

# Devysr Thalassemia NGS

A single, one-tube NGS assay that detects all sequence variants in HBA1, HBA2 and HBB in a single run, eliminating the need for additional workflows. The assay detects SNVs, Indels and applies two simultaneous methods to detect CNVs. The extremely simple procedure suits any lab, whether you are running advanced genetic testing or large scale mutation screening.

***“Devysr’s product saves us a lot of time in the laboratory. Hands-on time has been cut by 50%.”***

Emma Samuelsson  
Sahlgrenska University Hospital, Gothenburg, Sweden

## **Complete one-tube analysis**

Single-tube NGS method for both SNV and CNV detection in HBA1, HBA2 and HBB.

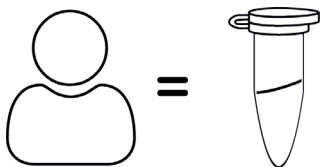
## **Fast and simple NGS workflow**

From DNA to sequencing in less than 5 hours with less than 45 min hands-on time.

## **User-friendly data analysis software**

Bypass complex and laborious data analysis with our tailored analytical software.

## **Simple NGS workflow**



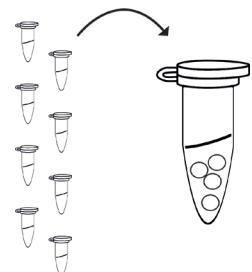
### **Target amplification**

Single-tube library protocol reduces the risk for sample mix up and contamination and minimizes the hands-on time



### **Sample indexing**

All indexes are delivered pre-dispensed in strip or plate format to minimize the hands-on time and reduce the risk for sample mix up or contamination.



### **Library cleanup**

All patient samples are pooled to a single tube before clean-up, again reducing the hands-on time and simplifying the workflow.

## Software that enables fast and straightforward analysis

Automated detection and identification of sequence variants

- Simple graphical interpretation of sequence variants and CNVs
- Single software for all thalassemia data interpretation

## Alpha globin deletions and mode of detection

7 direct CNV detections of larger deletions

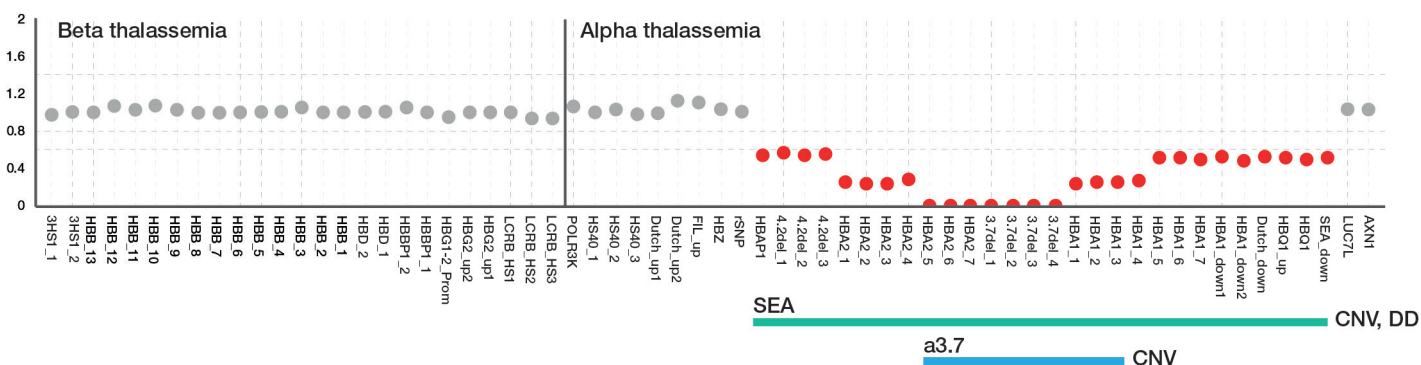
| Deletion        | Direct Detection of CNV | Coverage based CNV detection |
|-----------------|-------------------------|------------------------------|
| --SEA           | ●                       | ●                            |
| --FIL           | ●                       | ●                            |
| --THAI          | ●                       | ●                            |
| -(α)20.5        | ●                       | ●                            |
| --MED           | ●                       | ●                            |
| -(α)21.9        | ●                       | ●                            |
| -(α)27.6        | ●                       | ●                            |
| -(α)3.7         |                         | ●                            |
| -(α)4.2         |                         | ●                            |
| HS-40           |                         | ●                            |
| Other deletions |                         | ●                            |

## Beta globin deletions and mode of detection

11 direct CNV detections of larger deletions

| Deletion            | Direct Detection of CNV | Coverage based CNV detection |
|---------------------|-------------------------|------------------------------|
| Chinese             | ●                       | ●                            |
| Filipino            | ●                       | ●                            |
| Yunnanese           | ●                       | ●                            |
| Taiwanese           | ●                       | ●                            |
| SEA-HPFH            | ●                       | ●                            |
| δβ-Sicilia          | ●                       | ●                            |
| Hb-Lepore Boston    | ●                       | ●                            |
| Hb-Lepore Baltimore | ●                       | ●                            |
| Hb-Lepore Hollandia | ●                       | ●                            |
| 290bp-del           | ●                       | ●                            |
| B619-del            | ●                       | ●                            |
| Other deletions     |                         | ●                            |

## CNV analysis of compound SEA and a3,7 deletions



## Article numbers

- Devyser Thalassemia CE-IVD kit  
8-A106-24 (24 tests)  
8-A106-48 (48 tests)  
8-A106-96 (96 tests)

## Accessories

- Devyser Library Clean  
8-A204
- Devyser Index Plate A  
8-A200