

## 蛋白质互作/后修饰质谱筛选 (LFQ)

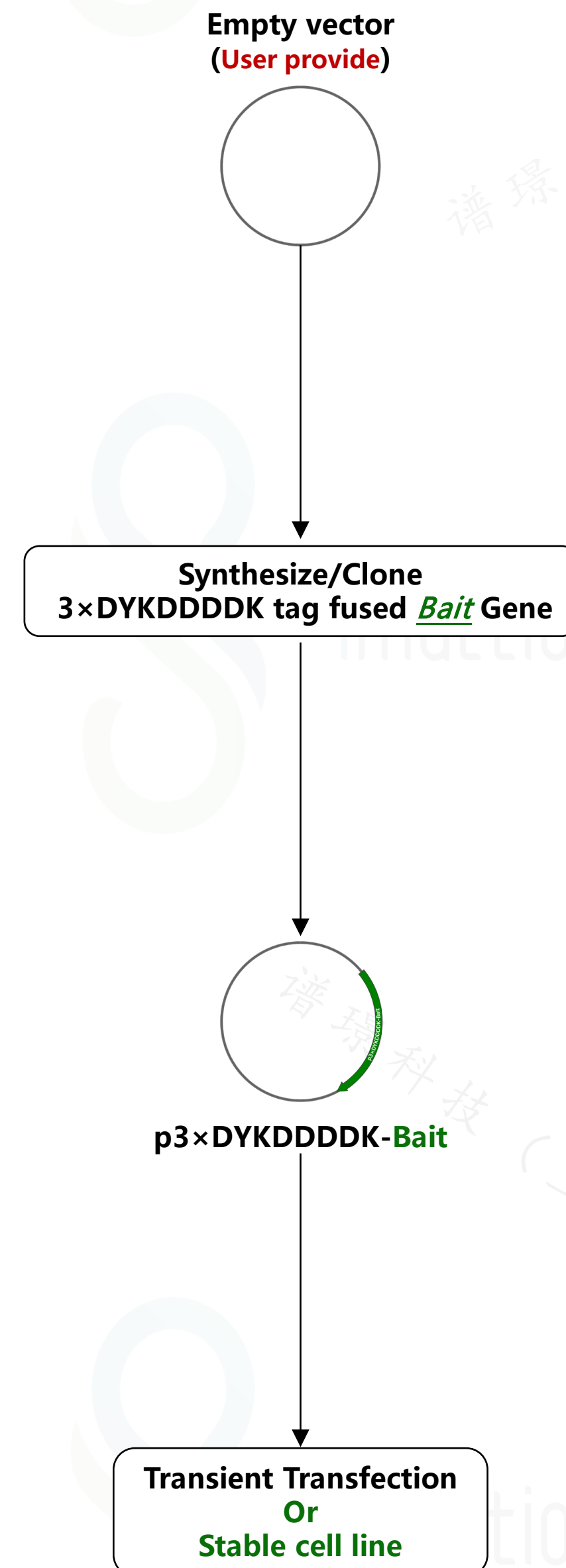
Universal IP-MS Enrichment Kit (**3×DYKDDDDK** tag, MS grade)

