

## User Input interface

### 1. Key search

- (1)Reference cluster ID(rs#)
- (2)NCBI Assay ID(ss#)
- (3)Gene Name
- (4)Gene ID

### 2. Free format input

- (1)single-sequence input
- (2)multi-sequence input
- (3)single-rs# input
- (4)multi-rs# input
- (5)mixed input

### 3. Upload data to analyze

- (1)sequence data
- (2)rs# data



Input data  
preprocessing

## Analysis platform

### Analyzation

Analysis of SNP sequence,  
determination if SNP is  
distinguishable.

- (1)Observe (sense)
- (2)Reverse (antisense)



## Output

### Analysis Results

- (1)can be distinguished
- (2)can't be distinguished

### Additional information

- (1)Recognition Sequence
- (2)Commercial restriction enzyme
- (3)Non-commercial restriction enzyme

### Primer design

- (1)Natural primer: Primer3 hyperlink
- (2)Mutagenic primer: system provided