bio-techne[®] / Asuragen[®]

Bringing Exosome-Powered, **High-Sensitivity ESR1** Mutation **Testing to qPCR**

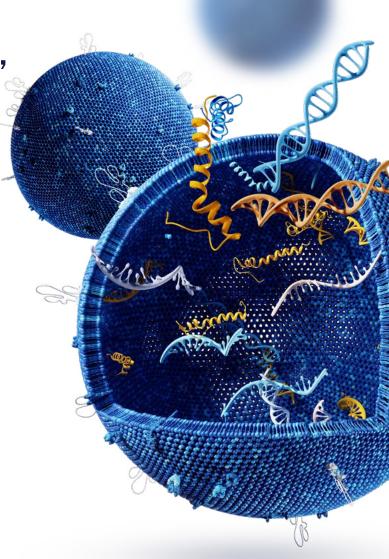
QuantideX[®] qPCR ESR1 exoMutation Kit*

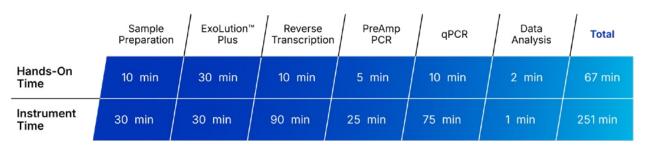
ExoLution[™] Plus cfDNA + exoRNA Isolation Kit*

The Quantidex® gPCR ESR1 exoMutation Kit is the first multi-analyte liquid biopsy assay tailored for detecting ESR1 mutations. Designed to provide highly sensitive detection in 11 of the most prevalent ESR1 variants in plasma, the kit offers a novel approach to achieving more meaningful breast cancer insights.

Streamlining cfDNA + exoRNA Co-Isolation

The QuantideX qPCR ESR1 exoMutation Kit is paired with the ExoLution[™] Plus cfDNA + exoRNA Isolation Kit, leveraging proprietary chemistries to co-isolate cfDNA + exoRNA in a single workflow. ExoLution Plus includes all necessary reagents and consumables for high-quality, multi-analyte isolation to power downstream mutation detection.





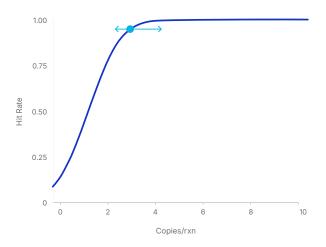
Note: Hands-on time will vary depending on the number of samples being run. Above is based on 6 samples.

Controls Included in the QuantideX qPCR ESR1 exoMutation Kit

	Controls Provided v	rovided with QuantideX qPCR ESR1 exoMutation Kit		
Within Sample Control (IC1, IC2 & IC3)	Internal Controls	An Internal Control (IC) is included in all 3 mixes (A,B & C) Because we don't require users to quantitate their qPCR input, the IC informs the user if they have added adequate sample into each testing well, removing the requirement to quantitate starting input.		
Batch Controls	Positive Control	 The Positive Control (CONP) is a DNA based control for 6 of the 11 targeted mutations. Each mix contains 2 mutations as a positive control and the internal control. Mix A: D538G & S463P Mix B: Y537X & E380Q Mix C: L536X & V422del The Positive Control demonstrates successful qPCR via positive signal in all 3 mixes across 2 mutant channels and in the internal control channel. 		
	Negative Control	 The Negative Control (CONN) is an RNA based negative control. It acts as: A batch contamination control Demonstrates a successful Reverse Transcriptase (RT) reaction within the RT-qPCR workflow via positive signal in all 3 mixes in the internal control channel. 		

Limit of Detection Demonstrates High Sensitivity

Probit analysis of synthetic DNA (0, 1, 3, 5, 10 copies/ rxn, 20 replicates of each) titrated in a background of presumed normal DNA (10,000 total copies).



Target	LOD (%VAF)*	Company A (qPCR)	Company B (dPCR)
D538G	0.082%	0.4%	0.01%
S463P	0.066%	0.08%	0.025%
Y537S	0.025%	0.1%	0.025%
Y537C	0.028%	0.4%	0.025%
Y537N	0.025%	0.2%	0.025%
Y537D	0.030%	-	-
E380Q	0.028%	1.0%	0.025%
L536R	0.028%	0.7%	0.025%
L536H	0.041%	0.8%	-
L536P	0.028%	0.9%	-
V422del	0.030%	-	- /

High Analytical Specificity Observed Across Both K, EDTA, PAXgene Tubes

Evaluation of target analytical specificity (exclusivity) was determined on plasma procured from presumed normal samples.

- Utilized ExoLution Plus cfDNA + exoRNA Isolation Kit workflow for nucleic acid isolation
- Support of multiple collection tubes provides more flexibility to accommodate nuances across laboratory operations

 Blood Collection Tube
 Specificity based on Negative Percent Agreement (NPA)

 K2EDTA
 97.1%

 PAXgene Blood ccfDNA Tube
 97.7%

Ordering Information

*ABI QuantStudio 5 Dx

Part Number	Product Description	Reactions
A01052	QuantideX [®] qPCR ESR1 ExoMutation Kit*	50



Achieve more meaningful breast cancer insights today

*For Research Use Only. Not for use in diagnostic procedures. 3000-105 v3_0225

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