

衛生福利部食品藥物管理署

精準醫療分子檢測實驗室認證資料

機構名稱：基龍米克斯生物科技股份有限公司(地址：新北市汐止區新台五路1段100號14樓)

機構負責人：周孟賢

實驗室名稱：基龍米克斯實驗室(地址：新北市汐止區新台五路1段92號4樓)

實驗室負責人：陳素蓮 (實驗室品質主管：張怡安)

認證編號：LDT0033

認證有效期間：114年3月13日至117年3月12日止

認證範圍：

項次	檢測名稱	分析標的	檢測技術	檢測項目
1	安可癒癌症基因檢測	1. 檢體型態：FFPE 2. 基因數：13(附表1)	次世代定序	抗腫瘤藥物之伴隨檢測/癌症篩檢、診斷、治療及預後之基因檢測
2	安護妳癌症基因檢測	1. 檢體型態：全血 2. 基因數：2(附表2)	次世代定序	抗腫瘤藥物之伴隨檢測/癌症篩檢、診斷、治療及預後之基因檢測
3	FMR1 基因檢測	1. 檢體型態：全血 2. 基因數：1(附表3)	基因擴增	產前及新生兒染色體與基因變異檢測
4	SMN 基因檢測	1. 檢體型態：全血 2. 基因數：2(附表4)	即時偵測基因擴增	產前及新生兒染色體與基因變異檢測
5	MPN 基因檢測	1. 檢體型態：全血 2. 基因數：3(附表5)	桑格氏定序	癌症篩檢、診斷、治療及預後之基因檢測
6	UGT1A1 基因檢測	1. 檢體型態：全血 2. 基因數：1(附表6)	桑格氏定序	藥物不良反應或藥物代謝之基因檢測
7	癌精準 523 癌症基因檢測	1. 檢體型態：全血 2. 基因數：523(附表7)	次世代定序	抗腫瘤藥物之伴隨檢測/癌症篩檢、診斷、治療及預後之基因檢測
8	癌必立 523 癌症基因檢測	1. 檢體型態：FFPE 2. 基因數：523(附表8)	次世代定序	抗腫瘤藥物之伴隨檢測/癌症篩檢、診斷、治療及預後之基因檢測
9	全知域全外顯子檢測	1. 檢體型態：全血 2. 基因數：629(附表9)	次世代定序	遺傳代謝與罕見疾病之基因檢測
10	全能域全基因體檢測	1. 檢體型態：全血 2. 基因數：629(附表10)	次世代定序	遺傳代謝與罕見疾病之基因檢測

FDA 品第 1141107993 號附件

精準醫療分子檢測實驗室認證(認證編號：LDT0033)

附表1. 安可癩癌症基因檢測 (13)

ALK	BRAF	EGFR	ERBB2	ESR1	GNAS	KIT	KRAS	MET	NRAS
PDGFRA	PIK3CA	ROS1							
關鍵儀器設備： Automatic extraction system (P1122005L、P1122018L)、 Thermal Cycler (299024441、299025061、299025770、299025058、299025753、299023647、 299025747、299020959)、Fragment Analyzer (MY2026AA55、MY2217AA99、6257001968960000) 、NGS System (LH00241)、Fluorometer (2332621030013、1104004942)、Spectrophotometer (8167)									

附表2. 安護妳癌症基因檢測 (2)

BRCA1	BRCA2
關鍵儀器設備： Automatic extraction system (P1122005L、P1122018L)、 Thermal Cycler (299024441、299025061、299025770、299025058、299025753、299023647、 299025747、299020959)、Fragment Analyzer (MY2026AA55、MY2217AA99、6257001968960000) NGS System (LH00241)、Fluorometer (2332621030013、1104004942)、Spectrophotometer (8167)	

附表3. FMR1基因檢測 (1)

FMR1
關鍵儀器設備： Automatic extraction system (P1122005L、P1122018L)、Thermal Cycler (299025070、299025707) 、DNA analyzer (19138-005、18129-007)、Spectrophotometer (BRED-2406019)

附表4. SMN基因檢測 (2)

SMN1	SMN2
關鍵儀器設備： Automatic extraction system (P1122005L、P1122018L)、Real-time PCR system (278880165、 2778724020023)、Spectrophotometer (BRED-2406019)	

附表5. MPN基因檢測 (3)

JAK2	CALR	MPL
關鍵儀器設備： Automatic extraction system (P1122005L、P1122018L)、Thermal Cycler (299025070、299025707) 、DNA analyzer (19138-005、18129-007)、Spectrophotometer (BRED-2406019)		

附表6. UGT1A1基因檢測 (1)

UGT1A1
關鍵儀器設備： Automatic extraction system (P1122005L、P1122018L)、Thermal Cycler (299025070、299025707) 、DNA analyzer (19138-005、18129-007)、Spectrophotometer (BRED-2406019)

