

NEPHRO^{pro}

For the screening of Nephropathies

4bases NEPHRO pro is a **capture-based** solution designed to support the diagnosis of hereditary kidney disorders. It is specifically developed for the evaluation of nephrotic syndromes, cystic kidney diseases, tubular and glomerular dysfunctions, and for genetic assessment in kidney transplantation, enabling the detection of a wide range of **clinically relevant** genetic variants.

By identifying pathogenic variants in affected individuals, at-risk family members, or transplant candidates, Nephro pro kit aids in early diagnosis, personalized management, transplant risk stratification, and genetic counselling.

The kit is validated for germline analysis (SNPs, indels, CNVs) of DNA extracted from blood or body tissues (fresh, frozen, etc.) samples.

NEPHRO pro is a kit for the analysis of 92 genes

ACTN4	CFH	COQ2	HOGA1	MYOIE	PLCE1	SMAR-CAL1	PKD4	AGXT	CFHR1
COQ6	HPRT1	NPHS1	PODXL	STRADA	APRT	PKD5	CFHR3	COQ8B	INF2
NPHS2	SCARB2	TBC1D8B	PKD6	ARHGDIA	CFI	CRB2	ITGA3	NUP107	SGPL1
TNS2	PKHD1	ATP6V0A4	CLCN5	CUBN	CUBN	NUP133	SLC12A1	TP53RK	ALG9
ATP6V1B1	CLCNKB	CYP24A1	KCNJ1	NUP85	SLC22A12	TRPC6	CTNS	BSND	CLDN16
DGKE	LAGE3	NUP93	SLC2A9	WDR73	DNAJB11	C3	CLDN19	DLC1	LAMB2
OCRL	SLC34A1	WT1	GANAB	CA2	COL4A1	EMP2	LMX1B	OSGEP	SLC34A3
XDH	CASR	COL4A3	FAM20A	MAGI2	PAX2	SLC3A1	PKD1	CD46	COL4A4
FAT1	MMACHC	PDSS2	SLC4A1	PKD2	CFB	COL4A5	GRHPR	MYH9	PHEX
SLC7A9	PKD3								

From DNA to Final data in less than 2.5 days with less than 3 hours hands-on time.



From gDNA



PCR UDI



Hybridization



Enrichment PCR



Final library



NGS



to FINAL DATA

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Specifications

Sample type	DNA extracted from tissues, blood or body fluids
Input	Minimum of 50 ng DNA per sample
Panel size	About 255 Kb
Variant called	SNPS, indels, CNVs
Compatible Instruments	Illumina, Oxford Nanopore Technologies, Ion Torrent, Element Biosciences, MGI, GeneMind
Data Analysis	4eVAR
Automation version	Customizable

Cod. kit

Product	Cod.	Tests number
NEPRHO pro	RC3170, RDC3170, RC3170Y	16
NEPHRO pro	RC3170, RDC3170, RC3170Y	96

4eVAR: Comprehensive output files for analysis and reporting



- Quality metrics
- Alignment
- CNVs status
- Full variant table
- Genotype
- Coverage
- Mitochondrial analysis
- Customizable report

Data Analysis

Product	Cod.	Tests number
4eVAR	Series A6060-C3170-16	16
4eVAR	Series A6060-C3170-96	96

If you wish to learn more:



Contact us at: info@4bases.ch
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