

QIAseq Targeted DNA Pro Panels

Human Comprehensive Cancer Focus

Cat. nos. 333661 PHS-3100Z-12 and 333665 PHS-3100Z-96

For ultrasensitive targeted next-generation sequencing (NGS) of DNA

The QIAseq Targeted DNA Pro Human Comprehensive Cancer Focus Panel permits the targeted next generation sequencing analysis of actionable and interpretable cancer-related somatic variants in 164 oncogenes and tumor suppressor genes relevant for tumor classification, covering 102,488 bases with 2,990 primers. Represented cancers include bladder cancers, brain cancers, breast cancers, colorectal cancers, gastric cancers, liver cancers, lung cancers, melanomas, myeloid neoplasms, ovarian cancers, pancreatic cancers, prostate cancers, and other cancers. Targeted actionable and interpretable genes and variants were collected from 1) clinical practice guidelines recommended by multiple organizations, including the American College of Medical Genetics (ACMG), the American Society Of Hematology (ASH), the Association for Molecular Pathology (AMP), the American Society of Clinical Oncology (ASCO), the College of American Pathologists (CAP), the European Society for Medical Oncology (ESMO), and the National Comprehensive Cancer Network (NCCN); 2) the NIH NCBI ClinVar and Online Mendelian Inheritance in Man (OMIM) resources that compile variants with known associations to cancers cited by peer-reviewed publications, 3) clinical trial documents from resources such as Cancer.gov, ClinicalTrials.gov, and the UMIN Clinical Trials Registry; 4) requests and suggestions from QIAGEN KOLs and SMEs; and 5) other peer-reviewed publications. As a result, this primer pool gives researchers a comprehensive insight into cancer genomics with the detection of a focused panel of relevant SNP/indels using digital DNA sequencing.

For further details, consult the *QIAseq Targeted DNA Pro Panels Handbook*.

Shipping and storage

The QIAseq Targeted DNA Pro Kits (except QIAseq Beads and QIAseq Bead Binding Buffer) are shipped on dry ice and should be stored at -30°C to -15°C in a constant-temperature freezer upon arrival. The QIAseq Beads and QIAseq Bead Binding Buffer are shipped on cold packs and should be stored at $2-8^{\circ}\text{C}$ upon arrival. The QIAseq Targeted DNA Pro Index Kits are shipped on dry ice and should be stored at -30°C to -15°C upon arrival. When stored correctly, the QIAseq Targeted DNA Pro Kits are good until the expiration date printed on the kit label.

Note: Open the package and store the products appropriately immediately upon receipt.



Panel Contents

QIAseq Targeted DNA Pro Catalog Number	333661	333665
No. of samples	12	96
One pool of region-specific primers	90 µL	700 µL
FFPE repair reagent	15 µL	80 µL
FFPE repair enzyme	17 µL	120 µL
FX Buffer, 10x	23 µL	170 µL
5X WGS FX Mix	42 µL	330 µL
FG Solution	170 µL	170 µL
UPH Ligation Buffer, 2.5x	288 µL	1152 µL
DNA Ligase	75 µL	330 µL
Ligation Cleanup Reagent	30 µL	240 µL
TEPCR Buffer, 5x	3 x 60 µL	3 x 500 µL
TEPCR modifier	30 µL	230 µL
TEPCR Cleanup Reagent	80 µL	600 µL
UPCR Buffer, 5x	500 µL	4 x 500 µL
QN Taq Polymerase	2 x 60 µL	2 x 450 µL
Nuclease-free water	1.5 mL	10 mL
One bottle containing QIAseq Bead Binding Buffer	10.2 mL	10.2 mL
One bottle containing QIAseq Beads	10 mL	10 mL

