

**Index Methodology Guide for the
NYSE FactSet Global Genomics and
Immuno Biopharma Index™**

Version 1.0 – May 9, 2019

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Version History

Version 1.0 (Effective May 9, 2019)

The methodology document covers the newly-launched NYSE® FactSet® Global Genomics and Immuno Biopharma Index™ (NYFSGIB).

1. Index Summary

Factsheet	
Full Name	NYSE [®] FactSet [®] Global Genomics and Immuno Biopharma Index™
Index Tickers	Price Return (USD): NYFSGIB Gross Total Return (USD): NYFSGIBTNet Total Return (USD): NYFSGIBN
Index Description	The NYSE [®] FactSet [®] Global Genomics and Immuno Biopharma Index™ is a rules-based equity benchmark designed to track the performance of globally listed companies that could benefit from the long-term growth and innovation in genomics, immunology, and bioengineering. Index compositions and corporate actions, including Rebalance information, can be accessed from ICE Data Services at https://www.theice.com/market-data/indices/equity-indices/products .
Eligible Stocks	Common stocks, ADRs, or GDRs of selected companies involved in the Genomics and Immuno Biopharmaceuticals industry that are listed for trading and electronically quoted on a major stock market that is accessible by foreign investors.
Number of Constituents	50 at annual Reconstitution
Weighting	Modified float-adjusted, market capitalization weighted
Index Reconstitutions	The Index is reconstituted annually after the close of the third Friday in December each year (“Reconstitution Date”). If the Reconstitution Date is a holiday, it will occur on the next Index Business Day.
Index Rebalances	Index constituent weights are rebalanced semi-annually after the close of the third Friday in June and December each year (“Rebalance Date”). If the Rebalance Date is a holiday, it will occur on the next Index Business Day.
Calculation Frequency	Price and Total Return: Every 15 seconds between 09:30 & 19:00 ET
Base Date	December 19, 2014
Base Level	1000.00
Historic Data Available Since	December 19, 2014
Bloomberg Code	NYFSGIB <INDEX> / NYFSGIBT <INDEX> / NYFSGIBN <INDEX>
Reuters Code	.NYFSGIB / .NYFSGIBT / .NYFSGIBN
Launch Date	May 9, 2019
Website	https://www.theice.com/market-data/indices

2. Governance

Index Sponsor & Administrator

ICE Data Indices, LLC (“IDI”) is the Index Sponsor and the Index Administrator.

The NYSE[®] FactSet[®] Global Genomics and Immuno Biopharma Index[™] is calculated and maintained by IDI based on a methodology developed by IDI, and which uses industry classifications developed and maintained by FactSet Research Systems Inc. (“FactSet”).

IDI is responsible for the day-to-day management of the Index in accordance with its rules, including retaining primary responsibility for all aspects of the Index determination process, including implementing appropriate governance and oversight, as required under the International Organization of Securities Commission’s Principles for Financial Benchmarks (the IOSCO Principles). The IDI Governance Committee is responsible for helping to ensure IDI’s overall compliance with the IOSCO Principles, by performing the Oversight Function which includes overseeing the Index development, design, issuance and operation of the Indices, as well as reviewing the control framework. IDI is also responsible for decisions regarding the interpretation of these rules and the Governance Committee is responsible for reviewing all rulebook modifications with respect to the Index to ensure that they are made objectively, without bias, and in accordance with applicable law and regulation and IDI’s policies and procedures.

Consequently, all IDI and the Governance Committee discussions and decisions are confidential until released to the public.

Cases not covered in rules

In cases which are not expressly covered in these rules, operational adjustments will take place along the lines of the aim of the Index. Operational adjustments may also take place if, in the opinion of the Index Administrator, it is desirable to do so to maintain a fair and orderly market in derivatives on this Index and/or this is in the best interests of the investors in products based on the Index and/or the proper functioning of the markets.

Any such modifications described under this section or exercise of Expert Judgment will also be governed by any applicable policies, procedures and Guidelines in place by IDI at such time.

