

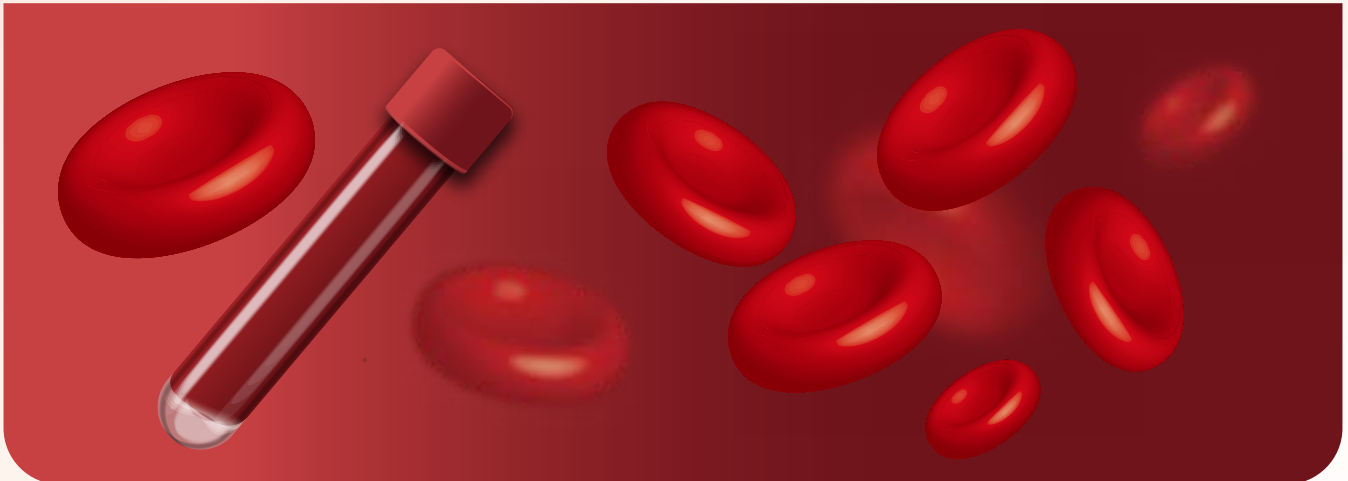
Thalassemia Real-time PCR Assays

HBA Test Kit

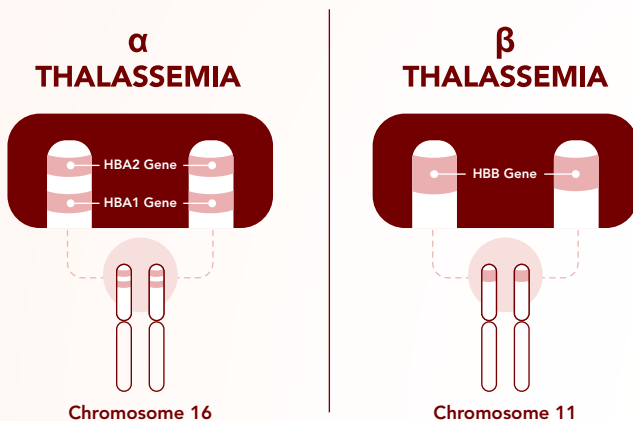
HBB Test Kit

Del-HBA-T Test Kit

HBB-P Test Kit



Thalassemia is an inherited blood disorder that causes your body to produce less hemoglobin than normal. Hemoglobin is an important protein present in red blood cells. It allows red blood cells to carry oxygen from the respiratory organs (lungs or gills) to the other tissues of the body, powering metabolism. In humans, hemoglobin A (the main form of hemoglobin in adults) is coded by **genes HBA1, HBA2, and HBB**.



Types of Thalassemia

- ♦ **α-thalassemia** is a form of thalassemia involving the α-globin genes HBA1 and HBA2, located on chromosome 16p.
- ♦ **β-thalassemia** is associated with mutations in the β-globin gene HBB, located on chromosome 11.

♦ Thalassemia are more common in people from Mediterranean countries (like Greece, Turkey, Italy), Asia, Africa, and the Middle East.

♦ Real-time PCR test is one of the most sensitive and efficient methods to investigate mutations and deletions in α and β thalassemia relevant genes, which can help diagnose thalassemia and determine carrier status.



The Global Distribution of α and β Thalassemia

Tests

HBA Test Kit

Detection of 3 mutations in HBA gene, including:

c.369C>G, c.377T>C, c.427T>C

HBB Test Kit

Detection of 24 mutations in HBB gene, including:

IVS-II-654 (C>T)	CD17 (A>T)	CD37 (G>A)
-28 (A>G)	IVS-I-5 (G>C)	CD71-72 (+A)
-29 (A>G)	CD30 (A>G)	IVS-II-5 (G>C)
-30 (T>C)	IVS-I-1 (G>T)	-73 (A>T)
-31 (A>C)	CD26 (G>A)	-90 (C>T)
-32 (C>A)	CD27-28 (+C)	CD71-72 (+T)
CD14-15 (+G)	CD41-42 (-TTCT)	IVS-II-2 (-T)
CD15-16 (+G)	CD43 (G>T)	CD38 (-A)



Del-HBA-T Test Kit

Detection of 4 deletions in human HBA gene, including:

--SEA, - α ^{4.2}, --Thai, - α ^{3.7}

HBB-P Test Kit

Detection of 12 mutations in human HBB gene, including:

IVSI-5 (G>C)	CD16 (-C)
IVSI-1 (G>T)	CD26 (G>A)
CD30 (G>C)	CD8/9 (+G)
CD41/42 (-TTCT)	CD5 (-CT)
CD39 (G>T)	CD10 (C>A)
CD15 (G>A)	DEL619bp

High-throughput Workflow



Sample Collection
(Human Peripheral Blood)



Automated DNA Extraction
(Up to 96 samples)



qPCR Detection
(Up to 94 samples)



Data Interpretation

Ordering Information

Cat. No.	Product	Size
802102	HBA Test Kit	48 Tests/Kit
802101	HBB Test Kit	48 Tests/Kit
802204	Del-HBA-T Test Kit	48 Tests/Kit
802109	HBB-P Test Kit	48 Tests/Kit

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