

Appendix A - Schedule 1
(as of July 1, 2020)

Ticker	ETP Name	Exchange
SPY	SPDR S&P 500 ETF Trust	NYSE ARCA
QQQ	Invesco QQQ Trust	NASDAQ
IWM	iShares Russell 2000 ETF	NYSE ARCA
HYG	iShares iBoxx \$ High Yield Corporate Bond ETF	NYSE ARCA
EEM	iShares MSCI Emerging Markets ETF	NYSE ARCA
EFA	iShares MSCI EAFE ETF	NYSE ARCA
IVV	iShares Core S&P 500 ETF	NYSE ARCA
LQD	iShares iBoxx \$ Investment Grade Corporate Bond ETF	NYSE ARCA
TLT	iShares 20+ Year Treasury Bond ETF	NASDAQ
GLD	SPDR Gold Trust	NYSE ARCA
XLF	Financial Select Sector SPDR Fund	NYSE ARCA
VOO	Vanguard S&P 500 ETF	NYSE ARCA
GDX	VanEck Vectors Gold Miners ETF	NYSE ARCA
XLK	Technology Select Sector SPDR Fund	NYSE ARCA
DIA	SPDR Dow Jones Industrial Average ETF Trust	NYSE ARCA
VXX	iPath Series B S&P 500 VIX Short-Term Futures ETN	CBOE BZX
XLV	Health Care Select Sector SPDR Fund	NYSE ARCA
FXI	iShares China Large-Cap ETF	NYSE ARCA
XLE	Energy Select Sector SPDR Fund	NYSE ARCA
XLU	Utilities Select Sector SPDR Fund	NYSE ARCA
XLI	Industrial Select Sector SPDR Fund	NYSE ARCA
EWZ	iShares MSCI Brazil ETF	NYSE ARCA
IEMG	iShares Core MSCI Emerging Markets ETF	NYSE ARCA
JNK	SPDR Bloomberg Barclays High Yield Bond ETF	NYSE ARCA
XLP	Consumer Staples Select Sector SPDR Fund	NYSE ARCA
VTI	Vanguard Total Stock Market ETF	NYSE ARCA
IEFA	iShares Core MSCI EAFE ETF	CBOE BZX
AGG	iShares Core U.S. Aggregate Bond ETF	NYSE ARCA
VEA	Vanguard FTSE Developed Markets ETF	NYSE ARCA
VWO	Vanguard FTSE Emerging Markets ETF	NYSE ARCA
IYR	iShares U.S. Real Estate ETF	NYSE ARCA
XLY	Consumer Discretionary Select Sector SPDR Fund	NYSE ARCA
GDXJ	VanEck Vectors Junior Gold Miners ETF	NYSE ARCA
SMH	VanEck Vectors Semiconductor ETF	NASDAQ
XBI	SPDR S&P BIOTECH ETF	NYSE ARCA
VNQ	Vanguard Real Estate ETF	NYSE ARCA
XOP	SPDR S&P Oil & Gas Exploration & Production ETF	NYSE ARCA
IEF	iShares 7-10 Year Treasury Bond ETF	NASDAQ

Ticker	ETP Name	Exchange
EWJ	iShares MSCI Japan ETF	NYSE ARCA
MDY	SPDR S&P Midcap 400 ETF Trust	NYSE ARCA
USO	United States Oil Fund LP	NYSE ARCA
BND	Vanguard Total Bond Market ETF	NASDAQ
EMB	iShares JP Morgan USD Emerging Markets Bond ETF	NASDAQ
SH	ProShares Short S&P500	NYSE ARCA
XLB	Materials Select Sector SPDR Fund	NYSE ARCA
IBB	iShares NASDAQ Biotechnology ETF	NASDAQ
IJR	iShares Core S&P Small Cap ETF	NYSE ARCA
SHY	iShares 1-3 Year Treasury Bond ETF	NASDAQ
SHV	iShares Short Treasury Bond ETF	NASDAQ
KRE	SPDR S&P Regional Banking ETF	NYSE ARCA
IAU	iShares Gold Trust	NYSE ARCA
BIL	SPDR Bloomberg Barclays 1-3 Month T-Bill ETF	NYSE ARCA
SLV	iShares Silver Trust	NYSE ARCA
USMV	iShares Edge MSCI Min Vol USA ETF	CBOE BZX
IWF	iShares Russell 1000 Growth ETF	NYSE ARCA
IJH	iShares Core S&P Mid-Cap ETF	NYSE ARCA
VCIT	Vanguard Intermediate-Term Corporate Bond ETF	NASDAQ
VCSH	Vanguard Short-Term Corporate Bond ETF	NASDAQ
ACWI	iShares MSCI ACWI ETF	NASDAQ
IWD	iShares Russell 1000 Value ETF	NYSE ARCA
MCHI	iShares MSCI China ETF	NASDAQ
VTV	Vanguard Value ETF	NYSE ARCA
TIP	iShares TIPS Bond ETF	NYSE ARCA
SPLV	Invesco S&P 500 Low Volatility ETF	NYSE ARCA
XLRE	Real Estate Select Sector SPDR Fund	NYSE ARCA
VEU	Vanguard FTSE All-World ex-US Index Fund	NYSE ARCA
EWY	iShares MSCI South Korea ETF	NYSE ARCA
VGK	Vanguard FTSE Europe ETF	NYSE ARCA
