# **Quartet Data Portal User Guide for**

# **Proteomic Quality Assessment Report**

## 1. Preparation

QDP Address	https://chinese-quartet.org/
OSSUtil	https://docs.chinese-quartet.org/tools/ossutil/
Input files	The file format (suffix) should be .csv.

## 2. Log on to QDP

#### 2.1 QDP account

1) If you have a request for the reference materials, please go to <u>http://chinese-</u> <u>quartet.org/#/materials</u> to request the reference materials. The Quartet team will contact you for further confirming your information and send you a registration email.

Quartet ② Overvi	iew 😃 R	eference Materials & Multiomics D	ata 🖻	Quality Assessment 🥥 Reference I	Datasets	⑦ Docs ↔ 🐵 🕀 Lo	ogin 🙏
Reference Materials							⑦ Help
Quartet multi-omics reference materi member of a Chinese Quartet family f control and performance assessment materials are publicly available and ac improve the reference datasets and	als of DNA, RI rom Fudan Tai of each omic cessible. The to better serv	VA, proteins, and metabolites were simu zhou Cohort, including father (F7), moth s profiling. It can measure and mitigate recipients of the Reference Materials a re the community.	Itaneously m er (M8), and technical var i <b>re highly en</b>	anufactured from the same batch of cul two monozygotic twin daughters (D5 and iation, enabling more accurate data integ iccouraged to share their data with Fuda	tured immorta D6). The Qua Iration in large In University	alized B-lymphoblastoid cell line of a spe- artet Reference Materials suite is intended e cohort studies. The Quartet multi-omics through the Quartet Data Portal in orde	cific family for quality s reference for us to
					-		
Request DNA Materials	n <<<	Request RNA Materials	~~~	Request Protein Material	s   <<<	Request Metabolite Materia	ls <<<
Name of DNA Reference Material	Color	Name of RNA Reference Material	Color	Name of Protein Reference Material	Color	Name of Metabolite Reference Material	Color
FDU_Quartet_DNA_D5_20171028	•	FDU_Quartet_RNA_D5_20171028	•	FDU_Quartet_Protein_D5_20171028	•	FDU_Quartet_Metabolite_D5_20171028	•
FDU_Quartet_DNA_D6_20171028	•	FDU_Quartet_RNA_D6_20171028	•	FDU_Quartet_Protein_D6_20171028	•	FDU_Quartet_Metabolite_D6_20171028	• 0
FDU_Quartet_DNA_F7_20171028	•	FDU_Quartet_RNA_F7_20171028	•	FDU_Quartet_Protein_F7_20171028	•	FDU_Quartet_Metabolite_F7_20171028	• 🖻
FDU_Quartet_DNA_M8_20171028	•	FDU_Quartet_RNA_M8_20171028	•	FDU_Quartet_Protein_M8_20171028	•	FDU_Quartet_Metabolite_M8_20171028	• 🕞
Each vial contains approximately genomic DNA (200 ng/µL, 50 µL) ir (10 mM TRIS, 1 mM EDTA, pH 8.0)	10 μg of TE buffer	Each vial contains approximately 5 $\mu$ RNA (-520 ng/ $\mu$ L, 10 $\mu$ L), and the water. miRNA and other small retained.	ig of total RNA is in RNA are	Each vial contains approximately dried, tryptic peptide mixtures. Fo peptides are spiked in at different we as external controls.	10 μg of ur labeled ight ratios	Each vial contains dried cell extra approximately 106 cells using methan (6/1) solution. Eleven external con spiked in at known amounts.	cts fror ? ol / water trols are
				2			

2) You can download the specification file by clicking *Download the Specification.* 

3) For preview the specification, please drop down and click Protein Materials.



3) If you do not have a request for the reference materials, please send an email to **quartet@fudan.edu.cn** for a QDP account.

#### 2.2 Login

			ntation service >>> https://do	cs.chinese-quartet.org <<<		
The Qua	rtet Proiect	3			F7 M	8
Quality Control a	nd Data Integration of M	ulti-omics Profili	ng			
Request Reference Ma	terials Download MultiOmics D	ata Analyze Your O	mics Data			
Multi-omics (or molecul	ar phenomics) profiling at the gen	omic, transcriptomic, pr	oteomic, and metabolomic leve	els is the cornerstone of high-	-throughput technologies 1	for
Multi-omics (or molecul discovering biomarkers f findings, raising serious of The Quartet Project pro- characterized multiomics	ar phenomics) profiling at the gen or precision medicine. However, the concerns about the reliability of multi vides publicly accessible multi-omic reference materials and quality con	omic, transcriptomic, pr lack of quality control pr -omics studies. :s reference materials ar trol metrics pertinent to	oteomic, and metabolomic leve rocedures of multi-omics profilin nd practical tools to enhance th precision medicine study purpos	Is is the cornerstone of high- g during data generation and c e reproducibility and reliability ses can be used to measure an	-throughput technologies data analysis can lead to fai of multi-omics results. We id mitigate technical variatio	for Ise ell-
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	A Please enter your username.		
	d Please enter your password. Register Forge	t Password?	
	Login		0
			9
Cop	Data Policies Help Feedbac yright ©2016-2022 The Golden Standard of China Geno	sk me (GSCG) Consortium	

