

## Technical Document

# QIAcube<sup>®</sup> Connect Protocol Overview

## Cleanup

Main Kit	Protocol Name	ID	Protocol File Name
DNeasy <sup>®</sup> PowerClean <sup>®</sup> Pro Cleanup Kit (50)	IRT	150	Cleanup_DNeasyPowerCleanProCleanup_FluidSamples_IRT_V1
	Standard	151	Cleanup_DNeasyPowerCleanProCleanup_FluidSamples_Standard_V1
EpiTect <sup>®</sup> Bisulfite Kit (48)	DNA from FFPE	9	Cleanup_EpiTectBisulfite_ConvertedDNA_DNAfromFFPE_V3
	Standard	8	Cleanup_EpiTectBisulfite_ConvertedDNA_Standard_V3
EpiTect Fast DNA Bisulfite Kit (50)	Standard	130	Cleanup_EpiTectFastBisulfite_ConvertedDNA_Standard_V1
	Up to 100 ng DNA	129	Cleanup_EpiTectFastBisulfite_ConvertedDNA_UpTo100ngDNA_V1
EpiTect Plus DNA Bisulfite Kit (48)	Standard	105	Cleanup_EpiTectPlusBisulfite_ConvertedDNA_Standard_V1
	Up to 100 ng DNA	106	Cleanup_EpiTectPlusBisulfite_ConvertedDNA_UpTo100ngDNA_V1
GeneRead Size Selection Kit (50)	Standard	128	Cleanup_GeneReadSizeSelect_Library_Standard_V1
	Standard	131	Cleanup_GeneReadSizeSelect_ShearedDNA_Standard_V1
GeneRead DNA Library Q (48)	Standard	145	Cleanup_GeneReadSizeSelectQ_enrichedLibrary_Standard_V1
MinElute <sup>®</sup> Gel Extraction Kit (50)	Standard	57	Cleanup_MinEluteGel_AgaroseGelSlices_Standard_V1
MinElute PCR Purification Kit (50)	Standard	17	Cleanup_MinElutePCR_AmplificationReactions_Standard_V2

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MinElute Reaction Cleanup Kit (50)	Standard	18	Cleanup_MinEluteReaction_EnzymaticReactions_Standard_V1
QIAamp® ccfDNA/RNA Kit (50)	Standard	173	Cleanup_QIAampCcfDNA-RNA_PlasmaOrSerum_Standard_V1
QIAamp Circulating Nucleic Acid Kit (50)	Standard	115	Cleanup_QIAampCirculatingNA_SerumOrPlasma_Standard_V1
QIAamp MinElute ccfDNA Mini Kit (50)	Standard	167	Cleanup_QIAampMinEluteCcfDNA_PlasmaOrSerum_Standard_V1
QIAGEN® GeneRead® QIAact Panel Cleanup Kit (48)	GR QIAact Panel Cleanup 1	170	Cleanup_GeneReadQIAactPanelCleanup_DNA_GRQIAactPanelCleanup_V1
	GR QIAact Panel Cleanup 2		
	GR QIAact Panel Cleanup 3		
QIAquick® Gel Extraction Kit (50)	Rapid (500 bp to 4 kb)	40	Cleanup_QIAquickGel_AgaroseGelSlices_Rapid(500bpTo4kb)_V2
	Room temperature gel melt	89	Cleanup_QIAquickGel_AgaroseGelSlices_RoomTemperatureGelMelt_V1
	Standard	6	Cleanup_QIAquickGel_AgaroseGelSlices_Standard_V3
	Standard	78	Cleanup_QIAquickGel_PolyacrylamideGelSlices_Standard_V1
QIAquick Nucleotide Removal Kit (50)	Standard	44	Cleanup_QIAquickNucleotide_EnzymaticReactions_Standard_V1
QIAquick PCR Purification Kit (50)	Large-volume samples	45	Cleanup_QIAquickPCR_AmplificationReactions_LargeVolumeSamples_V1
	Standard	7	Cleanup_QIAquickPCR_AmplificationReactions_Standard_V4
RNeasy® Micro Kit (50)	Standard	58	Cleanup_RNeasyMicro_RNA_Standard_V1
RNeasy MinElute Cleanup Kit (50)	Standard	49	Cleanup_RNeasyMinEluteCleanup_RNA_Standard_V1
RNeasy Mini Kit (50)	Standard	4	Cleanup_RNeasyMini_RNA_Standard_V4