精準醫療分子檢測實驗室認證(認證編號：LDT0033)

附表7. 癌精準523癌症基因檢測 (523)

ABL1	ABL2	ACVR1	ACVR1B	AKT1	AKT2	AKT3	ALK	ALOX12B	ANKRD11
ANKRD26	APC	AR	ARAF	ARFRP1	ARID1A	ARID1B	ARID2	ARID5B	ASXL1
ASXL2	ATM	ATR	ATRAX	AURKA	AURKB	AXIN1	AXIN2	AXL	B2M
BAP1	BARD1	BBC3	BCL10	BCL2	BCL2L1	BCL2L11	BCL2L2	BCL6	BCOR
BCORL1	BCR	BIRC3	BLM	BMPR1A	BRAF	BRCA1	BRCA2	BRD4	BRIP1
BTG1	BTK	C11orf30	CALR	CARD11	CASP8	CBFB	CBL	CCND1	CCND2
CCND3	CCNE1	CD274	CD276	CD74	CD79A	CD79B	CDC73	CDH1	CDK12
CDK4	CDK6	CDK8	CDKN1A	CDKN1B	CDKN2A	CDKN2B	CDKN2C	CEBPA	CENPA
CHD2	CHD4	CHEK1	CHEK2	CIC	CREBBP	CRKL	CRLF2	CSF1R	CSF3R
CSNK1A1	CTCF	CTLA4	CTNNA1	CTNNA1	CUL3	CUX1	CXCR4	CYLD	DAXX
DCUN1D1	DDR2	DDX41	DHX15	DICER1	DIS3	DNAJB1	DNMT1	DNMT3A	DNMT3B
DOT1L	E2F3	EED	EGFL7	EGFR	EIF1AX	EIF4A2	EIF4E	EML4	EP300
EPCAM	EPHA3	EPHA5	EPHA7	EPHB1	ERBB2	ERBB3	ERBB4	ERCC1	ERCC2
ERCC3	ERCC4	ERCC5	ERG	ERRF1	ESR1	ETS1	ETV1	ETV4	ETV5
ETV6	EWSR1	EZH2	FAM123B	FAM175A	FAM46C	FANCA	FANCC	FANCD2	FANCE
FANCF	FANCG	FANCI	FANCL	FAS	FAT1	FBXW7	FGF1	FGF10	FGF14
FGF19	FGF2	FGF23	FGF3	FGF4	FGF5	FGF6	FGF7	FGF8	FGF9
FGFR1	FGFR2	FGFR3	FGFR4	FH	FLCN	FLI1	FLT1	FLT3	FLT4
FOXA1	FOXL2	FOXO1	FOXP1	FRS2	FUBP1	FYN	GABRA6	GATA1	GATA2
GATA3	GATA4	GATA6	GEN1	GID4	GLI1	GNA11	GNA13	GNAQ	GNAS
GPR124	GPS2	GREM1	GRIN2A	GRM3	GSK3B	H3F3A	H3F3B	H3F3C	HGF
HIST1H1C	HIST1H2BD	HIST1H3A	HIST1H3B	HIST1H3C	HIST1H3D	HIST1H3E	HIST1H3F	HIST1H3G	HIST1H3H
HIST1H3I	HIST1H3J	HIST2H3A	HIST2H3C	HIST2H3D	HIST3H3	HLA-A	HLA-B	HLA-C	HNF1A
HNRNP	HOXB13	HRAS	HSD3B1	HSP90AA1	ICOSLG	ID3	IDH1	IDH2	IFNGR1
IGF1	IGF1R	IGF2	IKBKE	IKZF1	IL10	IL7R	INHA	INHBA	INPP4A
INPP4B	INSR	IRF2	IRF4	IRS1	IRS2	JAK1	JAK2	JAK3	JUN
KAT6A	KDM5A	KDM5C	KDM6A	KDR	KEAP1	KEL	KIF5B	KIT	KLF4
KLHL6	KMT2B	KMT2C	KMT2D	KRAS	LAMP1	LATS1	LATS2	LMO1	LRP1B
LYN	LZTR1	MAGI2	MALT1	MAP2K1	MAP2K2	MAP2K4	MAP3K1	MAP3K13	MAP3K14
MAP3K4	MAPK1	MAPK3	MAX	MCL1	MDC1	MDM2	MDM4	MED12	MEF2B
MEN1	MET	MGA	MITF	MLH1	MLL	MLLT3	MPL	MRE11A	MSH2
MSH3	MSH6	MST1	MST1R	MTOR	MUTYH	MYB	MYC	MYCL1	MYCN
MYD88	MYOD1	NAB2	NBN	NCOA3	NCOR1	NEGR1	NF1	NF2	NFE2L2
NFKBIA	NKX2-1	NKX3-1	NOTCH1	NOTCH2	NOTCH3	NOTCH4	NPM1	NRAS	NRG1
NSD1	NTRK1	NTRK2	NTRK3	NUP93	NUTM1	PAK1	PAK3	PAK7	PALB2
PARK2	PARP1	PAX3	PAX5	PAX7	PAX8	PBRM1	PDCD1	PDCD1LG2	PDGFRA
PDGFRB	PDK1	PDPK1	PGR	PHF6	PHOX2B	PIK3C2B	PIK3C2G	PIK3C3	PIK3CA
PIK3CB	PIK3CD	PIK3CG	PIK3R1	PIK3R2	PIK3R3	PIM1	PLCG2	PLK2	PMAIP1
PMS1	PMS2	PNRC1	POLD1	POLE	PPARG	PPM1D	PPP2R1A	PPP2R2A	PPP6C
PRDM1	PREX2	PRKAR1A	PRKCI	PRKDC	PRSS8	PTCH1	PTEN	PTPN11	PTPRD
PTPRS	PTPRT	QKI	RAB35	RAC1	RAD21	RAD50	RAD51	RAD51B	RAD51C
RAD51D	RAD52	RAD54L	RAF1	RANBP2	RARA	RASA1	RB1	RBM10	RECQL4
REL	RET	RFWD2	RHEB	RHOA	RICTOR	RIT1	RNF43	ROS1	RPS6KA4
RPS6KB1	RPS6KB2	RPTOR	RUNX1	RUNX1T1	RYBP	SDHA	SDHAF2	SDHB	SDHC
SDHD	SETBP1	SETD2	SF3B1	SH2B3	SH2D1A	SHQ1	SLIT2	SLX4	SMAD2
SMAD3	SMAD4	SMARCA4	SMARCB1	SMARCD1	SMC1A	SMC3	SMO	SNCAIP	SOCS1
SOX10	SOX17	SOX2	SOX9	SPEN	SPOP	SPTA1	SRC	SRSF2	STAG1
STAG2	STAT3	STAT4	STAT5A	STAT5B	STK11	STK40	SUFU	SUZ12	SYK
TAF1	TBX3	TCEB1	TCF3	TCF7L2	TERC	TERT	TET1	TET2	TFE3
TFRC	TGFBR1	TGFBR2	TMEM127	TMPRSS2	TNFAIP3	TNFRSF14	TOP1	TOP2A	TP53
TP63	TRAF2	TRAF7	TSC1	TSC2	TSHR	U2AF1	VEGFA	VHL	VTCN1
WISP3	WT1	XIAP	XPO1	XRCC2	YAP1	YES1	ZBTB2	ZBTB7A	ZFH3
ZNF217	ZNF703	ZRSR2							

