

## Supporting information for “Low cost shippable lipid bilayer membrane platform”

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### S1. Transportability of membrane precursors

To test the transportability of membrane precursors, the membrane precursors were shipped out via a commercial carrier, FedEx®. 54 frozen membrane precursors were shipped to Professor Andrea Tenner’s laboratory at University of California, Irvine (Irvine, CA, USA) via FedEx Express®. The tracking numbers provided were 799697382046 from UCLA to Irvine and 792543875371 from Irvine to UCLA. The shipping information and tracking documents are shown below.

#### (a) LA → Irvine

Tracking number	799697382046	Destination	Irvine, CA
Signed for by	A.DESHPANDE	Delivered to	Receptionist/Front Desk
Ship date	Aug 20, 2007		
Delivery date	Aug 21, 2007 8:06 AM	Service type	First Overnight Box
		Weight	4.0 lbs.
Status	Delivered		
Signature image available	<a href="#">Yes</a>		
Date/Time	Activity	Location	Details
Aug 21, 2007	8:06 AM	Delivered	Irvine, CA
	8:00 AM	Delivery exception	IRVINE, CA
	6:49 AM	On FedEx vehicle for delivery	IRVINE, CA
	6:43 AM	At local FedEx facility	IRVINE, CA
Aug 20, 2007	5:27 PM	Left origin	LOS ANGELES, CA
	5:06 PM	Package data transmitted to FedEx	LOS ANGELES, CA
	5:01 PM	Picked up	LOS ANGELES, CA

#### (b)Irvine → LA

Tracking number	792543875371	Destination	Los Angeles, CA
Signed for by	J.POULOS	Delivered to	Receptionist/Front Desk
Ship date	Aug 21, 2007		
Delivery date	Aug 22, 2007 8:27 AM	Service type	First Overnight Box
		Weight	4.0 lbs.
Status	Delivered		
Signature image available	<a href="#">Yes</a>		
Date/Time	Activity	Location	Details
Aug 22, 2007	8:27 AM	Delivered	Los Angeles, CA
	6:55 AM	On FedEx vehicle for delivery	MARINA DEL REY, CA
	3:38 AM	At local FedEx facility	MARINA DEL REY, CA
Aug 21, 2007	8:18 PM	At dest sort facility	LOS ANGELES, CA
	6:40 PM	Left origin	IRVINE, CA
	3:37 PM	Picked up	IRVINE, CA
Aug 20, 2007	5:20 PM	Package data transmitted to FedEx	

Figure S1: Electronic tracking documents retrieved from the FedEx® webpage.

### S2. Spontaneous thinning to form a lipid bilayer membrane from the frozen precursor in the disposable chip

The video file entitled ‘[http://schmidtlab.seas.ucla.edu/MP\\_in\\_a\\_chip.avi](http://schmidtlab.seas.ucla.edu/MP_in_a_chip.avi)’ shows the spontaneous thinning process to form a lipid bilayer membrane from a frozen membrane precursor in the disposable chip. One frame was taken per minute and the streaming rate of the movie was 15 frames per second.