Gene Table

Gene Symbol	Gene Symbol	Gene Symbol	Gene Symbol	Gene Symbol	Gene Symbol
ABL1	ACVR1	AKT1	AKT3	ALB	ALK
APC	APOB	AR	ARID1A	ARID2	ASXL1
ATM	ATRX	AXIN1	B2M	BAP1	BARD1
BCL2	BCL6	BCOR	BCORL1	BRAF	BRCA1
BRCA2	BRIP1	BTX	CALR	CARD11	CBL
CBLB	CBLC	CCND1	CCNE1	CD79B	CDH1
CDK12	CDK4	CDKN2A	CEBPA	CHEK1	CHEK2
CREBBP	CSF3R	CTNNB1	DDX41	DNMT3A	DPYD
EGFR	ERBB2	ERBB3	ERBB4	ERCC1	ERCC2
ESR1	ETV6	EZH2	FANCL	FANCM	FBXW7
FGFR1	FGFR2	FGFR3	FLT3	FOXA1	FOXL2
GATA1	GATA2	GNA11	GNA13	GNAQ	GNAS
GNB1	GRIN2A	H3-3A	HRAS	IDH1	IDH2
JAK1	JAK2	JAK3	KDM6A	KEAP1	KIT
KMT2A	KMT2D	KRAS	MAP2K1	MAP2K2	MED12
MET	MITF	MLH1	MLH3	MPL	MSH2
MSH3	MSH6	MTOR	MYC	MYD88	NF1
NF2	NFE2L2	NOTCH1	NPM1	NRAS	NTRK1
PALB2	PDGFRA	PHF6	PIK3CA	PIK3R1	PIM1
PLCB4	PMS1	PMS2	PMS2CL	POLE	PPM1D
PPP2R1A	PPP6C	PTCH2	PTEN	PTPN11	RAC1
RAD21	RAD51B	RAD51C	RAD51D	RAD54L	RAF1
RB1	RET	RHOA	RIT1	RNF43	ROS1
RUNX1	SETBP1	SF3B1	SMAD4	SMC1A	SMC3
SOCS1	SPOP	SRSF2	STAG2	STAT3	STAT5B
STK11	SUFU	TCF7L2	TERT	TET2	TGFBR2
TNFAIP3	TP53	TSC2	TYMS	UGT1A1	WT1
XPO1	ZRSR2				

Functional Groupings

Bladder Cancers:

Adenocarcinomas: KRAS, TP53.

Transitional Cell Carcinomas: AKT1, ARID1A, ATM, BRAF, CCND1, CCNE1, CDKN2A, CTNNB1, ERBB2, ERBB3, ERCC2, FGFR2, FGFR3, HRAS, KDM6A, KRAS, PIK3CA, PTEN, RB1, TP53.

Brain Cancers:

Anaplastic Glial Tumors: PTEN, TP53.

Astrocytomas: BRAF, CHEK2, FGFR1, IDH1, KRAS, PTPN11, TP53.

Ependymomas: H3-3A, NF2.

Glioblastomas: APC, BCOR, BRAF, CREBBP, EGFR, H3-3A, IDH1, MLH1, MSH2, MTOR, NRAS, PIK3CA, PMS2, PMS2CL, PTEN, TP53.

Gliomas: ACVR1, BRCA2, CHEK2, FGFR1, H3-3A, PIK3CA, PTEN, TP53.

High-Grade Gliomas: BRAF, EGFR, IDH1.

Medulloblastomas: BRCA2, CREBBP, FGFR1, IDH1, MSH2, NRAS, PIK3CA, PTCH2, SUFU, TP53.

Meningiomas: NF2, PTEN.

Oligodendrogliomas: IDH1, MSH2.

Breast Cancers:

Carcinomas: ATM, BARD1, BRCA1, BRCA2, BRIP1, CDH1, CDK12, CDK4, CHEK1, CHEK2, EGFR, ERBB2, ESR1, FANCL, FBXW7, KIT, KRAS, MET, MLH1, MLH3, MSH2, MSH3, MSH6, PALB2, PDGFRA, PIK3CA, PMS1, PMS2, RAD51B, RAD51C, RAD51D, RAD54L, SF3B1.

Metastatic Breast Cancers: AKT1, BRCA1, BRCA2, ERBB2, ERBB3, ESR1, PALB2, PIK3CA, PTEN.

Mismatch Repair (MMR) Genes: MLH1, MSH2, MSH6, PMS2.

Colorectal Cancers:

Adenocarcinomas: APC, ARID1A, ATM, BARD1, BRAF, BRCA1, BRCA2, BRIP1, CDK12, CDKN2A, CHEK1, CHEK2, CTNNB1, EGFR, ERBB2, ERBB3, FANCL, FBXW7, GNAS, KIT, KRAS, MAP2K1, MET, MLH1, MLH3, MSH2, MSH3, MSH6, MYC, NRAS, PALB2, PDGFRA, PMS1, PMS2, PMS2CL, POLE, PTEN, RAD51B, RAD51C, RAD51D, RAD54L, RET, RNF43, SMAD4, TCF7L2, TGFBR2, TP53.

