

HemeScreen® CTP Panel – Product Overview

This document provides a general product overview of the HemeScreen CTP Assay. Additional information can be found on Precipio's website at <u>www.precipiodx.com</u>, and the associated IFU (Instructions For Use), available upon request.

TechnologyHemeScreen® is a proprietary set of RUO (Research Use Only) reagents used to screen the wild type (Negative)Overviewfrom Mutated (Positive) genes in a simplified workflow relative to alternative molecular testing technologies (RT-
PCR or NGS).

CTP The myelodysplastic syndromes (MDS) comprise a group of hematologic malignancies characterized by clonal hematopoiesis, one or more cytopenias (i.e., anemia, neutropenia, and/or thrombocytopenia), and abnormal cellular maturation.

Genes Tested	Coverage											
WT1 Exon 8	c.1142C>A; p.S381*, c.1110dup; p.V371Cfs*14											
WT1 Exon 10	c.1384C>T; p.R462W, c.1385G>A; p.R462Q, c.1385G>C; p.R462P, c.1390G>A; p.D464N											
ASXL1 Exon 12 codon 591	c.1772dup; p.Y591*											
ASXL1 Exon 12 codon 635	c.1900_1922del; p.E635Rfs*15, c.1934dup; p.G646Wfs*12											
ASXL1 Exon 12 codon 693	c.2077C>T; p.R693*											
ASXL1 Exon 12 codon 808	c.2423del; p.P808Lfs*10											
ASXL1 Exon 12 codon 1102	c.3306G>T; p.E1102D											
RUNX1 Exon 4	c.167T>C; p.L56S, c.319C>T; p.R107C											
RUNX1 Exon 5	c.422C>A; p.S141*, c.485G>A; p.R162K, c.496C>T; p.R166*											
RUNX1 Exon 6	c.592G>A; p.D198N, c.602G>A; p.R201Q, c.610C>T; p.R204*											
RUNX1 Exon 8	c.958C>T; p.R320*											
DNMT3A Exon 23	c.2645G>A; p.R882H, c.2644C>T; p.R882C, c.2644C>A; p.R882S, c.2645G>C; p.R882P,											
	c.2644C>G; p.R882G, c.2645G>T; p.R882L											
SF3B1 Exon 15	c.1866G>T; p.E622D, c.1866G>C; p.E622D, c.1873C>T; p.R625C, c.1874G>T; p.R625L,											
	c.1984C>G; p.H662D, c.1986C>G; p.H662Q, c.1986C>A; p.H662Q, c.1996A>C; p.K666Q,											
	c.1996A>G; p.K666E, c.1997A>C; p.K666T, c.1997A>G; p.K666R, c.1998G>T; p.K666N,											
	c.1998G>C; p.K666N											
SF3B1 Exon 16	c.2098A>G; p.K700E											
SF3B1 Exon 17	c.2225G>A; p.G742D											

Results The results from HemeScreen[®] CTP are qualitative.

AssociatedMDS with low blasts, ring sideroblasts and wild-type SF3B1 has a less favourable overall survival andWHO/NCCNleukaemia-free survival { 25957392 }. The favourable outcome associated with SF3B1 mutation is lost as
soon as an excess of blasts is observed { 34036300 } The spectrum of sub-clonal genetic alterations
identified in MDS-SF3B1 and driving disease progression is limited. Additional mutations in epigenetic
regulators, including DNMT3A, TET2 or ASXL1 do not affect the disease outcome. In contrast, mutations
in TP53, RUNX1, EZH2 mutations { 32347921 ; 34036300 } are associated with a poorer outcome.

		Specificity				Sensiti	LOD			Storage				
Assay Speci		>99%		98%		/ 0		2%		-20 °C		°C		
SKU	Product Configuration				Assay Contents									
HS-3P-CTP	3	3 sample pr	e-plated	plate	Pri	mers/Ma	sterMix M	lix Po	ositive	controls	N.	ТС	Wild	Туре
Instrument HRM-enabled RT-PCR (example ThermoFisher Quantstudio 3 or higher) Required														
Contact For further questions, contact our technical support team at techsupport@precipiodx.com or call 203-787-7888														38
Disclaimer	The information in this document represents the company's best understanding of the technical and regulatory landscape; however, it should not serve as any guidance to any laboratory seeking to implement HemeScreen. Laboratory managers and medical directors should seek their own information independently through their CLIA inspector and any other state and federal regulatory body available.												should ek their	