OCTOBIO

PRECISION YOU CAN TRUST

Real-Time PCR Kits

PRODUCTS

OCTO HEALTH REAL TIME PCR CARDIOVASCULAR DISEASE (CVD)

Kit Name	Reaction	Catalog No
CVD PANEL KIT 1	25	RT-CVD-P1-25
	50	RT-CVD-P1-50
CVD PANEL KIT 2	25	RT-CVD-P2-25
	50	RT-CVD-P2-50
CVD 6IN2 KIT	25	RT-CVD-6-2-25
	50	RT-CVD-6-2-50
CVD 4IN1 KIT	25	RT-CVD-4-1-25
	50	RT-CVD-4-1-50
CVD MTHFR/MTR/MTRR MUTATION KIT	25	RT-CVD-MT4-25
	50	RT-CVD-MT4-50
CVD 6IN2 FAST KIT	25	RT-CVD-6-2-25-F
	50	RT-CVD-6-2-50-F
CVD 4IN1 FAST KIT	25	RT-CVD-4-1-25-F
	50	RT-CVD-4-1-50-F

OCTO HEALTH REAL TIME PCR FAMILIAL MEDITERRANIAN FEVER (FMF)

FMF ALL IN ONE KIT	25	RT-FMF-ALL-25
	50	RT-FMF-ALL-50
FMF PANEL KIT 1	25	RT-FMF-P1-25
	50	RT-FMF-P1-50
FMF PANEL KIT 2	25	RT-FMF-P2-25
	50	RT-FMF-P2-50
FMF PANEL KIT 3	25	RT-FMF-P3-25
	50	RT-FMF-P3-50

OCTO HEALTH REAL TIME PCR HUMAN LEUKOCYTE ANTIGEN (HLA)

HLA-B27 GENOTYPING KIT	25	RT-HLA-B27-25
	50	RT-HLA-B27-50

OCTO HEALTH REAL-TIME PCR SMN1 SCREENING KIT

SMN1 SCREENING KIT	25	RT-SMN1-25
	50	RT-SMN1-50

OCTO HEALTH REAL-TIME PCR LACTOSE INTOLERANCE SCREENING KIT

LACTOSE INTOLERANCE SCREENING KIT	25	RT-LAC-25
	50	RT-LAC-50

OCTO HEALTH REAL-TIME PCR NON INVASIVE GENDER DETERMINATION KIT

NON INVASIVE GENDER DETERMINATION KIT	25	RT-NIGD-25
	50	RT-NIGD-50

OCTO HEALTH REAL-TIME PCR Y CHROMOSOME DELETION KIT

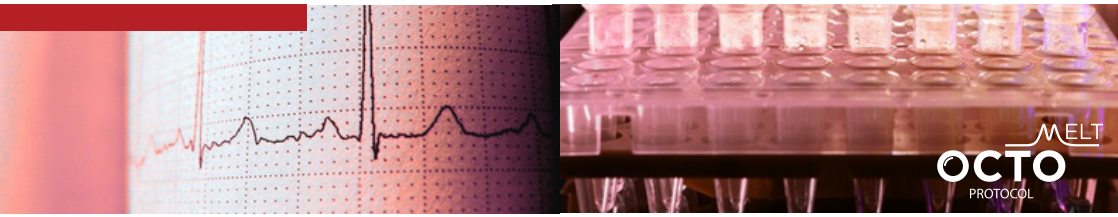
Y CHROMOSOME DELETION KIT	25	RT-YD-25
	50	RT-YD-50

OCTO HEALTH REAL-TIME PCR HEMOCHROMATOSIS MUTATION KIT

HEMOCHROMATOSIS MUTATION KIT	25	RT-HFE-25
	50	RT-HFE-50

OCTO HEALTH REAL TIME PCR

CARDIOVASCULAR DISEASE (CVD)



Cardiovascular diseases (CVD) represent a significant global health burden, often stemming from a complex interplay of genetic predisposition and lifestyle factors. OCTO Health introduces a pioneering solution to aid in the early detection and management of CVD through our comprehensive Cardiovascular Disease Panel Real Time PCR Kit.