Rule book changes

The Governance Committee reviews all rule book modifications and Index changes to ensure that they are made objectively, without bias and in accordance with applicable law and regulation and IDI’s policies and procedures. These rules may be supplemented, amended in whole or in part, revised or withdrawn at any time in accordance with applicable law and regulation and IDI applicable policies and procedures. Supplements, amendments, revisions and withdrawals may also lead to changes in the way the Index is compiled or calculated or affect the Index in another way.

Limitations of the Index

The Index may be subject to potential limitations, such as a decline in the pool of available eligible securities due to advancements in technology, shifts in demographic spending or the economy, changes in regulation or accounting rules, consolidation in certain sectors or industries, or other factors. Other limitations may include the ability of the Benchmark to operate in illiquid or fragmented markets.

By design, this Index is focused on representing the Genomics and Immuno Biopharmaceuticals industry and is therefore expected to be heavily weighted towards a few sectors. Should the underlying markets transform due to consolidation and technology transformation, the companies included in the Index will adjust and change accordingly.

IDI seeks to manage and mitigate these limitations through the Benchmark design, review and oversight process.

3. Index Description

The NYSE[®] FactSet[®] Global Genomics and Immuno Biopharma Index[™] is a rules-based equity benchmark designed to track the performance of globally listed companies that could benefit from the long-term growth and innovation in genomics, immunology, and bioengineering.

The NYSE[®] FactSet[®] Global Genomics and Immuno Biopharma Index[™] is compiled utilizing a methodology, RBICS (Revere Business Industry Classification System) classifications, and FactSet Supply Chain Relationships licensed from FactSet.

4. Publication

4.1 The opening, intraday and closing or daily publication of Index values.

Opening

The first Index level is calculated and published at 09:30 ET, when the U.S. equity markets open for their regular trading session. The calculation of that level utilizes the most updated prices available to IDI at that moment from any exchange, including the official primary exchange. In the case of constituents that have a non-traded, halted or suspended status, or have not opened for the current day, the previous day's reference prices (primary exchange official closes) or estimated prices (for IPOs, buyouts and swap offers) are used.

Dissemination frequency

The level of the price return and total return Indices is published every 15 seconds to the ICE Data Global Index Feed (ICE Data GIF). The calculated Index levels incorporate, as available to IDI, the latest traded price of each constituent from within the regular trading session of their respective market. If the last traded price of a constituent is not available to IDI, the previous day's reference price (typically primary exchange official closes) is used. For U.S. equities, intraday calculations of the Index would incorporate trades on a consolidated level, from all exchanges including those not designated as the official primary exchange. For international equities, intraday calculations of the Index would solely incorporate trades made on the security's primary exchange.

The Index is calculated from 09:30 until 19:00 ET on those days specified as Index Business Days. Index Business Days will be classified as days on which the U.S. Equity Markets (e.g. NYSE, NASDAQ and NYSE American) are open for a full or partial day of trading.

Closing level

The closing level is the last level disseminated on the trading day and uses the official close prices from the primary listing market for each constituent. For constituents that have non-traded, halted or suspended status, or have not opened for the current day, the previous day's reference prices (primary exchange official closes) or estimated prices (for IPOs, buyouts and swap offers) are used instead. The currency rate that will be utilized in the calculation of the closing level is the current day's London 4:00 PM WM/Reuters Spot FX rate, or if not available, the prior day's relevant London 4:00 PM WM/Reuters Spot FX rate. In the case of exceptional market conditions, the Index Administrator reserves the right to utilize other prices in the calculation of the official closing level, as indicated below in Section 4.2.

Sources of Data

The Consolidated Tape (CTS/UTDF) is the primary market data source for U.S. equity real-time and closing prices. The ICE Data Services Consolidated Feed is the primary market data source utilized for retrieving real-time and closing prices for international (ex-U.S.) equities and real-time spot currencies, all for use in Index calculations. Closing spot currencies utilized for constituent conversion or Index level conversion are sourced from WM/Reuters Spot FX fixings, specifically the 4 PM London fixing. Additional sources of data less commonly used include market data vendors, company announcements, exchange announcements and other official sources.

