

Commission-Free ETFs,¹ as of June 3, 2019

More than 500 commission-free ETFs are available for online purchase at Fidelity.

MORNINGSTAR CATEGORY	TICKER	NAME	CUSIP
ALLOCATION— 30% TO 50% EQUITY	AOK	iShares Core Conservative Allocation ETF	464289883
	AOM	iShares Moderate Allocation ETF	464289875
	IYLD	iShares Morningstar Multi-Asset Income Index ETF	46432F875
	PSMC	Invesco Conservative Multi-Asset Allocation ETF	46090A309
	DWIN	Invesco DWA Tactical Multi-Asset Income ETF	46138E834
	PSMM	Invesco Moderately Conservative Multi-Asset Allocation ETF	46090A507
ALLOCATION—50% TO 70% EQUITY	AOR	iShares Core Growth Allocation ETF	464289867
ALLOCATION— 70% TO 85% EQUITY	AOA	iShares Core Aggressive Allocation ETF	464289859
	PSMG	Invesco Growth Multi-Asset Allocation ETF	46090A408
BANK LOAN	FLBL	Franklin Liberty Senior Loan ETF	35473P595
CHINA REGION	FXI	iShares China Large-Cap ETF	464287184
	CNYA	iShares MSCI China A ETF	46434V514
	MCHI	iShares MSCI China ETF	46429B671
	ECNS	iShares MSCI China Small-Cap ETF	46429B200
	EWH	iShares MSCI Hong Kong ETF	464286871
	EWT	iShares MSCI Taiwan ETF	46434G772
COMMODITIES BROAD BASKET	CMDY	iShares Bloomberg Roll Select Broad Commodity ETF	46431W598
	COMT	iShares Commodities Select Strategy ETF	46431W853
	GSG	iShares S&P GSCI Commodity-Indexed Trust	46428R107
	PDBC	Invesco Optimum Yield Diversified Commodity Strategy No K-1 ETF	46090F100
COMMODITIES PRECIOUS METALS	IAUF	iShares Gold Strategy ETF	46431W614
	IAU	iShares Gold Trust	464285105
	SLV	iShares Silver Trust	46428Q109
COMMUNICATIONS	FCOM	Fidelity MSCI Telecommunication Services Index ETF	316092873
	IEME	iShares Evolved U.S. Media and Entertainment ETF	46431W630
	IXP	iShares Global Comm Services ETF	464287275
	IYZ	iShares U.S. Telecommunications ETF	464287713

MORNINGSTAR CATEGORY	TICKER	NAME	CUSIP
CONSUMER CYCLICAL	FDIS	Fidelity MSCI Consumer Discretionary Index ETF	316092204
	IEDI	iShares Evolved U.S. Discretionary Spending ETF	46431W663
	RXI	iShares Global Consumer Discretionary ETF	464288745
	IYC	iShares U.S. Consumer Services ETF	464287580
	ITB	iShares U.S. Home Construction ETF	464288752
	PEZ	Invesco DWA Consumer Cyclical Momentum ETF	46137V803
	PEJ	Invesco Dynamic Leisure and Entertainment ETF	46137V720
	PBS	Invesco Dynamic Media ETF	46137V696
	PMR	Invesco Dynamic Retail ETF	46137V654
	JHMC	John Hancock Multi-Factor Consumer Discretionary ETF	47804J305
CONSUMER DEFENSIVE	FSTA	Fidelity MSCI Consumer Staples Index ETF	316092303
	IECS	iShares Evolved U.S. Consumer Staples ETF	46431W671
	KXI	iShares Global Consumer Staples ETF	464288737
	IYK	iShares U.S. Consumer Goods ETF	464287812
	PSL	Invesco DWA Consumer Staples Momentum ETF	46137V886
	PBJ	Invesco Dynamic Food & Beverage ETF	46137V753
	JHMS	John Hancock Multi-Factor Consumer Staples ETF	47804J875
CONVERTIBLES	ICVT	iShares Convertible Bond ETF	46435G102
CORPORATE BOND	FCOR	Fidelity Corporate Bond ETF	316188101
	MLQD	iShares 5–10 Year Investment Grade Corporate Bond ETF	46435G151
	IGLB	iShares 10+ Year Credit Bond ETF	464289511
	LLQD	iShares 10+ Year Investment Grade Corporate Bond ETF	46435G144
	QLTA	iShares Aaa – A Rated Corporate Bond ETF	46429B291
	IGEB	iShares Edge Investment Grade Enhanced Bond ETF	46435G219
	SUSC	iShares ESG USD Corporate Bond ETF	46435G193
	IBDM	iShares iBonds Dec 2021 Corporate ETF	46434VBK5
	IBDN	iShares iBonds Dec 2022 Corporate ETF	46434VBA7
	IBDO	iShares iBonds Dec 2023 Corporate ETF	46434VAX8
	IBDP	iShares iBonds Dec 2024 Corporate ETF	46434VBG4
	IBDQ	iShares iBonds Dec 2025 Corporate ETF	46434VBD1
	IBDR	iShares iBonds Dec 2026 Term Corporate ETF	46435GAA0
	IBDS	iShares iBonds Dec 2027 Term Corporate ETF	46435UAA9
	IBDT	iShares iBonds Dec 2028 Term Corporate ETF	46435U515
	IBDD	iShares iBonds Mar 2023 Corporate ETF	46432FAZ0
	IBCE	iShares iBonds Mar 2023 Corporate ex-Financials ETF	46432FAN7
	LQD	iShares iBoxx \$ Investment Grade Corporate Bond ETF	464287242
	LQDH	iShares Interest Rate Hedged Corporate Bond ETF	46431W705
	IGBH	iShares Interest Rate Hedged Long-Term Corporate Bond ETF	46431W812
IGIB	iShares Intermediate Credit Bond ETF	464288638	

