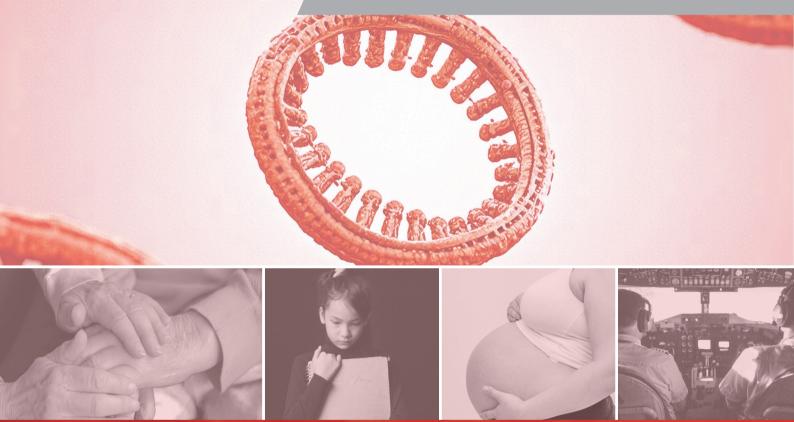


NANJING HEALED GENE BIOTECHNOLOGY CO., LTD.

### circRNA RT-PCR DETECTION KIT



# MAJOR DEPRESSIVE DISORDER OBJECTIVE DIAGNOSTIC BIOMARKERS



HIGH STABILITY 💩 HIGH SENSITIVITY 🔅 HIG

HIGH SPECIFICITY



Major depressive disorder (MDD), also known as depressive disorder, is characterized by significant and persistent depressed mood as the main clinical feature, and is the main type of mood disorder.

#### 1. Emotional Disorder

- Persistent low or depressed mood
- Loss of interest or pleasure
- Feelings of worthlessness or excessive guilt
- Irritability

#### 2. Physical Disorder

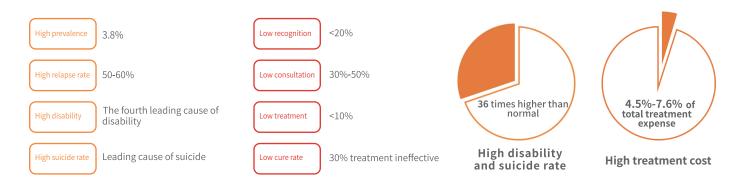
- Changes in appetite or weight
- Sleep disturbances
- Fatigue or loss of energy
- Psychomotor retardation or agitation
- Physical aches and pains

#### 3. Cognitive Disorder

- Difficulty concentrating or making decisions
- Increased forgetfulness
- Slowed speech or movement
- Thoughts of death or suicide

# EPIDEMIOLOGY

The average lifetime prevalence of MDD in Europe is approximately 11%, significantly higher than the global average of 3.8%.







Adolescents



Pregnant and Postpartum women



Elderly



#### High-Stress Occupational Groups

IT professional

- Pilots
- MilitaryPolice
- Teacher



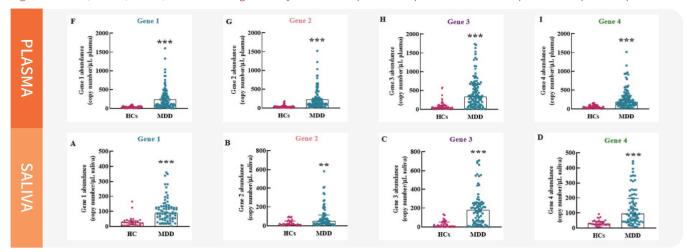


Figure 1: Gene1, Gene2, Gene3, Gene4 show significantly increased expression in plasma or saliva samples from depression patients.

Figure 2: The four-indicator combined test correlates with clinical scale evaluations at 99.5% in plasma or saliva samples.

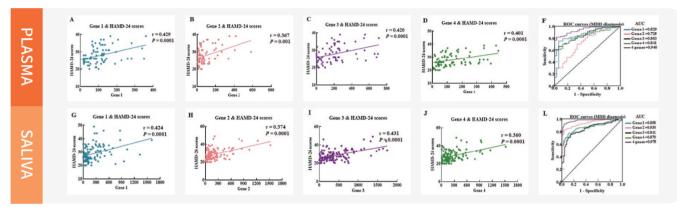


Figure 3: Gene1, Gene2, Gene3, Gene4 show good therapeutic effects in plasma or saliva samples from depression patients.