VGT	Vanguard Information Technology ETF	NYSE ARCA
GOVT	iShares U.S. Treasury Bond ETF	CBOE BZX
VUG	Vanguard Growth ETF	NYSE ARCA
SOXX	iShares PHLX Semiconductor ETF	NASDAQ
XLC	Communication Services Select Sector SPDR Fund	NYSE ARCA
MBB	iShares MBS ETF	NASDAQ
VIG	Vanguard Dividend Appreciation ETF	NYSE ARCA
SCHF	Schwab International Equity ETF	NYSE ARCA
XRT	SPDR S&P Retail ETF	NYSE ARCA
EWT	iShares MSCI Taiwan ETF	NYSE ARCA
IGV	iShares Expanded Tech-Software Sector ETF	CBOE BZX

Ticker	ETP Name	Exchange
PFF	iShares Preferred & Income Securities ETF	NASDAQ
BSV	Vanguard Short-Term Bond ETF	NYSE ARCA
IEI	iShares 3-7 Year Treasury Bond ETF	NASDAQ
IWB	iShares Russell 1000 ETF	NYSE ARCA
ITOT	iShares Core S&P Total U.S. Stock Market ETF	NYSE ARCA
EZU	iShares MSCI Eurozone ETF	CBOE BZX
VT	Vanguard Total World Stock ETF	NYSE ARCA
BKLN	Invesco Senior Loan ETF	NYSE ARCA
MUB	iShares National Muni Bond ETF	NYSE ARCA
IVE	iShares S&P 500 Value ETF	NYSE ARCA
QUAL	iShares Edge MSCI USA Quality Factor ETF	CBOE BZX
VXUS	Vanguard Total International Stock ETF	NASDAQ
VYM	Vanguard High Dividend Yield Index ETF	NYSE ARCA
SVXY	ProShares Short VIX Short-Term Futures ETF	NYSE ARCA
INDA	iShares MSCI India ETF	CBOE BZX
MINT	PIMCO Enhanced Short Maturity Active ETF	NYSE ARCA
VO	Vanguard Mid-Cap ETF	NYSE ARCA
ASHR	Xtrackers Harvest CSI 300 China A-Shares ETF	NYSE ARCA
VB	Vanguard Small-Cap ETF	NYSE ARCA
IVW	iShares S&P 500 Growth ETF	NYSE ARCA
AMPLP	Alerian MLP ETF	NYSE ARCA
EWH	iShares MSCI Hong Kong ETF	NYSE ARCA
IGSB	iShares Short-Term Corporate Bond ETF	NASDAQ
SCHX	Schwab U.S. Large-Cap ETF	NYSE ARCA
JPST	JPMorgan Ultra-Short Income ETF	CBOE BZX
RSX	VanEck Vectors Russia ETF	CBOE BZX
PSQ	ProShares Short QQQ	NYSE ARCA
BNDX	Vanguard Total International Bond ETF	NASDAQ
RSP	Invesco S&P 500 Equal Weight ETF	NYSE ARCA
IWR	iShares Russell Midcap ETF	NYSE ARCA
MTUM	iShares Edge MSCI USA Momentum Factor ETF	CBOE BZX
IWN	iShares Russell 2000 Value ETF	NYSE ARCA
SPLG	SPDR Portfolio S&P 500 ETF	NYSE ARCA
VIXY	ProShares VIX Short-Term Futures ETF	NYSE ARCA
ITB	iShares U.S. Home Construction ETF	CBOE BZX
SPYG	SPDR Portfolio S&P 500 Growth ETF	NYSE ARCA
EWG	iShares MSCI Germany ETF	NYSE ARCA
SJNK	SPDR Bloomberg Barclays Short Term High Yield Bond ETF	NYSE ARCA
SCHB	Schwab U.S. Broad Market ETF	NYSE ARCA
EWV	iShares MSCI Mexico ETF	NYSE ARCA
BIV	Vanguard Intermediate-Term Bond ETF	NYSE ARCA

Ticker	ETP Name	Exchange
KWEB	KraneShares CSI China Internet ETF	NYSE ARCA
SCHD	Schwab US Dividend Equity ETF	NYSE ARCA
IWO	iShares Russell 2000 Growth ETF	NYSE ARCA
SCZ	iShares MSCI EAFE Small-Cap ETF	NASDAQ
HYLB	Xtrackers USD High Yield Corporate Bond ETF	NYSE ARCA
DGRO	iShares Core Dividend Growth ETF	NYSE ARCA
VGSH	Vanguard Short-Term Treasury ETF	NASDAQ
OEF	iShares S&P 100 ETF	NYSE ARCA
IGIB	iShares Intermediate-Term Corporate Bond ETF	NASDAQ
EFAV	iShares Edge MSCI Min Vol EAFE ETF	CBOE BZX
IXUS	iShares Core MSCI Total International Stock ETF	NASDAQ
SPTS	SPDR Portfolio Short Term Treasury ETF	NYSE ARCA
KBE	SPDR S&P Bank ETF	NYSE ARCA
FEZ	SPDR EURO STOXX 50 ETF	NYSE ARCA
ACWX	iShares MSCI ACWI ex U.S. ETF	NASDAQ
AAXJ	iShares MSCI All Country Asia ex Japan ETF	NASDAQ
OIH	VanEck Vectors Oil Services ETF	NYSE ARCA
EWU	iShares MSCI United Kingdom ETF	NYSE ARCA