PCR Device Compatible

Compatible with wide range of Real Time PCR Devices

OctoClario Compatible

Compatible with scalable molecular analysis software OctoClario

Melt-Curve Analysis

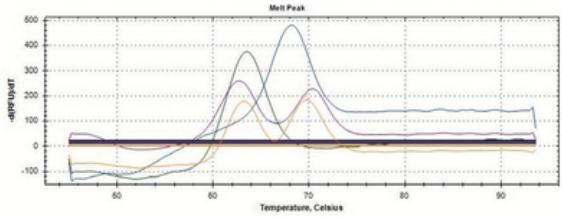
Error-free analysis with Melt-Curve method

Internal Control

No extra control needed, each parameter serves as an internal control

Ready-to-Use Master Mix

Taq DNA Polymerase included Master Mix. No extra PCR reagents needed



The melt peak curves for the parameters MTHFR1298, MTHFR677, Factor II Leiden, and FV Cambridge (Master Mix 1). The temperatures specified in the table provided in the IFU are used as a basis to determine whether the sample is homozygous mutant, wild type, or heterozygous, for the relevant parameter

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OCTO HEALTH REAL TIME PCR

CARDIOVASCULAR DISEASE (CVD)

NO	GENE	PANEL 1	PANEL 2	PANEL 3	6 IN 1 6IN1 FAST	4 IN 1 4IN1 FAST
1	Factor V Leiden (G1691A)	✓	✓	✓	✓	✓
2	Prothombin Factor II (G20210A)	✓	✓	✓	✓	✓
3	MTHFR (C677T)	✓	✓	✓	✓	✓
4	MTHFR (A1298C)	✓	✓	✓	✓	✓
5	FACTOR XIII (V34L)	✓	✓	✓	✓	–
6	PAI (4G/5G)	✓	✓	✓	✓	–
7	Beta Fibrinogen (455G/A)	✓	✓	✓	–	–
8	HPA1 (ITGB3,L33P)	✓	✓	✓	–	–
9	Factor V Cambridge (1001G/C)	✓	✓	–	–	–
10	APOB (R3500Q)	✓	✓	–	–	–
11	ACE (I/D)	✓	✓	–	–	–
12	LTA (804C/A)	✓	✓	–	–	–
13	APOE (388T/C)	✓	✓	–	–	–
14	APOE (526C/T)	✓	✓	–	–	–
15	FV H1299R (3980A/G)	✓	✓	–	–	–
16	MTR	–	✓	✓	–	–
17	MTRR	–	✓	✓	–	–
18	Factor VII (G10976A)	–	–	✓	–	–
19	ITGA2 (C807T)	–	–	✓	–	–

GENE	MTHFR/MTR MTRR MUTATION
Factor V Leiden (G1691A)	✓
Prothrombin Factor II (G20210A)	✓
MTR	✓
MTRR	✓

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OCTO HEALTH REAL TIME PCR

FAMILIAL MEDITERRANIAN FEVER (FMF)





FMF is a genetic disorder characterized by attacks of inflammation. OCTO Health FMF Panel Real-Time PCR Kit covers more than 99% of the most common mutations in Mediterranean populations. This advanced kit enables the rapid and precise identification of genetic factors associated with FMF, thus supporting personalized treatment approaches and improving the quality of life of patients.

Fluorescence Melting Curve Analysis

Precisely determines DNA melting temperatures

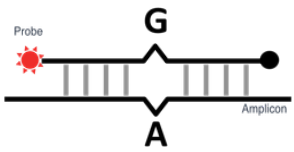
Reliable detection

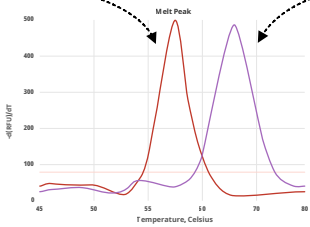
Fast, reliable, and accurate mutation detection.

Multiple mutation analysis with a single probe

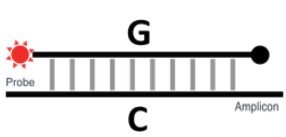
Screens 13 mutations and differentiates between Mutant and Wild Type using a single probe.