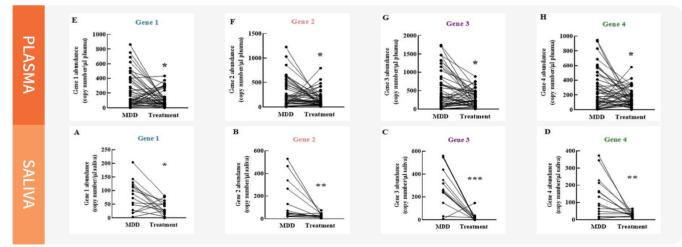
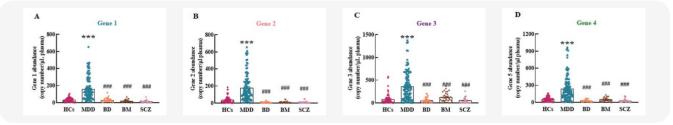


Figure 4: Gene1, Gene2, Gene3, Gene4 exhibit excellent specificity, showing 100% specificity only in depression clinical samples.



Assessment Tools: Depression severity: 24-item Hamilton Depression Rating Scale (HAMD-24)/Montgomery-Asberg Depression Rating Scale (MADRS)/Patient Health Questionnaire-9 (PHQ-9).

**DIAGNOSTIC METHODOLOGY COMPARISON** 





### **PRODUCT ADVANTAGES**



1.Objective Assessment Innovative diagnostic method



4.Saliva or Plasma sample

Easy to collect, non-invasive, well-accepted, and widely applicable



#### 2.High Accuracy and Specificity

4 biomarkers, specificity ≥95%, accuracy ≥90%



5.Quantitative Detection

Differentiation of mild, moderate,and severe depression in patients



#### 3.Circular RNA Detection Technology

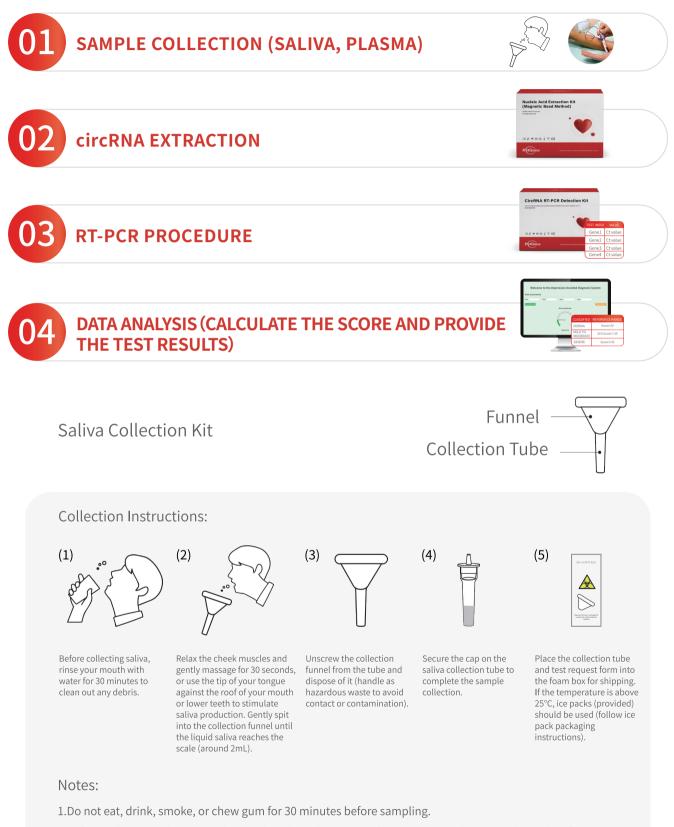
Ground-breaking technology



#### 6.Therapeutic Effects Evaluation

Evaluation of therapeutic effects, provide treatment reference

# **OPERATING PROCEDURE**



2.Before collecting saliva, relax the cheek and gently massage for 15–30 seconds to stimulate saliva flow.

3. Ensure the collection tube's outer packaging is intact and confirm that the saliva tube is not leaking.

4. This product is for single use only. Do not share the collection tube between individuals.



### circRNA Four-Indicator Test Report

Total Score:	
<pre>    </pre>	<ul> <li>Normal (Total Score &lt; 20): Indicates the sample is within the normal range, with a low risk of depression</li> <li>Mild and Moderate(20 &lt; Total Score &lt; 35): Indicates a higher risk of mild to moderate depression. Clinical and psychologicalevaluationis recommended</li> </ul>
	■ Severe (Total Score ≥ 35): Indicates a higher risk of severe depression. Clinical and psychological evaluation is recommended

#### **STATEMENT**:

The test results are for auxiliary purposes only, such as for clinical or research purposes and cannot be used as a definitive diagnosis of depression. The final interpretation of thetest results is to be made by a clinical doctor or psychological assessment expert.

### NANJING HEALED GENE BIOTECHNOLOGY CO.,LTD.

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