關鍵儀器設備：

Automatic extraction system (P1122005L、P1122018L)、
 Thermal Cycler (299024441、299025061、299025770、299025058、299025753、299023647、
 299025747、299020959)、Fragment Analyzer (MY2026AA55、MY2217AA99、6257001968960000)、
 NGS System (LH00241、A00355)、Fluorometer (2332621030013、1104004942)、Spectrophotometer (8167)

精準醫療分子檢測實驗室認證(認證編號：LDT0033)

附表8. 癌必立523癌症基因檢測 (523)

ABL1	ABL2	ACVR1	ACVR1B	AKT1	AKT2	AKT3	ALK	ALOX12B	ANKRD11
ANKRD26	APC	AR	ARAF	ARFRP1	ARID1A	ARID1B	ARID2	ARID5B	ASXL1
ASXL2	ATM	ATR	ATRAX	AURKA	AURKB	AXIN1	AXIN2	AXL	B2M
BAP1	BARD1	BBC3	BCL10	BCL2	BCL2L1	BCL2L11	BCL2L2	BCL6	BCOR
BCORL1	BCR	BIRC3	BLM	BMPR1A	BRAF	BRCA1	BRCA2	BRD4	BRIP1
BTG1	BTK	C11orf30	CALR	CARD11	CASP8	CBFB	CBL	CCND1	CCND2
CCND3	CCNE1	CD274	CD276	CD74	CD79A	CD79B	CDC73	CDH1	CDK12
CDK4	CDK6	CDK8	CDKN1A	CDKN1B	CDKN2A	CDKN2B	CDKN2C	CEBPA	CENPA
CHD2	CHD4	CHEK1	CHEK2	CIC	CREBBP	CRKL	CRLF2	CSF1R	CSF3R
CSNK1A1	CTCF	CTLA4	CTNNA1	CTNNA1	CUL3	CUX1	CXCR4	CYLD	DAXX
DCUN1D1	DDR2	DDX41	DHX15	DICER1	DIS3	DNAJB1	DNMT1	DNMT3A	DNMT3B
DOT1L	E2F3	EED	EGFL7	EGFR	EIF1AX	EIF4A2	EIF4E	EML4	EP300
EPCAM	EPHA3	EPHA5	EPHA7	EPHB1	ERBB2	ERBB3	ERBB4	ERCC1	ERCC2
ERCC3	ERCC4	ERCC5	ERG	ERRFI1	ESR1	ETS1	ETV1	ETV4	ETV5
ETV6	EWSR1	EZH2	FAM123B	FAM175A	FAM46C	FANCA	FANCC	FANCD2	FANCE
FANCF	FANCG	FANCI	FANCL	FAS	FAT1	FBXW7	FGF1	FGF10	FGF14
FGF19	FGF2	FGF23	FGF3	FGF4	FGF5	FGF6	FGF7	FGF8	FGF9
FGFR1	FGFR2	FGFR3	FGFR4	FH	FLCN	FLI1	FLT1	FLT3	FLT4
FOXA1	FOXL2	FOXO1	FOXP1	FRS2	FUBP1	FYN	GABRA6	GATA1	GATA2
GATA3	GATA4	GATA6	GEN1	GID4	GLI1	GNA11	GNA13	GNAQ	GNAS
GPR124	GPS2	GREM1	GRIN2A	GRM3	GSK3B	H3F3A	H3F3B	H3F3C	HGF
HIST1H1C	HIST1H2BD	HIST1H3A	HIST1H3B	HIST1H3C	HIST1H3D	HIST1H3E	HIST1H3F	HIST1H3G	HIST1H3H
HIST1H3I	HIST1H3J	HIST2H3A	HIST2H3C	HIST2H3D	HIST3H3	HLA-A	HLA-B	HLA-C	HNF1A