Catalog Number: MG01

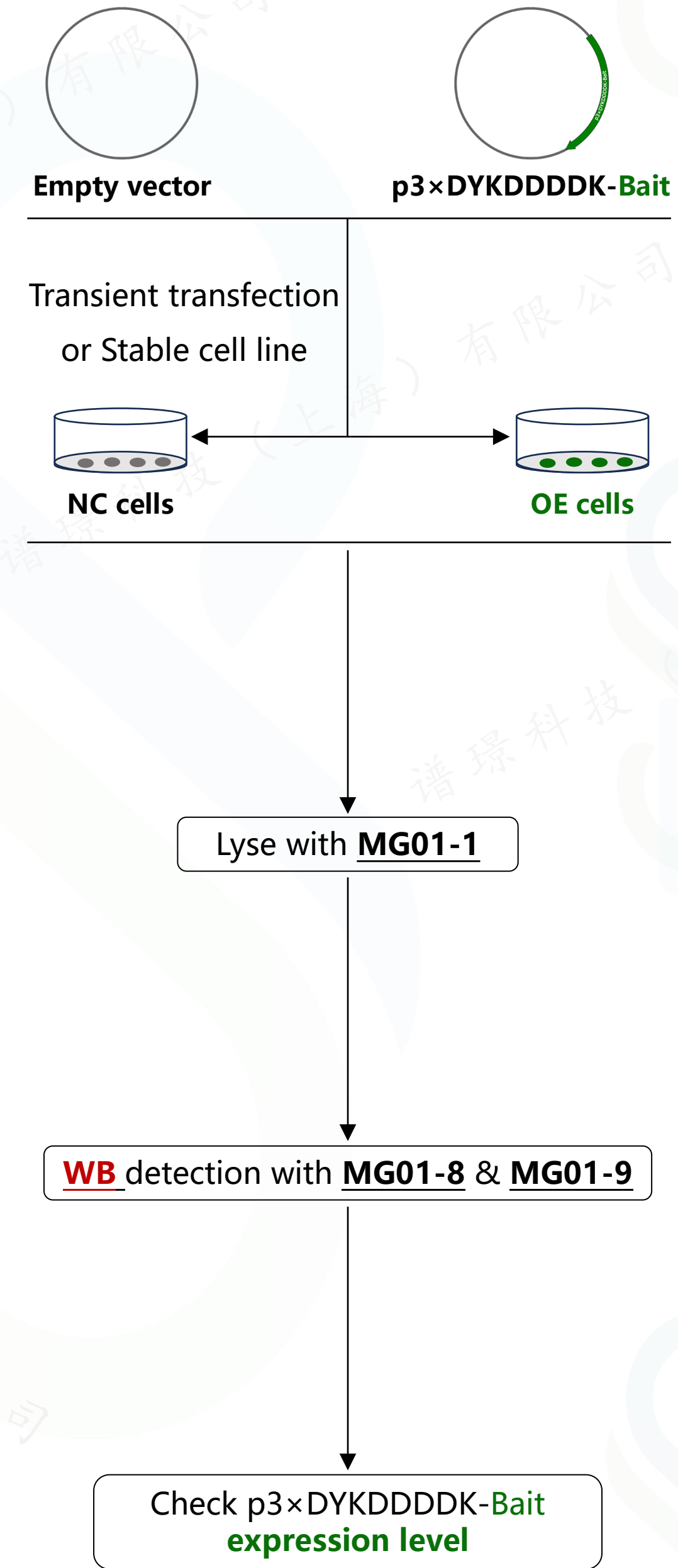
# Workflow of Universal IP-MS Enrichment Kit

