

RBC-FluoGene D weak Screen Q

Real-time PCR based detection of *RHD*01W.1/2/3* (D weak type 1/2/3) & separation of *RHD*09* allele cluster (D weak type 4)



Ready Gene

SuBiTo

RBC-FluoGene Q

Software

PCR & Electrophoresis

Ready Plate

DNA-Extraction

Life Science

RBC-FluoGene D weak Screen Q:

FLEXIBLE D WEAK SCREENING BY 1-2 LIQUID MIXES ON ANY REAL-TIME PCR DEVICE

Our latest FluoGene Q series uses liQuid mixes and is independent of the inno-train devices and the FluoGene Software. The qPCR kits contain only 1-2 primer-probe-mixes, the buffer FluoMix, as well as a positive and a negative control DNA. Reagents are suitable for any real-time instrument in 96-well and 384-well format.

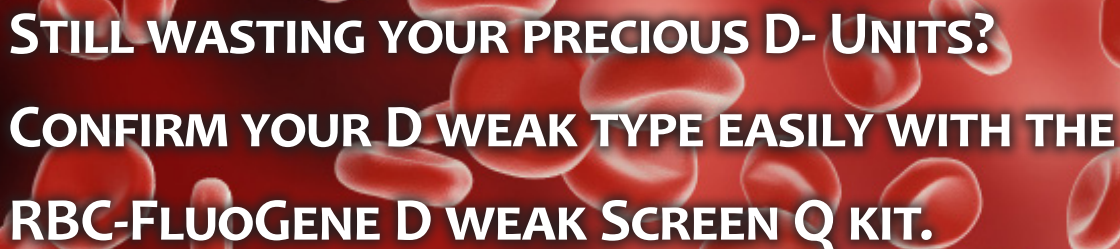
The D weak Screen Q system enables the detection of the D-positive characterized alleles *RHD*01W.1*, *RHD*01W.2* and *RHD*01W.3* in one reaction. The second mix allows in combination with the first mix a discrimination of the

*RHD*09* allele cluster enabling the clear separation of D weak type 4.0/4.1 alleles from 4.2 and 4.3. Among experts it is recently discussed whether individuals carrying D weak type 4.0 and 4.1 alleles should be characterized as D+ as donors and patients to save D- blood units [1, 2].

Using a 96-well plate a screening of 96 samples on D+ alleles is possible (with mix 1), or 48 samples in case of an additional separation of the *RHD*09* alleles (formerly known as D weak type 4). The evaluation is carried out by a Ct-value calculation of the real-time device being used.

¹Flegel WA, Denomme GA, Queenan JT, Johnson ST, Keller MA, Westhoff CM, Katz LM, Delaney M, Vassallo RR, Simon CD, Sandler SG. It's time to phase out „serologic weak D phenotype“ and resolve D types with RHD genotyping including weak D type 4. *Transfusion*. 2020 Apr;60(4):855-859. doi: 10.1111/trf.15741. Epub 2020 Mar 12. PMID: 32163599.

²Flegel WA, Peyrard T, Chiaroni J, Tournamille C, Jamet D, Pirenne F. A proposal for a rational transfusion strategy in patients of European and North African descent with weak D type 4.0 and 4.1 phenotypes. *Blood Transfus*. 2019 Mar;17(2):89-90. doi: 10.2450/2018.0059-18. Epub 2018 May 3. PMID: 31013249; PMCID: PMC6476736.



**STILL WASTING YOUR PRECIOUS D- UNITS?
CONFIRM YOUR D WEAK TYPE EASILY WITH THE
RBC-FLUOGENE D WEAK SCREEN Q KIT.**

ADVANTAGES

- Liquid qPCR for flexible screening
- *RHD*01W.1* control DNA included
- Only 1 pipetting step
- <5 minutes hands-on time
- 80 minutes from DNA to result
- Suitable on any real-time PCR instrument
- 25 years experience in RBC genotyping

RESOLUTION

- *RHD*01W.1/RHD*01W.2/RHD*01W.3*
- *RHD*09* allele cluster separation:
 - D weak type 4.0/4.1
 - D weak type 4.2
 - D weak type 4.3
 - for SNP information see product documentation

ORDERING INFORMATION

ARTICLE NO.	ARTICLE
001 093 100Q	RBC-FluoGene D weak Screen Q



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