HNRNP	HOXB13	HRAS	HSD3B1	HSP90AA1	ICOSLG	ID3	IDH1	IDH2	IFNGR1
IGF1	IGF1R	IGF2	IKBKE	IKZF1	IL10	IL7R	INHA	INHBA	INPP4A
INPP4B	INSR	IRF2	IRF4	IRS1	IRS2	JAK1	JAK2	JAK3	JUN
KAT6A	KDM5A	KDM5C	KDM6A	KDR	KEAP1	KEL	KIF5B	KIT	KLF4
KLHL6	KMT2B	KMT2C	KMT2D	KRAS	LAMP1	LATS1	LATS2	LMO1	LRP1B
LYN	LZTR1	MAGI2	MALT1	MAP2K1	MAP2K2	MAP2K4	MAP3K1	MAP3K13	MAP3K14
MAP3K4	MAPK1	MAPK3	MAX	MCL1	MDC1	MDM2	MDM4	MED12	MEF2B
MEN1	MET	MGA	MITF	MLH1	MLL	MLLT3	MPL	MRE11A	MSH2
MSH3	MSH6	MST1	MST1R	MTOR	MUTYH	MYB	MYC	MYCL1	MYCN
MYD88	MYOD1	NAB2	NBN	NCOA3	NCOR1	NEGR1	NF1	NF2	NFE2L2
NFKBIA	NKX2-1	NKX3-1	NOTCH1	NOTCH2	NOTCH3	NOTCH4	NPM1	NRAS	NRG1
NSD1	NTRK1	NTRK2	NTRK3	NUP93	NUTM1	PAK1	PAK3	PAK7	PALB2
PARK2	PARP1	PAX3	PAX5	PAX7	PAX8	PBRM1	PDCD1	PDCD1LG2	PDGFRA
PDGFRB	PDK1	PDPK1	PGR	PHF6	PHOX2B	PIK3C2B	PIK3C2G	PIK3C3	PIK3CA
PIK3CB	PIK3CD	PIK3CG	PIK3R1	PIK3R2	PIK3R3	PIM1	PLCG2	PLK2	PMAIP1
PMS1	PMS2	PNRC1	POLD1	POLE	PPARG	PPM1D	PPP2R1A	PPP2R2A	PPP6C
PRDM1	PREX2	PRKAR1A	PRKCI	PRKDC	PRSS8	PTCH1	PTEN	PTPN11	PTPRD
PTPRS	PTPRT	QKI	RAB35	RAC1	RAD21	RAD50	RAD51	RAD51B	RAD51C
RAD51D	RAD52	RAD54L	RAF1	RANBP2	RARA	RASA1	RB1	RBM10	RECQL4
REL	RET	RFWD2	RHEB	RHOA	RICTOR	RIT1	RNF43	ROS1	RPS6KA4
RPS6KB1	RPS6KB2	RPTOR	RUNX1	RUNX1T1	RYBP	SDHA	SDHAF2	SDHB	SDHC
SDHD	SETBP1	SETD2	SF3B1	SH2B3	SH2D1A	SHQ1	SLIT2	SLX4	SMAD2
SMAD3	SMAD4	SMARCA4	SMARCB1	SMARCD1	SMC1A	SMC3	SMO	SNCAIP	SOCS1
SOX10	SOX17	SOX2	SOX9	SPEN	SPOP	SPTA1	SRC	SRSF2	STAG1
STAG2	STAT3	STAT4	STAT5A	STAT5B	STK11	STK40	SUFU	SUZ12	SYK
TAF1	TBX3	TCEB1	TCF3	TCF7L2	TERC	TERT	TET1	TET2	TFE3
TFRC	TGFBR1	TGFBR2	TMEM127	TMPRSS2	TNFAIP3	TNFRSF14	TOP1	TOP2A	TP53
TP63	TRAF2	TRAF7	TSC1	TSC2	TSHR	U2AF1	VEGFA	VHL	VTCN1
WISP3	WT1	XIAP	XPO1	XRCC2	YAP1	YES1	ZBTB2	ZBTB7A	ZFXH3
ZNF217	ZNF703	ZRSR2							