4.2 Exceptional market conditions and corrections

The Index Administrator retains the right to delay the publication of the opening level of the Index. Furthermore, the Index Administrator retains the right to suspend the publication of the level of the Index if it believes that circumstances prevent the proper calculation of the Index.

If Index constituent prices are cancelled, the Index will not be recalculated unless the Index Administrator decides otherwise.

Reasonable efforts are made to ensure the correctness and validity of data used in real-time Index calculations. Where errors have occurred in the determination or calculation of an Index closing value, the decision to make a restatement will be assessed on a case by case basis. Such decision will take account of the significance, impact, age and scale of the error.

There is the possibility of an exchange or market-wide event resulting in the normal closing auction not going off or official closing prices not being available. In those situations, the Index will take guidance from the respective exchange(s) and address on an event-by-event basis. Exchange or market-wide events include, but are not limited to, the following:

- Volatility Halts
 - LULD (Limit Up / Limit Down)
 - Market Wide Circuit Breaker
- Technological Problems / Failures
- Natural Disaster or Other BCP-Related Event

4.3 Changes to the Index

Announcement policy

Changes to the Index methodology will be announced by an Index announcement which will be distributed by IDI via www.theice.com/market-data/indices/equity-indices and ICE Data Services at www.theice.com/market-data/indices/equity-indices/products.

As a general rule, the announcement periods that are mentioned below will be applied. However, Emergency actions, including urgently required corporate action treatments, often resulting from late notices from the relevant company or exchange, may require the Index Administrator to deviate from the standard timing.

Inclusion of new constituents

The inclusion of new companies in the Index will typically only occur during the annual Reconstitutions, although there could be exceptions based on a specific corporate action affecting a current constituent. The inclusion of the new company will be announced at least two trading days before the effective date of the actual inclusion, although as it relates to a scheduled Reconstitution the announcement would occur after the close of trading on the Monday preceding the second Friday of the relevant month. For example, for the Reconstitution effective for market open on December 23, 2019, the announcement would occur after the close on December 9, 2019.

Removal of Constituents

Components would be removed from the Index as a result of periodic corporate actions as well as the results of the annual Reconstitution and semi-annual Rebalance. All removals will be announced at least one trading day before the effective date of the removal, although as it relates to a scheduled Reconstitution or Rebalance the announcement would occur after the close of trading on the Monday preceding the second Friday of the relevant month. It should be noted that in the case of mergers and acquisitions, every effort will be made to remove the company at some reasonable time ahead of the suspension in trading in the acquired company. There will be certain situations and corporate actions that would require the removal of a company that has already ceased trading. In those cases, the company will be removed from the Index at its last traded price, or, at the discretion of the Index Administrator, at a derived price that most accurately represents its post-suspension value.

Corporate actions

In case of an event that could affect one or more constituents, the Index Administrator will inform the market about the intended treatment of the event in the Index shortly after the firm details have become available and have been confirmed. When possible, the corporate action will be announced, even if not all information is known, at least one trading day before the effective date of the action. Once the corporate action has been effectuated, the Index Administrator will confirm the changes in a separate announcement.

Reconstitution/Rebalance: Publication of Results

The new composition of the Index, including the companies to be a part of the Index and their corresponding new Index shares, will be announced after the close of trading on the Monday preceding the second Friday of the relevant month and can be accessed from ICE Data Services at www.theice.com/market-data/indices/equity-indices/products.

Index Reviews

IDI shall undertake regular reviews of the Index, the methodology and the market which it represents to ensure it continues to meet the Index objective, in accordance with IDI's policies and procedures. Should changes to the Index be required or proposed, this will be communicated to stakeholders in accordance with IDI's policies and procedures.