Metastatic Colorectal Cancers: AKT1, ATM, BRAF, ERBB2, KRAS, MET, NRAS, PIK3CA.

Mismatch Repair (MMR) Genes: MLH1, MSH2, MSH6, PMS2, PMS2CL.

Other Colorectal Cancer Genes: DPYD, ERCC1, UGT1A1.

Gastric Cancers:

Adenocarcinomas: APC, ARID1A, CDKN2A, CTNNB1, ERBB2, ERBB3, FBXW7, GNAS, KMT2D, KRAS, MYC, PIK3CA, PTEN, RNF43, SMAD4, TP53.

Adenomas: APC, CTNNB1, GNAS, KRAS.

Gastrointestinal Stromal Tumors (GIST): BRAF, KIT, PDGFRA.

Other Gastric Cancer Genes: CDH1, MET.

Liver Cancers:

Advanced Cholangiocarcinomas: BRAF, IDH1.

Hepatoblastomas: CTNNB1, TP53.

Hepatocellular Carcinomas: ALB, APC, APOB, ARID1A, ARID2, AXIN1, CCND1, CDKN2A, CREBBP, CTNNB1, IDH1, IDH2, JAK1, KEAP1, KRAS, MYC, NFE2L2, NRAS, PIK3CA, RB1, RIT1, TP53, TSC2.

Lung Cancers:

Adenocarcinomas: ABL1, ALK, ATM, BRAF, CDK4, CDKN2A, CTNNB1, EGFR, ERBB2, KRAS, MAP2K1, MET, NRAS, NTRK1, PIK3CA, PTEN, RET, ROS1, TP53, TSC2.

Malignant Pleural Mesotheliomas: NF2.

Non-Small Cell Lung Cancers (NSCLC): ALK, ATM, BARD1, BRAF, BRCA1, BRCA2, BRIP1, CDK12, CDK4, CDKN2A, CHEK1, CHEK2, CTNNB1, EGFR, ERBB2, FANCL, KIT, KRAS, MAP2K1, MET, MLH1, MLH3, MSH2, MSH3, MSH6, NRAS, PALB2, PDGFRA, PIK3CA, PMS1, PMS2, PTEN, RAD51B, RAD51C, RAD51D, RAD54L, RET, ROS1, TP53.

Small Cell Lung Cancers (SCLC): NTRK1, PIK3CA, PTEN, RB1, TP53.

Squamous Cell Carcinomas: BRAF, CDKN2A, EGFR, NTRK1, PIK3CA, PTEN, TP53, TSC2.

Melanomas:

Cutaneous Melanomas: KRAS, MLH1, MLH3, MSH2, MSH6, NRAS.

Malignant Melanomas: AKT3, ARID2, BRAF, CCND1, CDK4, CDKN2A, CREBBP, CTNNB1, ERBB4, EZH2, GNA11, GNAQ, GRIN2A, HRAS, IDH1, KIT, KRAS, MAP2K1, MAP2K2, MITF, NF1, NRAS, PIK3CA, PPP6C, PTEN, RAC1, RAF1, RB1, TP53.

Mucosal Melanomas: BRAF, KIT, MLH1, MLH3, MSH2, MSH6, NRAS.

Ocular Melanomas: MLH1, MLH3, MSH2, MSH6.

Uveal Melanomas: ATM, BAP1, BRCA1, BRCA2, CDK12, EGFR, FANCL, KRAS, MLH1, MLH3, MSH2, MSH6, NRAS, PALB2, PLCB4.

Other Melanoma Genes: BARD1, BRIP1, CHEK1, CHEK2, PDGFRA, RAD51B, RAD51C, RAD51D.

Myeloid Neoplasms:

Acute Lymphoblastic Leukemia (ALL): ABL1, BRAF, BTK, CDKN2A, CREBBP, ETV6, FBXW7, FLT3, HRAS, JAK1, JAK2, JAK3, KMT2A, KRAS, MYC, NOTCH1, NRAS, PTEN, PTPN11, RUNX1, SF3B1, TP53.

