



PentaBase

PRODUCT CATALOGUE

IVD PCR assays



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MicroSight® MSI

1-step HRM Analysis - for objective detection of MSI

MicroSight® MSI 1-step HRM Analysis assists in making the proper treatment plan for cancer patients. It is a novel, one-instrument, fast, and objective method for detection of microsatellite instability (MSI), which does not depend on the use of a paired wildtype reference. The assay analyses five well-described mononucleotide microsatellite sequences by real-time PCR follow by high-resolution melt and evaluates microsatellite length via PCR product melting profiles.

MicroSight® MSI 1-step HRM Analysis is supplied as Ready-to-use (RTU), which can be used for Paired or Unpaired (with a universal reference) analysis. The RTU version is pre-dispensed and only needs addition of template before analysis.

Table 1 - MicroSight® MSI product range			
Product name	Reactions	Format	Ref. No.
MicroSight® MSI 1-step HRM Analysis	16	Ready-to-use	7201



EpiDirect® MGMT and MLH1

Methylation qPCR Assays

EpiDirect® MGMT and MLH1 Methylation qPCR Assays are the world’s first qPCR-based assays for the detection of DNA methylation using small amounts of untreated DNA – no need for bisulfite treatment or enzymatic conversion! The assays analyse four CpG sites in the MGMT and MLH1 promoters that can be used as an aid in the treatment selection of patients with glioblastoma and in diagnosing Lynch Syndrome, respectively. EpiDirect® incorporates PentaBase’s proprietary INA® technology, significantly reducing the turn-around time from two days to two hours.

Table 2 - EpiDirect® MGMT product range			
Product specifications	Reactions	Format	Ref. No.
EpiDirect® MGMT Methylation qPCR Assay	48 48	Ready-to-use	8300
EpiDirect® MLH1 Methylation qPCR Assay *(PEO)		Ready-to-use	8400

*For Performance Evaluation Only



SensiScreen®

qPCR-based tumor stratification and monitoring

SensiScreen® qPCR-based assays provide fast and reliable detection of a broad panel of clinically relevant somatic cancer mutations in solid and liquid biopsies. Thus, SensiScreen® assays are available in multiplex configurations for initial screening and stratification of solid tumor biopsies, and simplex configurations for genotyping and monitoring of treatment efficiency and disease progression using liquid biopsies.

A uniform setup and analysis protocol for all assays in the SensiScreen® product family allows the user to combine different SensiScreen® assays in the same real-time PCR run.

An open platform design and the use of PentaBase's INA® technology including BaseBlockers™ ensure high specificity and sensitivity towards low variant allele frequency (VAF) mutations on a wide range of standard real-time PCR instruments.

	Table 3 - SensiScreen® FFPE BRAF product range				
FFPE BRAF	Product specification	Dispense ready		Ready-to-use	
		Reactions	Ref. No.	Reactions	Ref. No.
	V600 Multiplex (B1)	20	1398	12	1831
	V600 Simplex (B2)	20	1402	12	1836
	V600E (B3)	20	1400	12	1841

	Table 4 - SensiScreen® Liquid BRAF product range				
Liquid BRAF	Product specification	Dispense ready		Ready-to-use	
		Reactions	Ref. No.	Reactions	Ref. No.
	V600 Multiplex (B1)	20	5525	12	5336
	V600 Simplex (B2)	20	5530	12	5341
	V600E (B3)	20	5535	12	5346

Table 5 - SensiScreen® FFPE EGFR product range					
FFPE EGFR	Product specification	Dispense ready		Ready-to-use	
		Reactions	Ref. No.	Reactions	Ref. No.
	Exon18+19+20+21 Multiplex (E1)	20	5670	12	5681
	G719 Multiplex (E2)	20	2085	12	2081
	G719 Simplex (E3)	20	3027	12	3071
	Exon 19 Deletions (E4)	20	2075	12	2071
	S768I (E5)	20	2095	12	2091
	T790M (E6)	20	2065	12	2061
	Exon 20 Insertions (E7)	20	3025	12	3021
	L858R (E8)	20	3005	12	3001
	Assay L816Q (E9)	20	3015	12	3011
	Exon 19 Deletions; T790M; 858R (E10)	20	3077	12	5398

	Table 7 - SensiScreen® FFPE KIT product range				
FFPE KIT	Product specification	Dispense ready		Ready-to-use	
		Reactions	Ref. No.	Reactions	Ref. No.
	KIT qPCR Assay - D816V (I1)	20	1154	12	1846

	Table 8 - SensiScreen® Liquid KIT product range				
Liquid KIT	Product specification	Dispense ready		Ready-to-use	
		Reactions	Ref. No.	Reactions	Ref. No.
	KIT qPCR Assay - D816V (I1)	20	5800	12	5581

Table 9 - SensiScreen® FFPE KRAS product range					
FFPE KRAS	Product specification	Dispense ready		Ready-to-use	
		Reactions	Ref. No.	Reactions	Ref. No.
	Exon 2+3+4 Multiplex (K1)	20	1900	12	1701
	Exon 2 Multiplex (K2)	20	1905	12	1706
	Exon 3 Multiplex (K3)	20	1910	12	1711
	Exon 4 Multiplex (K4)	20	1915	12	1716
	Exon 2 Simplex 1 (K5)	20	1925	12	1726
	Exon 2 Simplex 2 (K6)	20	1930	12	1731
	Exon 3 Simplex 1 (K7)	20	1940	12	1741
	Exon 3 Simplex 2 (K8)	20	1945	12	1746
	Exon 4 Simplex 1 (K9)	-	-	12	1756
	Exon 4 Simplex 2 (K10)	-	-	12	1761
	G12C (K11)	20	1955	12	1960

Table 10 - SensiScreen® Liquid KRAS (RUO) product range					
Liquid KRAS (RUO)	Product specification	Dispense ready		Ready-to-use	
		Reactions	Ref. No.	Reactions	Ref. No.
	Exon 2+3+4 Multiplex (K1)	20	5395	12	5210
	Exon 2 Multiplex (K2)	20	5400	12	5206
	Exon 3 Multiplex (K3)	20	5405	12	5211
	Exon 4 Multiplex (K4)	20	5410	12	5216
	Exon 2 Simplex 1 (K5)	20	5420	12	5226
	Exon 2 Simplex 2 (K6)	20	5425	12	5231
	Exon 3 Simplex 1 (K7)	20	5435	12	5241
	Exon 3 Simplex 2 (K8)	20	5440	12	5246
	Exon 4 Simplex 1 (K9)	20	5450	12	5256
	Exon 4 Simplex 2 (K10)	20	5455	12	5261

