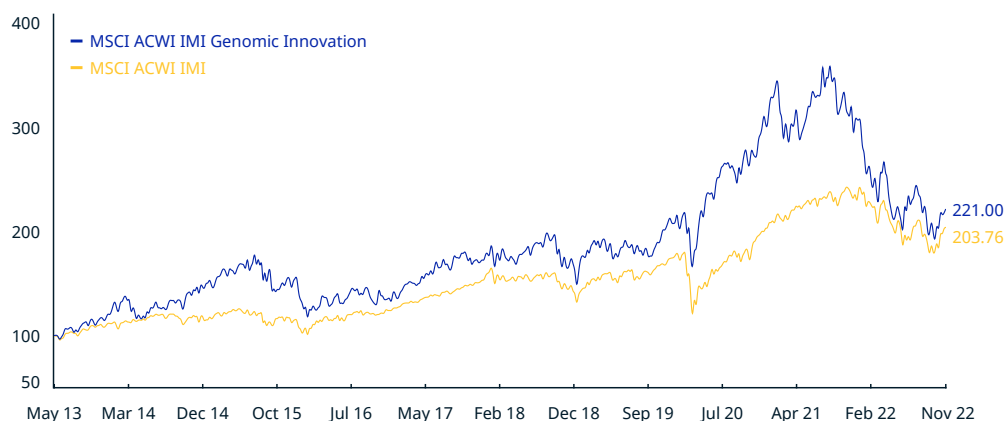


MSCI ACWI IMI Genomic Innovation Index (USD)

The MSCI ACWI IMI Genomic Innovation Index, developed in collaboration with ARK Invest, is based on the MSCI ACWI IMI Index*, its parent index, and includes large, mid and small-cap securities across 23 Developed Markets (DM) and 24 Emerging Markets (EM) countries**. The Index aims to represent the performance of a set of companies that are associated with the development of new products and services in the field of genomic sequencing, synthesis, analysis or instrumentation, enabling bio computing, bioinformatics, molecular diagnostics and agricultural biotechnology.

CUMULATIVE INDEX PERFORMANCE – NET RETURNS (USD) (MAY 2013 – NOV 2022)



ANNUAL PERFORMANCE (%)

Year	MSCI ACWI IMI Genomic Innovation	MSCI ACWI IMI
2021	2.58	18.22
2020	43.77	16.25
2019	31.07	26.35
2018	-7.71	-10.08
2017	29.99	23.95
2016	-14.05	8.36
2015	6.41	-2.19
2014	20.32	3.84

INDEX PERFORMANCE – NET RETURNS (%) (NOV 30, 2022)

	1 Mo	3 Mo	1 Yr	YTD	ANNUALIZED				Since May 31, 2013	FUNDAMENTALS (NOV 30, 2022)			
					3 Yr	5 Yr	10 Yr	Div Yld (%)		P/E	P/E Fwd	P/BV	
MSCI ACWI IMI Genomic Innovation	6.60	1.62	-29.74	-28.36	2.80	5.04	na	8.70	0.39	216.10	171.06	4.11	
MSCI ACWI IMI	7.61	3.21	-11.78	-15.14	6.49	6.13	na	7.77	2.22	17.26	15.20	2.46	

INDEX RISK AND RETURN CHARACTERISTICS (NOV 30, 2022)

	Turnover (%) ¹	ANNUALIZED STD DEV (%) ²			SHARPE RATIO ^{2,3}			Since May 31, 2013	MAXIMUM DRAWDOWN	
		3 Yr	5 Yr	10 Yr	3 Yr	5 Yr	10 Yr		(%)	Period YYYY-MM-DD
MSCI ACWI IMI Genomic Innovation	48.89	23.25	22.12	na	0.20	0.28	na	0.47	46.06	2021-09-06–2022-10-20
MSCI ACWI IMI	2.66	20.44	17.91	na	0.38	0.35	na	0.53	34.52	2020-02-12–2020-03-23

¹ Last 12 months

² Based on monthly net returns data

³ Based on NY FED Overnight SOFR from Sep 1 2021 & on ICE LIBOR 1M prior that date

*The index also includes equity securities that are not classified as US securities in the ACWI IMI Index but are listed on eligible US exchanges according to the MSCI Global Investable Indexes Methodology.

**DM countries include: Australia, Austria, Belgium, Canada, Denmark, Finland, France, Germany, Hong Kong, Ireland, Israel, Italy, Japan, Netherlands, New Zealand, Norway, Portugal, Singapore, Spain, Sweden, Switzerland, the UK and the US. EM countries include: Brazil, Chile, China, Colombia, Czech Republic, Egypt, Greece, Hungary, India, Indonesia, Korea, Kuwait, Malaysia, Mexico, Peru, Philippines, Poland, Qatar, Saudi Arabia, South Africa, Taiwan, Thailand, Turkey and United Arab Emirates.

The MSCI ACWI IMI Genomic Innovation Index was launched on Apr 20, 2020. Data prior to the launch date is back-tested test (i.e. calculations of how the index might have performed over that time period had the index existed). There are frequently material differences between back-tested performance and actual results. Past performance – whether actual or back-tested – is no indication or guarantee of future performance.