## DNA

Main Kit	Protocol Name	ID	Protocol File Name
DNeasy Blood & Tissue Kit (50) QIAwave DNA Blood & Tissue Kit	Standard	27	DNA_DNeasyBloodAndTissue_AnimalBloodOrCells_Standard_V2
	Enzymatic lysis	80	DNA_DNeasyBloodAndTissue_Bacteria_Gram-positive_OrYeast_EnzymaticLysis_V1
	Bacterial DNA	59	DNA_DNeasyBloodandTissue_BacterialPellet_BacterialDNA_V1
	Standard	28	DNA_DNeasyBloodAndTissue_TissuesAndRodentTails_Standard_V1
DNeasy mericon® Food Kit (50)	Small fragments	114	DNA_DNeasymericonFood_FoodSamples_SmallFragments_V1
	Standard	113	DNA_DNeasymericonFood_FoodSamples_Standard_V1
DNeasy Plant Mini Kit (50)	Standard	46	DNA_DNeasyPlantMini_PlantCellsAndTissues_Standard_V3
DNeasy Plant Pro Kit	Standard	176	DNA_DNeasy_Plant_Pro_Standard_V1
	IRT	177	DNA_DNeasy_Plant_Pro_IRT_V2
DNeasy PowerBiofilm® Kit (50)	IRT	169	DNA_DNeasyPowerBiofilm_Biofilms_IRT_V1
	Standard	168	DNA_DNeasyPowerBiofilm_Biofilms_Standard_V1
DNeasy PowerLyzer® PowerSoil® Kit (50)	IRT	152	DNA_DNeasyPowerLyzerPowerSoil_Soil_IRT_V1
	Standard	153	DNA_DNeasyPowerLyzerPowerSoil_Soil_Standard_V1
DNeasy PowerSoil Kit (50)	IRT	156	DNA_DNeasyPowerSoil_Soil_IRT_V1
	Standard	157	DNA_DNeasyPowerSoil_Soil_Standard_V1
DNeasy PowerSoil Pro Kit (50)	IRT	174	DNA_PowerSoilPro_Soil_IRT_V2
	Standard	175	DNA_PowerSoilPro_Soil_Standard_V2
DNeasy PowerWater® Kit (50)	IRT	158	DNA_DNeasyPowerWater_FluidSamples_IRT_V1
	Standard	159	DNA_DNeasyPowerWater_FluidSamples_Standard_V1