Catalog Number: #MG01

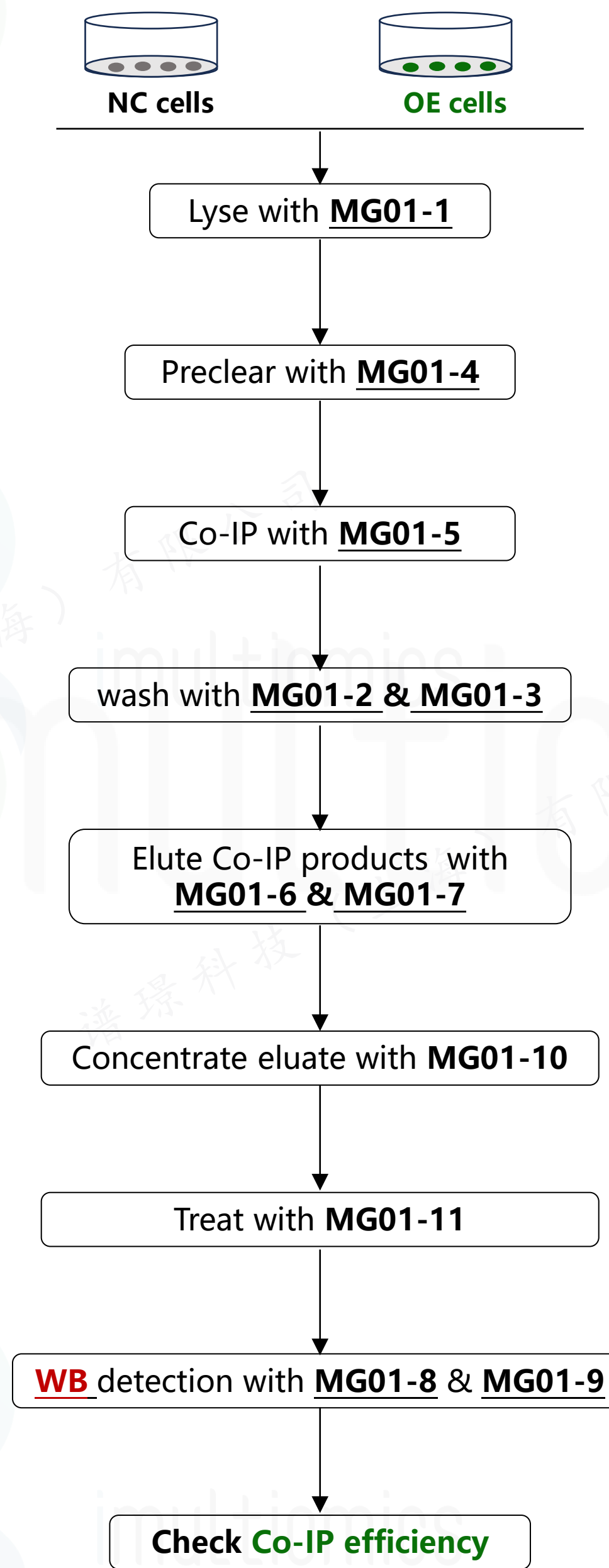
## PART 1 Guide for Overexpressing Plasmid Construction (Carry out by User)