SPDW	SPDR Portfolio Developed World ex-US ETF	NYSE ARCA
RWM	ProShares Short Russell2000	NYSE ARCA
XHB	SPDR S&P Homebuilders ETF	NYSE ARCA
SCHE	Schwab Emerging Markets Equity ETF	NYSE ARCA
DVY	iShares Select Dividend ETF	NASDAQ
SDY	SPDR S&P Dividend ETF	NYSE ARCA
FLOT	iShares Floating Rate Bond ETF	CBOE BZX
IHI	iShares U.S. Medical Devices ETF	NYSE ARCA
VBR	Vanguard Small Cap Value ETF	NYSE ARCA
USHY	iShares Broad USD High Yield Corporate Bond ETF	CBOE BZX
SHYG	iShares 0-5 Year High Yield Corporate Bond ETF	NYSE ARCA
SPYV	SPDR Portfolio S&P 500 Value ETF	NYSE ARCA
SCHP	Schwab US TIPS ETF	NYSE ARCA
CWB	SPDR Bloomberg Barclays Convertible Securities ETF	NYSE ARCA
VMBS	Vanguard Mortgage-Backed Securities ETF	NASDAQ
DOG	ProShares Short Dow30	NYSE ARCA
FDN	First Trust Dow Jones Internet Index Fund	NYSE ARCA
NEAR	iShares Short Maturity Bond ETF	CBOE BZX
SCHO	Schwab Short-Term US Treasury ETF	NYSE ARCA
VTEB	Vanguard Tax-Exempt Bond ETF	NYSE ARCA
EWC	iShares MSCI Canada ETF	NYSE ARCA
IWS	iShares Russell Mid-Cap Value ETF	NYSE ARCA
BLV	Vanguard Long-Term Bond ETF	NYSE ARCA

Ticker	ETP Name	Exchange
SPIB	SPDR Portfolio Intermediate Term Corporate Bond ETF	NYSE ARCA
VCLT	Vanguard Long-Term Corporate Bond ETF	NASDAQ
IWV	iShares Russell 3000 ETF	NYSE ARCA
NOBL	ProShares S&P 500 Dividend Aristocrats ETF	CBOE BZX
EMLC	VanEck Vectors J.P. Morgan EM Local Currency Bond ETF	NYSE ARCA
ESGU	iShares ESG MSCI USA ETF	NASDAQ
EFV	iShares MSCI EAFE Value ETF	CBOE BZX
VV	Vanguard Large-Cap ETF	NYSE ARCA
FVD	First Trust Value Line Dividend Index Fund	NYSE ARCA
FTSM	First Trust Enhanced Short Maturity ETF	NASDAQ
VDE	Vanguard Energy ETF	NYSE ARCA
VLUE	iShares Edge MSCI USA Value Factor ETF	CBOE BZX
SPSB	SPDR Portfolio Short Term Corporate Bond ETF	NYSE ARCA
SPEM	SPDR Portfolio Emerging Markets ETF	NYSE ARCA
IWP	iShares Russell Mid-Cap Growth ETF	NYSE ARCA
MGK	Vanguard Mega Cap Growth ETF	NYSE ARCA
SCHG	Schwab U.S. Large-Cap Growth ETF	NYSE ARCA
VGIT	Vanguard Intermediate-Term Treasury ETF	NASDAQ
GBIL	Goldman Sachs Access Treasury 0-1 Year ETF	NYSE ARCA
SPAB	SPDR Portfolio Aggregate Bond ETF	NYSE ARCA
SPTI	SPDR Portfolio Intermediate Term Treasury ETF	NYSE ARCA
EWA	iShares MSCI Australia ETF	NYSE ARCA
VHT	Vanguard Health Care ETF	NYSE ARCA
SCHH	Schwab U.S. REIT ETF	NYSE ARCA
VOE	Vanguard Mid-Cap Value ETF	NYSE ARCA
UNG	United States Natural Gas Fund LP	NYSE ARCA
EFG	iShares MSCI EAFE Growth ETF	CBOE BZX
HDV	iShares Core High Dividend ETF	NYSE ARCA
VFH	Vanguard Financials ETF	NYSE ARCA
EDV	Vanguard Extended Duration Treasury ETF	NYSE ARCA
XME	SPDR S&P Metals & Mining ETF	NYSE ARCA
ITA	iShares U.S. Aerospace & Defense ETF	CBOE BZX
HYD	VanEck Vectors High-Yield Municipal Index ETF	CBOE BZX
BBEU	JPMorgan BetaBuilders Europe ETF	CBOE BZX
JETS	US Global Jets ETF	NYSE ARCA
PGX	Invesco Preferred ETF	NYSE ARCA
SCHV	Schwab U.S. Large-Cap Value ETF	NYSE ARCA
VXF	Vanguard Extended Market ETF	NYSE ARCA
VBK	Vanguard Small-Cap Growth ETF	NYSE ARCA
SCHZ	Schwab US Aggregate Bond ETF	NYSE ARCA
SCHA	Schwab U.S. Small-Cap ETF	NYSE ARCA

Ticker	ETP Name	Exchange
IUSG	iShares Core S&P U.S. Growth ETF	NASDAQ
DXJ	WisdomTree Japan Hedged Equity Fund	NYSE ARCA
VTIP	Vanguard Short-Term Inflation-Protected Securities ETF	NASDAQ