Table 11 - SensiScreen® FFPE NRAS product range					
FFPE NRAS	Product specification	Dispense ready		Ready-to-use	
		Reactions	Ref. No.	Reactions	Ref. No.
	Exon 2+3+4 Multiplex (N1)	20	2000	12	1771
	Exon 2 Multiplex (N2)	20	2005	12	1776
	Exon 3 Multiplex (N3)	20	2010	12	1781
	Exon 4 Multiplex (N4)	20	2015	12	1786
	Exon 2 Simplex 1 (N5)	20	2025	12	1796
	Exon 2 Simplex 2 (N6)	20	2030	12	1801
	Exon 3 Simplex 1 (N7)	20	2040	12	1811
	Exon 3 Simplex 2 (N8)	20	2045	12	1816
	Exon 4 Simplex 1 (N9)	20	2050	12	1821
	Exon 4 Simplex 2 (N10)	20	2055	12	1826

Table 12 - SensiScreen® Liquid NRAS (RUO) product range					
Liquid NRAS (RUO)	Product specification	Dispense ready		Ready-to-use	
		Reactions	Ref. No.	Reactions	Ref. No.
	Exon 2+3+4 Multiplex (N1)	20	5460	12	5271
	Exon 2 Multiplex (N2)	20	5465	12	5276
	Exon 3 Multiplex (N3)	20	5470	12	5281
	Exon 4 Multiplex (N4)	20	5475	12	5286
	Exon 2 Simplex 1 (N5)	20	5485	12	5296
	Exon 2 Simplex 2 (N6)	20	5490	12	5301
	Exon 3 Simplex 1 (N7)	20	5500	12	5311
	Exon 3 Simplex 2 (N8)	20	5505	12	5316
	Exon 4 Simplex 1 (N9)	20	5515	12	5326
	Exon 4 Simplex 2 (N10)	20	5520	12	5331

	Table 13 - SensiScreen® Liquid PIK3CA product range				
Liquid PIK3CA	Product specification	Dispense ready		Ready-to-use	
		Reactions	Ref. No.	Reactions	Ref. No.
	E542K (P4)	20	5585	12	5591
	E545K (P5)	20	5586	12	5600
	H1047L (P6)	20	5601	12	5592
	H1047R (P7)	20	5587	12	5590

If you wish to delve deeper into each SensiScreen® assay target on amino acid level, scan the QR code below to get a comprehensive overview of each variant. Appendix can also be found at the back of this catalogue.





PlentiPlex™ IDH

Malignant Glioma qPCR assay

PlentiPlex™ IDH qPCR Assay is a semi-quantitative real-time PCR assay intended for the semi-quantitative detection of specific somatic mutations in the IDH1 gene in human DNA purified from FFPE tissue. The assay identifies single nucleotide variants in codon R132 in the IDH1 gene, coding five different mutations: R132C, R132G, R132H, R132L and R132S. The assay is available in both a dispense ready and a ready-to-use format. The assay has high sensitivity, an open platform design, ease of use and rapid sample-to-result turn-around. The assay is intended for detection, identification, and quantification the IDH somatic mutational status in patients as an aid in selecting proper treatment of cancer.

Table 14 - PlentiPlex™ IDH product range

Product specification	Dispense ready		Ready-to-use	
		Ref. No.	Reactions	Ref. No.
Reactions 20				
PlentiPlex™ IDH qPCR Assay- R132 (D1) (RUO)		1303	12	1304
PlentiPlex™ IDH qPCR Assay- R132 Simplex (D2) (RUO)	20	1308	12	1309



PlentiPlex™ KIT Mastocytosis

Mastocytosis qPCR Assay for evaluation of the presence of the KIT D816V mutation

Mastocytosis qPCR Assay for evaluation of the presence of the KIT D816V mutation. PlentiPlex™ KIT Mastocytosis qPCR Assay is based on PentaBase’s INA® technology including Base-Blockers™ that allows for ultra-sensitive detection of low variant KIT D816V allele frequency mutations with a limit of detection (LOD) of just 0.05% in genomic DNA purified from whole blood.

The obtained results of PlentiPlex™ KIT Mastocytosis qPCR Assay are intended for the identification of the KIT D816V mutation as part of the WHO diagnostic criteria to assist the diagnosis of Mastocytosis.

Table 15 - PlentiPlex™ KIT Mastocytosis product range				
Product specification	Dispense ready		Ready-to-use	
	Reactions	Ref. No.	Reactions	Ref. No.
PlentiPlex™ KIT Mastocytosis D816V (IM3)	20	7032	12	7030



PlentiPlex™ MYD88

Waldenström Lymphoma qPCR assay

PlentiPlex™ MYD88 Waldenström Lymphoma qPCR Assay is a semi-quantitative, open platform in vitro diagnostic assay intended for simple, fast, and sensitive detection of MYD88 L265P in genomic DNA obtained from FFPE tissue or whole blood samples.

The assay aids in the diagnosis of Waldenström Macroglobulinemia (also known as Lymphoplasmacytic lymphoma) with a limit of detection down to 0.6-0.75% depending on the sample type.

Table 17 - PlentiPlex™ MYD88 product range

Product Specification	Reactions	Format	Ref. No.
PlentiPlex™ MYD88 L265P (Y1) Simplex Assay	20 12 24	Dispense Ready	1500
PlentiPlex™ MYD88 L265P (Y1) Simplex Assay		Ready-to-use	1849
PlentiPlex™ MYD88 L265P (Y1) Simplex Assay		Ready-to-use	1850



CoviDetect™

COVID-19 Multiplex RT-qPCR assay

The CoviDetect™ COVID-19 Multiplex RT-qPCR Assay comprises one internal control of human genomic DNA target and two targets for SARS-CoV-2 (N1 and N2). The dual target design of SARS-CoV-2 minimises the risk of false positive samples. The assay is modified with PentaBase’s INA® technology using HydrolEasy® Probes and SuPrimer™s to ensure high specificity and sensitivity. CoviDetect™ COVID-19 Multiplex RT-qPCR Assay has been used by the Danish hospitals throughout the COVID-19 pandemic.