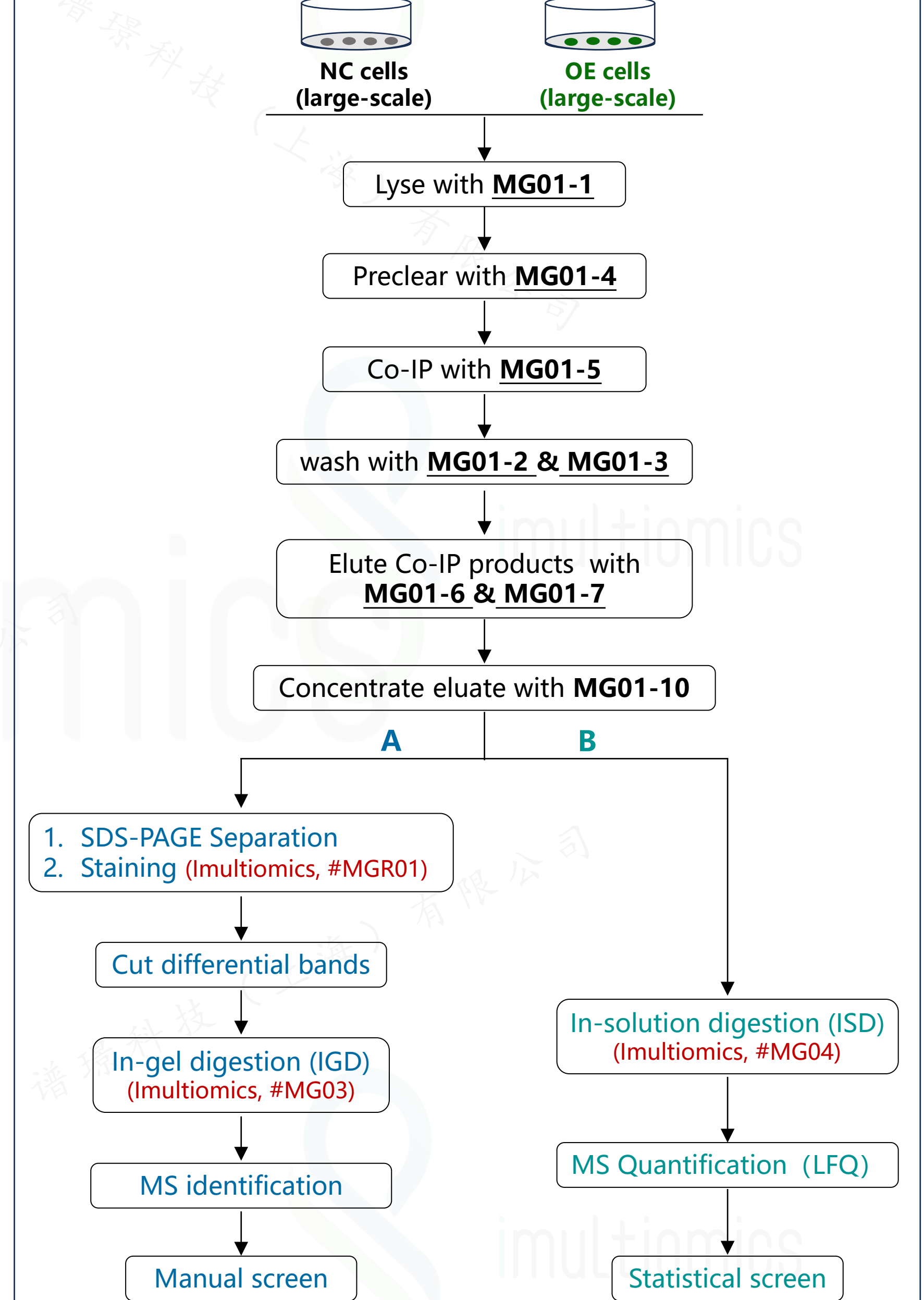
## PART 2 Bait Protein Expression Level Evaluation