BBJP	JPMorgan BetaBuilders Japan ETF	CBOE BZX
ESGE	iShares ESG MSCI EM ETF	NASDAQ
LMBS	First Trust Low Duration Opportunities ETF	NASDAQ
AMJ	J.P. Morgan Alerian MLP Index ETN	NYSE ARCA
ICSH	iShares Ultra Short-Term Bond ETF	CBOE BZX
SCHR	Schwab Intermediate-Term US Treasury ETF	NYSE ARCA
PCY	Invesco Emerging Markets Sovereign Debt ETF	NYSE ARCA
SPYD	SPDR Portfolio S&P 500 High Dividend ETF	NYSE ARCA
VGLT	Vanguard Long-Term Treasury ETF	NASDAQ
ILF	iShares Latin America 40 ETF	NYSE ARCA
IUSV	iShares Core S&P US Value ETF	NASDAQ
IJS	iShares S&P Small-Cap 600 Value ETF	NYSE ARCA
SPHD	Invesco S&P 500 High Dividend Low Volatility ETF	NYSE ARCA
ACWV	iShares Edge MSCI Min Vol Global ETF	CBOE BZX
SPTL	SPDR Portfolio Long Term Treasury ETF	NYSE ARCA
VTWO	Vanguard Russell 2000 ETF	NASDAQ
EWL	iShares MSCI Switzerland ETF	NYSE ARCA
FTEC	Fidelity MSCI Information Technology Index ETF	NYSE ARCA
IYW	iShares U.S. Technology ETF	NYSE ARCA
VPL	Vanguard FTSE Pacific ETF	NYSE ARCA
EEMV	iShares Edge MSCI Min Vol Emerging Markets ETF	CBOE BZX
ARKK	ARK Innovation ETF	NYSE ARCA
GLDM	SPDR Gold MiniShares Trust	NYSE ARCA
USIG	iShares Broad USD Investment Grade Corporate Bond ETF	NASDAQ
TFI	SPDR Nuveen Bloomberg Barclays Municipal Bond ETF	NYSE ARCA
FPE	First Trust Preferred Securities & Income ETF	NYSE ARCA
VOOG	Vanguard S&P 500 Growth ETF	NYSE ARCA
UUP	Invesco DB US Dollar Index Bullish Fund	NYSE ARCA
SCHM	Schwab U.S. Mid-Cap ETF	NYSE ARCA
IYE	iShares U.S. Energy ETF	NYSE ARCA
SGOV	iShares 0-3 Month Treasury Bond ETF	NYSE ARCA
VDC	Vanguard Consumer Staples ETF	NYSE ARCA
IYT	iShares Transportation Average ETF	CBOE BZX
VNQI	Vanguard Global ex-U.S. Real Estate ETF	NASDAQ
FNDX	Schwab Fundamental US Large Co. Index ETF	NYSE ARCA
GSY	Invesco Ultra Short Duration ETF	NYSE ARCA
IYF	iShares U.S. Financials ETF	NYSE ARCA
DBEF	Xtrackers MSCI EAFE Hedged Equity ETF	NYSE ARCA

Ticker	ETP Name	Exchange
IDV	iShares International Select Dividend ETF	CBOE BZX
VPU	Vanguard Utilities ETF	NYSE ARCA
FTCS	First Trust Capital Strength ETF	NASDAQ
GSLC	Goldman Sachs ActiveBeta U.S. Large Cap Equity ETF	NYSE ARCA
EPI	WisdomTree India Earnings Fund	NYSE ARCA
ANGL	VanEck Vectors Fallen Angel High Yield Bond ETF	NASDAQ
FNDF	Schwab Fundamental International Large Co. Index ETF	NYSE ARCA
IEUR	iShares Core MSCI Europe ETF	NYSE ARCA
FLRN	SPDR Bloomberg Barclays Investment Grade Floating Rate ETF	NYSE ARCA
SKYY	First Trust Cloud Computing ETF	NASDAQ
SPMD	SPDR Portfolio S&P 400 Mid Cap ETF	NYSE ARCA
SPTM	SPDR Portfolio S&P 1500 Composite Stock Market ETF	NYSE ARCA
HYS	PIMCO 0-5 Year High Yield Corporate Bond Index ETF	NYSE ARCA
PHYS	#N/A	NYSE ARCA
IJJ	iShares S&P Mid-Cap 400 Value ETF	NYSE ARCA
SRLN	SPDR Blackstone / GSO Senior Loan ETF	NYSE ARCA
VSS	Vanguard FTSE All-World ex-US Small-Cap ETF	NYSE ARCA
VOT	Vanguard Mid-Cap Growth ETF	NYSE ARCA
FIXD	First Trust TCW Opportunistic Fixed Income ETF	NASDAQ
PDBC	Invesco Optimum Yield Diversified Commodity Strategy No K-1 ETF	NASDAQ
EWP	iShares MSCI Spain ETF	NYSE ARCA
PRF	Invesco FTSE RAFI US 1000 ETF	NYSE ARCA
BOND	PIMCO Active Bond ETF	NYSE ARCA
PTLC	Pacer Trendpilot US Large Cap ETF	CBOE BZX
EWQ	iShares MSCI France ETF	NYSE ARCA
REM	iShares Mortgage Real Estate ETF	CBOE BZX