Consultations

IDI may from time to time consult with stakeholders on proposed material changes that affect the Index in accordance with IDI's policies and procedures https://www.theice.com/publicdocs/Consultation_Policy.pdf. Such proposals shall be published to stakeholders and all feedback received will be considered by the Index Administrator. Any resulting changes to the Index will be announced prior to it being implemented.

Rule changes

Barring exceptional circumstances, the Index Administrator shall announce Rule changes to stakeholders prior to implementation. The announcement will include the date on which the changes shall take effect.

5. Calculation

5.1 Calculation of the Index

The Index is calculated on a Price Return, Gross Total Return, and Net Total Return basis in USD. The current Index level is calculated by dividing the current modified Index market capitalization by the Index divisor. The divisor was set on the Index Inception Date (i.e. the backtest start date) to yield an Index level of 1000.00. The divisor is updated as a result of corporate actions and composition changes.

A full description of the formulae used to calculate Index values can be found in the “NYSE Indices - Guide to Index Mathematics” at <https://www.theice.com/market-data/indices/equity-indices/methodologies>.

6. Index Reconstitutions and Rebalances

6.1 General aim of Reconstitutions and Rebalances and frequency

General aim of the periodical Reconstitution or Rebalance

The general aim of the semi-annual Rebalance and annual Reconstitution of the Index is to ensure that the selection and weightings of the constituents continue to reflect, as closely as possible, the Index's objective of identifying, selecting and tracking the performance of stocks from the Genomics and Immuno Biopharmaceuticals industry, based on sector classifications provided by FactSet. The Index Administrator reserves the right to, at any time, change the number of stocks comprising the Index by adding or deleting one or more stocks, or replacing one or more stocks contained in the Index with one or more substitute stocks of its choice, if in the Index Administrator's discretion such addition, deletion or substitution is necessary or appropriate to maintain the quality and/or character of the Index. Such Index constituent changes are reviewed by the Governance Committee to ensure that they are made objectively, without bias and in accordance with applicable law and regulation and IDI's policies and procedures.

Frequency

Changes to the Index composition and constituent weights may occur during a scheduled Reconstitution and Rebalance and as a result of the removal of an Index constituent. During the semi-annual Rebalances, components may be removed from the Index if they do not meet the market capitalization and liquidity criteria as laid out in Section 6.2. Components will not be added to the Index during the semi-annual Rebalances.

The Index is reconstituted annually after the close of the third Friday in December each year ("Reconstitution Date"). Index constituent weights are rebalanced semi-annually after the close of the third Friday in June and December each year ("Rebalance Date"). If the Reconstitution Date or Rebalance Date is a holiday, it will occur on the next Index Business Day.

The data used to reconstitute and rebalance the Index is as of the close of business on the first Friday in June and December ("Reference Date").

6.2 Index universe and selection principle

Constituent Selection and Weighting Schema

The following rules are used for the initial constituent selection and ongoing Reconstitutions.

1. Starting universe: Common stocks, ADRs, or GDRs of companies that are primarily listed for trading and electronically quoted on a major stock market that is accessible by foreign investors in one of the following countries:

Eligible Countries		
Australia	Hungary	Poland
Austria	Iceland	Portugal
Belgium	India	Singapore
Brazil	Indonesia	South Africa
Canada	Ireland	Republic of Korea (South Korea)
Chile	Israel	Spain
Colombia	Italy	Sweden
Czech Republic	Japan	Switzerland
Denmark	Malaysia	Taiwan
Egypt	Mexico	Thailand
Finland	Netherlands	Turkey
France	New Zealand	United Kingdom
Germany	Norway	United States
Greece	Peru	
Hong Kong	Philippines	

- Securities must have a minimum float-adjusted market capitalization of \$300 million or greater, and a three-month Average Daily Trading Value (ADTV) of \$2 million or greater on the Reference Date.