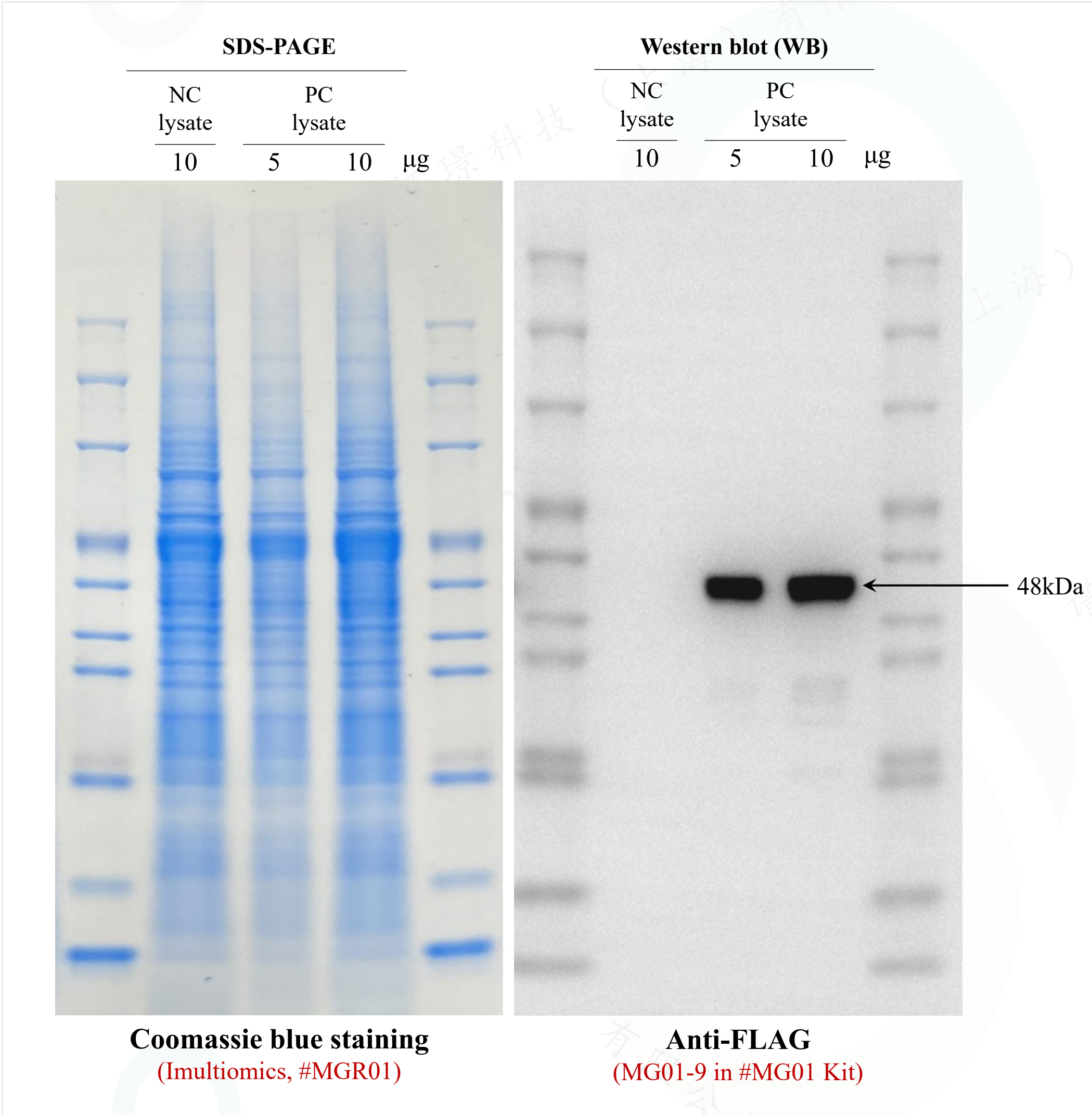
## PART 3 IP-WB Pre-experiment



## PART 4 Co-IP Sample Preparation for MS Detection

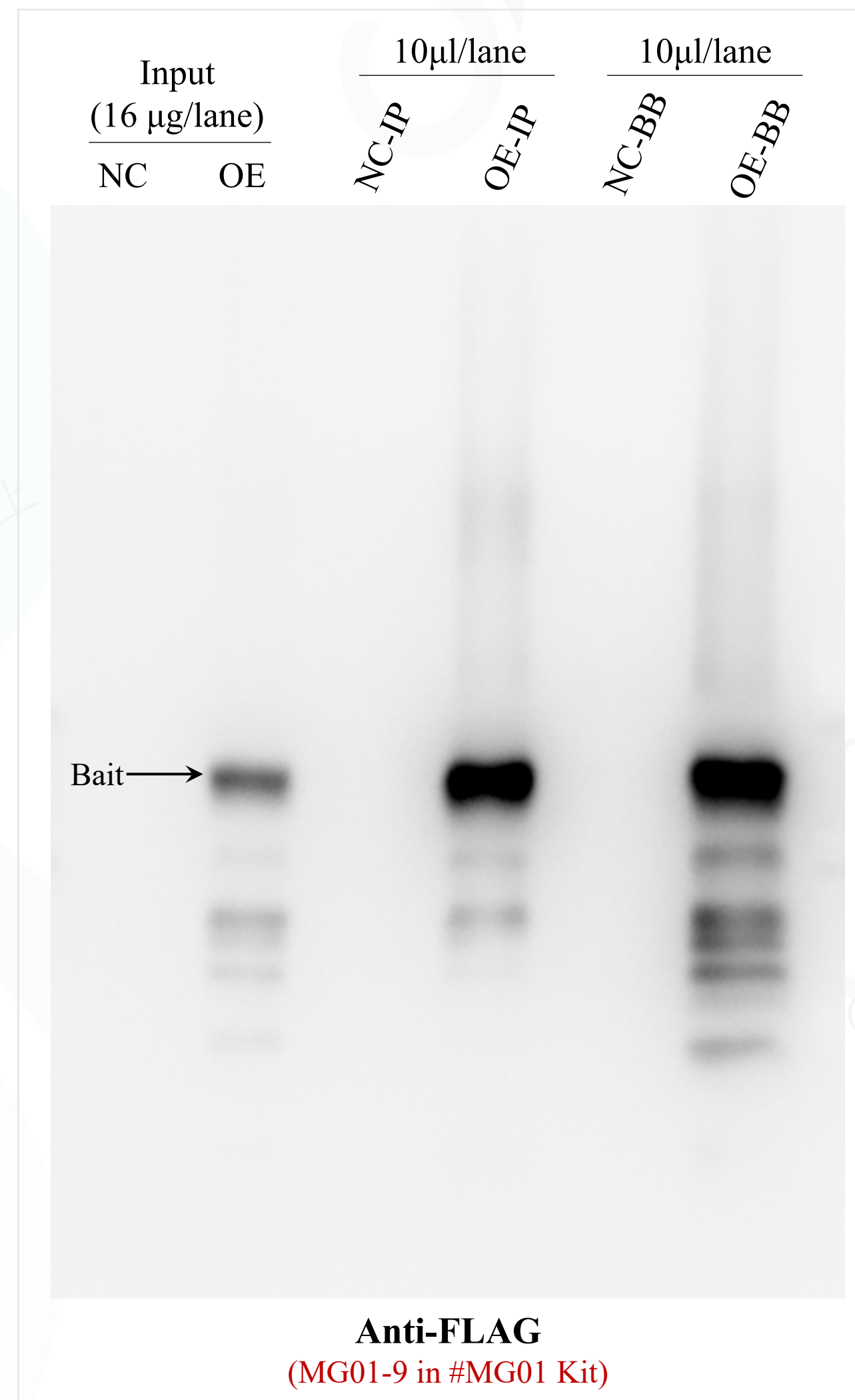


# A. MG01-8 (PC cell lysate) in #MG01 Kit



1. PC (Bait gene fused with 3×DYKDDDDK tag, **MG01-8 in #MG01 Kit**)-expressing cells were lysed (**MG01-1 in #MG01 Kit**).
2. Protein concentration was measured (**Imultiomics, #MGR02**).
3. Protein samples were separated by SDS-PAGE and detected using Coomassie blue staining (Left) or Western blot (Right).

