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Invitrogen™

Qubit™ 1X dsDNA High Sensitivity (HS) and Broad Range (BR) Assay Kits

Highly selective for dsDNA over RNA, the Qubit 1X dsDNA HS and BR Assay Kits offer easy-to-use formulations for the accurate quantitation of dsDNA in 100 and 500 assay formats. Lambda Standards provide sufficient material for up to 500 samples.

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Catalog Number	Quantity	Assay	Quantitation Range
Q33230	100 assays	1X dsDNA, high sensitivity	0.1 to 120 ng
Q33231	500 assays	1X dsDNA, high sensitivity	0.1 to 120 ng
Q33266	500 assays	1X dsDNA, broad range	4 to 4000 ng

Catalog number Q33230 

Price (MDL)

-

Contact Us

Quantity:	100 assays
Assay:	1X dsDNA, high sensitivity
Quantitation Range:	0.1 to 120 ng

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Experience easy, accurate, and precise quantification of dsDNA with Qubit 1X dsDNA HS (High Sensitivity) and Qubit 1X dsDNA BR (Broad Range) Assay Kits. The 1X formulation provides a ready-to-use working solution that enables simple dsDNA sample quantification on Qubit Fluorometers. These assays are highly selective for dsDNA over ssDNA, RNA, protein, and free nucleotides. Contaminants, such as salts, solvents, or detergents are well-tolerated.

Qubit 1X dsDNA HS and BR Assay Kits, designed for use with Qubit Fluorometers, are highly selective for double-stranded DNA (dsDNA) over single-stranded DNA (ssDNA), RNA, protein, and free nucleotides. All kits provide a ready-to-use working solution and DNA standards. To perform the assay, simply dilute your sample (any volume from 1–20 μL is acceptable) into the 1X working solution provided, then read the concentration using a Qubit Fluorometer.

Qubit 1X dsDNA HS Assay Kit

The Qubit dsDNA HS (High Sensitivity) Assay Kit, when used with the Qubit Fluorometer, provides an accurate and selective method for the quantitation of sensitive DNA samples. Depending on sample volume, the assay kit is designed to be accurate for initial DNA sample concentrations of 5 $\text{pg}/\mu\text{L}$ to 120 $\text{ng}/\mu\text{L}$, providing a detection range of 0.1–120 ng.

Qubit 1X dsDNA BR Assay Kit

The Qubit dsDNA BR (Broad-Range) Assay Kit, designed for use with Qubit 4 or Qubit Flex Fluorometers, provides an accurate and selective method for the quantitation of DNA samples. Depending on sample volume, the assay kit is designed to be accurate for initial DNA sample concentrations of 0.2 to 4,000 $\text{ng}/\mu\text{L}$, providing a detection range of 4–4,000 ng.

Notes

- Qubit 1X dsDNA HS can be used with Qubit 2, Qubit 3, Qubit 4, and Qubit Flex Fluorometers
- Qubit 1X dsDNA BR are designed for use with Qubit 4 and Qubit Flex Fluorometers
- Use thin-wall, clear, 0.5-mL PCR tubes (Cat. No. Q32856) for the Qubit 4 Fluorometer and 8 x 200 μL tube strips (Cat. No. Q33252) for the Qubit Flex Fluorometer

Specifications

Assay	1X dsDNA, high sensitivity
For Use With (Equipment)	Qubit 2.0, 3, 4, and Flex Fluorometers
No. of Reactions	100 Reactions
Product Line	Qubit
Quantitation Range	0.1 to 120 ng
Quantity	100 assays
Shipping Condition	Room Temperature
Unit Size	Each



Enhance your Qubit Fluorometer with the latest firmware

New Qubit 4 and Qubit Flex firmware features include importing sample IDs, renaming files before exporting, a countdown timer, and on-board troubleshooting guidance. Get the most out of your Qubit assays with these powerful new tools.

[Download the latest Qubit firmware >](#)



Have questions about this product? Ask our AI assisted search.

Frequently asked questions (FAQs)

- ▼
 What is the expiration date for Qubit 1X dsDNA High Sensitivity (HS) and Broad Range (BR) Assay Kits (Cat. Nos. Cat. Q33230, Q33231, Q33265, Q33266)?
- ▼
 What is the difference between The Qubit 1X dsDNA High Sensitivity (HS) and Broad Range (BR) Assay Kits (Cat. Nos. Q33230, Q33231, Q33265, Q33366) and Qubit dsDNA Quantification Assay Kits (Cat. Nos. Q32850, Q32851, Q32852, Q32854)?
- ▼
 How should I store my Qubit 1X dsDNA High Sensitivity (HS) and Broad Range (BR) Assay Kits (Cat. No. Q33230, Q33231, Q33265, Q33266)?