The instrument time for the PCR analysis is 1 hour and 15 minutes.

CoviDetect™ is validated for the most common PCR instruments including: BaseTyper™ (PentaBase A/S), QuantStudio5 (Applied Biosystems™), CFX (Bio-Rad), and LightCycler® 480 (Roche Diagnostics).

Table 18 - CoviDetect™ product range						
Product Specification				Reactions	Format	Ref. No.
CoviDetect™	COVID-19	Multiplex	RT-qPCR	500 200 96	Dispense Ready	8015
Assay CoviDetect™	COVID-19	Multiplex	RT-		Dispense Ready	8010
qPCR Assay CoviDetect™	COVID-19	Multiplex			Ready-to-use	8079

RT-qPCR Assay

CoviDetect™ FAST

COVID-19 Multiplex RT-qPCR assay

The CoviDetect™ FAST COVID-19 Multiplex RT-qPCR Assay comprises one internal control of human genomic DNA target and three targets for SARS-CoV-2 (IP2, IP4 and E). The triple target design of SARS-CoV-2 minimises the risk of false positive samples. The assay is modified with PentaBase's INA® technology using HydrolEasy® Probes and SuPrimer™s to ensure high specificity and sensitivity. Using the CoviDetect™ FAST COVID-19 Multiplex RT-qPCR Assay can decrease the sample to result time drastically with 35 minutes PCR. The low instrument time results in a faster workflow with a higher capacity without the need of additional machinery. CoviDetect™ FAST is validated for the most common PCR instruments including: BaseTyper™ (PentaBase A/S), QuantStudio5 (Applied Biosystems™), and CFX (Bio-Rad).

Table 19 - CoviDetect™ FAST product range

Product name	Reactions	Format	Ref.No.
CoviDetect™ FAST COVID-19 Multiplex RT-qPCR	500	Dispense Ready	8016
Assay CoviDetect™ FAST COVID-19 Multiplex RT-	200	Dispense Ready	8018
qPCR Assay CoviDetect™ FAST COVID-19 Multiplex	96	Ready-to-use	8022

RT-qPCR Assay

CoviDetect™ Variants

COVID-19 and RT-PCR assay

The CoviDetect™ COVID-19 Variants RT-qPCR Assays detects mutations within the SARS-CoV-2 genome in SARS-CoV-2 positive samples. The assay analyses data using end-point melt analysis to distinguish between the wild-type variant and the mutated SARS-CoV-2. The assay is modified with PentaBase's INA® technology using EasyBeacon™ probes and SuPrimer™s to ensure high specificity and sensitivity. A combination of the assays can be used to determine the variant of SARS-CoV-2 in the sample. PentaBase A/S is able to offer customised testing plans most relevant for your country/area. The customised testing plan will be tailored specifically for you as a customer. CoviDetect™ Variants has been tested on the most common PCR instruments including: BaseTyper™ (PentaBase A/S), QuantStudio5 (Applied Biosystems™), CFX (Bio-Rad), and LightCycler® 480 Roche Diagnostics).

Table 20 - CoviDetect™ Variants (Multiplex) product range					
Multiplex Assays	Product specification	Dispense ready		Ready-to-use	
		Reactions	Ref. No.	Reactions	Ref. No.
	Alfa-beta-gamma (RUO)	200	8114	96	8115
	Beta-gamma-delta (RUO)	200	8116	96	8117
	Delta + (RUO)	200	8118	96	8119
	Del69-70;N439K (RUO)	200	8192	96	8193
	E484K;L452R (RUO)	200	8190	96	8191
	N501Y;P681H (RUO)	200	8077	96	8093

Table 21 - CoviDetect™ Variants (Simplex) product range

Simplex Assays

Product specification	Dispense ready		Ready-to-use	
	Reactions	Ref. No.	Reactions	Ref. No.
A222V (RUO)	200	8125	96	8150
A701V (RUO)	200	8097	96	8100
Del69-70 (RUO)	200	8064	96	8059
Del242-244 (RUO)	200	10014	96	10038
DeLY144 (RUO)	200	10011	96	10035
E484K (RUO)	200	8063	96	8062
E484Q (RUO)	200	8134	96	8142
F476L (RUO)	200	10026	96	10050
F486V (RUO)	200	8218	96	8187
F490S (RUO)	200	10052	96	8211
G339H (RUO)	200	8232	96	8224
G446S (RUO)	200	8225	96	8226
G669S (RUO)	200	8171	96	8174
H78Y (RUO)	200	8239	96	8186
H665Y (RUO)	200	8196	96	8197
K417N (RUO)	200	10001	96	10002
L18F (RUO)	200	10032	96	10008
L452R (RUO)	200	8111	96	8113
N439K (RUO)	200	8072	96	8153
N460K (RUO)	200	8250	96	8251
N501Y (RUO)	200	8054	96	8053
N679K (RUO)	200	8227	96	8228
N764K (RUO)	200	8229	96	8230
Omicron (RUO)	200	11105	96	11109
P681H (RUO)	200	8056	96	8055
P681R (RUO)	200	8156	96	8158
Q677H (RUO)	200	8110	96	8112

Sifrophlek Assays	Product specification	Dispense ready		Ready-to-use	
		Reactions	Ref. No.	Reactions	Ref. No.
	R346K (RUO)	200	8159	96	8162
	R346T (RUO)	200	8246	96	8247
	S477N (RUO)	200	8103	96	8106
	T478K (RUO)	200	8128	96	8120
	T732A (RUO)	200	10017	96	8146
	V483F (RUO)	200	8194	96	8195
	V48F;G49C (RUO)	200	8240	96	8241
	V483A (RUO)	200	8165	96	8168
	V553L (RUO)	200	10029	96	10053
	W152C (RUO)	200	8122	96	8147
	Y453F (RUO)	200	10020	96	10040



CoviFLU™

COVID-19 and Influenza RT-qPCR Assay

CoviFLU™ COVID-19 and Influenza RT-qPCR Assay detects SARS-CoV-2, and four common strains of influenza (B Yamagata, B Victoria, A H1N1, and A H3N2). The SARS-CoV-2 is detected using a dual target strategy for higher specificity. The influenza A H1N1, influenza A H3N2, influenza B Yamagata and influenza B Victoria is detected using a combination of qPCR and end-point melt-analysis. The assay is modified with PentaBase’s INA® technology using HydrolEasy® Probes, EasyBeacon™ probes and SuPrimer™s to ensure high specificity and sensitivity. CoviFlu™ is validated for the most common PCR machines including: BaseTyper™ (PentaBase A/S), QuantStudio5 (Applied Biosystems™), and CFX (Bio-Rad).