MORNINGSTAR CATEGORY	TICKER	NAME	CUSIP
CORPORATE BOND (continued)	USIG	iShares U.S. Credit Bond ETF	464288620
	KORP	American Century Diversified Corporate Bond ETF	025072109
	FLCO	Franklin Liberty Investment Grade Corporate ETF	35473P603
	GIGB	Goldman Sachs Access Investment Grade Corporate Bond ETF	381430479
	PFIG	Invesco Fundamental Investment Grade Corporate Bond ETF	46138E693
DIVERSIFIED EMERGING MARKETS	FDEM	Fidelity Targeted Emerging Markets Factor ETF	316092543
	IEMG	iShares Core MSCI Emerging Markets ETF	46434G103
	HEEM	iShares Currency Hedged MSCI Emerging Markets ETF	46434G509
	DVYE	iShares Emerging Markets Dividend ETF	464286319
	EMIF	iShares Emerging Markets Infrastructure ETF	464288216
	BKF	iShares MSCI BRIC ETF	464286657
	ESGE	iShares MSCI Emerging Markets ESG Optimized ETF	46434G863
	EEM	iShares MSCI Emerging Markets ETF	464287234
	EMXC	iShares MSCI Emerging Markets ex China ETF	46434G764
	EEMV	iShares MSCI Emerging Markets Minimum Volatility ETF	464286533
	EEMS	iShares MSCI Emerging Markets Small-Cap ETF	464286475
	FM	iShares MSCI Frontier 100 ETF	464286145
	REEM	Invesco Emerging Markets Revenue ETF	46138G839
	EELV	Invesco S&P Emerging Markets Low Volatility ETF	46138E297
EEMO	Invesco S&P Emerging Markets Momentum ETF	46138E289	
LVHE	Legg Mason Emerging Markets Low Volatility High Dividend ETF	52468L604	
DIVERSIFIED PACIFIC/ASIA	DVYA	iShares Asia/Pacific Dividend ETF	464286293
	IPAC	iShares Core MSCI Pacific ETF	46434V696
EMERGING MARKETS BOND	CEMB	iShares Emerging Markets Corporate Bond ETF	464286251
	EMHY	iShares Emerging Markets High Yield Bond ETF	464286285
	EMBH	iShares Interest Rate Hedged Emerging Markets Bond ETF	46431W820
	EMB	iShares JPMorgan USD Emerging Markets Bond ETF	464288281
	PCY	Invesco Emerging Markets Sovereign Debt ETF	46138E784
	JPMB	JPMorgan USD Emerging Markets Sovereign Bond ETF	46641Q746
	EMTL	SPDR DoubleLine Emerging Markets Fixed Income ETF	78470P309
EMERGING MARKETS LOCAL CURRENCY BOND	LEMB	iShares Emerging Markets Local Currency Bond ETF	464286517
EQUITY ENERGY	FENY	Fidelity MSCI Energy Index ETF	316092402
	IXC	iShares Global Energy ETF	464287341
	FILL	iShares MSCI Global Energy Producers ETF	464286343
	IYE	iShares U.S. Energy ETF	464287796
	IEO	iShares U.S. Oil & Gas Exploration & Production ETF	464288851
	IEZ	iShares U.S. Oil Equipment & Services ETF	464288844