Main Kit	Protocol Name	ID	Protocol File Name
DNeasy Ultraclean® Microbial Kit (50)	All Steps	160	DNA_DNeasyUltraCleanMicrobial_MicrobialCulture_AllSteps_V1
	Standard	161	DNA_DNeasyUltraCleanMicrobial_MicrobialCulture_Standard_V1
GeneRead DNA FFPE Kit (50)	Standard	127	DNA_GeneReadDNAFFPE_FFPE_Standard_V1
GeneRead DNA Library Q (48)	Standard	144	DNA_GeneReadDNALibQ_DNA_Standard_V2
GeneRead DNA Library I Core Kit (12)	Illumina PCR ampli. Part A	141	DNA_GeneReadLibPrepl_DNA_PCRAmpliconsPartAB
	Illumina PCR ampli. Part B		
	Illumina Standard Part A	142	DNA_GeneReadLibPrepl_DNA_StandardPartAB_V1
	Illumina Standard Part B		
	Standard Part A	143	DNA_GeneReadLibPrepl_DNA_StandardPartAB_V1
	Standard Part B		
PAXgene® Tissue DNA Kit (50)	Standard	133	DNA_PAXgeneTissueDNA_PFPETissueSections_Standard_V2
	With Bead	132	DNA_PAXgeneTissueDNA_PFTissue_withBead_V2
QIAamp DNA Blood Mini Kit (50)	Elution volume: 100 µl	12	DNA_QIAampDNABloodMini_BloodOrBodyFluid_ElutionVolume100_V3
	Elution volume: 200 µl	13	DNA_QIAampDNABloodMini_BloodOrBodyFluid_ElutionVolume200_V3
	Manual lysis	83	DNA_QIAampDNABloodMini_BloodOrBodyFluid_ManualLysis_V1
	Buccal swab lysis	31	DNA_QIAampDNABloodMini_BuccalSwab_BuccalSwabLysisAndPurification_V3
QIAamp DNA FFPE Advanced	DNA from FFPE	190	DNA_QIAampDNAFFPEAdvanced_FFPEtissueSections_DNAfromFFPE_V1
QIAamp DNA FFPE Adv. UNG	DNA from FFPE with UNG	181	DNA_QIAampDNAFFPEAdvancedUNG_FFPEtissueSections_DNAfromFFPEwithUNG_V1
QIAamp DNA FFPE Tissue Kit (50)	Standard	60	DNA_QIAampDNAFFPETissue_FFPEtissueSections_Standard_V1

Main Kit	Protocol Name	ID	Protocol File Name
QIAamp DNA Investigator Kit (50)	Standard	61	DNA_QIAampDNAInvestigator_BloodOrSaliva_Standard_V2
	Lysis	62	DNA_QIAampDNAInvestigator_ForensicCaseworkSamples_LysisAndPurification_V2
	Blood spot lysis	63	DNA_QIAampDNAInvestigator_FTAAAndGuthrieCards_BloodSpotLysisAndPurification_V2
	Swab lysis	64	DNA_QIAampDNAInvestigator_SurfaceAndBuccalSwabs_SwabLysisAndPurification_V2
QIAamp DNA Mini Kit (50)	Enzymatic lysis	79	DNA_QIAampDNAMini_Bacteria_Gram-positive_OrYeast_EnzymaticLysis_V1
	Bacterial DNA	32	DNA_QIAampDNAMini_BacterialPellet_BacterialDNA_V1
	Manual lysis	84	DNA_QIAampDNAMini_BloodOrBodyFluid_ManualLysis_V1
	Standard	85	DNA_QIAampDNAMini_BloodOrBodyFluid_Standard_V1
	PAXgene Saliva Spin	187	DNA_QIAampDNAMini_PAXgeneSaliva_PAXgeneSalivaSpin_V1
	Standard	35	DNA_QIAampDNAMini_Tissue_Standard_V1
QIAamp Fast DNA Tissue Kit (50)	Standard	140	DNA_QIAampFastDNA_Tissue_Standard_V1
QIAamp Fast DNA Stool Mini Kit (50)	Human DNA analysis	134	DNA_QIAampFastDNAStoolMini_HumanStool_HumanDNAAnalysis_V1
	Pathogen detection	135	DNA_QIAampFastDNAStoolMini_HumanStool_PathogenDetection_V1
QIAamp PowerFecal® DNA Kit	IRT	162	DNA_QIAampPowerFecalDNA_StoolBiosolid_IRT_V1
	Standard	163	DNA_QIAampPowerFecalDNA_StoolBiosolid_Standard_V1
QIAamp PowerFecal Pro DNA Kit	Standard	179	DNA_QIAampPowerFecal_Pro_Stool_Standard_V2
	IRT	180	DNA_QIAampPowerFecal_Pro_Stool_IRT_V2

