

Thalassemia gDNA Reference Standards



Cover common loci of α and β thalassemia



GW thalassemia gDNA reference standard set contains common α and β thalassemia mutations, which can be used as negative and positive controls for daily quality control and performance evaluation of the test process.

Product Name	Format	Specification	Buffer	Shelf Life	Quality Control
Thalassemia gDNA Reference Standards	gDNA	30ng/ μ L, 1 μ g/tube	Tris-EDTA, pH 8.0	36 months (2-8°C)	Sanger or GAP-PCR

Key Features



Sample derived from human cell line

Mimic patient samples



Comprehensive variant loci

Covers common variants of α and β thalassemia



Multiple platforms to verify mutant loci

Sanger sequencing to verify point mutations;
GAP-PCR to verify fragment deletions



Wide range of applications

PCR, NGS, GeneChip and other platforms are applicable



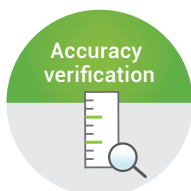
Negative and positive samples package

28 positive samples + 3 negative samples



Small batch difference, stable and repeatable

Application



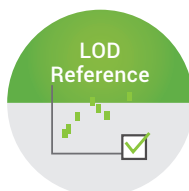
Accuracy verification



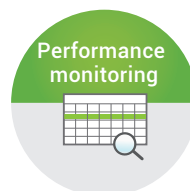
Repetitive verification



Repetitive verification



LOD Reference



Performance monitoring



Interfere with the evaluation



Platform difference assessment

Product List

Product Code	Product Name	Mutation	Mutation type	
IB-GW-TGTM101	Thalassemia Wild Type gDNA Reference Standard I	WT	--	
IB-GW-TGTM102	Thalassemia Wild Type gDNA Reference Standard II	WT	--	
IB-GW-TGTM103	Thalassemia Wild Type gDNA Reference Standard III	WT	--	
IB-GW-TGTS001	α Thalassemia Mutation gDNA Reference Standard I	α mutation	Hb Quong Sze (het)	
IB-GW-TGTS002	α Thalassemia Mutation gDNA Reference Standard II		Hb Constant Spring (HbCS) (het)	
IB-GW-TGTS003	α Thalassemia Mutation gDNA Reference Standard III		Hb Westmead (het)	
IB-GW-TGTS004	α Thalassemia Deletion gDNA Reference Standard I	α deletion	$\alpha\alpha/--SEA$ & IVS-II-654 (C->T) beta+ (het)	
IB-GW-TGTS005	α Thalassemia Deletion gDNA Reference Standard II		$\alpha\alpha/--SEA$	
IB-GW-TGTS006	α Thalassemia Deletion gDNA Reference Standard III		$-\alpha 3.7/--SEA$	
IB-GW-TGTS007	α Thalassemia Deletion gDNA Reference Standard IV		$\alpha\alpha/-\alpha 3.7$	
IB-GW-TGTS008	α Thalassemia Deletion gDNA Reference Standard V		$\alpha\alpha/-\alpha 4.2$	
IB-GW-TGTS009	α Thalassemia Deletion gDNA Reference Standard VI		$-\alpha 4.2/-\alpha 4.2$ & IVS-II-654 (C->T) beta+ (het)	
IB-GW-TGTS010	α Thalassemia Deletion gDNA Reference Standard VII		$\alpha\alpha/--SEA$ & IVS-II-654 (C->T) beta+ (hom)	
IB-GW-TGTS011	α Thalassemia Deletion gDNA Reference Standard VIII		THAI (het)	
IB-GW-TGTS012	β Thalassemia Mutation gDNA Reference Standard I		β mutation	HbE (het)
IB-GW-TGTS013	β Thalassemia Mutation gDNA Reference Standard II			-28 (A->G) beta+ (het)
IB-GW-TGTS014	β Thalassemia Mutation gDNA Reference Standard III	IVS-I-1 (G->T) beta0 (het)		
IB-GW-TGTS015	β Thalassemia Mutation gDNA Reference Standard IV	Codons 71/72 (+A) beta0 (het)		
IB-GW-TGTS016	β Thalassemia Mutation gDNA Reference Standard V	Codon 17 (A->T) beta0 (het)		
IB-GW-TGTS017	β Thalassemia Mutation gDNA Reference Standard VI	5'UTR; +43 to +40 (-AAAC) beta+ (het)		
IB-GW-TGTS018	β Thalassemia Mutation gDNA Reference Standard VII	Codon 43 (G->T) beta0 (het)		
IB-GW-TGTS019	β Thalassemia Mutation gDNA Reference Standard VIII	Initiation codon ATG->AGG beta0 (het)		
IB-GW-TGTS020	β Thalassemia Mutation gDNA Reference Standard IX	CD37 (Codon 37 (TGG>TAG)) beta0 (het)		
IB-GW-TGTS021	β Thalassemia Mutation gDNA Reference Standard X	CD41/42 (Codons 41/42 (-TTCT) beta0) (het)		
IB-GW-TGTS022	β Thalassemia Mutation gDNA Reference Standard XI	Codons 27/28 (+C) beta0 (het)		
IB-GW-TGTS023	β Thalassemia Mutation gDNA Reference Standard XII	-50 G>A beta+ (het)		
IB-GW-TGTS024	β Thalassemia Mutation gDNA Reference Standard XIII	-29 (A->G) beta+ (het)		
IB-GW-TGTS025	β Thalassemia Mutation gDNA Reference Standard XIV	Codons 14/15 (+G) beta0 (het)		
IB-GW-TGTS026	β Thalassemia Mutation gDNA Reference Standard XV	-90 (C->T) beta+ (het)		
IB-GW-TGTS027	β Thalassemia Deletion gDNA Reference Standard I	β deletion	SEA-HPFH	
IB-GW-TGTS028	β Thalassemia Deletion gDNA Reference Standard II		CD41/42 beta0 (hom) & G γ (A γ δ β) O (het)	



GeneWell Biotechnology Co., Ltd

Technical support : +86 755 2516 7057

E-mail : customerservice@gene-well.com

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Add : Room 802, Unit 3, Building 1, Dabaihui Life and Health Industrial Park, No. 2028, Shenyang Road, Tiandong Community, Haishan Street, Yantian District, Shenzhen, 518081 Guangdong, P.R. China



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