample Cost (NTD)
48	VC-048plex	480	373,248	46,656	419,904	875
		960	318,816	93,312	730,944	761
96	VC-096plex	480	447,898	46,656	494,554	1,030
		960	381,024	93,312	855,360	891
144	VC-144plex	480	622,080	46,656	668,736	1,393
		960	525,658	93,312	1,144,627	1,192
192	VC-192plex	480	824,256	46,656	870,912	1,814
		960	699,840	93,312	1,492,992	1,555
384	VC-384plex	480	1,376,352	46,656	1,423,008	2,965
		960	1,104,192	93,312	2,301,696	2,398

### Sequenom Mutation Detection and Genotyping Cost Estimation

Sequenom is a high sensitive method which can detects DNA mutation frequency with less than 5% and performs SNP typing. Sequenom can perform multiplex assays in one reaction (one well) and the maximum plex is 36plex. Hence we calculate the service price based on 36plex. The table indicates the prices for different service requests. In the case, user requests for 36 mutation detections or SNP typing. If the 36plex can be designed in one well the service price for one SNP or mutation will be 209.95 (MS-36-1plex). However, if the 36plex cannot be designed in one reaction (one well) due to competition the service price for one SNP or mutation will be 300.02 in the case of two reactions (MS-36-2plex) and 389.99 in the case of three reactions (MS-36-3plex).

### Sequenom Mutation Deetction and Genotyping Cost Estimation

Plexity	Service Item	No. of reaction*	Reagnet Price / kit (NTD)	Others (NTD)*	Total Cost (NTD)	Per SNP/mutation Cost (NTD)
36	MS-36-1plex	1	6,480	1,080	7,560	209.95
	MS-36-2plex	2	9,180	1,620	10,800	300.02
	MS-36-3plex	3	11,880	2,160	14,040	389.99