## 2.3 Select Quality Assessment > QC Apps.

			器 QC Apps	tps://do	cs.chinese-quartet.org			
		_	QC Report His	tory			_	
The Quartet	Project		土 All Your Data				F7	
Quality Control and Da	ta Integration of N	Aulti-omics Pro	filing				D5	
Request Reference Materials	Download MultiOmics	Data Analyze Yo	ur Omics Data					
Multi-omics (or molecular pheno discovering biomarkers for precisi findings, raising serious concerns The Quartet Project provides pub characterized multiomics reference enabling more accurate cross-bate	mics) profiling at the ge on medicine. However, th about the reliability of mul licly accessible multi-om e materials and quality co ch and cross-omics data i	nomic, transcriptomic le lack of quality contr tti-omics studies. ics reference materia ontrol metrics pertiner integration in increasin	, proteomic, and n of procedures of mu s and practical too t to precision medic gly large-scale and	netabolomic leve ulti-omics profilin Is to enhance th cine study purpos longitudinal studi	Is is the cornerstone of g during data generation a e reproducibility and relial ses can be used to measur es such as the Internation	high-through and data anal bility of multi re and mitiga al Human Phe	oput techn lysis can le -omics re te technic enome Pro	ologies f ead to fal sults. We al variatic ject.
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https://chinese-quartet.org/seq-flow/app-store

# 3. Run QC Report

### 3.1 Select Proteomics > Run.

Quartet O Overview A Reference	Materials & Multionics Data	🕜 Docs 💬 🕮 🍾 Yang 👗
Genomics Transcriptomics Proteomics	Metabolomics	⑦ Help
Upload Your Data [Only for Collecting Data] Intest If you want to share your data with us, pleat use this tool to upload your data.	ase QC Report for Quartet Proteomics vo.2.1 Generate the QC Report for Quartet Proteomics data.	
💿 Run 💿 Help	e 🕲 Run 💿 Help	
		0
		?

## 3.2 Click New QC Report.

Quartet ② Overview	집 Reference M	laterials "å, Multiomics	Data 🖭 (	Quality Assessment	Reference Datasets		🕐 💬 🍋 Yang 🛃				
Home / Quality Assessment / Proteomics I	Home / Quality Assessment / Proteomics Data										
Proteomics Data							New QC Report				
Report Name	Category	Report Tool	Version	Created At	Finished At	Status	Action				
QC Report with sample_metadata + sample_data	۲	quartet-protqc-report	v0.2.1	2022-05-17 20:54	2022-05-17 20:54	$\bigotimes$	Result     Download				
QC Report with sample_metadata + sample_data	۲	quartet-protqc-report	v0.2.1	2022-05-16 12:46	2022-05-16 12:46	$\odot$	Result     L     Download				
example_test1_20220516	۲	quartet-protqc-report	v0.2.1	2022-05-16 12:13	2022-05-16 12:13	$\oslash$					
example_test1	۲	quartet-protqc-report	v0.2.0	2022-05-16 00:32	2022-05-16 00:32	$\oslash$	© Result ⊥ Download				
QC Report with metadata_example + data_log2_example	۲	quartet-protqc-report	v0.1.3	2022-04-24 13:45	2022-04-24 13:45	$\odot$	Result     Download				
QC Report with sample_metadata + sample_data	۲	quartet-protqc-report	v0.1.3	2022-04-24 13:42	2022-04-24 13:42	()	Result     Show Log				
QC Report with metadata_example_1 + data_log2_example	۲	quartet-protqc-report	v0.1.1	2021-12-16 16:57	2021-12-16 16:58	$\odot$	© Result 2 Download				
						< 1 2	> 10 / page > Go to				

Quartet ② Overview	A Reference N	New (	QC Report				×
Home / Quality Assessment / Proteomics D	Data	Step1	: Choose Repor	rt Step2: Upload File(s)			
Proteomics Data							
Report Name	Category	Ū	Notices Please select appear.	the expected quality assessment tool fr	om the following list, after selecting the tool, the correspond	ing guidance me	ssage will
QC Report with sample_metadata + sample_data	۲		Category	Name	Description	Version	Github
QC Report with sample_metadata + sample_data	۲	۲	۲	QC Report for Quartet Proteomics	Generate the QC Report for Quartet Proteomics data.	v0.2.1	0
example_test1_20220516	۲						
example_test1	۲						
QC Report with metadata_example + data_log2_example	۲						
QC Report with sample_metadata + sample_data	۲						
QC Report with metadata_example_1 + data_log2_example	۲						

**3.3** Select Step1: Choose Report > QC Report for Quartet Proteomics.

- **3.4** Select Step2: Upload File(s) > QC Report for Quartet Proteomics.
  - 1) For details of the fixed format of the data file and the metadata file, please refer
  - to https://docs.chinese-quartet.org/data pipelines/proteomics/qc report/.
  - 2) To ensure the data file and the metadata file are matched, please drag or click

files simultaneously into the uploading area.