關鍵儀器設備：

Thermal Cycler (299024441、299025061、299025770、299025058、299025753、299023647、299025747、299020959)、Fragment Analyzer (MY2026AA55、MY2217AA99、6257001968960000)、NGS System (LH00241、A00355)、Fluorometer (2332621030013、1104004942)、Spectrophotometer (8167)

精準醫療分子檢測實驗室認證(認證編號：LDT0033)

附表9. 全知域全外顯子檢測 (629)

AAAS	ABCA12	ABCA3	ABCB11	ABCB4	ABCC2	ABCC6	ABCC8	ABCD1	ABCD4
ACAD9	ACADM	ACADS	ACADSB	ACADVL	ACAT1	ACOX1	ACSF3	ADA	ADAMTS2
ADAMTSL4	ADGRG1	ADK	AFF2	AGA	AGL	AGPS	AGXT	AHCY	AHI1
AIPL1	AIRE	ALDH3A2	ALDH4A1	ALDH7A1	ALDOB	ALG1	ALG6	ALMS1	ALPL
AMN	AMT	ANO10	AP1S1	AP1S2	AQP2	ARG1	ARL13B	ARSA	ARSB
ARSL	ARX	ASL	ASNS	ASPA	ASS1	ATM	ATP6V1B1	ATP7A	ATP7B
ATP8B1	ATRX	AVPR2	BBS1	BBS10	BBS12	BBS2	BBS4	BBS5	BBS7
BBS9	BCHE	BCKDHA	BCKDHB	BCS1L	BLM	BLOC1S3	BLOC1S6	BMP1	BRIP1
BRWD3	BSND	BTB	BTK	CAD	CANT1	CAPN3	CASQ2	CBS	CC2D1A
CC2D2A	CCDC103	CCDC39	CCDC88C	CCN6	CD3D	CD3E	CD40	CD40LG	CD59
CDH23	CEP152	CEP290	CERKL	CFTR	CHAT	CHM	CHRNE	CHRNA3	CHST6
CIITA	CLCN1	CLN3	CLN5	CLN6	CLN8	CLRN1	CNGA1	CNGA3	CNGB1
CNGB3	COL11A2	COL17A1	COL27A1	COL4A3	COL4A4	COL4A5	COL7A1	COX15	CPS1
CPT1A	CPT2	CRB1	CRTAP	CTNS	CTSA	CTSC	CTSD	CTSK	CUL4B
CYBA	CYBB	CYP11A1	CYP11B1	CYP11B2	CYP17A1	CYP19A1	CYP1B1	CYP21A2	CYP27A1
CYP27B1	CYP2R1	CYP7B1	DBT	DCAF17	DCLRE1C	DCX	DDX11	DGAT1	DGUOK
DHCR7	DHDDS	DKC1	DLD	DLG3	DLL3	DMD	DNAH11	DNAH5	DNAI1
DNAI2	DNAL1	DNMT3B	DOK7	DPYD	DUOX2	DUOX2	DYNC2H1	DYSF	EDA
EDAR	EIF2AK3	EIF2B1	EIF2B2	EIF2B3	EIF2B4	EIF2B5	ELP1	EMD	EPG5
ERBB3	ERCC2	ERCC6	ERCC8	ESCO2	ETFA	ETFB	ETFDH	ETHE1	EVC
EVC2	EXOSC3	EYS	F11	F8	F9	FAH	FAM161A	FANCA	FANCB
FANCC	FANCD2	FANCE	FANCG	FANCI	FANCL	FBXO7	FGD1	FH	FHL1
FKBP10	FKRP	FKTN	FMO3	FMR1	FOXN1	FOXRED1	FRAS1	FREM2	FTCD
FTSJ1	FUCA1	FXN	G6PC1	G6PC3	G6PD	GAA	GALC	GALE	GALK1
GALNS	GALNT3	GALT	GAMT	GATM	GBA1	GBE1	GCDH	GCH1	GDAP1
GDF5	GFM1	GHR	GJB2	GJB3	GJB6	GLA	GLB1	GLDC	GLE1
GNE	GNPAT	GNPTAB	GNPTG	GNRHR	GNS	GORAB	GP1BA	GP9	GPR143
GRHPR	GRIP1	GSS	GUCY2D	GUSB	HADHA	HADHB	HAMP	HAX1	HBA1/HBA2
HBB	HCFC1	HEXA	HEXA	HEXA	HEXB	HFE	HGD	HGSNAT	HJV