Acute Myeloid Leukemia (AML): ASXL1, ATRX, BRCA1, BRCA2, CBLB, CBLC, CEBPA, DDX41, DNMT3A, ETV6, FLT3, GATA1, GATA2, GNAS, HRAS, IDH1, IDH2, JAK2, KIT, KMT2A, KRAS, MTOR, NPM1, NRAS, PDGFRA, PTPN11, RUNX1, SF3B1, SMC1A, TET2, TP53, WT1.

Acute Promyelocytic Leukemia (APML; APL): CEBPA, NPM1, RUNX1.

Atypical Chronic Myeloid Leukemia (aCML): ASXL1, CBL, CEBPA, EZH2, FLT3, JAK2, KRAS, NPM1, NRAS, RUNX1, SETBP1, SRSF2, TET2.

Chronic Lymphocytic Leukemia (CLL): ATRX, BCL2, BRAF, CBLB, GNAS, GNB1, MYD88, NOTCH1, NRAS, PTPN11, SF3B1, TP53, XPO1.

Chronic Myeloid Leukemia (CML): ABL1, ASXL1, BCOR, BRAF, CBL, CREBBP, DNMT3A, EZH2, IDH1, IDH2, JAK2, KRAS, NPM1, NRAS, RUNX1, TET2, TP53, WT1.

Chronic Myelomonocytic Leukemia (CMML): ASXL1, BCOR, BCORL1, CBL, CEBPA, DNMT3A, EZH2, FLT3, IDH1, IDH2, JAK2, KIT, KRAS, MPL, NF1, NPM1, NRAS, PHF6, PTPN11, RUNX1, SETBP1, SF3B1, SRSF2, STAG2, TET2, TP53, ZRSR2.

Hairy Cell Leukemia: BRAF, TP53.

Juvenile Myelomonocytic Leukemia: CBL, KRAS, NRAS, PTPN11.

Acute Lymphocytic Lymphomas: BTK, CDKN2A, MYC, NOTCH1, SF3B1, TP53.

B Cell Lymphomas: BCL6, BRAF, CHEK2, EZH2, MYD88, TP53.

Burkitt Lymphomas: CBLB, GNA13, MTOR, MYC.

Diffuse Large B Cell Lymphomas: B2M, BCL2, CBLB, GNA13, KMT2D, MTOR, PIM1, SOCS1, TNFAIP3.

Follicular Lymphomas: ARID1A, BCL2, CARD11, CREBBP, EZH2, KMT2D.

Mantle Cell Lymphomas: ATM.

Marginal Zone Lymphomas: MYD88, TNFAIP3, TP53.

Mucosa-Associated Lymphoid Tissue (MALT) Lymphomas: TNFAIP3.

Non-Hodgkin Lymphomas: BRAF, NRAS, PIK3CA, TP53.

Primary Cutaneous Lymphomas: CD79B, MYD88.

Small Lymphocytic Lymphomas: ATRX, BCL2, CBLB, GNAS, XPO1.

T Cell Lymphomas: ATM, CBLB, DNMT3A, IDH1, IDH2, JAK1, JAK3, RHOA, STAT3, STAT5B, TET2.

Myelodysplastic Syndromes (MDS): ASXL1, ATRX, BCOR, BCORL1, CALR, CBL, CEBPA, DNMT3A, ETV6, EZH2, FLT3, GATA2, GNAS, GNB1, IDH1, IDH2, JAK2, JAK3, KIT, KRAS, MPL, NF1, NPM1, NRAS, PHF6, PPM1D, PTPN11, RAD21, RUNX1, SETBP1, SF3B1, SMC3, SRSF2, STAG2, STAT3, TET2, TP53, WT1, ZRSR2.

Myeloproliferative Neoplasms (NPM): ASXL1, CALR, CBL, DNMT3A, EZH2, IDH1, IDH2, JAK2, MPL, RUNX1, SF3B1, SRSF2, TP53.

Essential Thrombocythemia: ASXL1, CBL, IDH2, JAK2, MPL, SF3B1, TET2, TP53.

Multiple Myeloma: ATM, BARD1, BRAF, BRCA1, BRCA2, BRIP1, CHEK1, CHEK2, EGFR, ERBB2, FANCL, FGFR3, IDH1, IDH2, KIT, KRAS, MET, NRAS, PALB2, PDGFRA, RAD51B, RAD51C, RAD51D, RET, TP53.