INDEX CHARACTERISTICS

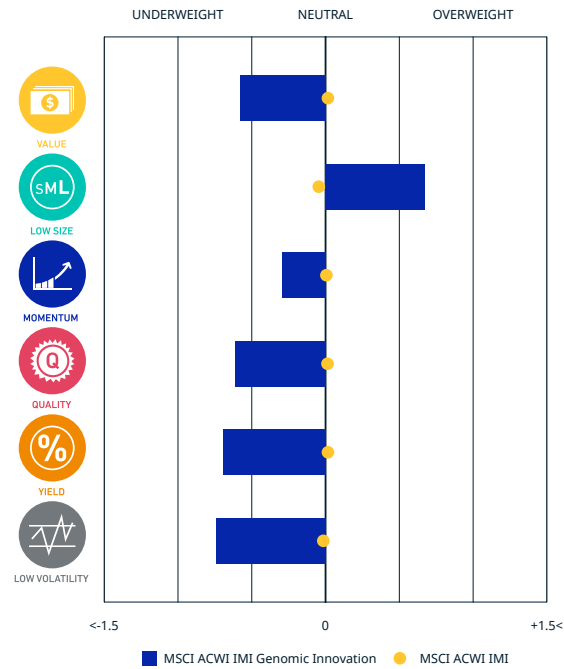
MSCI ACWI IMI Genomic Innovation	
Number of Constituents	225
Mkt Cap (USD Millions)	
Index	1,391,818.65
Largest	83,838.22
Smallest	75.50
Average	6,185.86
Median	1,108.79

TOP 10 CONSTITUENTS

	Country	Float Adj Mkt Cap (USD Billions)	Index Wt. (%)
VERTEX PHARMACEUTICALS	US	83.84	6.02
MODERNA	US	83.04	5.97
ALNYLAM PHARMACEUTICALS	US	70.36	5.05
THERMO FISHER SCIENTIFIC	US	68.85	4.95
ABBOTT LABORATORIES	US	64.76	4.65
ROCHE HOLDING GENUSS	CH	64.36	4.62
LONZA GROUP	CH	63.43	4.56
ILLUMINA	US	61.31	4.41
AGILENT TECHNOLOGIES	US	61.15	4.39
WUXI BIOLOGICS	CN	61.11	4.39
Total		682.22	49.02

FACTORS - KEY EXPOSURES THAT DRIVE RISK AND RETURN

MSCI FACTOR BOX



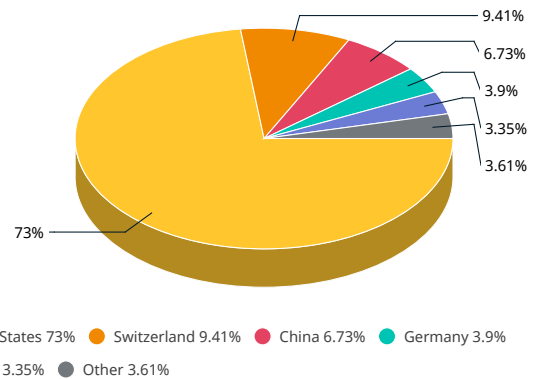
MSCI FaCS

- VALUE**
Relatively Inexpensive Stocks
- LOW SIZE**
Smaller Companies
- MOMENTUM**
Rising Stocks
- QUALITY**
Sound Balance Sheet Stocks
- YIELD**
Cash Flow Paid Out
- LOW VOLATILITY**
Lower Risk Stocks

MSCI FaCS provides absolute factor exposures relative to a broad global index - MSCI ACWI IMI.

Neutral factor exposure (FaCS = 0) represents MSCI ACWI IMI.

COUNTRY WEIGHTS



INDEX FRAMEWORK

The Index aims to represent the performance of a set of companies that are associated with the development of new products and services in the field of genomic sequencing, synthesis, analysis or instrumentation, enabling bio computing, bioinformatics, molecular diagnostics and agricultural biotechnology. The Index includes companies from the parent universe which are determined to have high exposure to business activities such as gene editing, agricultural biotechnology, molecular diagnostics, genome related hardware for analytics and diagnostics, bio-informatics, targeted therapeutics, gene and stem cell therapies. The Index is reviewed on Semi-Annual basis in May and November to coincide with the May and November Semi-Annual Index Review of the Parent Index, and the changes are implemented at the end of May and November, respectively. ARK Invest provides expert input, information and insight that is consultative in nature and is utilized by MSCI at its sole discretion.

This summary is provided for illustrative purposes only and does not include all material elements of the index or its methodology. For a complete description of the index methodology, please see [Index methodology - MSCI](#).

MSCI FACTOR BOX AND FaCS FRAMEWORK (Please refer to complete description of the MSCI FaCS methodology [here](#))

MSCI FaCS is a standard method for evaluating and reporting the Factor characteristics of equity portfolios. MSCI FaCS consists of Factor Groups (e.g. Value, Size, Momentum, Quality, Yield, and Volatility) that have been extensively documented in academic literature and validated by MSCI Research as key drivers of risk and return in equity portfolios. These Factor Groups are constructed by aggregating 16 factors (e.g. Book-to-Price, Earnings/Dividend Yields, LT Reversal, Leverage, Earnings Variability/Quality, Beta) from the latest Barra global equity factor risk model, GEMLT, designed to make fund comparisons transparent and intuitive for use. The MSCI Factor Box, which is powered by MSCI FaCS, provides a visualization designed to easily compare absolute exposures of funds/indexes and their benchmarks along 6 Factor Groups that have historically demonstrated excess market returns over the long run.

ABOUT MSCI

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