HLC5	HMGCL	HMOX1	HOGA1	HPD	HPRT1	HPS1	HPS3	HPS4	HPS5
HPS6	HSD17B3	HSD17B4	HSD3B2	HYAL1	HYLS1	IDH3B	IDS	IDUA	IGHMBP2
IKBKB	IL1RAPL1	IL2RG	IL7R	INVS	ITGA6	ITGB3	ITGB4	IVD	IYD
JAK3	KCNJ1	KCNJ11	KDM5C	L1CAM	LAMA2	LAMA3	LAMB3	LAMC2	LAMTOR2
LARGE1	LCA5	LCAT	LDLRAP1	LHX3	LIFR	LIG4	LIPA	LIPH	LMBRD1
LOXHD1	LPL	LRAT	LRP2	LRPPRC	LYST	MAK	MAN2B1	MANBA	MCCC1
MCCC2	MCEE	MCOLN1	MCPH1	MECP2	MECR	MED17	MEFV	MESP2	MFSD8
MID1	MKKS	MKS1	MLC1	MLYCD	MMAA	MMAB	MMACHC	MMADHC	MMUT
MOCS1	MOCS2	MPI	MPL	MPV17	MRE11	MTHFR	MTM1	MTMR2	MTR
MTRR	MTTP	MUSK	MVK	MYO15A	MYO7A	NAGA	NAGLU	NAGS	NBN
NCF2	NDP	NDRG1	NDUF5A	NDUF5B	NDUF5C	NDUF5D	NDUF5E	NDUF5F	NEB
NEU1	NGLY1	NPC1	NPC2	NPHP1	NPHP2	NPHS1	NPHS2	NROB1	NR2E3
NTRK1	OAT	OCA2	OCRL	ODAD3	OPA3	OPHN1	OSTM1	OTC	OTOA
OTOF	P3H1	PAH	PANK2	PC	PCBD1	PCCA	PCCB	PCDH15	PCNT
PDE6A	PDHA1	PDHB	PEPD	PET100	PEX1	PEX10	PEX12	PEX13	PEX16
PEX2	PEX26	PEX5	PEX6	PEX7	PFKM	PGK1	PGM3	PHF8	PHGDH
PHKB	PHKG2	PHYH	PIGN	PJVK	PKHD1	PLA2G6	PLEKHG5	PLOD1	PLP1
PMM2	PNPO	POLG	POLH	POLR1C	POMGNT1	POMT1	POMT2	POR	POU1F1
POU3F4	PPT1	PQBP1	PRCD	PRDM5	PRF1	PROP1	PRPS1	PSAP	PTPRC
PTS	PUS1	PYGM	QDPR	RAB23	RAG1	RAG2	RAPSN	RARS2	RAX
RDH12	RLBP1	RMRP	RNASEH2B	RNASEH2C	ROBO3	RP2	RPE65	RPGR	RPGRIP1L
RS1	RTEL1	RYR1	RXR1	SACS	SAMD9	SAMHD1	SBDS	SC02	SEC23B
SEPSECS	SERPINA1	SGCA	SGCB	SGCD	SGCG	SGSH	SH3TC2	SKIC2	SKIC3
SLC12A1	SLC12A3	SLC12A6	SLC16A2	SLC17A5	SLC19A2	SLC19A3	SLC1A4	SLC22A5	SLC25A13
SLC25A15	SLC25A20	SLC26A2	SLC26A3	SLC26A4	SLC27A4	SLC35A3	SLC37A4	SLC38A8	SLC39A4
SLC45A2	SLC46A1	SLC4A11	SLC5A5	SLC6A19	SLC6A8	SLC7A7	SMARCA1	SMN1/SMN	SMPD1
SNAP29	SPG11	SPG7	SPR	SRD5A2	ST3GAL5	STAR	STX11	STXB2	SUMF1
SUOX	SURF1	SYN1	SYNE4	TAFAZZIN	TANGO2	TAT	TBCD	TBCE	TCIRG1
TCN2	TECPR2	TERT	TF	TFR2	TG	TGM1	TH	THOC2	TK2
TMC1	TMEM216	TMEM67	TMPRSS3	TNXB	TPO	TPP1	TRDN	TREX1	TRIM32
TRIM37	TRMU	TSEN54	TSFM	TSHB	TSHR	TTN	TPA	TULP1	TYMP
TYR1	TYRP1	UBR1	UGT1A1	UNC13D	UPF3B	USH1C	USH1G	USH2A	VDR
VLDLR	VPS11	VPS13A	VPS13B	VPS45	VPS53	VRK1	VX2	WAS	WHRN
WNT10A	WRN	XPA	XPC	ZBTB24	ZDHC9	ZFYVE26	ZNF469	ZNF711	