Plasma Cell Myeloma: HRAS, MTOR.

Polycythemia Vera: ASXL1, DNMT3A, EZH2, IDH1, JAK2, NRAS, TET2, TP53.

Primary Myelofibrosis: ASXL1, CBL, DNMT3A, EZH2, IDH1, IDH2, JAK2, MPL, NF1, NRAS, SETBP1, SF3B1, SRSF2, TET2, TP53.

Systemic Mastocytosis: ASXL1, CBL, DNMT3A, ETV6, EZH2, IDH2, JAK2, KIT, KRAS, NPM1, NRAS, RUNX1, SETBP1, SF3B1, SRSF2, TET2.

Waldenstrom Macroglobulinemia: MYD88.

Ovarian Cancers:

Endometrioid Carcinomas: CTNNB1, POLE, PPP2R1A.

Epithelial Carcinomas: ARID1A, BRCA1, BRCA2, CCNE1, CHEK2, ERBB2, KRAS, PIK3CA, PTEN, RB1, TP53.

Granulosa Cell Tumors: AKT1, FOXL2.

Mixed Adenosquamous Carcinomas: AKT1, CCNE1, ERBB3, FANCM, FBXW7, FGFR2, MYC, PIK3R1, POLE, RB1, STK11.

Mucinous Carcinomas: ERBB3.

Serous Carcinomas: CCNE1, ERBB3, FANCM, FBXW7, FGFR2, MYC, PPP2R1A, RB1.

Pancreatic Cancers:

Adenocarcinomas: CDKN2A, MSH6, PMS2, SMAD4, TP53.

Advanced Ductal Adenocarcinomas: BRAF, BRCA1, BRCA2, ERBB2, KRAS, PIK3CA.

Ductal Carcinomas: APC, ARID1A, CTNNB1, ERBB3, FBXW7, GNAS, MYC, NRAS, POLE, PTEN, RNF43, TCF7L2.

Mismatch Repair (MMR) Genes: MSH6, PMS2.

Prostate Cancers:

Adenocarcinomas: APC, AR, BRAF, CHEK2, FOXA1, HRAS, IDH1, KDM6A, KMT2D, KRAS, MED12, MYC, PIK3R1, PTEN, RB1, SPOP, TP53.

Advanced Prostate Cancers: AKT1, BRCA2, PIK3CA, PTEN.

Ductal Carcinomas: CTNNB1.

Promoters: TERT, TYMS.

Microsatellite Instability (MSI) Loci: BAT25, BAT26, BAT34C4, BAT40, D10S196, D13S175, D17S250, D17S588, D17S787, D18S35, D18S55, D18S61, D18S64, D18S69, D20S100, D2S123, D3S1029, D5S107, D5S346, D7S519, D8S87, HSP110-T17, MONO-27, NR21, NR22.

Ordering Information

Product	Contents	Cat. no.
QIAseq Targeted DNA Pro (12)	All reagents (except indexes) for targeted DNA sequencing; fixed panel for 12 samples; less than 200 genes	333651
QIAseq Targeted DNA Pro (96)	All reagents (except indexes) for targeted DNA sequencing; fixed panel for 96 samples; less than 200 genes	333655
QIAseq Targeted DNA Pro HC (12)	All reagents (except indexes) for targeted DNA sequencing; fixed panel for 12 samples; more than 200 genes	333661
QIAseq Targeted DNA Pro HC (96)	All reagents (except indexes) for targeted DNA sequencing; fixed panel for 96 samples; more than 200 genes	333665
QIAseq Targeted DNA Pro Custom (96)	All reagents (except indexes) for targeted DNA sequencing; custom panel for 96 samples	333675
QIAseq Targeted DNA Pro Booster (96)	Pool of primers used in combination with either catalogued or custom panels	333685

