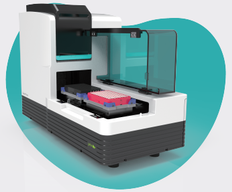
## About Gator Bio

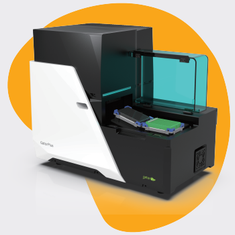
Gator Bio develops, manufactures, and markets life science analytical technologies including Gator® systems based on the next-gen Biolayer Interferometry. The company was founded by the industry veterans Dr. Hong Tan and Mr. Bob Zuk. Previously, Dr. Hong Tan founded ForteBio® and led the invention of Octet® BLI technology.

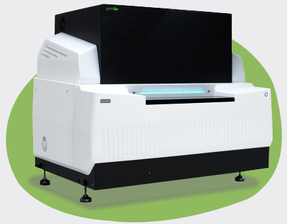
Gator Bio together with its sister companies have more than 600 employees worldwide and sell both diagnostics and research-use-only products. The company is ISO13485 certified. Gator® systems have been adopted by scientists and researchers in North America, Asia Pacific, Europe, and Middle East.

The investors of the company include Legend Capital, Matrix Partners, Maison Capital, Qiming Venture, HillHouse, Sequoia Capital, Kaiser Permanente, and Sinovation etc.

Gator Bio, Inc.
2455 Faber Place
Palo Alto, CA 94303, USA
+1 855 208 0743
info@gatorbio.com





### General Specifications

| | Gator® Prime | Gator® Plus | Gator® Pro |
|---|---|---|---|
| Detection Technology | | Next-gen Biolayer Interferometry | |
| Simultaneous Reads | 8 | 8 | 8, 16, 24, and 32 |
| Spectrometers | 8 | 8 | 32 |
| Acquisition Rate | | 2, 5, and 10 Hz | |
| Temperature Control | | Ambient plus 4°C to 40°C | |
| Dimension (HxWxD) and Weight | 47 x 31 x 67 cm, 35 kg | 68 x 44 x 73 cm, 55 kg | 84 x 114 x 77 cm, 220 kg |
| Automation Compatible | No | No | Yes |

### Performance Specifications

| | Gator® Prime | Gator® Plus | Gator® Pro |
|---|---|---|---|
| Sample Types | | Proteins, antibodies, peptides, nucleic acids, liposomes, viruses, small molecules | |
| Maximum Sample Capacity | 168 | 456 | 1152 |
| Types of Analysis | | Yes/no binding, quantitation, kinetics, affinity, off-rate ranking, epitope binning | |
| Minimum Sample Volume | 100 µL | 40 µL | 40 µL |
| Baseline Noise (RMS) | | ≤ 4 pm | |
| Baseline Drift | ≤ 0.12 nm/hour | ≤ 0.1 nm/hour | ≤ 0.1 nm/hour |
| Associate Rate $k_{on}$ | | $10^{1}$ to $10^{7}$ $M^{-1}$ $s^{-1}$ | |
| Dissociation Rate $k_{off}$ | | $10^{-6}$ to $10^{-1}$ $s^{-1}$ | |
| Affinity Constant $K_D$ | | 10 pM to 1 mM | |
| Binning Capacity | 12x12 | 16x16 | 32x32 |

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# Gator® Label-Free Analysis Systems

The Next-Gen Biolayer Interferometry

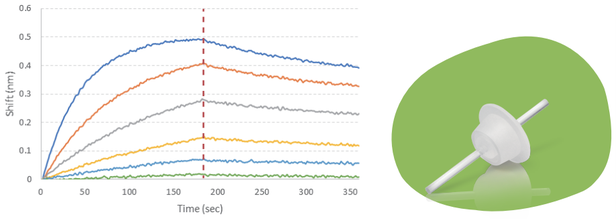
GatorBio.com

## Biolayer Interferometry (BLI)

Gator® systems are label-free analysis instruments based on next-gen biolayer interferometry (BLI) technology. BLI detects biomolecular interactions by immersing biosensing probes in samples.

Gator® probes are micro glass rods with the distal ends coated with proprietary optical layers and surface chemistries.

The association or disassociation of biomolecules causes a phase-shift of the optical interference pattern generated from a probe's sensing surface. Continuous measurements of the phase-shift yield binding curves.