Table 22 - CoviFlu™ Variants product range				
Product specification	Dispense ready		Ready-to-use	
	Reactions	Ref. No.	Reactions	Ref. No.
CoviFLU™ COVID-19 and Influenza RT-PCR Assay	200	8177	96	8180



RespiDetect®

COVID-19, Influenza and RSV RT-qPCR Assay

RespiDetect® Respiratory Panel 1 RT-qPCR Assay is a semi-quantitative RT real-time PCR assay, based on PentaBase’s highly sensitive technology, intended for detection of RNA from severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2), Influenza and respiratory syncytial virus (RSV) viruses. RespiDetect® Respiratory Panel 1 RT-qPCR Assay is a robust assay targeting two genes for each virus (SARS-CoV-2, influenza A, influenza B and RSV A/B) .The assay is provided in a multiplex format, which means that one sample from a patient can be analysed in one tube.

Table 23 - RespiDetect®product range				
Product specification	Dispense ready		Ready-to-use	
	Reactions	Ref. No.	Reactions	Ref. No.
RespiDetect® Respiratory Panel 1 RT-qPCR Assay	200	8200	96	8201



InfectionDetect™

Mpox qPCR Assay

InfectionDetect™ Mpox qPCR Assay is a semi-quantitative real-time qPCR assay intended for the detection of nucleic acids from the Monkeypox virus. The assay is provided in a multiplex format analysing two monkeypox viral targets and one human target sampling control in the same qPCR reaction tube and is intended for open platform (Ref. No. 6803 & 6802). Furthermore the assay is available with the possibility of addition of extraction control for evaluation of correctly performed procedure when analysing material from lesion swabs. This assay is made in two versions, one for the LightCycler® 480 (Ref. No. 6807 & 6808) and one for qPCR instruments with a Texas Red compatible channel (Ref. No. 6805 & 6806). The Mpox assay is RUO.

Table 24 - InfectionDetect™ product range				
Product specification	Dispense ready		Ready-to-use	
	Reactions	Ref. No.	Reactions	Ref. No.
Mpox qPCR assay (X1) (RUO)	200	6803	96	6802
With Extraction Control (X3) (RUO)	200	6805	96	6806
LightCycler® 480 compatible (RUO)	200	6807	96	6808

How to order

Further information

For more information regarding our products please visit our website at www.pentabase.com or write to us at **commercial@pentabase.com**

How to order

You can order our products by writing an email to **order@pentabase.com**. Please specify the Ref. No. of the included products in the order. Note: When ordering real-time PCR assays, please state which real-time PCR instrument(s) will be used with the assays.

Technical support

We have technical support on all our assays. If you need any support regarding the assays please contact us, and we will find a solution together.

Contact us by writing an email to our commercial department; **commercial@pentabase.com**



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For further information, visit
www.pentabase.com

Assay Contents and Amino Acid Mutations

SensiScreen®

Each Ready-To-Use tube contains 20 µl in total (7.5 µl oligonucleotide mix and 12.5 µl master mix).

Each Dispense-Ready tube contains oligonucleotide mix for 20 reactions and Master mix in separate tube(s).

BRAF V600 Assays					
Assay #	Gene	Tube #	Content	Mutations	Corresponding reference
B1	BRAF V600 Multiplex	A	BRAF Reference 1	V600E; V600D; V600K; V600R	BRAF Reference 1 BRAF
B2		B	BRAF V600 Multiplex		
	BRAF V600 Simplex	A	BRAF Reference 1	V600D V600E V600K V600R	Reference 1 BRAF Reference 1 BRAF Reference 1 BRAF Reference 1
		B	BRAF V600 Simplex		
		C	BRAF V600 Simplex		
		D	BRAF V600 Simplex		
		E	BRAF V600 Simplex		
B3	BRAF V600E Simplex	A	BRAF Reference 1	V600E	BRAF Reference 1
	B	BRAF V600E Simplex			
EGFR Assays					
Strip #	Gene	Tube #	Content	Mutations	Corresponding reference
E1	EGFR exon 18+19+20+21	A	EGFR Reference 1 (F~) / 4 (L^)	G719A; G719C; G719S 35 deletions. See Page 10. S768I; L861Q T790M 13 insertions. See Page 10-11. 9 insertions. See Page 10-11. L858R	EGFR Reference 1/4 EGFR Reference 1/4 EGFR Reference 1/4 EGFR Reference 1/4 EGFR Reference 1/4 EGFR Reference 1/4 EGFR Reference 1/4
		B	EGFR G719 Multiplex		
		C	EGFR exon 19 Deletions		
		D	EGFR S768I + L861Q Multiplex		
		E	EGFR T790M Simplex		
		F	EGFR exon 20 Insertions 1		
		G	EGFR exon 20 Insertions 2		
		H	EGFR L858R Simplex		
E2	EGFR G719 Multiplex	A	EGFR Reference 1	G719A; G719C; G719S	EGFR Reference 1 EGFR
	B	EGFR G719 Multiplex			
E3	EGFR G719 Simplex	A	EGFR Reference 1	G719A G719C G719S	Reference 1 EGFR Reference 1 EGFR Reference 1
		B	EGFR G719A Simplex		
		C	EGFR G719C Simplex		
		D	EGFR G719S Simplex		
E4	EGFR exon 19 Deletions	A	EGFR Reference 2	35 deletions. See Page 10.	EGFR Reference 2 EGFR
	B	EGFR exon 19 Deletions			
E5	S768I	A	EGFR Reference 3	S768I	Reference 3 EGFR
	B	EGFR S768I Simplex			
E6	EGFR T790M EGFR	A	EGFR Reference 4	T790M	Reference 4 EGFR
		B	EGFR T790M Simplex		
E7	exon 20 Insertions	A	EGFR Reference 5	13 insertions. See Page 10-11. 9 insertions. See Page 10-11.	Reference 5 EGFR Reference 5 EGFR Reference 5
		B	EGFR exon 20 Insertions 1		
		C	EGFR exon 20 Insertions 2		
E8	EGFR L858R EGFR	A	EGFR Reference 6	L858R	EGFR Reference 6 EGFR
		B	EGFR L858R Simplex		
E9	L861Q EGFR exon	A	EGFR Reference 7	L861Q	Reference 7 EGFR
	B	EGFR L861Q Simplex			
E10	19	B	EGFR L861Q Simplex	35 deletions. See Page 10. T790M L858R	Reference 4 EGFR Reference 4 EGFR Reference 4 EGFR Reference 4
	Deletions; T790M; L858R	A	EGFR Reference 4		
		B	EGFR exon 19 Deletions		
		C	EGFR T790M Simplex		
		D	EGFR L858R Simplex		