Main Kit	Protocol Name	ID	Protocol File Name
QIAamp UCP DNA Micro Kit (50)	Standard	165	DNA_QIAampUCPDNAMicro_BloodOrCells_Standard_V1
	Part A	166	DNA_QIAampUCPDNAMicro_Swabs_PartAB_V1
	Part B		
	Standard	164	DNA_QIAampUCPDNAMicro_Tissue_Standard_V1
QIAprep® Spin Miniprep Kit (50)	Rapid	19	DNA_QIAprepMiniprep_UpTo2mlBCultures_Rapid_V4
QIAwave Plasmid Miniprep Kit	Plasmids 10 kb and larger	53	DNA_QIAprepMiniprep_UpTo5mlBCultures_Plasmids10kbAndLarger_V4
	Standard	10	DNA_QIAprepMiniprep_UpTo5mlBCultures_Standard_V5
	Two elution steps	20	DNA_QIAprepMiniprep_UpTo5mlBCultures_TwoElutionSteps_V4
	Without Buffer PB	11	DNA_QIAprepMiniprep_UpTo5mlBCultures_WithoutBufferPB_V5

## Protein

Main Kit	Protocol Name	ID	Protocol File Name
Ni-NTA Spin Kit (50)	Native Part A	50	Protein_NiNTASpin_InsectCells_Native_V3
	Native Part B	42	Protein_QproteomeOGlycanGlycoprotein_Serum_OGlycanPNA_V1
Ni-NTA Spin Kit (50)	Native		Protein_NiNTASpin_UpTo5mlEcoliCultures_Native_V4
Qproteome® O-Glycan Glycoprotein Kit	O-glycan ALL	41	Protein_QproteomeOGlycanGlycoprotein_Serum_OGlycanALL_V1
	O-glycan PNA	42	Protein_QproteomeOGlycanGlycoprotein_Serum_OGlycanPNA_V1
Qproteome Total Glycoprotein Kit	Total glycoprotein	43	Protein_QproteomeTotalGlycoprotein_Serum_TotalGlycoprotein_V1

## RNA

Main Kit	Protocol Name	ID	Protocol File Name
AllPrep® DNA/RNA FFPE Kit (50)	Total RNA	183	RNA_AllPrepDNARNAFFPE_FFPE_TissueSections_RNAandgDNA_V1
	Total RNA incl small RNAs		
	Genomic DNA		
AllPrep DNA/RNA Micro Kit (50)	Standard part A	117	RNA_AllPrepDNARNAMicro_AnimalTissuesAndCells_StandardPartAandB_V1
	Standard part B		
AllPrep DNA/RNA Mini Kit (50) QIAwave DNA/RNA Miniprep Kit	Large samples part A	72	RNA_AllPrepDNARNAMini_AnimalTissuesAndCells_LargeSamplesPartAandB_V3
	Large samples part B		
	Standard part A	71	RNA_AllPrepDNARNAMini_AnimalTissuesAndCells_StandardPartAandB_V3
	Standard part B		
AllPrep DNA/RNA/miRNA Universal Kit (50)	Large samples part A	124	RNA_AllprepDNARNAmiRNAUniversal_Large_PartAB_V2
	Large samples part B		
	Standard part A	123	RNA_AllprepDNARNAmiRNAUniversal_StandardPartAB_V1
	Standard part B		
AllPrep PowerViral® DNA/RNA Kit	IRT	185	RNA_AllPrepPowerViralDNARNA_ProcessedWasteWater_IRT_V1
	Standard	186	RNA_AllPrepPowerViralDNARNA_ProcessedWasteWater_Standard_V1
exoRNeasy Serum/Plasma Midi Kit (50)	Aqueous phase	139	RNA_exoRNeasy_SerumOrPlasma_AqueousPhase_V1
GeneRead Pure mRNA Kit (48)	Poly A enrichment	138	RNA_GeneRead_pure mRNA_Enrichment_V1
miRNeasy FFPE Kit (50)	DNase digest	112	RNA_miRNeasyFFPE_1-2FFPE_TissueSections_DNaseDigest_V1
miRNeasy Micro Kit (50)	Aqueous phase	121	RNA_miRNeasyMicro_AnimalTissuesAndCells_AqueousPhase_V3