MORNINGSTAR CATEGORY	TICKER	NAME	CUSIP
EQUITY ENERGY (continued)	PXI	Invesco DWA Energy Momentum ETF	46137V878
	PXE	Invesco Dynamic Energy Exploration & Production ETF	46137V761
	PXJ	Invesco Dynamic Oil & Gas Services ETF	46137V670
	JHME	John Hancock Multi-Factor Energy ETF	47804J701
EQUITY PRECIOUS METALS	RING	iShares MSCI Global Gold Miners ETF	46434G855
	PICK	iShares MSCI Global Select Metals & Mining Producers ETF	46434G848
	SLVP	iShares MSCI Global Silver Miners ETF	464286327
EUROPE STOCK	IEUR	iShares Core MSCI Europe ETF	46434V738
	HEZU	iShares Currency Hedged MSCI Eurozone ETF	46434V639
	EUMV	iShares Edge MSCI Minimum Volatility Europe ETF	46434V720
	IEV	iShares Europe ETF	464287861
	EZU	iShares MSCI EMU ETF	464286608
	IEUS	iShares MSCI Europe Small-Cap ETF	464288497
	JPEU	JPMorgan Diversified Return Europe Equity ETF	46641Q605
FINANCIAL	FNCL	Fidelity MSCI Financials Index ETF	316092501
	IEFN	iShares Evolved U.S. Financials ETF	46431W655
	IXG	iShares Global Financials ETF	464287333
	EUFN	iShares MSCI Europe Financials ETF	464289180
	IAI	iShares U.S. Broker-Dealers ETF	464288794
	IYG	iShares U.S. Financial Services ETF	464287770
	IYF	iShares U.S. Financials ETF	464287788
	IAK	iShares U.S. Insurance ETF	464288786
	IAT	iShares U.S. Regional Banks ETF	464288778
	PFI	Invesco DWA Financial Momentum ETF	46137V860
	RWW	Invesco S&P Financials Revenue ETF	46138G680
JHMF	John Hancock Multi-Factor Financials ETF	47804J404	
FOREIGN LARGE BLEND	FDEV	Fidelity Targeted International Factor ETF	316092535
	DEFA	iShares Adaptive Currency Hedged MSCI EAFE ETF	46435G656
	IEFA	iShares Core MSCI EAFE ETF	46432F842
	IDEV	iShares Core MSCI International Developed Markets ETF	46435G326
	IXUS	iShares Core MSCI Total International Stock ETF	46432F834
	HAWX	iShares Currency Hedged MSCI ACWI ex U.S. ETF	46435G847
	HEFA	iShares Currency Hedged MSCI EAFE ETF	46434V803
	IQLT	iShares Edge MSCI International Quality Factor ETF	46434V456
	ISZE	iShares Edge MSCI International Size Factor ETF	46435G508
	ACWX	iShares MSCI ACWI ex U.S. ETF	464288240
	ESGD	iShares MSCI EAFE ESG Optimized ETF	46435G516
	EFA	iShares MSCI EAFE ETF	464287465
	EFAV	iShares MSCI EAFE Minimum Volatility ETF	46429B689

MORNINGSTAR CATEGORY	TICKER	NAME	CUSIP
FOREIGN LARGE BLEND (continued)	FLQH	Franklin LibertyQ International Equity Hedged ETF	35473P108
	IDLB	Invesco FTSE International Low Beta Equal Weight ETF	46138E768
	IPKW	Invesco International BuyBack Achievers™ ETF	46138E644
	IDLV	Invesco S&P International Developed Low Volatility ETF	46138E230
FOREIGN LARGE GROWTH	IMTM	iShares Edge MSCI International Momentum Factor ETF	46434V449
	EFG	iShares MSCI EAFE Growth ETF	464288885
	IDHQ	Invesco S&P International Developed Quality ETF	46138E214
FOREIGN LARGE VALUE	FIDI	Fidelity International High Dividend ETF	316092725
	FIVA	Fidelity International Value Factor ETF	316092717
	EFV	iShares MSCI EAFE Value ETF	464288877
	REFA	Invesco International Revenue ETF	46138G789
	IDHD	Invesco S&P International Developed High Dividend Low Volatility ETF	46138E248
	LVHI	Legg Mason International Low Volatility High Dividend ETF	52468L505
FOREIGN SMALL/MID BLEND	HSCZ	iShares Currency Hedged MSCI EAFE Small-Cap ETF	46435G839
	ISCF	iShares Edge MSCI Multi-Factor International Small-Cap ETF	46434V266
	SCZ	iShares MSCI EAFE Small-Cap ETF	464288273
FOREIGN SMALL/MID VALUE	PDN	Invesco FTSE RAFI Developed Markets ex-U.S. Small-Mid ETF	46138E735
GLOBAL REAL ESTATE	IFEU	iShares Europe Developed Real Estate ETF	464288471
	IFGL	iShares International Developed Real Estate ETF	464288489
	WPS	iShares International Property ETF	464288422
HEALTH	FHLC	Fidelity MSCI Health Care Index ETF	316092600
	IEHS	iShares Evolved U.S. Healthcare Staples ETF	46431W689
	IEIH	iShares Evolved U.S. Innovative Healthcare ETF	46431W622
	IXJ	iShares Global Healthcare ETF	464287325
	IBB	iShares Nasdaq Biotechnology ETF	464287556
	IYH	iShares U.S. Healthcare ETF	464287762
	IHF	iShares U.S. Healthcare Providers ETF	464288828
	IHI	iShares U.S. Medical Devices ETF	464288810
	IHE	iShares U.S. Pharmaceuticals ETF	464288836
	PTH	Invesco DWA Healthcare Momentum ETF	46137V852
	PBE	Invesco Dynamic Biotechnology & Genome ETF	46137V787
	PJP	Invesco Dynamic Pharmaceuticals ETF	46137V662
JMHM	John Hancock Multi-Factor Health Care ETF	47804J503	
HIGH YIELD BOND	FDHY	Fidelity High Yield Factor ETF	316092618
	SHYG	iShares 0–5 Year High Yield Corporate Bond ETF	46434V407
	USHY	iShares Broad USD High Yield Corporate Bond ETF	46435U853
	HYDB	iShares Edge High Yield Defensive Bond ETF	46435G250

