

Genome Sequencer FLX System

GS FLX Titanium Cluster

The **GS FLX Titanium cluster** is a Roche-certified plug-and-play computing solution for the data processing and analysis needs of the GS FLX Titanium series. This pre-configured computer setup is a convenient, affordable, and time-saving option that ensures optimal sequencing results with the GS FLX Titanium series reagents.

- Rely on a computing solution that is specifically designed, optimized, and certified for use with the GS FLX System.
- Get peace of mind with Roche's three-year service package for hardware and software support – provided with each cluster.
- Improve time to result with faster data processing.

Choose the GS FLX Titanium cluster and benefit from:

- Onsite installation and testing of all GS FLX System software, including image processing, data analysis, diagnostic, cluster management, and operation tools.
- A certified configuration developed in conjunction with the GS FLX Titanium series software. Standardization simplifies support and maintenance requirements.
- Proven performance metrics for the GS FLX Titanium series.
- True plug-and-play installation: no additional hardware or software is required (see plug-and-play installation overview, next page).



Save time with our straightforward ordering and installation process.

- The GS FLX Titanium cluster is ordered through your local Roche representative.
- The cluster is delivered worldwide through Roche's global logistics network, easing shipping and customs issues.
- A Roche service engineer installs and sets up the cluster, ensuring proper functionality.

Worldwide Delivery and Plug-and-Play Installation

Standardized configuration ensures fast delivery



Your local Roche representative will deliver a site preparation guide that will address the physical, environmental, and power requirements for the GS FLX Titanium cluster.



A fully functional and pre-configured GS FLX Titanium cluster can be delivered worldwide, ready for integration with the GS FLX System.



Simple connectivity to local power and the GS FLX System



All internal network and power cabling is pre-configured before shipping. Only two external connections are required for installation: Power and Networking to either the GS FLX Instrument or your internal network.



Pre-configured GS FLX System software means no downtime



Quick and easy installation is ensured: all GS FLX System software is pre-installed and the GS FLX Titanium cluster is pre-configured to network seamlessly with the GS FLX System, providing a true plug-and-play solution.

Performance

- GS FLX Titanium series sequencing run data can be processed in 6-8 hours.
- The GS FLX Titanium cluster software and hardware are optimized for the processing demands of the ultra-high-throughput GS FLX Titanium series.

Full Compatibility with the GS FLX System

- The GS FLX Titanium cluster configuration is identical to that used in development at 454 Life Sciences.
- The cluster is fully compatible with the Genome Sequencer FLX System, including the GS FLX Titanium series and GS FLX Standard series.
- Standardization simplifies all operation, upgrade, and maintenance procedures.

Global Support

- The GS FLX Titanium cluster includes a Three-Year Service and Support package.
- All GS FLX Titanium cluster software (including GS FLX System software and cluster operation components) is supported remotely via e-mail and telephone.
- In the unlikely case that it would be necessary, a Disaster Recovery System is in place to return the GS FLX Titanium cluster to its original factory-installed status.
- Your local Roche technical service support specialist will be your primary contact for all technical issues.

GS FLX Titanium Data Processing Workflow

GS FLX Instrument



Signal Data
(CWF files)



GS FLX Titanium Cluster



Base
Calls



Standard Computer



Sequencing Run and Image Processing

The GS FLX performs sequencing and basic image processing.

Signal Processing and Base Calling




The GS FLX Titanium cluster converts signal data into base calls.

Analysis (Assembly, Mapping, etc.)

Data analysis is performed on an external computer.

Data can be transferred directly from one component to another, or via a local network. For data backup, an external archival storage system is strongly recommended. Since the GS FLX Titanium cluster is not required for analysis, existing analysis hardware and workflows can be used with the GS FLX Titanium series. While the primary function of the GS FLX Titanium cluster is to generate base calls, it can also support data analysis.

Certifications and Cluster Testing

- The cluster configuration is certified by TÜV for safety and installation compliance worldwide.
 - Certifications include: CE, WEEE, RoHs
- 
- 
- 
- Each cluster final assembly is subjected to two weeks of extensive testing prior to delivery to ensure proper functionality of the combined hardware and software components.

Certified GS FLX Titanium Cluster Provider: PSSC Labs

The cluster is provided per Roche by PSSC Labs.

- With more than 20 years in the high-performance cluster business, PSSC Labs is recognized as a premier computing solution provider.
- PSSC Labs has delivered more than 600 High Performance Clusters (similar to the GS FLX Titanium cluster) to academic, government, and commercial researchers.
- For more information, visit www.psscslabs.com/roche/



For detailed information, references, multimedia presentations, and more, visit www.genome-sequencing.com

For additional information, contact your local Roche representative.

NOTICE TO PURCHASER – RESTRICTION ON USE: Purchaser is only authorized to use the Genome Sequencer Instrument with PicoTiterPlate devices supplied by 454 Life Sciences Corporation and in conformity with the operating procedures contained in the Operator's Manual.

For life science research only. Not for use in diagnostic procedures.

454, 454 LIFE SCIENCES, 454 SEQUENCING, and PICOTITERPLATE are trademarks of 454 Life Sciences Corporation, Branford, CT, USA, a Roche company. GS FLX TITANIUM is a trademark of Roche. Other brands or product names are trademarks of their respective holders.

Published by

Roche Diagnostics GmbH
Roche Applied Science
68298 Mannheim
Germany

© 2008 Roche Diagnostics GmbH.
All rights reserved.

05364299001 ① 0708