Documents & Downloads

Certificates

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Lot #	Certificate Type	Date	Catalog Number(s)
3427238	Certificate of Analysis	May 27, 2026	Q33231
3407926	Certificate of Analysis	May 15, 2026	Q33231
3417066	Certificate of Analysis	Apr 21, 2026	Q33230
3366211	Certificate of Analysis	Mar 30, 2026	Q33231
3375917	Certificate of Analysis	Mar 30, 2026	Q33231


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Safety Data Sheets



Scientific Resources

 [Technical Note: Comparison of the Accuracy and Precision of dsDNA Quantitation Using Qubit and Competitor Assays](#)


 [Technical Note: Understanding library quantification assays for next-generation sequencing applications](#)

 [Technical Note: Qubit 1X dsDNA assays simplified workflow](#)

 [Technical Note: How Strandedness is Maintained During Library Preparation of Collibri Stranded RNA Library Prep Kit](#)

 [Technical Note: Revealing the diverse functional roles of noncoding RNA](#)

 [Technical Note: Collibri Stranded RNA Library Prep Kit - Choosing Between Total RNA-Seq and mRNA-Seq](#)

 [Technical Note: Comparison of fluorescence-based quantitation with UV absorbance measurements –Qubit fluorometric quantitation vs. spectrophotometer measurements](#)

Flyers




 [Flyer: Qubit 4 Fluorometer—fast answers for precious samples](#)

 [Flyer: Qubit RNA IQ Assay](#)

 [Flyer: Qubit RNA IQ Kit \(Chinese\)](#)

Application Notes



 [Application Note: Comparison of accuracy and precision of Quant-iT and Qubit dsDNA quantification assays](#)

 [Application Note: How pipetting choice and volume affect results of nucleic acid quantitation](#)

Brochures



 [Brochure: Qubit fluorometers and assays](#)

 [Brochure: Easy choices for RNA and DNA quantification](#)




Reference Materials ^ [Qubit Quant-iT 1X dsDNA Assay Kit Green Fact Sheet](#)

Product Information

Manuals ^ [User Guide: Qubit 1X dsDNA HS Assay Kit](#) [User Guide: Qubit 1X dsDNA BR Assay](#)

Citations & References (5)

Citations & References

[Prevalence of Germline Mutations Associated With Cancer Risk in Patients With Intraductal Papillary Mucinous Neoplasms.](#) 

Authors: Skaro M, Nanda N, Gauthier C, Felsenstein M, Jiang Z, Qiu M, Shindo K, Yu J, Hutchings D, Javed AA, Beckman R, He J, Wolfgang CL, Thompson E, Hruban RH, Klein AP, Goggins M, Wood LD, Roberts NJ

Journal: Gastroenterology

PubMed ID: 30716324

Abstract

'Many patients with pancreatic adenocarcinoma carry germline mutations associated with increased risk of cancer. It is not clear whether patients with intraductal papillary mucinous neoplasms (IPMNs), which are precursors to some pancreatic cancers, also carry these mutations. We assessed the prevalence of germline mutations associated with cancer risk in patients ... [More](#)

[Unravelling the Role of Trophoblastic-Derived Extracellular Vesicles in Regulatory T Cell Differentiation.](#) 

Authors: Kovács ÁF, Fekete N, Turiák L, Ács A, Kohidai L, Buzás EI, Pállinger É

Journal: Int J Mol Sci

PubMed ID: 31337116

'Regulatory T cells (T'

[Genomic Epidemiology of SARS-CoV-2 in Guangdong Province, China.](#) 

'Coronavirus disease 2019 (COVID-19) is caused by SARS-CoV-2 infection and was first reported in central China in

Li K, Sun H, Bai R, Tang X, Liang M, Quick J, Song T, Rambaut A, Loman N, Raghwani J, Pybus OG, Ke C

Journal: Cell

PubMed ID: 32359424

[The Application of Nanopore Sequencing Technology to the Study of Dinoflagellates: A Proof of Concept Study for Rapid Sequence-Based Discrimination of Potentially Harmful Algae.](#) [↗](#)

Authors: Hatfield RG, Batista FM, Bean TP, Fonseca VG, Santos A, Turner AD, Lewis A, Dean KJ, Martinez-Urtaza J

Journal: Front Microbiol

PubMed ID: 32457722

[Integration of Genomic and Transcriptional Features in Pancreatic Cancer Reveals Increased Cell Cycle Progression in Metastases.](#) [↗](#)

Authors: Connor AA, Denroche RE, Jang GH, Lemire M, Zhang A, Chan-Seng-Yue M, Wilson G, Grant RC, Merico D, Lungu I, Bartlett JMS, Chadwick D, Liang SB, Eagles J, Mbabaali F, Miller JK, Krzyzanowski P, Armstrong H, Luo X, Jorgensen LGT, Romero JM, Bavi P, Fischer SE, Serra S, Hafezi-Bakhtiari S, Caglar D, Roehrl MHA, Cleary S, Hollingsworth MA, Petersen GM, Thayer S, Law CHL, Nanji S, Golan T, Smith AL, Borgida A, Dodd A, Hedley D, Wouters BG, O'Kane GM, Wilson JM, Zogopoulos G, Notta F, Knox JJ, Galling

Journal: Cancer Cell

PubMed ID: 30686769

epidemiology and genetic ... [More](#)

'Harmful algal blooms (HABs) are a naturally occurring global phenomena that have the potential to impact fisheries, leisure and ecosystems, as well as posing a significant hazard to animal and human health. There is significant interest in the development and application of methodologies to study all aspects of the causative ... [More](#)

We integrated clinical, genomic, and transcriptomic data from 224 primaries and 95 metastases from 289 patients to characterize progression of pancreatic ductal adenocarcinoma (PDAC). Driver gene alterations and mutational and expression-based signatures were preserved, with truncations, inversions, and translocations most conserved. Cell cycle progression (CCP) increased with sequential inactivation of ... [More](#)