KIT D816V Assay

Content

Strip #	Gene	Tube #	Content	Mutations	Corresponding reference
I1*	KIT	A B	KIT Reference 1 KIT Simplex 1	D816V	KIT Reference 1

KRAS Assays

Strip #	Gene	Tube #	Content	Mutations	Corresponding reference
K1	KRAS exon 2+3+4 Multiplex	A	KRAS Reference 1		
		B	KRAS exon 2 Multiplex 1	G12R; G12C; G12S; G12V	KRAS Reference 1
		C	KRAS exon 2 Multiplex 2	G12A; G12D; G13D	KRAS Reference 1
		D	KRAS Reference 3		
		E	KRAS exon 3 Multiplex 1	Q61H1; Q61K; Q61L; A59T	KRAS Reference 3
		F	KRAS exon 3 Multiplex 2	Q61H2; Q61E; Q61R; A59G	KRAS Reference 3
		G	KRAS exon 4 Multiplex 1	K117N; K117N2	KRAS Reference 3
		H	KRAS exon 4 Multiplex 2	A146P; A146T; A146V	KRAS Reference 3
K2	KRAS exon 2 Multiplex	A	KRAS Reference 1	G12R; G12C; G12S; G12V	KRAS Reference 1
		B	KRAS exon 2 Multiplex 1	G12A; G12D; G13D	KRAS Reference 1
		C	KRAS exon 2 Multiplex 2	Q61H1; Q61K; Q61L; A59T	KRAS Reference 2
K3	KRAS exon 3 Multiplex KRAS exon 4	A	KRAS Reference 2		
		B	KRAS exon 3 Multiplex 1	Q61H2; Q61E; Q61R; A59G	KRAS Reference 2
		C	KRAS exon 3 Multiplex 2	K117N; K117N2	KRAS Reference 3
K4	Multiplex KRAS exon 2 Simplex 1	A	KRAS Reference 3	A146P; A146T; A146V	KRAS Reference 3
		B	KRAS exon 4 Multiplex 1	G12R	KRAS Reference 1
		C	KRAS exon 4 Multiplex 2	G12C	KRAS Reference 1
K5		A	KRAS Reference 1 KRAS exon	G12S	KRAS Reference 1
		B	2 G12R Simplex KRAS exon 2	G12V	KRAS Reference 1
		C	G12C Simplex KRAS exon 2	G12A	KRAS Reference 1
		D	G12S Simplex KRAS exon 2	G12D	KRAS Reference 1
		E	G12V Simplex	G13D	KRAS Reference 1
K6	KRAS exon 2 Simplex 2	A	KRAS Reference 1		
		B	KRAS exon 2 G12A Simplex	Q61H1	KRAS Reference 2
		C	KRAS exon 2 G12D Simplex	Q61K	KRAS Reference 2
		D	KRAS exon 2 G13D Simplex	Q61L	KRAS Reference 2
K7	KRAS exon 3 Simplex 1	A	KRAS Reference 2	A59T	KRAS Reference 2
		B	KRAS exon 3 Q61H1 Simplex	Q61H2	KRAS Reference 2
		C	KRAS exon 3 Q61K Simplex	Q61E	KRAS Reference 2
		D	KRAS exon 3 Q61L Simplex	Q61R	KRAS Reference 2
		E	KRAS exon 3 A59T Simplex	A59G	KRAS Reference 2
K8	KRAS exon 3 Simplex 2	A	KRAS Reference 2		
		B	KRAS exon 3 Q61H2 Simplex	K117N1	KRAS Reference 3
		C	KRAS exon 3 Q61E Simplex	K117N2	KRAS Reference 3
		D	KRAS exon 3 Q61R Simplex	A146P	KRAS Reference 4
		E	KRAS exon 3 A59G Simplex	A146T	KRAS Reference 4
K9	KRAS exon 4 Simplex 1	A	KRAS Reference 3	A146V	KRAS Reference 4
		B	KRAS exon 4 K117N1 Simplex		
		C	KRAS exon 4 K117N2 Simplex	G12C	KRAS Reference 1
K10	KRAS exon 4 Simplex 2	A	KRAS Reference 4		
		B	KRAS exon 4 A146P Simplex		
		C	KRAS exon 4 A146T Simplex		
		D	KRAS exon 4 A146V Simplex		
K11	KRAS G12C Simplex	A	KRAS Reference 1 KRAS exon		
		B	2 G12C Simplex		