Main Kit	Protocol Name	ID	Protocol File Name
miRNeasy Mini Kit (50)	Aqueous phase	29	RNA_miRNeasyMini_AnimalTissuesAndCells_AqueousPhase_V2
	Aqueous phase - miRNA	66	RNA_miRNeasyMini_AnimalTissuesAndCells_AqueousPhaseMiRNA_V2
	Aqueous phase part A	73	RNA_miRNeasyMini_AnimalTissuesAndCells_AqueousPhasePartAandB_V2
	Aqueous phase part B		
miRNeasy Serum/Plasma Advanced Kit (50)	Standard	171	RNA_miRNeasyAdvancedKit_SerumOrPlasma_Standard_V1
miRNeasy Serum/Plasma Kit (50)	Aqueous phase	122	RNA_miRNeasy_SerumOrPlasma_AqueousPhase_V3
miRNeasy Tissue/Cells Advanced Kit	Standard	182	RNA_miRNeasyTCAdvanced_TissuesAndCells_Standard_V1
PAXgene Blood miRNA Kit (50)	PAXgene Blood miRNA PartA	86	RNA_PAXgeneBloodmiRNA_Blood_PAXgeneBloodmiRNAPartAandB_V1
	PAXgene Blood miRNA PartB		
	PAXgene Blood miRNA A EXT	178	RNA_PAXgeneBloodmiRNA_Blood_PAXgeneBloodmiRNA_Extended_PartAandB_V1
	PAXgene Blood miRNA B EXT		
PAXgene Tissue RNA/miRNA Kit	PAXgene Tissue RNA Part A	188	RNA_PAXgeneTissueRNAmiRNA_PFPETissueSections_PAXgeneTissueRNAPartAandB_V1
	PAXgene Tissue RNA Part B		
	PAXgene Tissue RNA Part A	189	RNA_PAXgeneTissueRNAmiRNA_PFTissue_PAXgeneTissueRNAPartAandB_V1
	PAXgene Tissue RNA Part B		
QIAamp RNA Blood Mini Kit (50)	DNase digest	75	RNA_QIAampRNABloodMini_350ulLysedLeukocytes_DNaseDigest_V2
	Standard	74	RNA_QIAampRNABloodMini_350ulLysedLeukocytes_Standard_V2
	DNase digest	77	RNA_QIAampRNABloodMini_600ulLysedLeukocytes_DNaseDigest_V2
	Standard	76	RNA_QIAampRNABloodMini_600ulLysedLeukocytes_Standard_V2
RNeasy FFPE Kit (50)	DNase digest	110	RNA_RNeasyFFPE_1-2FFPETissueSections_DNaseDigest_V2
	Standard	54	RNA_RNeasyFFPE_1-2FFPETissueSections_Standard_V3
	DNase digest	111	RNA_RNeasyFFPE_3-4FFPETissueSections_DNaseDigest_V3
	Standard	55	RNA_RNeasyFFPE_3-8FFPETissueSections_Standard_V3