關鍵儀器設備：

Automatic extraction system (P1122005L、P1122018L)、
 Thermal Cycler (299024441、299025061、299025770、299025058、299025753、299023647、
 299025747、299020959)、Fragment Analyzer (MY2026AA55、MY2217AA99、6257001968960000)
 NGS System (LH00241)、Fluorometer (2332621030013、1104004942)、Spectrophotometer (8167)

精準醫療分子檢測實驗室認證(認證編號：LDT0033)

附表10. 全能域全基因體檢測 (629)

AAAS	ABCA12	ABCA3	ABCB11	ABCB4	ABCC2	ABCC6	ABCC8	ABCD1	ABCD4
ACAD9	ACADM	ACADS	ACADSB	ACADVL	ACAT1	ACOX1	ACSF3	ADA	ADAMTS2
ADAMTSL4	ADGRG1	ADK	AFF2	AGA	AGL	AGPS	AGXT	AHCY	AHI1
AIPL1	AIRE	ALDH3A2	ALDH4A1	ALDH7A1	ALDOB	ALG1	ALG6	ALMS1	ALPL
AMN	AMT	ANO10	AP1S1	AP1S2	AQP2	ARG1	ARL13B	ARSA	ARSB
ARSL	ARX	ASL	ASNS	ASPA	ASS1	ATM	ATP6V1B1	ATP7A	ATP7B
ATP8B1	ATRX	AVPR2	BBS1	BBS10	BBS12	BBS2	BBS4	BBS5	BBS7
BBS9	BCHE	BCKDHA	BCKDHB	BCS1L	BLM	BLOC1S3	BLOC1S6	BMP1	BRIP1
BRWD3	BSND	BTB	BTK	CAD	CANT1	CAPN3	CASQ2	CBS	CC2D1A
CC2D2A	CCDC103	CCDC39	CCDC88C	CCN6	CD3D	CD3E	CD40	CD40LG	CD59
CDH23	CEP152	CEP290	CERKL	CFTR	CHAT	CHM	CHRNE	CHRNA	CHST6
CIITA	CLCN1	CLN3	CLN5	CLN6	CLN8	CLRN1	CNGA1	CNGA3	CNGB1
CNGB3	COL11A2	COL17A1	COL27A1	COL4A3	COL4A4	COL4A5	COL7A1	COX15	CPS1
CPT1A	CPT2	CRB1	CRTAP	CTNS	CTSA	CTSC	CTSD	CTSK	CUL4B
CYBA	CYBB	CYP11A1	CYP11B1	CYP11B2	CYP17A1	CYP19A1	CYP1B1	CYP21A2	CYP27A1
CYP27B1	CYP2R1	CYP7B1	DBT	DCAF17	DCLRE1C	DCX	DDX11	DGAT1	DGUOK
DHCR7	DHDDS	DKC1	DLD	DLG3	DLL3	DMD	DNAH11	DNAH5	DNAI1
DNAI2	DNAL1	DNMT3B	DOK7	DPYD	DUOX2	DUOXA2	DYNC2H1	DYSF	EDA
EDAR	EIF2AK3	EIF2B1	EIF2B2	EIF2B3	EIF2B4	EIF2B5	ELP1	EMD	EPG5
ERBB3	ERCC2	ERCC6	ERCC8	ESCO2	ETFA	ETFB	ETFDH	ETHE1	EVC
EVC2	EXOSC3	EYS	F11	F8	F9	FAH	FAM161A	FANCA	FANCB
FANCC	FANCD2	FANCE	FANCG	FANCI	FANCL	FBXO7	FGD1	FH	FHL1
FKBP10	FKRP	FKTN	FMO3	FMR1	FOXP1	FOXRED1	FRAS1	FREM2	FTCD
FTSJ1	FUCA1	FXN	G6PC1	G6PC3	G6PD	GAA	GALC	GALE	GALK1
GALNS	GALNT3	GALT	GAMT	GATM	GBA1	GBE1	GCDH	GCH1	GADP1
GDF5	GFM1	GHR	GJB2	GJB3	GJB6	GLA	GLB1	GLDC	GLE1
GNE	GNPAT	GNPTAB	GNPTG	GNRHR	GNS	GORAB	GP1BA	GP9	GPR143
GRHR	GRIP1	GSS	GUCY2D	GUSB	HADHA	HADHB	HAMP	HAX1	HBA1/HBA2
HBB	HCFC1	HEXA	HEXA	HEXA	HEXB	HFE	HGD	HGSNAT	HJV