NRAS Assays

Strip #	Gene	Tube #	Content	Mutations	Corresponding reference
N1	NRAS exon 2+3+4 Multiplex	A	NRAS Reference 1		
		B	NRAS exon 2 Multiplex 1	G12A; G12C; G12D; G12R; G12S; G12V	NRAS Reference 1
		C	NRAS exon 2 Multiplex 2	G13A; G13C; G13D; G13R; G13S; G13V	NRAS Reference 1
		D	NRAS Reference 2		
		E	NRAS exon 3 Multiplex 1	Q61H1; Q61H2; Q61K; Q61L; Q61R	NRAS Reference 2
		F	NRAS exon 3 Multiplex 2	A59D; A59T	NRAS Reference 2
		G	NRAS exon 4 Multiplex 1	K117N1; K117N2	NRAS Reference 2
		H	NRAS exon 4 Multiplex 2	A146P; A146T; A146V	NRAS Reference 2
N2	NRAS exon 2 Multiplex	A	NRAS Reference 1	G12A; G12C; G12D; G12R; G12S; G12V	NRAS Reference 1
		B	NRAS exon 2 Multiplex 1	G13A; G13C; G13D; G13R; G13S; G13V	NRAS Reference 1
		C	NRAS exon 2 Multiplex 2	Q61H1; Q61H2; Q61K; Q61L; Q61R	NRAS Reference 2
N3	NRAS exon 3 Multiplex	A	NRAS Reference 2		
		B	NRAS exon 3 Multiplex 1	A59D; A59T	NRAS Reference 2
		C	NRAS exon 3 Multiplex 2		

N4	NRAS exon 4 Multiplex	A B C	NRAS Reference 3 NRAS exon 4 Multiplex 1 NRAS exon 4 Multiplex 2	K117N1; K117N2 A146P; A146T; A146V	NRAS Reference 3 NRAS Reference 3
N5	NRAS exon 2 Simplex 1	A B C D E F G	NRAS Reference 1 NRAS exon 2 G12A Simplex NRAS exon 2 G12C Simplex NRAS exon 2 G12D Simplex NRAS exon 2 G12R Simplex NRAS exon 2 G12S Simplex NRAS exon 2 G12V Simplex	G12A G12C G12D G12R G12S G12V	NRAS Reference 1 NRAS Reference 1 NRAS Reference 1 NRAS Reference 1 NRAS Reference 1 NRAS Reference 1
N6	NRAS exon 2 Simplex 2	A B C D E F G	NRAS Reference 4 NRAS exon 2 G13A Simplex NRAS exon 2 G13C Simplex NRAS exon 2 G13D Simplex NRAS exon 2 G13R Simplex NRAS exon 2 G13S Simplex NRAS exon 2 G13V Simplex	G13A G13C G13D G13R G13S G13V Q61H1	NRAS Reference 4 NRAS Reference 4 NRAS Reference 4 NRAS Reference 4 NRAS Reference 4 NRAS Reference 4 NRAS Reference 2
N7	NRAS exon 3 Simplex 1	A B C D E F A	NRAS Reference 2 NRAS exon 3 Q61H1 Simplex NRAS exon 3 Q61H2 Simplex NRAS exon 3 Q61K Simplex NRAS exon 3 Q61L Simplex NRAS exon 3 Q61R Simplex	Q61H2 Q61K Q61L Q61R A59D A59T	NRAS Reference 2 NRAS Reference 2 NRAS Reference 2 NRAS Reference 2 NRAS Reference 2 NRAS Reference 2
N8	NRAS exon 3 Simplex 2	B C A	NRAS exon 3 A59D Simplex NRAS exon 3 A59T Simplex	K117N1 K117N2	NRAS Reference 3 NRAS Reference 3
N9	NRAS exon 4 Simplex 1	B C	NRAS exon 4 K117N1 Simplex NRAS exon 4 K117N2 Simplex	A146P A146T A146V	NRAS Reference 5 NRAS Reference 5 NRAS Reference 5
N10	NRAS exon 4 Simplex 2	A B C D	NRAS Reference 5 NRAS exon 4 A146P Simplex NRAS exon 4 A146T Simplex NRAS exon 4 A146V Simplex		

PIK3CA Assays

Strip #	Gene	Tube #	Content	Mutations	Corresponding reference
^P4	PIK3CA E542K	A B	PIK3CA Reference 1 PIK3CA E542K Simplex	E542K	PIK3CA Reference 1
^P5	PIK3CA E545K	A B	PIK3CA Reference 1 PIK3CA E545K Simplex	E545K	PIK3CA Reference 1
^P6	PIK3CA H1047L	A B	PIK3CA Reference 3 PIK3CA H1047L Simplex	H1047L	PIK3CA Reference 3
^P7	PIK3CA H1047R	A B	PIK3CA Reference 3 PIK3CA H1047R Simplex	H1047R	PIK3CA Reference 3

^Liquid version

PlentiPlex™

Each Ready-To-Use tube contains 20 µl in total (7.5 µl oligonucleotide mix and 12.5 µl master mix).

Each Dispense-Ready tube contains oligonucleotide mix for 20 reactions and Master mix in separate tube(s).

IDH1 Assays					
Strip #	Gene	Tube #	Content	Mutation	Corresponding reference
D1	IDH1	A	R132 Reference 1	R132C, R132G, R132H, R132L, R132S	Reference 1
		B	R132 Multiplex		
D2	IDH1	A	R132 Reference 1		
		B	R132C Simplex	R132C	Reference 1
		C	R132G Simplex	R132G	Reference 1
		D	R132H Simplex	R132H	Reference 1
		E	R132L Simplex	R132L	Reference 1
		F	R132S Simplex	R132S	Reference 1

Mastocytosis KIT D816V Assay					
Strip #	Gene	Tube #	Content	Mutation	Corresponding reference
IM3	KIT	A	KIT Reference 1	D816V D816V D816V	KIT Reference 1
		B	KIT Simplex 1		KIT Reference 1
		C	KIT simplex 1		KIT Reference 1
		D	KIT simplex 1		KIT Reference 1

MYD88 L265P Assay					
Strip #	Gene	Tube #	Content	Mutations	Corresponding reference
Y1	MYD88	A	MYD88 Reference 1	L265P	MYD88 Reference 1
		B	MYD88 Simplex 1		

MicroSight® MSI

MicroSight® MSI					
Strip #	Tube #	Content	Template to be added Unpaired		
			Universal reference/Tumor DNA	Paired	Normal
H3	A	BAT25	Universal reference/Tumor DNA	DNA/Tumor DNA	Normal
	B	BAT26	Universal reference/Tumor DNA	DNA/Tumor DNA	Normal
	C	NR22	Universal reference/Tumor DNA	DNA/Tumor DNA	
	D	NR24	Universal reference/Tumor DNA	Normal DNA/Tumor DNA	
	E	MONO27		Normal DNA/Tumor DNA	