MOAT	VanEck Vectors Morningstar Wide Moat ETF	CBOE BZX
EPP	iShares MSCI Pacific ex-Japan ETF	NYSE ARCA
HEDJ	WisdomTree Europe Hedged Equity Fund	NYSE ARCA
IJK	iShares S&P Mid-Cap 400 Growth ETF	NYSE ARCA
SPHQ	Invesco S&P 500 Quality ETF	NYSE ARCA
ISTB	iShares Core 1-5 Year USD Bond ETF	NASDAQ
GUNR	FlexShares Morningstar Global Upstream Natural Resources Index Fund	NYSE ARCA
SHM	SPDR Nuveen Bloomberg Barclays Short Term Municipal Bond ETF	NYSE ARCA
SUB	iShares Short-Term National Muni Bond ETF	NYSE ARCA
IUSB	iShares Core Total USD Bond Market ETF	NASDAQ
FNDA	Schwab Fundamental US Small Co. Index ETF	NYSE ARCA
KBWB	Invesco KBW Bank ETF	NASDAQ
VONG	Vanguard Russell 1000 Growth ETF	NASDAQ
TOTL	SPDR DoubleLine Total Return Tactical ETF	NYSE ARCA
QTEC	First Trust NASDAQ-100 Technology Sector Index Fund	NASDAQ

Ticker	ETP Name	Exchange
FLGV	Franklin Liberty U.S. Treasury Bond ETF	NYSE ARCA
TLH	iShares 10-20 Year Treasury Bond ETF	NYSE ARCA
IJT	iShares S&P Small-Cap 600 Growth ETF	NASDAQ
HEFA	iShares Currency Hedged MSCI EAFE ETF	CBOE BZX
IXN	iShares Global Tech ETF	NYSE ARCA
SGOL	Aberdeen Standard Physical Gold Shares ETF	NYSE ARCA
VOX	Vanguard Communication Services ETF	NYSE ARCA
EZA	iShares MSCI South Africa ETF	NYSE ARCA
ONEQ	Fidelity Nasdaq Composite Index Tracking Stock	NASDAQ
IYG	iShares US Financial Services ETF	NYSE ARCA
VIS	Vanguard Industrials ETF	NYSE ARCA
XMLV	Invesco S&P MidCap Low Volatility ETF	NYSE ARCA
USFR	WisdomTree Floating Rate Treasury Fund	NYSE ARCA
XAR	SPDR S&P Aerospace & Defense ETF	NYSE ARCA
SPSM	SPDR Portfolio S&P 600 Small Cap ETF	NYSE ARCA
FXH	First Trust Health Care AlphaDEX Fund	NYSE ARCA
SPMB	SPDR Portfolio Mortgage Backed Bond ETF	NYSE ARCA
IGLB	iShares Long-Term Corporate Bond ETF	NYSE ARCA
RODM	Hartford Multifactor Developed Markets (ex-US) ETF	NYSE ARCA
FNDE	Schwab Fundamental Emerging Markets Large Co. Index ETF	NYSE ARCA
STIP	iShares 0-5 Year TIPS Bond ETF	NYSE ARCA
RWX	SPDR Dow Jones International Real Estate ETF	NYSE ARCA
HYMB	SPDR Nuveen Bloomberg Barclays High Yield Municipal Bond ETF	NYSE ARCA
MDYV	SPDR S&P 400 Mid Cap Value ETF	NYSE ARCA
SPLB	SPDR Portfolio Long Term Corporate Bond ETF	NYSE ARCA
IGF	iShares Global Infrastructure ETF	NASDAQ
SLYV	SPDR S&P 600 Small Cap Value ETF	NYSE ARCA
IYH	iShares U.S. Healthcare ETF	NYSE ARCA
VWOB	Vanguard Emerging Markets Government Bond ETF	NASDAQ
PZA	Invesco National AMT-Free Municipal Bond ETF	NYSE ARCA
DGRW	WisdomTree US Quality Dividend Growth Fund	NASDAQ
SIZE	iShares Edge MSCI USA Size Factor ETF	NYSE ARCA
SCHC	Schwab International Small-Cap Equity ETF	NYSE ARCA
VCR	Vanguard Consumer Discretionary ETF	NYSE ARCA
EWI	iShares MSCI Italy ETF	NYSE ARCA
XSLV	Invesco S&P SmallCap Low Volatility ETF	NYSE ARCA
VONV	Vanguard Russell 1000 Value ETF	NASDAQ
HYLS	First Trust Tactical High Yield ETF	NASDAQ
DON	WisdomTree U.S. MidCap Dividend Fund	NYSE ARCA
ARKW	ARK Next Generation Internet ETF	NYSE ARCA
MGC	Vanguard Mega Cap ETF	NYSE ARCA

Ticker	ETP Name	Exchange
PRFZ	Invesco FTSE RAFI US 1500 Small-Mid ETF	NASDAQ
DBC	Invesco DB Commodity Index Tracking Fund	NYSE ARCA
REET	iShares Global REIT ETF	NYSE ARCA
IDEV	iShares Core MSCI International Developed Markets ETF	NYSE ARCA
