

TTV R-GENE®

REAL TIME PCR ASSAY - ARGENE® BIOMARKER

GUIDING TRANSPLANT RISK MANAGEMENT



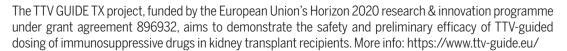


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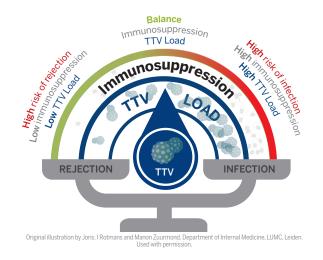
Towards tailored transplant patient management

Graft success after transplant surgery requires a **fine balance** of the immunosuppression **to prevent rejection but also opportunistic infections**^{1,2}. TTV R-GENE®, a complete ready-to-use TTV detection and quantification kit, is a **promising innovation** for transplant patient management.

The Torque Teno virus (TTV) is a non-pathogenic virus carried by nearly everyone and interestingly, research has demonstrated TTV peripheral blood copy number is associated with the grade of the immunosuppression of the host^{1,3,4}. TTV viral load, for example, has been demonstrated as being predictive for the development of infection in kidney transplant recipients^{2,3,5} and has also been associated with the prediction of organ rejection^{1,2,3}. **TTV viral load could be used to tailor therapy for transplant patients to achieve the individual balance for optimal immunosuppression^{2,3,6}.**







KEY FEATURES

- Real-time detection and quantification of all human TTV species
- Complete kit with ready-to-use reagents
- Validated on EMAG® and other extraction systems
- Validated on major real-time PCR platforms
- IVDR CE Marked
- Same procedure as the ARGENE® Transplant range

TECHNICAL INFORMATION	TTV R-GENE® - REF : 423414
Kit content: 90 tests	All included: amplification premix, internal control (IC2), 4 quantification standards (QS), sensitivity control (SC), negative control
Specimens validated	Whole blood, plasma
Extraction platforms	EMAG®, NUCLISENS® easyMAG®, MagNA Pure 96, QIASymphony SP
PCR design	5'-UTR regions (untranslated region)
Amplification platforms	ABI 7500 Fast, ABI 7500 Fast Dx, LightCycler 480 (System II), Rotor-Gene Q, QuantStudio 5, QuantStudio 5 Dx, CFX96, CFX Opus 96
Range of quantification	250 to 1.0E+09 copies/mL
Storage	-15°C / -31°C
Regulatory status	For in vitro Diagnostic Use (IVDR CE marked under the EU regulation 2017/746)

REFERENCES

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- 2. Kuczaj A et al. Torque Teno Virus (TTV)-A Potential Marker of Immunocompetence in Solid Organ Recipients. Viruses. (2023)
- 3. van Rijn AL et al. Torque teno virus load as marker of rejection and infection in solid organ transplantation A systematic review and meta-analysis. Rev Med Virol. (2023)
- 4. De Vlaminck, I. et al. Temporal Response of the Human Virome to Immunosuppression and Antiviral Therapy. Cell 155, 1178–1187 (2013)
- 5. Doberer K, et al. Torque teno virus for risk stratification of graft rejection and infection in kidney transplant recipients- Am J Transplant; 20(8):2081-2090 (2020)
- 6. Reyes NS et al. Prospective cohort study of Torque Teno Virus (TTV) viral load kinetics and the association with graft rejection in renal transplant patients. J Clin Virol. (2023)