MORNINGSTAR CATEGORY	TICKER	NAME	CUSIP
HIGH YIELD BOND (continued)	GHYG	iShares Global High Yield Corporate Bond ETF	464286178
	HYG	iShares iBoxx \$ High Yield Corporate Bond ETF	464288513
	HYXE	iShares iBoxx \$ High Yield ex Oil & Gas Corporate Bond ETF	46435G441
	HYGH	iShares Interest Rate Hedged High Yield Bond ETF	46431W606
	HYXU	iShares International High Yield Corporate Bond ETF	464286210
	FALN	iShares U.S. Fallen Angels USD Bond ETF	46435G474
	GHYB	Goldman Sachs Access High Yield Corporate Bond ETF	381430453
	PHB	Invesco Fundamental High Yield® Corporate Bond ETF	46138E719
	PGHY	Invesco Global Short-Term High Yield Bond ETF	46138E669
	JPHY	JPMorgan Disciplined High Yield ETF	46641Q878
INDIA EQUITY	INDY	iShares India 50 ETF	464289529
	INDA	iShares MSCI India ETF	46429B598
	SMIN	iShares MSCI India Small-Cap ETF	46429B614
INDUSTRIALS	FIDU	Fidelity MSCI Industrials Index ETF	316092709
	EXI	iShares S&P Global Industrials ETF	464288729
	IYT	iShares Transportation Average ETF	464287192
	ITA	iShares U.S. Aerospace & Defense ETF	464288760
	IYJ	iShares U.S. Industrials ETF	464287754
	PRN	Invesco DWA Industrials Momentum ETF	46137V845
	PKB	Invesco Dynamic Building & Construction ETF	46137V779
	JHMI	John Hancock Multi-Factor Industrials ETF	47804J883
INFLATION-PROTECTED BOND	STIP	iShares 0–5 Year TIPS Bond ETF	46429B747
	TIP	iShares TIPS Bond ETF	464287176
INFRASTRUCTURE	IGF	iShares Global Infrastructure ETF	464288372
	IFRA	iShares U.S. Infrastructure ETF	46435U713
INTERMEDIATE GOVERNMENT	IEI	iShares 3 to 7 Year Treasury Bond ETF	464288661
	GNMA	iShares GNMA Bond ETF	46429B333
	MBB	iShares MBS Bond ETF	464288588
	GOVT	iShares U.S. Treasury Bond ETF	46429B267
INTERMEDIATE-TERM BOND	FBND	Fidelity Total Bond ETF	316188309
	CMBS	iShares CMBS ETF	46429B366
	IMTB	iShares Core 5–10 Year USD Bond ETF	46435G417
	AGG	iShares Core Total U.S. Bond Market ETF	464287226
	IUSB	iShares Core Total USD Bond Market ETF	46434V613
	FIBR	iShares Edge U.S. Fixed Income Balanced Risk ETF	46435U796
	EAGG	iShares ESG U.S. Aggregate Bond ETF	46435U549
	GBF	iShares Government/Credit Bond ETF	464288596

MORNINGSTAR CATEGORY	TICKER	NAME	CUSIP
INTERMEDIATE-TERM BOND (continued)	GVI	iShares Intermediate Government/Credit Bond ETF	464288612
	BYLD	iShares Yield Optimized Bond ETF	46434V787
	FIXD	First Trust TCW Opportunistic Fixed Income ETF	33740F805
	JAGG	JPMorgan U.S. Aggregate Bond ETF	46641Q613
JAPAN STOCK	HEWJ	iShares Currency Hedged MSCI Japan ETF	46434V886
	JPMV	iShares Edge MSCI Minimum Volatility Japan ETF	46434V712
	JPXN	iShares JPX-Nikkei 400 ETF	464287382
	EWJ	iShares MSCI Japan ETF	46434G822
	SCJ	iShares MSCI Japan Small-Cap ETF	464286582
LARGE BLEND	FDLO	Fidelity Low Volatility Factor ETF	316092824
	IVV	iShares Core S&P 500 ETF	464287200
	ITOT	iShares Core S&P Total U.S. Stock Market ETF	464287150
	IYY	iShares Dow Jones U.S. ETF	464287846
	JKD	iShares Morningstar Large-Cap ETF	464287127
	DSI	iShares MSCI KLD 400 Social ETF	464288570
	EUSA	iShares MSCI USA Equal Weighted ETF	464286681
	ESGU	iShares MSCI USA ESG Optimized ETF	46435G425
	SUSA	iShares MSCI USA ESG Select ETF	464288802
	USMV	iShares MSCI USA Minimum Volatility ETF	46429B697
	IWB	iShares Russell 1000 ETF	464287622
	AMCA	iShares Russell 1000 Pure U.S. Revenue ETF	46435G169
	IWV	iShares Russell 3000 ETF	464287689
	IWL	iShares Russell Top 200 ETF	464289446
	OEF	iShares S&P 100 ETF	464287101
	YLDE	ClearBridge Dividend Strategy ESG ETF	524682309
	FLQL	Franklin LibertyQ U.S. Equity ETF	35473P801
	GSLC	Goldman Sachs ActiveBeta U.S. Large-Cap Equity ETF	381430503
	JUST	Goldman Sachs JUST U.S. Large-Cap Equity ETF	381430396
	PKW	Invesco BuyBack Achievers™ ETF	46137V308
	OMFL	Invesco Russell 1000 Dynamic Multi-Factor ETF	46138J619
	XRLV	Invesco S&P 500® ex-Rate Sensitive Low Volatility ETF	46138E388
	SPHB	Invesco S&P 500® High Beta ETF	46138E370
	JHML	John Hancock Multi-Factor Large-Cap ETF	47804J107
JPUS	JPMorgan Diversified Return U.S. Equity ETF	46641Q407	
MFUS	PIMCO RAFI Dynamic Multi-Factor U.S. Equity ETF	72202L363	
SYE	SPDR MFS Systematic Core Equity ETF	78467V806	
LARGE GROWTH	FDMO	Fidelity Momentum Factor ETF	316092816
	ONEQ	Fidelity Nasdaq Composite Index Track	315912808
	FQAL	Fidelity Quality Factor ETF	316092790
	IUSG	iShares Core U.S. Growth ETF	464287671