Existing constituents may remain in the Index if they have a minimum float-adjusted market capitalization of \$225 million or greater, and a three-month ADTV of \$1.5 million or greater on the Reference Date.

- Select companies that are classified as deriving 50% or more revenues from one of the following RBICS Focus Level 6 industries classifications provided by FactSet, which are considered to be Genomics and Immuno Biopharmaceutical products and technologies developers. This list of industries will be evaluated periodically and may change over time as the Genomics and Immuno Biopharmaceutical industry evolves.

Eligible RBICS Level 6 Industries	
Active and Intermediate Chemicals OEMs	Immunoassays Clinical Diagnostics Devices
Analytical and Bioanalytical Services	Intermediary Metabolism Biopharmaceuticals
Autoimmune Disorders Biopharmaceuticals	Liver Disorders Biopharmaceuticals
Bacterial Vaccines	Lower Respiratory Biopharmaceuticals
Bioanalytical Consumables	Multi-Type Diagnostic Patient Care
Biological Specimen Storage	Multi-Type Drug Discovery Services
Biologics OEMs	Musculoskeletal System Biopharmaceuticals
Breast Cancer Biopharmaceuticals	Narrow Spectrum Antibacterial Agents
Broad Spectrum Antibacterial Agents	Neurology Biopharmaceuticals
Cardiovascular System Biopharmaceuticals	Ophthalmology Biopharmaceuticals
Clinical and Preclinical Limited Service CROs	Other Bacterial Infections Biopharmaceuticals
Clinical Limited Service CROs	Other Biopharmaceutical OEMs
Dermatology Biopharmaceuticals	Other Chemistry Clinical Diagnostics Devices
Diversified Bioanalytical Instruments	Other Drug Delivery Devices
Diversified Contract Manufacturing Organizations	Other Endocrinology/Metabolism Biopharmaceuticals
Diversified Contract Research Organizations	Other Immunology Biopharmaceuticals
Diversified Development and Manufacturing	Other Oncology Biopharmaceuticals

Services	
Drug Delivery Technology Development	Other Respiratory System Biopharmaceuticals
Drug Development Software	Point of Care Testing Kits
Drug Lead Discovery, Validation and Optimization	Preclinical Limited Service CROs
Drug Target Discovery and Validation	Scientific Analytical Instruments
Full Service CROs	Specialized Clinical Laboratories
General Clinical Diagnostics Devices	Surgical Biopharmaceuticals
General Infectious Diseases Biopharmaceuticals	Transplantation Biopharmaceuticals
Genetic Molecular Diagnostic Test Kits	Type 1 Diabetes Biopharmaceuticals
Heart Disorders Biopharmaceuticals	Type 2 Diabetes Biopharmaceuticals
Hematological Oncology Biopharmaceuticals	Urology Biopharmaceuticals
Hematology Biopharmaceuticals	Vascular Disorders Biopharmaceuticals
Home Testing Clinical Diagnostics Devices	Viral Biopharmaceuticals
Immune Deficiency Disorders Biopharmaceuticals	Diversified Biopharmaceuticals

4. Using the FactSet Supply Chain Relationships database, which captures a list of Relationship Keywords (compiled and maintained by FactSet) characterizing the nature of each company relationship, count the number of relationships, for each company identified in Step 3, that mentions keywords related to Genomics and Immuno Biopharmaceutical products and technologies.
5. Compute a Genomics and Immuno Biopharmaceutical Composite Relationship Keyword score (calculated by FactSet) for each company identified in Step 4 and rank them in descending order beginning with the company that has the highest score. The Composite Relationship Keyword score is based on the number of relationships mentioning keywords related to Genomics and Immuno Biopharmaceutical products and technologies. The score is scaled from 1 to 100 (highest = 100, lowest = 1), and takes into account both the absolute number of relationships and the number of relationships relative to the company's size as measured by market capitalization.
6. Select the top 50 ranked companies from Step 5.

6.3 Weighting methodology and periodical update of weighting

Constituent weights are determined by dividing their individual float-adjusted market capitalization by the total float-adjusted market capitalization of all constituents.