HLCS	HMGCL	HMOX1	HOGA1	HPD	HPRT1	HPS1	HPS3	HPS4	HPS5
HP56	HSD17B3	HSD17B4	HSD3B2	HYAL1	HYLS1	IDH3B	IDS	IDUA	IGHMBP2
IKBKB	IL1RAPL1	IL2RG	IL7R	INVS	ITGA6	ITGB3	ITGB4	IVD	IYD
JAK3	KCNJ1	KCNJ11	KDM5C	L1CAM	LAMA2	LAMA3	LAMB3	LAMC2	LAMTOR2
LARGE1	LCA5	LCAT	LDLRAP1	LHX3	LIFR	LIG4	LIPA	LIPH	LMBRD1
LOXHD1	LPL	LRAT	LRP2	LRPPRC	LYST	MAK	MAN2B1	MANBA	MCCC1
MCCC2	MCEE	MCOLN1	MCPH1	MECP2	MECR	MED17	MEFV	MESP2	MFS2D8
MID1	MKKS	MKS1	MLC1	MLYCD	MMAA	MMAB	MMACHC	MMADHC	MMUT
MOCS1	MOCS2	MPI	MPL	MPV17	MRE11	MTHFR	MTM1	MTMR2	MTR
MTRR	MITTP	MUSK	MVK	MYO15A	MYO7A	NAGA	NAGLU	NAGS	NBN
NCF2	NDP	NDRG1	NDUFAF2	NDUFAF5	NDUFS4	NDUFS6	NDUFS7	NDUFV1	NEB
NEU1	NGLY1	NPC1	NPC2	NPHP1	NPHS1	NPHS2	NR0B1	NR2E3	NSMCE3
NTRK1	OAT	OCA2	OCRL	ODAD3	OPA3	OPHN1	OSTM1	OTC	OTOA
OTOF	P3H1	PAH	PANK2	PC	PCBD1	PCCA	PCCB	PCDH15	PCNT
PDE6A	PDHA1	PDHB	PEPD	PET100	PEX1	PEX10	PEX12	PEX13	PEX16
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PHKB	PHKG2	PHYH	PIGN	PJVK	PKHD1	PLA2G6	PLEKHG5	PLOD1	PLP1
PMM2	PNPO	POLG	POLH	POLR1C	POMGNT1	POMT1	POMT2	POR	POU1F1
POU3F4	PPT1	PQBP1	PRCD	PRDM5	PRF1	PROP1	PRPS1	PSAP	PTPRC
PTS	PUS1	PYGM	QDPR	RAB23	RAG1	RAG2	RAPSN	RARS2	RAX
RDH12	RLBP1	RMRP	RNASEH2B	RNASEH2C	ROBO3	RP2	RPE65	RPGR	RPGRIP1L
RS1	RTEL1	RXYLT1	RYR1	SACS	SAMD9	SAMHD1	SBDS	SCO2	SEC23B
SEPSECS	SERPINA1	SGCA	SGCB	SGCD	SGCG	SGSH	SH3TC2	SKIC2	SKIC3
SLC12A1	SLC12A3	SLC12A6	SLC16A2	SLC17A5	SLC19A2	SLC19A3	SLC1A4	SLC22A5	SLC25A13
SLC25A15	SLC25A20	SLC26A2	SLC26A3	SLC26A4	SLC27A4	SLC35A3	SLC37A4	SLC38A8	SLC39A4
SLC45A2	SLC46A1	SLC4A11	SLC5A5	SLC6A19	SLC6A8	SLC7A7	SMARCAL1	SMN1/SMN	SMPD1
SNAP29	SPG11	SPG7	SPR	SRD5A2	ST3GAL5	STAR	STX11	STXBP2	SUMF1
SUOX	SURF1	SYN1	SYNE4	TAFAZZIN	TANGO2	TAT	TBCD	TBCE	TCIRG1
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TRIM37	TRMU	TSEN54	TSMF	TSHB	TSHR	TTN	TTPA	TULP1	TYMP
TYR	TYRP1	UBR1	UGT1A1	UNC13D	UPF3B	USH1C	USH1G	USH2A	VDR
VLDLR	VPS11	VPS13A	VPS13B	VPS45	VPS53	VRK1	VSX2	WAS	WHRN
WNT10A	WRN	XPA	XPC	ZBTB24	ZDHHC9	ZFYVE26	ZNF469	ZNF711	

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