Overview of Mutations Detected

SensiScreen®

Assay	CDS mutation	Amino acid mutation	Cosmic ID
BRAF V600	c.1799_1800TG>AT	Val600Asp (V600D)	COSM477
	c.1799T>A	Val600Glu (V600E)	COSM476
	c.1799_1800TG>AA*	Val600Glu (V600E2)*	COSM475
	c.1798_1799GT>AA	Val600Lys (V600K)	COSM473
	c.1798_1799GT>AG	Val600Arg (V600R)	COSM474

*Only detected by the BRAF V600 Multiplex (E1) assay

EGFR mutations detected by SensiScreen®

Assay	CDS mutation c.2156G>C	Amino acid substitution	Cosmic ID
EGFR exon 18	c.2155G>A	Gly719Ala	COSM6239
	c.2155G>T	Gly719Ser	COSM6252
	c.2240_2251del12	Gly719Cys	COSM6253
EGFR exon 19	c.2239_2247del9	p.L747_T751>S	COSM6210
	c.2238_2255del18	p.L747_E749delLRE	COSM6218
	c.2235_2249del15	p.E746_S752>D	COSM6220
	c.2236_2250del15	p.E746_A750delELREA	COSM6223
	c.2235_2246del12	p.E746_A750delELREA	COSM6225
	c.2239_2256del18	p.E746_E749delELRE	COSM28517
	c.2237_2254del18	p.L747_S752delLREATS	COSM6255
	c.2240_2254del15	p.E746_S752>A	COSM12367
	c.2240_2257del18	p.L747_T751delLREAT	COSM12369
	c.2239_2248>C (complex)	p.L747_P753>S	COSM12370
	c.2239_2251>C (complex)	p.L747_A750>P	COSM12382
	c.2237_2255>T (complex)	p.L747_T751>P	COSM12383
	c.2235_2255>AAT (complex)	p.E746_S752>V	COSM12384
	c.2237_2252>T (complex)	p.E746_S752>I	COSM12385
	c.2239_2258>CA (complex)	p.E746_T751>V	COSM12386
	c.2239_2256>CAA (complex)	p.L747_P753>Q	COSM12387
	c.2237_2253>TTGCT (complex)	p.L747_S752>Q	COSM12403
	c.2238_2252>GCA (complex)	p.E746_T751>VA	COSM12416
	c.2238_2248>GC (complex)	p.L747_T751>Q	COSM12419
	c.2237_2251del15	p.L747_A750>P	COSM12422
	c.2236_2253del18	p.E746_T751>A	COSM12678
	c.2235_2248>AATTC (complex)	p.E746_T751delELREAT	COSM12728
	c.2235_2252>AAT (complex)	p.E746_A750>IP	COSM13550
	c.2235_2251>AATTC (complex)	p.E746_T751>I	COSM13551
	c.2237_2257>TCT (complex)	p.E746_T751>IP	COSM13552
		p.E746_P753>VS	COSM18427

EGFR exon 20	c.2237_2251del15 c.2233_2247del15	p.L747_T751delLREAT	COSM23571
	c.2234_2248del15	p.K745_E749delKELRE	COSM26038
	c.2236_2248>CAAC (complex)	p.K745_A750>T	COSM1190791
	c.2232_2249del18	p.E746_A750>QP	COSM13557
	c.2237_2253>TA (complex)	p.K745_A750delKELREA	COSM221565
	c.2239_2257>T (complex)	p.E746_T751>V	COSM133192
	c.2239_2253>AAT (complex)	p.L747_P753>S	COSM133197
	c.2236_2259>ATCTCG (complex)	p.L747_T751>N	COSM51503
	c.2369C>T	p.E746_P753>IS	COSM133191
	c.2303G>T	p.Thr790Met (T790M)	COSM6240
	c.2300_2301insCAGCGTGGA Multiplex 1	p.Ser768Ile	COSM6241
	c.2302_2303insGGGTGGGCA Multiplex 1	p.D770_N771insSVD	COSM3728433
	c.2307_2308ins15 Multiplex 1	p.A767_S768insTLA	COSM12425
	c.2307_2308insGCCAGCGTG Multiplex 1	p.V769_D770insMASVD	COSM28638
	c.2308_2309insCCAGCGTGG Multiplex 1	p.V769_D770insASV	COSM12376
	c.2308_2309insGGGTCGTGG Multiplex 1	p.V769_D770insASV	COSM12426
	c.2308_2309insGTT Multiplex 1	p.V769_D770insGVV	COSM18430
	c.2309_2310AC>CCAGCGTGGAT Multiplex 1	p.D770>GY	COSM12427
	c.2310_2311insAGCGTGGAC Multiplex 1	p.V769_D770insASV	COSM13558
	c.2310_2311insGGCACA Multiplex 1	p.D770_N771insSVD	COSM85749
	c.2310_2311insGGGTTT Multiplex 1	p.D770_N771insGT	COSM1238029
EGFR exon 21	c.2310_2311insGGT Multiplex 1	p.D770_N771insGF	COSM655155
	c.2310_2311insAACCCCCAC Multiplex 1+2	p.D770_N771insG	COSM12378
	c.2310_2311ins9GCGTGGACA Multiplex 2	p.H773_V774insNPH	COSM48920
	c.2316_2317insNNN Multiplex 2	p.D770_N771insSVD	COSM13428
	c.2319_2320insAACCCCCAC Multiplex 1+2	p.P772_H773insX	COSM21597
	c.2319_2320insCAC Multiplex 2	p.H773_V774insNPH	COSM12381
	c.2319_2320insCCCCAC Multiplex 2	p.H773_V774insH	COSM12377
	c.2320_2321insCCCACG Multiplex 2	p.H773_V774insPH	COSM12380
	c.2321_2322insCCACGT Multiplex 2	p.H773_V774insAH	COSM1238028
	c.2322_2323insCACGTG Multiplex 2	p.V774_C775insHV	COSM18432
	c.2573T>G	p.V774_C775insHV	COSM22948
	c.2573_2574TG>GT		
	c.2582T>A		
		Leu858Arg	COSM6224
		Leu858Arg	COSM12429
		Leu861Gln	COSM6213