Individual security weights are capped at 4%, with excess weight redistributed proportionally among remaining securities whose weights are less than 4%. If this redistribution leads to additional security weights exceeding 4%, the aforementioned redistribution process is repeated iteratively until no security weight exceeds 4%.

The aggregate weight of component stocks classified in the Diversified Biopharmaceuticals RBICS Level 6 Industry is capped at 25%, with any excess weight redistributed proportionately among the remaining constituents. If this redistribution leads to additional security weights exceeding 4%, the excess weight is redistributed proportionately among the remaining securities (excluding those from the Diversified Biopharmaceuticals RBICS Level 6 Industry) whose weights are less than 4%, and the process is repeated iteratively until no security weight exceeds 4%.

Determining constituent weightings at Semi-Annual Index Rebalances and Annual Reconstitution

At semi-annual Index Rebalances and Annual Reconstitutions, constituent weights are adjusted to reflect their respective float-adjusted market capitalizations based upon company data as of the Reference Date, subject to the diversification limits set forth above. At the semi-annual Rebalance, the portfolio is tested for market capitalization and liquidity based on the principles in Section 6.2 above.

Constituent percentage weights as determined in the Reconstitution and Rebalance process outlined above are converted to Index shares to be implemented on the effective date using information from the Reference Date. Subsequent adjustments to the Index composition may be made to account for corporate actions that occur between the Reference Date and the Rebalance or Reconstitution Date.

The newly adjusted portfolio becomes the basis for the Index's value effective on the first trading day following the semi-annual adjustments. The divisor will be adjusted to ensure continuity of the Index's value.

6.4 Special considerations for Index backtest

For the backtest of the Index, the percentage weights for Reconstitutions and Rebalances were converted to Index shares and implemented after the close of the third Friday of the month. Corporate actions were adjusted for in the Index backtest; however, the exact treatment in the backtest and live Index may differ due to differences in timing and knowledge of those actions. For example, special cash dividends, spin-offs and rights issues that are reinvested back into the parent company in the live Index were instead reinvested proportionately across the Index constituents based on weighting in the calculation of the backtest of the Index.

7. Corporate Actions

7.1 General

Apart from normal Rebalance and Reconstitution changes, the Index composition may be adjusted at other times in order to maintain the continuity of the Index level and the composition. The underlying aim is that the Index continues to reflect as closely as possible the Index's objective of tracking the performance of globally listed companies involved in the Genomics and Biopharmaceuticals industry.

Adjustments take place in reaction to events that occur with constituents in order to mitigate or eliminate the effect of that event on the Index performance.

A full description of standard corporate action events and their handling can be found in the "NYSE Indices - Corporate Action Handling Guide" at <https://www.theice.com/market-data/indices/equity-indices/methodologies>.

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Historical returns and weights before the launch date of an Index are based upon backtested data. For the period prior to the launch date of an Index, simulated performance data has been provided as an illustration of how the Index would have performed during the relevant period had the Index been calculated by IDI using the current Index methodology. Such simulated performance data has inherent limitations, as the simulated data is produced by the retroactive application of the methodology. Simulated performance data is based on criteria applied retroactively with the benefit of hindsight and knowledge of factors that may have positively affected its performance and may reflect a bias toward strategies that have performed well in the past.

Intercontinental Exchange, Inc., the ultimate parent company of IDI, keeps certain activities of its business units separate from each other in order to preserve the independence and objectivity of their respective activities. As a result, certain business units of Intercontinental Exchange, Inc. may have information that is not available to other business units. IDI has established policies and

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In addition, Intercontinental Exchange, Inc. provides a wide range of services to, or relating to, many organizations, including issuers of securities, investment advisers, broker-dealers, investment banks, other financial institutions and financial intermediaries, and accordingly may receive fees or other economic benefits from those organizations, including organizations whose securities may form part of any Index or other evaluation IDI carries out.

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