MLPA	Global X MLP ETF	NYSE ARCA
EMLP	First Trust North American Energy Infrastructure Fund	NYSE ARCA
VNLA	Janus Henderson Short Duration Income ETF	NYSE ARCA
PXF	Invesco FTSE RAFI Developed Markets ex-U.S. ETF	NYSE ARCA
SLQD	iShares 0-5 Year Investment Grade Corporate Bond ETF	NASDAQ
IGM	iShares Expanded Tech Sector ETF	NYSE ARCA
EWS	iShares MSCI Singapore ETF	NYSE ARCA
FXL	First Trust Technology AlphaDEX Fund	NYSE ARCA
RWR	SPDR Dow Jones REIT ETF	NYSE ARCA
IWY	iShares Russell Top 200 Growth ETF	NYSE ARCA
EIDO	iShares MSCI Indonesia ETF	NYSE ARCA
DEM	WisdomTree Emerging Markets High Dividend Fund	NYSE ARCA
BETZ	Roundhill Sports Betting & iGaming ETF	NYSE ARCA
CEF	#N/A	NYSE ARCA
ESGD	iShares ESG MSCI EAFE ETF	NASDAQ
AGGY	WisdomTree Yield Enhanced U.S. Aggregate Bond Fund	NYSE ARCA
BNO	United States Brent Oil Fund LP	NYSE ARCA
BOTZ	Global X Robotics & Artificial Intelligence ETF	NASDAQ
IEV	iShares Europe ETF	NYSE ARCA
IXC	iShares Global Energy ETF	NYSE ARCA
USRT	iShares Core U.S. REIT ETF	NYSE ARCA
EUFN	iShares MSCI Europe Financials ETF	NASDAQ
FTSL	First Trust Senior Loan Fund	NASDAQ
MDYG	SPDR S&P 400 Mid Cap Growth ETF	NYSE ARCA
VIGI	Vanguard International Dividend Appreciation ETF	NASDAQ
URTH	iShares MSCI World ETF	NYSE ARCA
IHF	iShares U.S. Healthcare Providers ETF	NYSE ARCA
SPIP	SPDR Portfolio TIPS ETF	NYSE ARCA
PXH	Invesco FTSE RAFI Emerging Markets ETF	NYSE ARCA
TBF	Proshares Short 20+ Year Treasury	NYSE ARCA
FBT	First Trust NYSE ARCA Arca Biotechnology Index Fund	NYSE ARCA
HEZU	iShares Currency Hedged MSCI Eurozone ETF	NYSE ARCA
DGS	WisdomTree Emerging Markets SmallCap Dividend Fund	NYSE ARCA
FXO	First Trust Financials AlphaDEX Fund	NYSE ARCA
SPHB	Invesco S&P 500 High Beta ETF	NYSE ARCA
FREL	Fidelity MSCI Real Estate Index ETF	NYSE ARCA
VAW	Vanguard Materials ETF	NYSE ARCA

Ticker	ETP Name	Exchange
ARKG	ARK Genomic Revolution ETF	CBOE BZX
FXU	First Trust Utilities AlphaDEX Fund	NYSE ARCA
KSA	iShares MSCI Saudi Arabia ETF	NYSE ARCA
GVI	iShares Intermediate Government/Credit Bond ETF	CBOE BZX
IGOV	iShares International Treasury Bond ETF	NASDAQ
FHLC	Fidelity MSCI Health Care Index ETF	NYSE ARCA
ZROZ	PIMCO 25+ Year Zero Coupon US Treasury Index ETF	NYSE ARCA
IAGG	iShares Core International Aggregate Bond ETF	CBOE BZX
IDU	iShares U.S. Utilities ETF	NYSE ARCA
QLTA	iShares Aaa-A Rated Corporate Bond ETF	NYSE ARCA
XLG	Invesco S&P 500 Top 50 ETF	NYSE ARCA
FBND	Fidelity Total Bond ETF	NYSE ARCA
DLN	WisdomTree U.S. LargeCap Dividend Fund	NYSE ARCA
IQLT	iShares Edge MSCI Intl Quality Factor ETF	NYSE ARCA
MGV	Vanguard Mega Cap Value ETF	NYSE ARCA
ITM	VanEck Vectors AMT-Free Intermediate Municipal Index ETF	CBOE BZX
PULS	PGIM Ultra Short Bond ETF	NYSE ARCA
RPV	Invesco S&P 500 Pure Value ETF	NYSE ARCA
BBIN	JPMorgan BetaBuilders International Equity ETF	CBOE BZX
TAN	Invesco Solar ETF	NYSE ARCA
VONE	Vanguard Russell 1000 ETF	NASDAQ
JKE	iShares Morningstar Large-Cap Growth ETF	NYSE ARCA
RWO	SPDR Dow Jones Global Real Estate ETF	NYSE ARCA
ECH	iShares MSCI Chile ETF	CBOE BZX
CIBR	First Trust NASDAQ Cybersecurity ETF	NASDAQ
VYMI	Vanguard International High Dividend Yield ETF	NASDAQ
LGLV	SPDR SSGA US Large Cap Low Volatility Index ETF	NYSE ARCA
RDVY	First Trust Rising Dividend Achievers ETF	NASDAQ