Mismatch, Lower Melt °C





Complete Match, Higher Melt °C



In Melt Curve analysis, Wild Type DNA is held together by strong hydrogen bonds, allowing it to withstand higher temperatures and resulting in a higher melting temperature (Tm). However, in the case of mutant samples, mutations weaken these bonds, causing the DNA to denature at lower temperatures. This leads to distinct melting temperature differences between wild type and mutant samples. During analysis, these differences become evident with temperature changes and are clearly observable.

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OCTO HEALTH REAL TIME PCR

FAMILIAL MEDITERRANIAN FEVER (FMF)

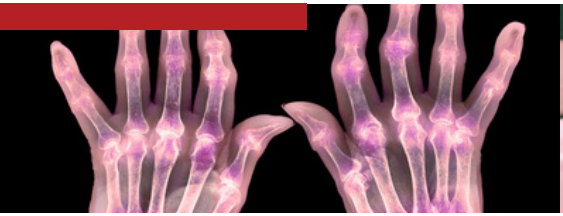
NO	MUTATION	ALL IN ONE KIT 28 Parameters	PANEL KIT 3 18 Parameters	PANEL KIT 2 14 Parameters	PANEL KIT 1 12 Parameters
1	M694V	✓	✓	✓	✓
2	E148Q	✓	✓	✓	✓
3	V726A	✓	✓	✓	✓
4	M680I	✓	✓	✓	✓
5	P369S	✓	✓	✓	✓
6	R761H	✓	✓	✓	✓
7	A744S	✓	✓	✓	✓
8	M694I	✓	✓	✓	✓
9	K695R	✓	✓	✓	✓
10	F479L	✓	✓	✓	✓
11	I692del	✓	✓	✓	✓
12	M680I	✓	✓	✓	✓
13	E148V	✓	✓	✓	–
14	R408Q	✓	✓	✓	–
15	E167D	✓	✓	–	–
16	P350R	✓	✓	–	–
17	S179I	✓	✓	–	–
18	L110P	✓	✓	–	–
19	R42W	✓	–	–	–
20	E84K	✓	–	–	–
21	E230K	✓	–	–	–
22	E230Q	✓	–	–	–
23	T267I	✓	–	–	–
24	P283L	✓	–	–	–
25	G304R	✓	–	–	–
26	R354W	✓	–	–	–
27	I591T	✓	–	–	–
28	R653H	✓	–	–	–

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OCTO HEALTH REAL TIME PCR

HUMAN LEUKOCYTE ANTIGEN (HLA)





HLA-B27 is a protein in the MHC class I family responsible for antigen presentation in the immune system. This genetic variant is associated with a predisposition to autoimmune diseases like ankylosing spondylitis and reactive arthritis, where the immune system may mistakenly attack the body's own tissues. HLA-B27 is found at varying frequencies across populations and includes several sub-variants that can influence the risk of disease development.

High sensitivity

Accurately detects the target genetic material.

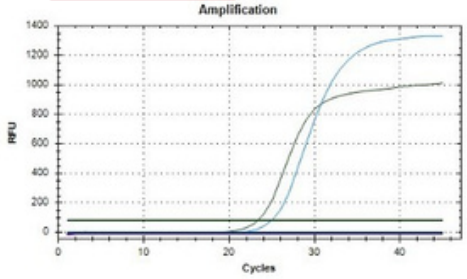
Fast and Reliable Results

Provides results quickly and accurately.

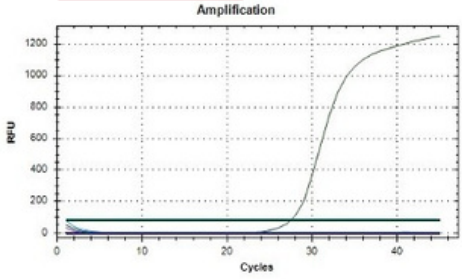
Early Diagnosis Opportunity

Helps identify predisposition to autoimmune diseases, supporting early preventive measures