MORNINGSTAR CATEGORY	TICKER	NAME	CUSIP
LARGE GROWTH (continued)	JKE	iShares Morningstar Large-Cap Growth ETF	464287119
	IWF	iShares Russell 1000 Growth ETF	464287614
	IWY	iShares Russell Top 200 Growth ETF	464289438
	IWW	iShares S&P 500 Growth ETF	464287309
	CACG	ClearBridge All-Cap Growth ETF	524682101
	LRGE	ClearBridge Large-Cap Growth ESG ETF	524682200
	GVIP	Goldman Sachs Hedge Industry VIP ETF	381430545
	PWB	Invesco Dynamic Large-Cap Growth ETF	46137V746
	PXLG	Invesco Russell Top 200 Pure Growth ETF	46137V431
	RPG	Invesco S&P 500® Pure Growth ETF	46137V266
SYG	SPDR MFS Systematic Growth Equity ETF	78467V889	
LARGE VALUE	FDV	Fidelity Core Dividend ETF	316092840
	FDRR	Fidelity Dividend ETF for Rising Rates	316092832
	FVAL	Fidelity Value Factor ETF	316092782
	DGRO	iShares Core Dividend Growth ETF	46434V621
	HDV	iShares Core High Dividend ETF	46429B663
	IUSV	iShares Core U.S. Value ETF	464287663
	LRGF	iShares Edge MSCI Multi-Factor USA ETF	46434V282
	JKF	iShares Morningstar Large-Cap Value ETF	464288109
	IWD	iShares Russell 1000 Value ETF	464287598
	IWX	iShares Russell Top 200 Value ETF	464289420
	IVE	iShares S&P 500 Value ETF	464287408
	DIVB	iShares U.S. Dividend and Buyback ETF	46435U861
	VALQ	American Century STOXX U.S. Quality Value ETF	025072208
	DJD	Invesco Dow Jones Industrial Average Dividend ETF	46137V605
	PWV	Invesco Dynamic Large-Cap Value ETF	46137V738
	ESGL	Invesco ESG Revenue ETF	46138J627
	PRF	Invesco FTSE RAFI U.S. 1000 ETF	46137V613
	PXLV	Invesco Russell Top 200 Pure Value ETF	46137V423
	SPVU	Invesco S&P 500® Enhanced Value ETF	46138E396
	SPHD	Invesco S&P 500® High Dividend Low Volatility ETF	46138E362
RPV	Invesco S&P 500® Pure Value ETF	46137V258	
RWL	Invesco S&P 500 Revenue ETF	46138G698	
LVHD	Legg Mason Low Volatility High Dividend ETF	52468L406	
SYV	SPDR MFS Systematic Value Equity ETF	78467V871	
LATIN AMERICA STOCK	ILF	iShares Latin American 40 ETF	464287390
	EWZ	iShares MSCI Brazil ETF	464286400
	EWZS	iShares MSCI Brazil Small-Cap ETF	464289131