KIT mutations detected by SensiScreen®

Assay	CDS mutation	Amino acid substitution	Cosmic ID
KIT D816V	c.2447A>T	Asp816Val (D816V)	COSM314

KRAS mutations detected by SensiScreen®

Assay	CDS mutation	Amino acid mutation	Cosmic ID
KRAS exon 2	c.35G>C	Gly12Ala (G12A)	COSM522
	c.35G>A	Gly12Asp (G12D)	COSM521
	c.34G>C	Gly12Arg (G12R)	COSM518
	c.34G>T	Gly12Cys (G12C)	COSM516
	c.34G>A	Gly12Ser (G12S)	COSM517
	c.35G>T	Gly12Val (G12V)	COSM520
	c.38G>A	Gly13Asp (G13D)	COSM532
	c.34_35GG>TT	Gly12Phe (G12F)	COSM512
	c.34_35GG>AT	Gly12Ile (G12I)	COSM34144
	c.176C>G	Ala59Gly (A59G)	COSM28518
KRAS exon 3	c.175G>A	Ala59Thr (A59T)	COSM546
	c.183A>C	Gln61His (Q61H1)	COSM554
	c.183A>T	Gln61His (Q61H2)	COSM555
	c.181C>G	Gln61Glu (Q61E)	COSM550
	c.181C>A	Gln61Lys (Q61K)	COSM549
	c.182A>T	Gln61Leu (Q61L)	COSM553
	c.182A>G	Gln61Arg (Q61R)	COSM552
	c.351A>C	Lys117Asn (K117N1)	COSM19940
	c.351A>T	Lys117Asn (K117N2)	COSM28519
	c.436G>C	Ala146Pro (A146P)	COSM19905
KRAS exon 4	c.436G>A	Ala146Thr (A146T)	COSM19404
	c.437C>T	Ala146Val (A146V)	COSM19900

NRAS mutations detected by SensiScreen®

Assay	CDS mutation	Amino acid mutation	Cosmic ID
NRAS exon 2	c.35G>C	Gly12Ala (G12A)	COSM565
	c.34G>T	Gly12Cys (G12C)	COSM562
	c.35G>A	Gly12Asp (G12D)	COSM564
	c.34G>C	Gly12Arg (G12R)	COSM561
	c.34G>A	Gly12Ser (G12S)	COSM563
	c.35G>T	Gly12Val (G12V)	COSM566
	c.38G>C	Gly13Ala (G13A)	COSM575
	c.37G>T	Gly13Cys (G13C)	COSM570
	c.38G>A	Gly13Asp (G13D)	COSM573
	c.37G>C	Gly13Arg (G13R)	COSM569
	c.37G>A	Gly13Ser (G13S)	COSM571
	c.38G>T	Gly13Val (G13V)	COSM574
	c.183A>T	Gln61His (Q61H1)	COSM585
NRAS exon 3	c.183A>C	Gln61His (Q61H2)	COSM586
	c.181C>A	Gln61Lys (Q61K)	COSM580
	c.182A>T	Gln61Leu (Q61L)	COSM583
	c.182A>G	Gln61Arg (Q61R)	COSM584
	c.176C>A	Ala59Asp (A59D)	COSM253327
	c.175G>A	Ala59Thr (A59T)	COSM578
	c.351G>C	Lys117Asn (K117N1)	N/A
	c.351G>T	Lys117Asn (K117N2)	N/A
NRAS exon 4			

	c.436G>C	Ala146Pro (A146P)	(COSM4172577)
	c.436G>A	Ala146Thr (A146T)	COSM27174
	c.437C>T	Ala146Val (A146V)	COSM4170228

PIK3CA mutations detected by SensiScreen®			
Assay PIK3CA	CDS mutation	Amino acid substitution	Cosmic ID
Exon 7	c.1258T>C	p.C420R	COSM757
PIK3CA Exon 9	c.1035T>A	p.N345K	COSM754
	c.1624G>A	p.E542K	COSM760
	c.1634A>C	p.E545A	COSM12458
	c.1635G>C	p.E545D	COSM27374
	c.1634A>G	p.E545G	COSM764
	c.1633G>A	p.E545K	COSM763
	c.1636C>G	p.Q546E	COSM6147
	c.1636C>A	p.Q546K	COSM766
	c.1637A>G	p.Q546R	COSM12459
	c.3140A>T	p.H1047L	COSM776
PIK3CA Exon 20	c.3140A>G	p.H1047R	COSM775
	c.3139C>T	p.H1047Y	COSM774

PlentiPlex™

IDH1 mutations detected by PlentiPlex™ IDH1

Assay	CDS mutation	Amino acid substitution	Cosmic ID
R132	c.394C>T	p.R132C p.R132H	COSM28747
	c.395G>A	p.R132G p.R132L	COSM28746
	c.394C>G	p.R132S	COSM28749
	c.395G>T		COSM28750
	c.394C>A		COSM28748

KIT mutations detected by PlentiPlex™ Mastocytosis

Assay	CDS mutation	Amino acid substitution	Cosmic ID
KIT D816V	c.2447A>T	Asp816Val (D816V)	COSM314

MYD88 mutation detected with PlentiPlex™ MYD88 L265P

Assay	CDS mutation	Amino acid substitution	Cosmic ID
MYD88 L265P	c.794T>C	p.Leu265Pro	COSM85940

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Inventors of INA - Experts in real-time PCR[®]

PentaBase is a Danish science-driven company established in 2007 by CEO Ulf Bech Christensen. Our products and services are based on unique DNA technologies providing innovative and superior PCR workflows. Our mission is to provide PCR-based assays that enable personalised treatment using sensitive, specific and robust monitoring of genetic biomarkers. Our approach is to continuously innovate and improve our products and services to provide novel or improved PCR-based solutions for the benefit of patients. We see every patient as a unique individual who deserves to be treated individually. It is pretty simple: We wish to participate in creating a healthier society through personalised detection, prevention, and treatment of diseases, based on precise and timely genetic diagnostics. We strive to use our expertise in PCR to offer our customers the best service possible and we aim to combine fast delivery of superior quality products with optimal support before, during, and after the purchase.



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