Positive Sample



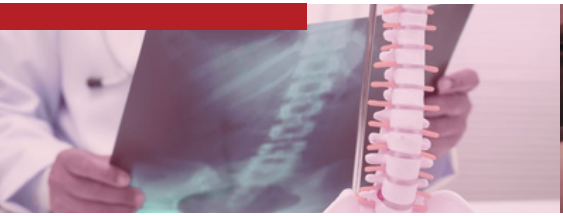
Negative Sample



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OCTO HEALTH REAL TIME PCR

SURVIVAL MOTOR NEURON (SMN1)

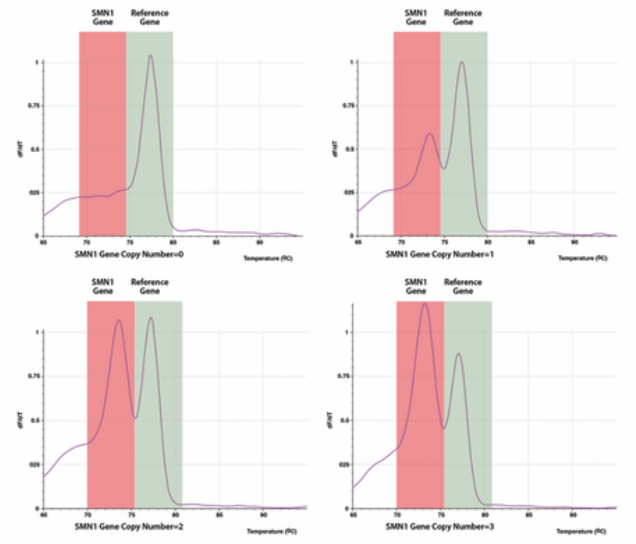




SMN1 gene is essential for producing SMN protein, which maintains and supports motor neuron function. Mutations or deletions in SMN1 cause SpinalMuscular Atrophy (SMA), a severe neurodegenerative disorder. Accurate determination of SMN1 copy number is vital for SMA diagnosis, carrier screening, and distinguishing aected from unaected individuals. Our kit offers a streamlined workow, faster turnaround, and high analytical precision using a SYBR Green melt curve–based detection method for the SMN1 gene.



Interpretation of Results



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OCTO HEALTH REAL TIME PCR

LACTOSE INTOLERANCE SCREENING





OCTO Health Real-Time PCR Lactose Intolerance Screening Kit is designed for the detection of genetic variants associated with lactase persistence and lactose intolerance. The assay targets two clinically relevant MCM6 polymorphisms, rs4988235 and rs182549, using Real-Time PCR and melt-curve analysis.

The kit enables laboratories to perform genetic screening for lactose intolerance through a simple single-tube workflow. By identifying reference, alternative, or heterozygous genotypes, it provides a reliable molecular tool for laboratories offering food intolerance and genetic predisposition testing.

Single tube workflow
Single-tube Real Time PCR workflow and ready to use format efficient routine testing

PCR Device Compatible
Compatible with wide range of Real Time PCR Devices

Detailed screening
Detects MCM6 **rs4988235** and **rs182549** polymorphisms

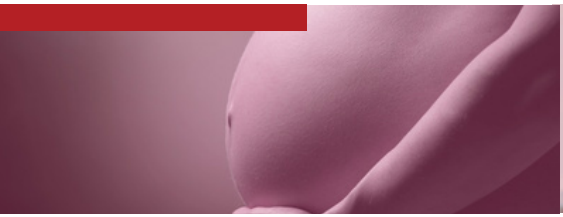
Melt-Curve Analysis
Error-free analysis with Melt-Curve method

TUBE	GENE	NUCL. CHANGE	RS #	EMISSION CHANNEL
1	MCM6	c.-13910 C>T	rs4988235	Cy5
	MCM6	c.1362+117 G>A	rs182549	TEXAS RED

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OCTO HEALTH REAL TIME PCR

NON INVASIVE GENDER DETERMINATION





OCTO Health Real-Time PCR Non-Invasive Fetal Sex Determination Kit is designed for the qualitative detection of Y-chromosome cell-free fetal DNA from maternal plasma. The assay provides a non-invasive molecular solution for fetal sex determination using Real-Time PCR technology.

The kit includes a Y-chromosome target in the FAM channel and an internal control in the HEX channel to verify sample adequacy, extraction performance, and PCR validity. With a simple workflow and clear result interpretation, it is suitable for molecular diagnostic laboratories seeking a reliable and easy-to-integrate fetal sex determination assay.