RPG	Invesco S&P 500 Pure Growth ETF	NYSE ARCA
FNDC	Schwab Fundamental International Small Co. Index ETF	NYSE ARCA
GSIE	Goldman Sachs ActiveBeta International Equity ETF	NYSE ARCA
IXJ	iShares Global Healthcare ETF	NYSE ARCA
DBO	Invesco DB Oil Fund	NYSE ARCA
MJ	ETFMG Alternative Harvest ETF	NYSE ARCA
PSK	SPDR Wells Fargo Preferred Stock ETF	NYSE ARCA
BAB	Invesco Taxable Municipal Bond ETF	NYSE ARCA
QYLD	Global X NASDAQ 100 Covered Call ETF	NASDAQ
SLYG	SPDR S&P 600 Small Cap Growth ETF	NYSE ARCA
SIL	Global X Silver Miners ETF	NYSE ARCA
EWM	iShares MSCI Malaysia ETF	NYSE ARCA
VOOV	Vanguard S&P 500 Value ETF	NYSE ARCA

Ticker	ETP Name	Exchange
BBRE	JPMorgan BetaBuilders MSCI U.S. REIT ETF	CBOE BZX
THD	iShares MSCI Thailand ETF	NYSE ARCA
CMF	iShares California Muni Bond ETF	NYSE ARCA
PPLT	Aberdeen Standard Physical Platinum Shares ETF	NYSE ARCA
PDP	Invesco DWA Momentum ETF	NASDAQ
XT	iShares Exponential Technologies ETF	NASDAQ
FXY	Invesco Currencyshares Japanese Yen Trust	NYSE ARCA
BSCK	Invesco BulletShares 2020 Corporate Bond ETF	NASDAQ
BWX	SPDR Bloomberg Barclays International Treasury Bond ETF	NYSE ARCA
FXE	Invesco CurrencyShares Euro Trust	NYSE ARCA
CWI	SPDR MSCI ACWI ex-US ETF	NYSE ARCA
ICF	iShares Cohen & Steers REIT ETF	CBOE BZX
FMB	First Trust Managed Municipal ETF	NASDAQ
PALL	Aberdeen Standard Physical Palladium Shares ETF	NYSE ARCA
EUM	ProShares Short MSCI Emerging Markets	NYSE ARCA
PGF	Invesco Financial Preferred ETF	NYSE ARCA
CQQQ	Invesco China Technology ETF	NYSE ARCA
BSCM	Invesco BulletShares 2022 Corporate Bond ETF	NASDAQ
FENY	Fidelity MSCI Energy Index ETF	NYSE ARCA
PSLV	#N/A	NYSE ARCA
GXC	SPDR S&P China ETF	NYSE ARCA
AGZ	iShares Agency Bond ETF	NYSE ARCA
XSOE	WisdomTree Emerging Markets ex-State-Owned Enterprises Fund	NYSE ARCA
XSD	SPDR S&P Semiconductor ETF	NYSE ARCA
BSJL	Invesco Bulletshares 2021 High Yield Corporate Bond ETF	NASDAQ
GNR	SPDR S&P Global Natural Resources ETF	NYSE ARCA
FXD	First Trust Consumer Discretionary AlphaDEX Fund	NYSE ARCA
VIOO	Vanguard S&P Small-Cap 600 ETF	NYSE ARCA
SJB	ProShares Short High Yield	NYSE ARCA
FV	First Trust Dorsey Wright Focus 5 ETF	NASDAQ
IPAY	ETFMG Prime Mobile Payments ETF	NYSE ARCA
DES	WisdomTree U.S. SmallCap Dividend Fund	NYSE ARCA
FUTY	Fidelity MSCI Utilities Index ETF	NYSE ARCA
PHB	Invesco Fundamental High Yield Corporate Bond ETF	NYSE ARCA
ESGV	Vanguard ESG U.S. Stock ETF	CBOE BZX
MLPI	ETRACS Alerian MLP Infrastructure Index ETN	NYSE ARCA
FDL	First Trust Morningstar Dividend Leaders Index Fund	NYSE ARCA
AOM	iShares Core Moderate Allocation ETF	NYSE ARCA
SPDN	Direxion Daily S&P 500 Bear 1X Shares	NYSE ARCA
KIE	SPDR S&P Insurance ETF	NYSE ARCA
JHMM	John Hancock Multifactor Mid Cap ETF	NYSE ARCA

Ticker	ETP Name	Exchange
DSI	iShares MSCI KLD 400 Social ETF	NYSE ARCA
HEWJ	iShares Currency Hedged MSCI Japan ETF	NYSE ARCA
ICLN	iShares Global Clean Energy ETF	NASDAQ
VRP	Invesco Variable Rate Preferred ETF	NYSE ARCA
JPIN	J.P. Morgan Diversified Return International Equity ETF	NYSE ARCA
IYZ	iShares U.S. Telecommunications ETF	CBOE BZX
SMMV	iShares Edge MSCI Min Vol USA Small-Cap ETF	CBOE BZX
EBND	SPDR Bloomberg Barclays Emerging Markets Local Bond ETF	NYSE ARCA
TUR	iShares MSCI Turkey ETF	NASDAQ