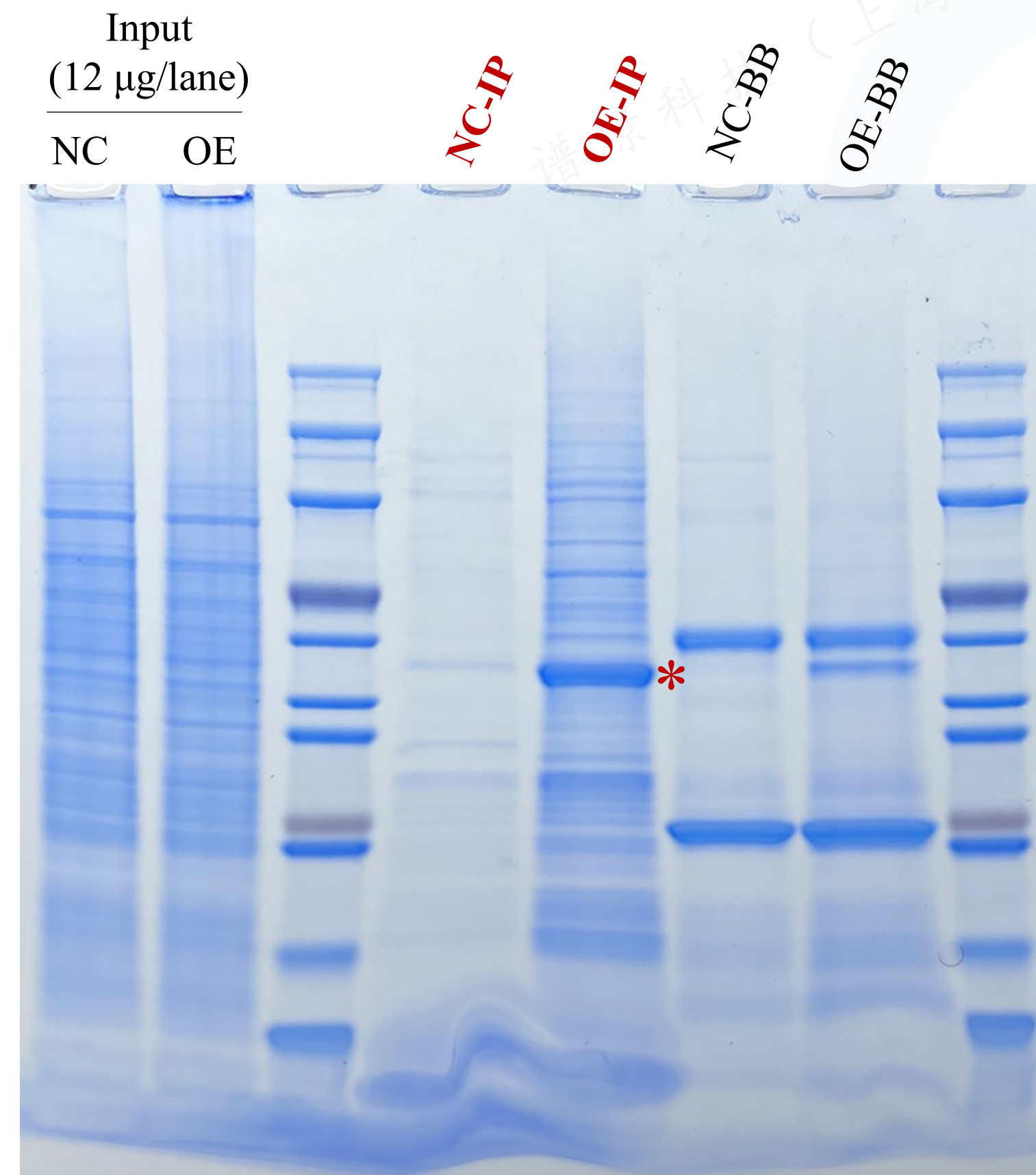
## B. DEMO of IP-WB Pre-experiment



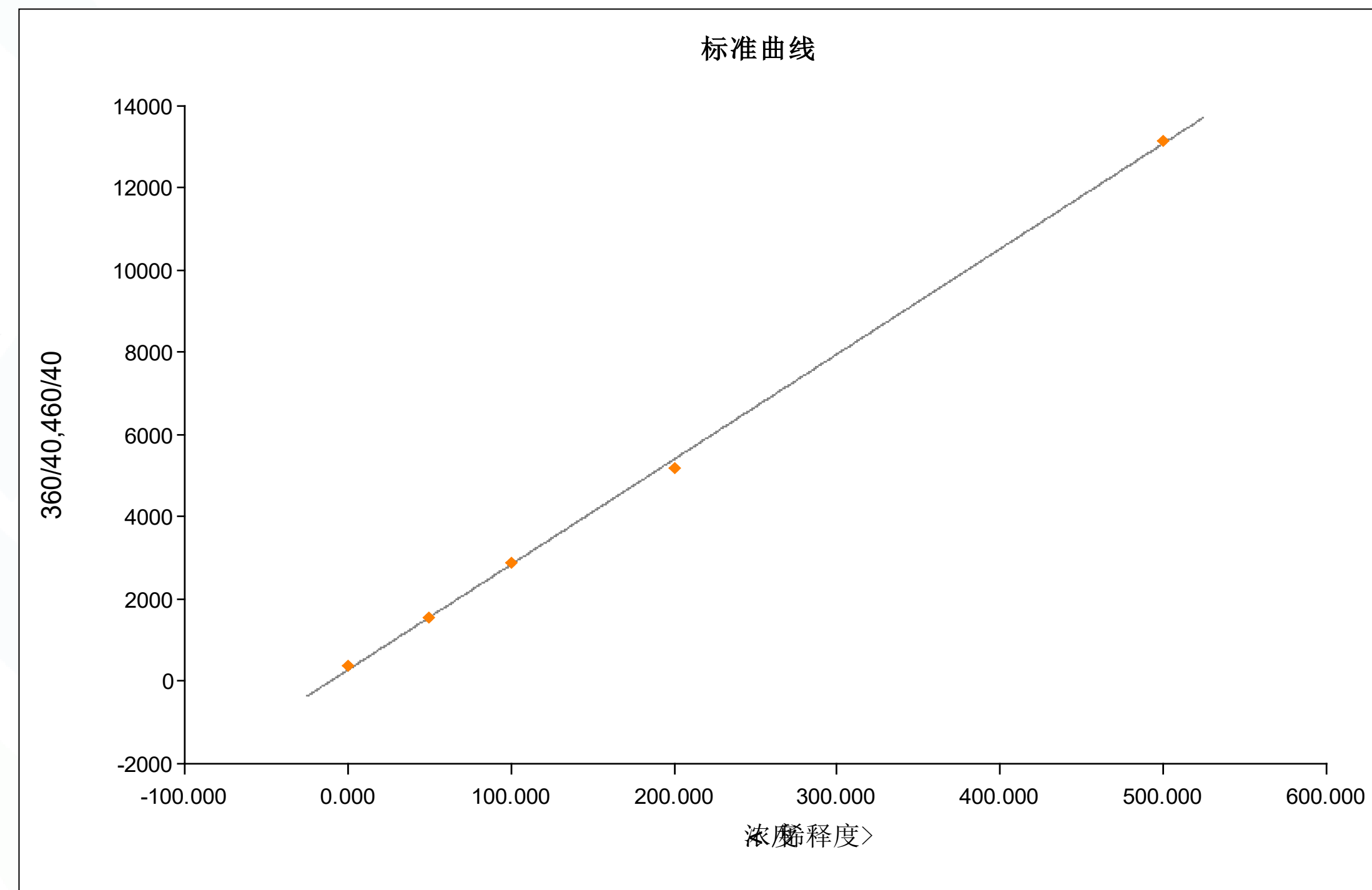
1. IP samples were prepared and detected using western blot according to “IP-WB Pre-experiment” procedure (**PART 3 in #MG01 Kit**).
2. Co-IP efficiency meets the requirement of downstream MS-grade sample preparation.

## C. DEMO of MS-grade Co-IP Sample Preparation

**A**



**B**



曲线名称	曲线公式	A	B	R2
标准曲线	$Y=A*X+B$	25.6	280	0.999

Sample	Total peptide yield (ng)
<b>NC-IP</b>	3437
<b>OE-IP</b>	8628.16

1. Co-IP samples of **NC-IP** and **OE-IP** were prepared according to the protocol of **MG01 Kit**.
2. (A) 70% of **NC-IP** and **OE-IP** samples was separated by SDS-PAGE gel and stained using Coomassie blue staining reagent (**Imultiomics**, #MGR01). Red star: Enriched 3×DYKDDDDK tag fused **Bait Protein**.
3. (B) 30% of **NC-IP** and **OE-IP** samples was conducted to in-solution digestion according to the protocol of **MG04 Kit**, and total peptide yields (ng) were measured.