MORNINGSTAR CATEGORY	TICKER	NAME	CUSIP
LONG GOVERNMENT	IEF	iShares 7–10 Year Treasury Bond ETF	464287440
	TLH	iShares 10–20 Year Treasury Bond ETF	464288653
	TLT	iShares 20+ Year Treasury Bond ETF	464287432
LONG-SHORT EQUITY	PHDG	Invesco S&P 500® Downside Hedged ETF	46090A705
	JPLS	JPMorgan Long/Short ETF	46641Q811
LONG-TERM BOND	ILTB	iShares Core Long-Term U.S. Bond ETF	464289479
MANAGED FUTURES	JPMF	JPMorgan Managed Futures Strategy ETF	46641Q829
MID-CAP BLEND	FSMD	Fidelity Small-Mid Factor ETF	316092527
	IJH	iShares Core S&P Mid-Cap ETF	464287507
	JKG	iShares Morningstar Mid-Cap ETF	464288208
	IWR	iShares Russell Mid-Cap ETF	464287499
	FLQM	Franklin LibertyQ U.S. Mid-Cap Equity ETF	35473P884
	PWC	Invesco Dynamic Market ETF	46137V712
	USEQ	Invesco Russell 1000 Enhanced Equal Weight ETF	46138E438
	USLB	Invesco Russell 1000 Low Beta Equal Weight ETF	46138E412
	JHMM	John Hancock Multi-Factor Mid-Cap ETF	47804J206
JPME	JPMorgan Diversified Return U.S. Mid-Cap Equity ETF	46641Q886	
MID-CAP GROWTH	JKH	iShares Morningstar Mid-Cap Growth ETF	464288307
	IWP	iShares Russell Mid-Cap Growth ETF	464287481
	IJK	iShares S&P Mid-Cap 400 Growth ETF	464287606
	DWAQ	Invesco DWA Nasdaq Momentum ETF	46137V829
	DWTR	Invesco DWA Tactical Sector Rotation ETF	46138E826
	PXMG	Invesco Russell Mid-Cap Pure Growth ETF	46137V464
	RFG	Invesco S&P Mid-Cap 400® Pure Growth ETF	46137V217
	JSMD	Janus Small/Mid-Cap Growth Alpha ETF	47103U209
MID-CAP VALUE	JKI	iShares Morningstar Mid-Cap Value ETF	464288406
	IWS	iShares Russell Mid-Cap Value ETF	464287473
	IJJ	iShares S&P Mid-Cap 400 VALUE ETF	464287705
	PEY	Invesco High Yield Equity Dividend Achievers™ ETF	46137V563
	PXMV	Invesco Russell Mid-Cap Pure Value ETF	46137V456
	RWK	Invesco S&P Mid-Cap 400 Revenue ETF	46138G672
	XMLV	Invesco S&P Mid-Cap Low Volatility ETF	46138E198
MISCELLANEOUS REGION	HAUD	iShares Currency Hedged MSCI Australia ETF	46435G607
	HEWC	iShares Currency Hedged MSCI Canada ETF	46435G706
	HEWG	iShares Currency Hedged MSCI Germany ETF	46434V704
	HEWI	iShares Currency Hedged MSCI Italy ETF	46435G821
	HEWW	iShares Currency Hedged MSCI Mexico ETF	46435G805
	HEWY	iShares Currency Hedged MSCI South Korea ETF	46435G888

MORNINGSTAR CATEGORY	TICKER	NAME	CUSIP
MISCELLANEOUS REGION (continued)	HEWP	iShares Currency Hedged MSCI Spain ETF	46435G813
	HEWL	iShares Currency Hedged MSCI Switzerland ETF	46435G870
	HEWU	iShares Currency Hedged MSCI United Kingdom ETF	46435G862
	AGT	iShares MSCI Argentina and Global Exposure ETF	46435G276
	EWA	iShares MSCI Australia ETF	464286103
	EWO	iShares MSCI Austria ETF	464286202
	EWK	iShares MSCI Belgium ETF	464286301
	EWC	iShares MSCI Canada ETF	464286509
	ECH	iShares MSCI Chile ETF	464286640
	ICOL	iShares MSCI Colombia ETF	46434G202
	EDEN	iShares MSCI Denmark ETF	46429B523
	EFNL	iShares MSCI Finland ETF	46429B515
	EWQ	iShares MSCI France ETF	464286707
	EWG	iShares MSCI Germany ETF	464286806
	EWGS	iShares MSCI Germany Small-Cap ETF	46429B465
	EIDO	iShares MSCI Indonesia ETF	46429B309
	EIRL	iShares MSCI Ireland ETF	46429B507
	EIS	iShares MSCI Israel ETF	464286632
	EWI	iShares MSCI Italy ETF	46434G830
	EWM	iShares MSCI Malaysia ETF	46434G814
	EWW	iShares MSCI Mexico ETF	464286822
	EWN	iShares MSCI Netherlands ETF	464286814
	ENZL	iShares MSCI New Zealand ETF	464289123
	ENOR	iShares MSCI Norway ETF	46429B499
	EPU	iShares MSCI Peru ETF	464289842
	EPHE	iShares MSCI Philippines ETF	46429B408
	EPOL	iShares MSCI Poland ETF	46429B606
	QAT	iShares MSCI Qatar ETF	46434V779
	ERUS	iShares MSCI Russia ETF	46434G798
	KSA	iShares MSCI Saudi Arabia ETF	46434V423
	EWS	iShares MSCI Singapore ETF	46434G780
	EZA	iShares MSCI South Africa ETF	464286780
	EWY	iShares MSCI South Korea ETF	464286772
	EWP	iShares MSCI Spain ETF	464286764
EWD	iShares MSCI Sweden ETF	464286756	
EWL	iShares MSCI Switzerland ETF	464286749	
THD	iShares MSCI Thailand ETF	464286624	
TUR	iShares MSCI Turkey ETF	464286715	