QIAseq Targeted DNA Pro Unique Dual Indices

QIAseq Targeted DNA Pro UDI Set A (96)	Box containing unique molecularly indexed adapters and primers, enough for a total of 96 samples, for indexing up to 96 samples for targeted panel sequencing on Illumina platforms; Set A (of A, B, C, D, E, F, G, and H) required for multiplexing 768 samples in one run	333455
QIAseq Targeted DNA Pro UDI Set B (96)	Box containing unique molecularly indexed adapters and primers, enough for a total of 96 samples, for indexing up to 96 samples for targeted panel sequencing on Illumina platforms; Set B (of A, B, C, D, E, F, G, and H) required for multiplexing 768 samples in one run	333465
QIAseq Targeted DNA Pro UDI Set C (96)	Box containing unique molecularly indexed adapters and primers, enough for a total of 96 samples, for indexing up to 96 samples for targeted panel sequencing on Illumina platforms; Set C (of A, B, C, D, E, F, G, and H) required for multiplexing 768 samples in one run	333475

Product	Contents	Cat. no.
QIAseq Targeted DNA Pro UDI Set D (96)	Box containing unique molecularly indexed adapters and primers, enough for a total of 96 samples, for indexing up to 96 samples for targeted panel sequencing on Illumina platforms; Set D (of A, B, C, D, E, F, G, and H) required for multiplexing 768 samples in one run	333485
QIAseq Targeted DNA Pro UDI Set E (96)	Box containing unique molecularly indexed adapters and primers, enough for a total of 96 samples, for indexing up to 96 samples for targeted panel sequencing on Illumina platforms; Set E (of A, B, C, D, E, F, G, and H) required for multiplexing 768 samples in one run	334015
QIAseq Targeted DNA Pro UDI Set F (96)	Box containing unique molecularly indexed adapters and primers, enough for a total of 96 samples, for indexing up to 96 samples for targeted panel sequencing on Illumina platforms; Set F (of A, B, C, D, E, F, G, and H) required for multiplexing 768 samples in one run	334025
QIAseq Targeted DNA Pro UDI Set G (96)	Box containing unique molecularly indexed adapters and primers, enough for a total of 96 samples, for indexing up to 96 samples for targeted panel sequencing on Illumina platforms; Set G (of A, B, C, D, E, F, G, and H) required for multiplexing 768 samples in one run	334035
QIAseq Targeted DNA Pro UDI Set H (96)	Box containing unique molecularly indexed adapters and primers, enough for a total of 96 samples, for indexing up to 96 samples for targeted panel sequencing on Illumina platforms; Set H (of A, B, C, D, E, F, G, and H) required for multiplexing 768 samples in one run	334045
QIAseq Targeted DNA Pro UDI (12)	Box containing unique molecularly-indexed adapters and primers, enough for a total of 12 samples, for indexing up to 12 samples for targeted panel sequencing on Illumina platforms	333441
QIAseq Targeted DNA Pro Indices for Ion Torrent platforms		
QIAseq Targeted DNA Pro Index L (12)	Box containing molecularly-indexed adapters and primers, enough for a total of 12 samples – for indexing up to 12 samples for targeted panel sequencing on Ion Torrent platforms	333491
QIAseq Targeted DNA Pro Index L (24)	Box containing molecularly-indexed adapters and primers, enough for a total of 24 samples – for indexing up to 24 samples for targeted panel sequencing on Ion Torrent platforms	333492

Product	Contents	Cat. no.
Related products		
QIAseq Library Quant Assay Kit	Reagents for quantification of libraries prepared for Illumina or Ion Torrent platforms; assay format	333314
QIAseq Universal Normalizer Kit (96)	For 96 reactions: Reagents for the normalization of libraries using indexed library amplification primers.	180615
QIAseq Universal Normalizer Kit (24)	For 24 reactions: Reagents for the normalization of libraries using indexed library amplification primers.	180613
QIAamp DNA Mini Kit (50)	For 50 DNA preps: 50 QIAamp Mini Spin Columns, QIAGEN Proteinase K, Collection Tubes (2 mL), reagents and buffers	51304
QIAamp Circulating Nucleic Acid Kit (50)	For 50 DNA preps: QIAamp Mini Columns, Tube Extenders (20 mL), QIAGEN Proteinase K, Carrier RNA, Buffers, VacConnectors, and Collection Tubes (1.5 mL and 2 mL)	55114
QIAamp DNA FFPE Advanced UNG Kit (50)	For 50 preps: Uracil-N-glycosylase, QIAamp UCP MinElute columns, collection tubes, Deparaffinization Solution, Proteinase K, RNase A, RNase-free water and buffers	56704

QIAseq Targeted DNA Pro Panels are intended for molecular biology applications. These products are not intended for the diagnosis, prevention or treatment of a disease.

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