Quartet ② Overview	A Reference N	New QC Report	C
Home / Quality Assessment / Proteomics D	Data	Step1: Choose Report Step2: Upload File(s)	
Proteomics Data		1 Notices	
Report Name	Category	The data file contains gene symbols of each protein and its quantitated expression level in each sample (replicate), and the missing values are allowed. The required file format has samples in columns and a column named "rowname". The metadata file has the information of each sample in the data file. White columns assumed "assum" "sample" (PE DE E7 and M6 for	
QC Report with sample_metadata + sample_data	۲	The measurements are not set of monimator to set of sample in the care mine. Into Column shares the face is a simple (Co, Co, et and work) Quartet samples). Remember that the column "name" and column names of the data file table must be in one-to-one correspondence.	
QC Report with sample_metadata + sample_data	۲	Example Files: Data File Metadata File	
example_test1_20220516	۲		
example_test1	۲	Officie of data file to this area to unlead	
QC Report with metadata_example + data_log2_example	۲	A maximum of 2 matched files can be uploaded at a time.	
QC Report with sample_metadata + sample_data	۲	File naming conventions:	
QC Report with metadata_example_1 + data_log2_example	۲	1. A time name can contain only AS-Li characters. 2. A file name is case-sensitive. 3. A file name must be 1 to 1023 bytes in length. 4. Only uppercase and lowercase letters, underscores and dashes are supported.	

**3.5** After uploading the tested files, select *Step3: Parameters & Submit.* Fill in the required information and click *Submit.* 

Quartet @ Overview	A Reference M	New QC Report	×
Home / Quality Assessment / Proteomics D	ata	Step1: Choose Report Step2: Upload File(s) Step3: Parameters & Submit	
Proteomics Data		(i) Notices	
Report Name	Category	Quality Assessment of a Quartet proteomic profiling dataset is based on built-in biological differences of the samples and consistency wi the reference dataset at relative quantitation levels. The former is scored as an signal-to-Noise Ratio (SNR) and displayed in a PCA scatteriolt. and the latter is scored as Pearson correlation to the reference dataset and displayed in a scatteriot. In which a strict filter	with
QC Report with sample_metadata + sample_data	۲	criteria was applied (features with p.adj<0.05 in at least 4 batches were kept).	
QC Report with sample_metadata + sample_data	۲	* Report Name * Which Report? quartet-protqc-report	
example_test1_20220516	۲	* Data File * Metadata File Please select your data file  Please select your metadata file	~
example_test1	۲	Description	
QC Report with metadata_example + data_log2_example	۲	Please input the description!	
QC Report with sample_metadata + sample_data	۲		
QC Report with metadata_example_1 + data_log2_example	۲		
		Cancel Su	bmit

3.6 Then you can preview or download your QC report by clicking *Result* or *Download* respectively.

Quartet ② Overview	A Reference N	laterials 🚓 Multiomics	Data 🖭	Quality Assessment 🤅	Reference Datasets		⑦ 😳 🏷 Yang 👗				
Home / Quality Assessment / Proteomics D	Home / Quality Assessment / Proteomics Data										
Proteomics Data							New QC Report				
Report Name	Category	Report Tool	Version	Created At	Finished At	Status	Action				
Quartet Protein QC Report for test20221008	۲	quartet-protqc-report	v0.2.1	2022-10-08 10:24	2022-10-08 10:24	$\odot$	Result     Download				
QC Report with sample_metadata + sample_data	۲	quartet-protqc-report	v0.2.1	2022-05-17 20:54	2022-05-17 20:54	Ø	Result     Download				
QC Report with sample_metadata + sample_data	۲	quartet-protqc-report	v0.2.1	2022-05-16 12:46	2022-05-16 12:46	$\odot$	© Result 🕹 Download				
example_test1_20220516	۲	quartet-protqc-report	v0.2.1	2022-05-16 12:13	2022-05-16 12:13	$\odot$	Result     Download				
example_test1	۲	quartet-protqc-report	v0.2.0	2022-05-16 00:32	2022-05-16 00:32	$\odot$	Result      Download				
QC Report with metadata_example + data_log2_example	۲	quartet-protqc-report	v0.1.3	2022-04-24 13:45	2022-04-24 13:45	$\odot$	Result     Download				
QC Report with sample_metadata + sample_data	۲	quartet-protqc-report	v0.1.3	2022-04-24 13:42	2022-04-24 13:42	()	Result     Show Log				
						< 1 2	> 10 / page > Go to				