MORNINGSTAR CATEGORY	TICKER	NAME	CUSIP
MISCELLANEOUS REGION (continued)	UAE	iShares MSCI UAE ETF	46434V761
	EWU	iShares MSCI United Kingdom ETF	46435G334
	EWUS	iShares MSCI United Kingdom Small-Cap ETF	46429B416
MISCELLANEOUS SECTOR	XT	iShares Exponential Technologies ETF	46434V381
	ICLN	iShares Global Clean Energy ETF	464288224
	PZD	Invesco Cleantech™ ETF	46137V407
MULTISECTOR BOND	JPGB	JPMorgan Global Bond Opportunities ETF	46641Q852
MUNI CALIFORNIA LONG	CMF	iShares California AMT-Free Bond ETF	464288356
MUNI NATIONAL INTERMEDIATE	IBMJ	iShares iBonds Dec 2021 AMT-Free Muni Bond ETF	46435G789
	IBMK	iShares iBonds Dec 2022 AMT-Free Muni Bond ETF	46435G755
	IBML	iShares iBonds Dec 2023 Term Muni Bond ETF	46435G318
	IBMM	iShares iBonds Dec 2024 Term Muni Bond	46435U697
	IBMN	iShares iBonds Dec 2025 Term Muni Bond ETF	46435U432
	MUB	iShares National AMT-Free Muni Bond ETF	464288414
	JMUB	JP Morgan Municipal ETF	46641Q647
	MUNI	PIMCO Intermediate Municipal Bond Strategy Fund	72201R866
MUNI NATIONAL LONG	FLMB	Franklin Liberty Municipal Bond ETF	35473P850
MUNI NATIONAL SHORT	IBMH	iShares iBonds Sep 2019 Term Muni Bond ETF	46429B564
	IBMI	iShares iBonds Sep 2020 AMT-Free Muni Bond ETF	46434V571
	SUB	iShares S&P Short-Term National AMT-Free Bond ETF	464288158
	MEAR	iShares Short Maturity Municipal Bond ETF	46431W838
	JMST	JPMorgan Ultra Short Municipal ETF	46641Q654
	SMMU	PIMCO Short-Term Municipal Bond Fund	72201R874
MUNI NEW YORK INTERMEDIATE	NYF	iShares New York AMT-Free Muni Bond ETF	464288323
NATURAL RESOURCES	FMAT	Fidelity MSCI Materials Index ETF	316092881
	MXI	iShares Global Materials ETF	464288695
	WOOD	iShares Global Timber & Forestry ETF	464288174
	VEGI	iShares MSCI Global Agriculture Producers ETF	464286350
	IGE	iShares North American Natural Resources ETF	464287374
	IYM	iShares U.S. Basic Materials ETF	464287838
	PYZ	Invesco DWA Basic Materials Momentum ETF	46137V704
	JHMA	John Hancock Multi-Factor Materials ETF	47804J800
NONTRADITIONAL BOND	UCON	First Trust TCW Unconstrained Plus Bond ETF	33740F888

MORNINGSTAR CATEGORY	TICKER	NAME	CUSIP
PACIFIC/ASIA EX-JAPAN STOCK	AXJV	iShares Edge MSCI Minimum Volatility Asia ex-Japan ETF	46434V746
	AAXJ	iShares MSCI All Country Asia ex-Japan ETF	464288182
	EEMA	iShares MSCI Emerging Markets Asia ETF	464286426
	EPP	iShares MSCI Pacific ex-Japan ETF	464286665
	AIA	iShares S&P Asia ETF	464288430
PREFERRED STOCK	IPFF	iShares International Preferred Stock ETF	46429B135
	PFF	iShares U.S. Preferred Stock ETF	464288687
REAL ESTATE	FREL	Fidelity MSCI Real Estate Index ETF	316092857
	ICF	iShares Cohen & Steers REIT ETF	464287564
	USRT	iShares Core U.S. REIT ETF	464288521
	REET	iShares Global REIT ETF	46434V647
	REM	iShares Mortgage Real Estate ETF	46435G342
	REZ	iShares Residential Real Estate ETF	464288562
	IYR	iShares U.S. Real Estate ETF	464287739
	PSR	Invesco Active U.S. Real Estate Fund	46090A101
KBWY	Invesco KBW Premium Yield Equity REIT ETF	46138E594	
SHORT GOVERNMENT	SHY	iShares 1-3 Year Treasury Bond ETF	464287457
	AGZ	iShares Agency Bond ETF	464288166
	TFLO	iShares Treasury Floating Rate Bond ETF	46434V860
	FTSD	Franklin Short Duration U.S. Government ETF	353506108
SHORT-TERM BOND	FLT	Fidelity Limited Term Bond ETF	316188200
	SLQD	iShares 0-5 Year Investment Grade Corporate Bond ETF	46434V100
	IGSB	iShares 1-3 Year Credit Bond ETF	464288646
	ISTB	iShares Core Short-Term U.S. Bond ETF	46432F859
	SUSB	iShares ESG 1-5 Year USD Corporate Bond ETF	46435G243
	IBDK	iShares iBonds Dec 2019 Term Corporate ETF	46434VAU4
	IBDL	iShares iBonds Dec 2020 Corporate ETF	46434VAQ3
	IBDC	iShares iBonds Mar 2020 Corporate ETF	46432FBC0
	IBCD	iShares iBonds Mar 2020 Corporate ex-Financials ETF	46432FAK3
	STOT	SPDR DoubleLine Short Duration Total Return Tactical ETF	78470P200
SMALL BLEND	IJR	iShares Core S&P Small-Cap ETF	464287804
	SMMV	iShares Edge MSCI Minimum Volatility USA Small-Cap ETF	46435G433
	SMLF	iShares Edge MSCI Multi-Factor USA Small-Cap ETF	46434V290
	IWC	iShares Microcap ETF	464288869
	JKJ	iShares Morningstar Small-Cap ETF	464288505
	ESML	iShares MSCI USA Small-Cap ESG Optimized ETF	46435U663
	IWM	iShares Russell 2000 ETF	464287655