*The sensorgram shows the real-time association and disassociation curves for a binding kinetics experiment using a Gator® system.*

The ease of use, versatility, flexibility, and throughput of Gator® systems have enabled many applications in therapeutic development, manufacturing, and life science research.

## A Powerful Tool for Discovery, Development, and Manufacturing

The next-gen BLI demonstrates higher sensitivity and more robust performance than the other commercial BLI products. It also supports wider range of applications, from drug discovery to therapeutics manufacturing.

**Biotherapeutics**
- Antibody titer measurements
- Kinetics analysis
- Epitope binning
- Process development
- Manufacturing QC
- Pharmacokinetics

**Gene Therapy**
- AAV quantitation & kinetics
- Receptor interaction
- Gene expression
- Neutralizing/ Total Antibody Detection

**Drug Discovery & Development**
- Protein - small molecule interaction
- Peptide binding analysis

**Life Science Research**
- Protein - protein interaction
- Receptor - ligand binding
- Assay development and optimization

## A User-Friendly Label-Free Technology

Gator® Systems consist of instruments, probes, and integrated data acquisition and analysis software package.

- Simple and fast assay setup
- Automated quantitation
- Quantitation, kinetics, and regeneration in one run
- Kinetics and affinity analysis
- Real-time binding curves
- Epitope binning
- Assay template generation
- Report generation

## Gator® Software for GMP and GLP

Gator® Part11 Software enables users in GMP or GLP environments to comply with FDA 21 CFR Part 11 regulations. All data acquired with the Part11 Software is time-stamped and traceable. Features such as account management, enhanced audit trails, and recorded user sessions are in compliance with FDA guidance.

## A Full Suite of Applications

| Gator® Probe | Function | Application | Dynamic Range | Regeneration |
|---|---|---|---|---|
| ProA | IgG titer | Q | 0.02 – 2000 µg/mL | Yes |
| ProG | IgG titer | Q | 0.02 – 2000 µg/mL | Yes |
| ProL | Kappa light chain titer | Q | 0.02 – 2000 µg/mL | Yes |
| SA | Biotinylated and Avi-tagged molecules | K/EP | Protein dependent | No |
| SA XT | Biotinylated proteins and large molecules | K | Protein dependent | No |
| Flex SA Kit | Reusable SA kit | K | Protein dependent | Yes |
| SMAP | Measurement of small molecules, peptides (<150 Da) | K | Protein dependent | No |
| HFC | Human IgG characterization | Q/K/QKR/EP | 0.05 – 300 µg/mL | Yes |
| HFCII | Advanced human IgG characterization | Q/K/QKR/EP | 0.3 – 6000 µg/mL | Yes |
| MFC | Mouse IgG characterization | Q/K/QKR/EP | 0.02 – 2000 µg/mL | Yes |
| Anti-FAB | F(ab), F(ab')2 | Q/K/QKR/EP | 0.3 – 3000 µg/mL | Yes |
| APS | Direct adsorption | K | Protein dependent | No |
| AR | Amine coupling immobilization | K/EP | Protein dependent | No |
| His | His-tagged proteins | Q/K/QKR/EP | Protein dependent | Yes |
| Ni-NTA Kit | His-tagged proteins through Ni-NTA | Q/K/QKR/EP | 0.25 – 1000 µg/mL | Yes |
| AAVX | Direct binding titer (AAV1-10) | Q/K | $1x10^{9}$ – $1x10^{13}$ vp/mL | Yes |
| AAV9 | Direct binding titer (AAV9) | Q/K | $3x10^{9}$ – $1x10^{13}$ vp/mL | Yes |
| HS AAV Kit | High sensitivity titer (AAV1-8, 10) | Q | $1x10^{7}$- $5x10^{10}$ vp/mL | No |
| HS AAV9 Kit | High sensitivity titer (AAV9) | Q | $1x10^{7}$ - $1x10^{9}$ vp/mL | No |
| AAV Ratio Kit | Empty vs Full Ratio Determination | Ratio | 0-100% full | No |
| Anti-Rabbit | Rabbit-IgG | Q/K | 1 - 500 µg/mL | Yes |
| Anti-FLAG | FLAG-tagged proteins | K | Protein dependent | No |
| SARS-RBD | RBD antibodies and receptors | Q | Protein dependent | Yes |