PCR Device Compatible

Compatible with wide range of Real Time PCR Devices detecting FAM and HEX channels

Easy integration

Simple and efficient workflow

Result validity

Internal control included for result validity

Non invasive

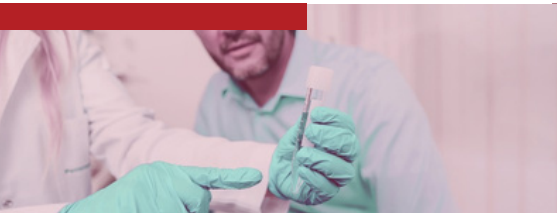
Testing from maternal plasma, based on cell-free DNA (cfDNA) analysis

TUBE 1	Emission Ch.
Internal Control	HEX
Y-Chromosome	FAM

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OCTO HEALTH REAL TIME PCR

Y CHROMOSOME DELETION





Y chromosome microdeletion is one of the most common genetic disorders associated with infertility in men. OCTO Health Real-Time PCR Y Chromosome Deletion Kit is developed for the detection of Y chromosome microdeletions associated with male infertility. The assay screens key regions of the Y chromosome, including AZFa, AZFb, AZFc, SRY, and ZFX/Y regions.

The kit uses a multiplex Real-Time PCR and melt-curve analysis workflow to evaluate 9 genetic regions in 5 reaction tubes. Designed for molecular diagnostic laboratories, it provides a practical solution for supporting male infertility investigations, particularly in cases of azoospermia and severe oligospermia.

PCR Device Compatible
Compatible with wide range of Real Time PCR Devices

Melt-Curve Analysis
Error-free analysis with Melt-Curve method

Detailed screening
Screens AZFa, AZFb, AZFc, SRY, and ZFX/Y regions

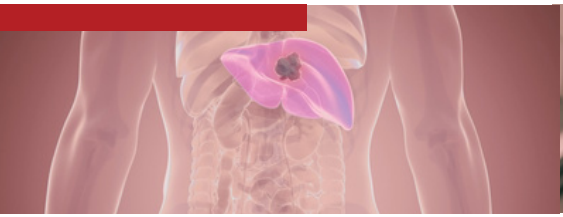
Optimal targeting
Detection of 9 target regions in 5 tubes

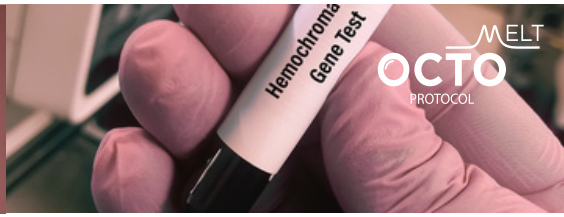
Gene	Tube Number
SY84	1
SY134	2
SY87	3
ZFX/Y	4
SY254	5
SY127	6
SY128	7
SRY	8
SY255	9

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OCTO HEALTH REAL TIME PCR

HEMOCHROMATOSIS MUTATION KIT





OCTO Health Real-Time PCR Hemochromatosis Mutation Kit is designed for the qualitative detection of clinically significant HFE gene mutations associated with hereditary hemochromatosis. The assay targets the major HFE variants C282Y, H63D, and S65C from human genomic DNA using Real-Time PCR technology.

With a single-tube workflow and melt-curve-based interpretation, the kit provides a practical molecular solution for laboratories performing hereditary hemochromatosis testing. Its ready-to-use format supports efficient routine testing and easy integration into molecular diagnostic laboratory workflows.

Single tube workflow
Single-tube workflow and ready to use format efficient routine testing

PCR Device Compatible
Compatible with wide range of Real Time PCR Devices

Detailed screening
Detects major HFE mutations: C282Y, H63D, and S65C

Melt-Curve Analysis
Error-free analysis with Melt-Curve method

TUBE	GENE	MUTATION	RS #	EMISSION CHANNEL
1	HFE	C282Y	rs1800562	ROX
	HFE	H63D	rs1799945	CY5
	HFE	S65C	rs1800730	CY5

CE IVD

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