MORNINGSTAR CATEGORY	TICKER	NAME	CUSIP
SMALL BLEND (continued)	SMMD	iShares Russell 2500 ETF	46435G268
	PRFZ	Invesco FTSE RAFI U.S. 1500 Small-Mid ETF	46137V597
	SQLV	Legg Mason Small-Cap Quality Value ETF	52468L877
SMALL GROWTH	JKK	iShares Morningstar Small-Cap Growth ETF	464288604
	IWO	iShares Russell 2000 Growth ETF	464287648
	IJT	iShares S&P Small-Cap 600 Growth ETF	464287887
	DWAS	Invesco DWA Small-Cap Momentum ETF	46138E842
	PXSG	Invesco Russell 2000 Pure Growth ETF	46137V498
	RZG	Invesco S&P Small-Cap 600® Pure Growth ETF	46137V175
	XSHQ	Invesco S&P Small-Cap Quality ETF	46138G300
	JSML	Janus Small-Cap Growth Alpha ETF	47103U100
SMALL VALUE	JKL	iShares Morningstar Small-Cap Value ETF	464288703
	IWN	iShares Russell 2000 Value ETF	464287630
	IJS	iShares S&P Small-Cap 600 Value ETF	464287879
	PXSV	Invesco Russell 2000 Pure Value ETF	46137V480
	RFV	Invesco S&P Mid-Cap 400® Pure Value ETF	46137V191
	RZV	Invesco S&P Small-Cap 600® Pure Value ETF	46137V167
	RWJ	Invesco S&P Small-Cap 600 Revenue ETF	46138G664
	XSHD	Invesco S&P Small-Cap High Dividend Low Volatility ETF	46138E131
XSLV	Invesco S&P Small-Cap Low Volatility ETF	46138G102	
TECHNOLOGY	FTEC	Fidelity MSCI Information Technology Index ETF	316092808
	IETC	iShares Evolved U.S. Technology ETF	46431W648
	IXN	iShares Global Tech ETF	464287291
	IGM	iShares North American Tech ETF	464287549
	IGN	iShares North American Tech-Multimedia Networking ETF	464287531
	IGV	iShares North American Tech-Software ETF	464287515
	SOXX	iShares PHLX Semiconductor ETF	464287523
	IRBO	iShares Robotics and Artificial Intelligence ETF	46435U556
	IYW	iShares U.S. Technology ETF	464287721
	PTF	Invesco DWA Technology Momentum ETF	46137V811
	PXQ	Invesco Dynamic Networking ETF	46137V688
	PSI	Invesco Dynamic Semiconductors ETF	46137V647
	PSJ	Invesco Dynamic Software ETF	46137V639
JHMT	John Hancock Multi-Factor Technology ETF	47804J602	
ULTRA SHORT BOND	FLDR	Fidelity Low Duration Bond Factor ETF	316188408
	FLOT	iShares Floating Rate Note ETF	46429B655
	SHV	iShares Short Treasury Bond ETF	464288679

MORNINGSTAR CATEGORY	TICKER	NAME	CUSIP
ULTRA SHORT BOND (continued)	ICSH	iShares Ultra Short-Term Bond ETF	46434V878
	VRIG	Invesco Variable Rate Investment Grade ETF	46090A879
	VNLA	Janus Short Duration Income ETF	47103U886
UTILITIES	FUTY	Fidelity MSCI Utilities Index ETF	316092865
	JXI	iShares Global Utilities ETF	464288711
	IDU	iShares U.S. Utilities ETF	464287697
	PUI	Invesco DWA Utilities Momentum ETF	46137V795
	JHMU	John Hancock Multi-Factor Utilities ETF	47804J867
WORLD BOND	ISHG	iShares 1-3 Year International Treasury Bond ETF	464288125
	IAGG	iShares Core International Aggregate Bond ETF	46435G672
	BGRN	iShares Global Green Bond ETF	46435U440
	IGOV	iShares International Treasury Bond ETF	464288117
WORLD LARGE STOCK	ACWF	iShares Edge MSCI Multi-Factor Global ETF	46434V316
	IOO	iShares Global 100 ETF	464287572
	ACWI	iShares MSCI ACWI ETF	464288257
	CRBN	iShares MSCI ACWI Low Carbon Target ETF	46434V464
	ACWV	iShares MSCI All Country World Minimum Volatility ETF	464286525
	SDG	iShares MSCI Global Impact ETF	46435G532
	TOK	iShares MSCI Kokusai ETF	464288265
	URTH	iShares MSCI World ETF	464286392
	FLQD	Franklin LibertyQ Global Dividend ETF	35473P306
	FLQG	Franklin LibertyQ Global Equity ETF	35473P405
	ESGF	Invesco Global ESG Revenue ETF	46138G813
	RGLB	Invesco Global Revenue ETF	46138G797
	LVL	Invesco S&P Global Dividend Opportunities Index ETF	46138E271
	JPGE	JPMorgan Diversified Return Global Equity ETF	46641Q100



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