Main Kit	Protocol Name	ID	Protocol File Name
RNeasy Fibrous Tissue Mini Kit (50)	DNase digest	65	RNA_RNeasyFibrousTissue_AnimalTissues_DNaseDigest_V1
RNeasy Lipid Tissue Mini Kit (50)	Aqueous phase	30	RNA_RNeasyLipid_AnimalTissues_AqueousPhase_V3
RNeasy Micro Kit (50)	DNase digest	47	RNA_RNeasyMicro_AnimalTissuesAndCells_DNaseDigest_V2
	Standard	48	RNA_RNeasyMicro_AnimalTissuesAndCells_Standard_V1
RNeasy Mini Kit (50)	QIAshredder	2	RNA_RNeasyMini_AnimalCells_QIAshredder_V4
QIAwave RNA Mini Kit	QIAshredder DNase Digest	56	RNA_RNeasyMini_AnimalCells_QIAshredderDNaseDigest_V1
	DNase digest	21	RNA_RNeasyMini_AnimalTissuesAndCells_DNaseDigest_V3
	Large samples	24	RNA_RNeasyMini_AnimalTissuesAndCells_LargeSamples_V2
	Standard	23	RNA_RNeasyMini_AnimalTissuesAndCells_Standard_V3
	Two elution steps	25	RNA_RNeasyMini_AnimalTissuesAndCells_TwoElutionSteps_V2
RNeasy Plant Mini Kit (50)	QIAshredder	22	RNA_RNeasyPlantMini_PlantCellsAndTissues_QIAshredder_V2
RNeasy Plus Micro Kit (50)	Standard	116	RNA_RNeasyPlusMicro_AnimalTissuesAndCells_Standard_V1
RNeasy Plus Mini Kit (50)	RNeasy Plus	26	RNA_RNeasyPlusMini_AnimalTissuesAndCells_RNeasyPlus_V3
QIAwave RNA Plus Mini Kit			
RNeasy Plus Universal Mini Kit (50)	Aqueous phase	109	RNA_RNeasyPlusUniversal_AnimalTissues_AqueousPhase_V1
RNeasy PowerFecal Pro Kit (50)	IRTwithDNase	184	RNA_RNeasyPowerFecalPro_StoolAndGutSamples_IRTwithDNase_V1
RNeasy PowerMicrobiome® Kit (50)	IRT	146	RNA_RNeasyPowerMicrobiome_StoolOrBiosolid_IRT_V2
	IRT with Dnase	147	RNA_RNeasyPowerMicrobiome_StoolOrBiosolid_IRTwithDNase_V2
	Standard	148	RNA_RNeasyPowerMicrobiome_StoolOrBiosolid_Standard_V1
	Standard with DNase	149	RNA_RNeasyPowerMicrobiome_StoolOrBiosolid_StandardWithDNase_V1

Main Kit	Protocol Name	ID	Protocol File Name
RNeasy Protect Animal Blood Kit (50)	DNase digest part A	81	RNA_RNeasyProtectAnimal_AnimalBlood_DNaseDigest_V2
	DNase digest part B		
RNeasy Protect Bacteria Mini Kit (50)	Enzymatic lysis	67	RNA_RNeasyProtectBacteria_BacterialCellPellets_EnzymaticLysis_V1
	Standard	68	RNA_RNeasyProtectBacteria_Bacteriallysate_Standard_V1
RNeasy Pure mRNA Bead	Enrichment	191	RNA_RNeasyPuremRNA_PurifiedTotalRNA_Enrichment_V1
RNeasy UCP Micro Kit (50)	DNase digest	172	RNA_RNeasyUCPMicro_TissuesOrCells_DNaseDigest_V1

## Virus

Main Kit	Protocol Name	ID	Protocol File Name
QIAamp MinElute Media (50)	Manual lysis	87	Virus_QIAampMinEluteMedia_LiquidMedia_ManualLysis_V1
	Standard	88	Virus_QIAampMinEluteMedia_LiquidMedia_Standard_V1
QIAamp MinElute Virus Spin Kit (50)	Manual lysis	38	Virus_QIAampMinEluteSpin_BodyFluid_ManualLysis_V1
	Standard	16	Virus_QIAampMinEluteSpin_BodyFluid_Standard_V4
	Manual lysis	52	Virus_QIAampMinEluteSpin_LargeBodyFluidSamples_ManualLysis_V2
	Standard	51	Virus_QIAampMinEluteSpin_LargeBodyFluidSamples_Standard_V2
QIAamp Viral RNA Mini Kit (50)	Manual lysis	36	Virus_QIAampViralRNA_BodyFluid_ManualLysis_V2
	Standard	37	Virus_QIAampViralRNA_BodyFluid_Standard_V2

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