Wobble Base®
BioResearch

WB Detection Of Deletion α+-Thalassemia Mutation [-α (3.7), -α (4.2)] by end-point PCR

OUR CERTIFICATIONS

Our certifications

✓ ISO 13486:2016 certified

✓ ISO 9001: 2015 certified

✓ DPIIT (Govt. of India) certified

✓ Institutional Biosafety Committee (DBT)

✓ MSME Registered

✓ Trademark Registered with Trade Mark, Registry, Govt. of India

CONTACT

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GRANTS/AWARDS

- ✓ Biotechnology Ignition Grant Award-2013
- ✓ Grand Challenge-TB Control - Bill and Melinda Gates Foundation| USAID | BIRAC, Govt. of India Phase-1 Grant -2015;
- ✓ Grand Challenge-TB Control - Bill and Melinda Gates Foundation| USAID | BIRAC, Govt. of India Phase 2 Grant-2017
- ✓ Grand Challenge Explorations- Bill and Melinda Gates Foundation | USAID | BIRAC, Govt. of India Grant-2017
- ✓ DBS-NUS Social Venture Challenge Asia 2017 Finalist.
- ✓ BIRAC (Dept. of Biotechnology) Pre- Accelerator MedTech Challenge Grant-2021
- ✓ Fastest Growing Indian Company Award (2019) – International Achievers Conference, Bangkok
- ✓ Small Business Innovation Research Initiative (SBIRI) (2013) – Dept. of Science and Tech., Govt. of India.

INTRODUCTION

- α-Thalassaemia alleles result from mutations affecting either one α-globin gene (α+-thalassaemia) or both α-globin genes on the same chromosome (αo-thalassaemia). The majority of the commonest mutations are gene deletions but a number of point mutations within one of the two α-globin genes resulting in α+-thalassaemia

- WobbleBase α-thalassemia Mutation [-α (3.7), -α (4.2)] Diagnostic Kit has been developed and manufactured to identify deletions of -α3.7 and -α4.2,in the Human alpha globin gene situated on the short arm of chromosome 16 which leads to alpha thalassemia disease.

- WobbleBase Alpha-Thalassemia PCR Detection Kit utilizes Conventional PCR amplification coupled with gel electrophoresis technique to provide accurate and rapid results, empowering you in the fight against this inherited blood disorder.

KEY FEATURES

- Precision in Detection: Our Conventional PCR amplification method ensures precise identification of Alpha-Thalassemia mutations, allowing for early diagnosis and effective management of the condition.

- Simplicity and Efficiency: Designed with user convenience in mind, our kit offers a streamlined workflow, minimizing hands-on time and reducing the chances of errors. With clear instructions and intuitive procedures, you can achieve reliable results with ease.

- Fast Turnaround Time: Time is of the essence when it comes to diagnosing genetic disorders. Our kit delivers rapid detection, enabling healthcare professionals to make timely decisions and provide optimal patient care.

- High Sensitivity and Specificity: With our advanced gel electrophoresis technique, even the smallest mutations can be accurately identified, ensuring high sensitivity and specificity in Alpha-Thalassemia detection.

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✓ TATA Health Fund (Phase 1 - Biosafety) – 2024

Your thinking partner in science

- Comprehensive Analysis: Our kit enables simultaneous detection of multiple Alpha-Thalassemia mutations, providing a comprehensive analysis in a single assay.
- Quality Assurance: Rigorous quality control measures are implemented throughout the manufacturing process to guarantee the reliability and reproducibility of results.
- Versatility: Suitable for use in various laboratory settings, our kit caters to the diverse needs of healthcare professionals, from research laboratories to clinical diagnostic facilities.
- Dedicated Support: Our team of experts is committed to providing exceptional customer support, assisting you every step of the way, from installation to result interpretation.

SPECIFICATIONS

Technology	Conventional GAP-PCR amplification and gel electrophoresis technique
Target Mutation	DELETION α+-THALASSEMIA MUTATION [-α (3.7), -α (4.2), wild alleles]
Type of Analysis	Qualitative
Reporting Units	detected, not detected or inconclusive
Validated Specimen	Whole blood
Limit of Detection	10ng/µL
Controls	Inhibition and extraction control, negative control, positive control
Storage	-20 ± 5 °C
Instruments	Compatible with a wide range of conventional PCR devices.

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CATALOG NUMBER	PRODUCT INFORMATION	CONTENTS
A-THALQ/WBB/50	WB α-thalassemia Mutation [-α (3.7), -α (4.2)] PCR Diagnostic PCR Kit	50 reactions
A-THALQ/WBB/100	WB α-thalassemia Mutation [-α (3.7), -α (4.2)] PCR Diagnostic PCR Kit	100 reactions