HACK	ETFMG Prime Cyber Security ETF	NYSE ARCA
BSCL	Invesco BulletShares 2021 Corporate Bond ETF	NASDAQ
RING	iShares MSCI Global Gold Miners ETF	NASDAQ
ICVT	iShares Convertible Bond ETF	CBOE BZX
RYT	Invesco S&P 500 Equal Weight Technology ETF	NYSE ARCA
ERUS	iShares MSCI Russia ETF	NYSE ARCA
MLPX	Global X MLP & Energy Infrastructure ETF	NYSE ARCA
CLOU	Global X Cloud Computing ETF	NASDAQ
DFEB	FT Cboe Vest U.S. Equity Deep Buffer ETF - February	CBOE BZX
INTF	iShares Edge MSCI Multifactor Intl ETF	NYSE ARCA
FNCL	Fidelity MSCI Financials Index ETF	NYSE ARCA
KOMP	SPDR S&P Kensho New Economies Composite ETF	NYSE ARCA
IYC	iShares U.S. Consumer Services ETF	NYSE ARCA
LIT	Global X Lithium & Battery Tech ETF	NYSE ARCA
AOR	iShares Core Growth Allocation ETF	NYSE ARCA
DLS	WisdomTree International SmallCap Dividend Fund	NYSE ARCA
FLCB	Franklin Liberty U.S. Core Bond ETF	NYSE ARCA
IDLV	Invesco S&P International Developed Low Volatility ETF	NYSE ARCA
FCG	First Trust Natural Gas ETF	NYSE ARCA
SUSA	iShares MSCI USA ESG Select ETF	NYSE ARCA
EWD	iShares MSCI Sweden ETF	NYSE ARCA
XES	SPDR S&P Oil & Gas Equipment & Services ETF	NYSE ARCA
SCHK	Schwab 1000 Index ETF	NYSE ARCA
QUS	SPDR MSCI USA StrategicFactors ETF	NYSE ARCA
PFFD	Global X U.S. Preferred ETF	NYSE ARCA
RDIV	Invesco S&P Ultra Dividend Revenue ETF	NYSE ARCA
BBAX	JPMorgan BetaBuilders Developed Asia ex-Japan ETF	CBOE BZX
BSJM	Invesco BulletShares 2022 High Yield Corporate Bond ETF	NASDAQ
ROBO	ROBO Global Robotics & Automation Index ETF	NYSE ARCA
CLTL	Invesco Treasury Collateral ETF	NYSE ARCA
SLY	SPDR S&P 600 Small Cap ETF	NYSE ARCA
IOO	iShares Global 100 ETF	NYSE ARCA

Ticker	ETP Name	Exchange
GEM	Goldman Sachs ActiveBeta Emerging Markets Equity ETF	NYSE ARCA
LRGF	iShares Edge MSCI Multifactor USA ETF	NYSE ARCA
LEMB	iShares J.P. Morgan EM Local Currency Bond ETF	NYSE ARCA
IGE	iShares North American Natural Resources ETF	CBOE BZX
FXN	First Trust Energy AlphaDEX Fund	NYSE ARCA
QQEW	First Trust Nasdaq-100 Equal Weighted Index Fund	NASDAQ
HDGE	AdvisorShares Ranger Equity Bear ETF	NYSE ARCA
EMHY	iShares J.P. Morgan EM High Yield Bond ETF	CBOE BZX
GSUS	Goldman Sachs MarketBeta U.S. Equity ETF	CBOE BZX
IEO	iShares U.S. Oil & Gas Exploration & Production ETF	CBOE BZX
USL	United States 12 Month Oil Fund LP	NYSE ARCA
IVOO	Vanguard S&P Mid-Cap 400 ETF	NYSE ARCA
BSJK	Invesco BulletShares 2020 High Yield Corporate Bond ETF	NASDAQ
SRVR	Pacer Benchmark Data & Infrastructure Real Estate SCTR ETF	NYSE ARCA
FSTA	Fidelity MSCI Consumer Staples Index ETF	NYSE ARCA
SDOG	ALPS Sector Dividend Dogs ETF	NYSE ARCA
FJUN	FT Cboe Vest U.S. Equity Buffer ETF - June	CBOE BZX
FPX	First Trust US Equity Opportunities ETF	NYSE ARCA
JKH	iShares Morningstar Mid-Cap Growth ETF	NYSE ARCA
TFLO	iShares Treasury Floating Rate Bond ETF	NYSE ARCA
GSG	iShares S&P GSCI Commodity Indexed Trust	NYSE ARCA
XMMO	Invesco S&P MidCap Momentum ETF	NYSE ARCA
IYY	iShares Dow Jones U.S. ETF	NYSE ARCA
FTA	First Trust Large Cap Value AlphaDEX Fund	NASDAQ
SILJ	ETFMG Prime Junior Silver Miners ETF	NYSE ARCA
IBDM	iShares iBonds Dec 2021 Term Corporate ETF	NYSE ARCA
FDIS	Fidelity MSCI Consumer Discretionary Index ETF	NYSE ARCA
LTPZ	PIMCO 15+ Year US TIPS Index ETF	NYSE ARCA
DWSH	AdvisorShares Dorsey Wright Short ETF	NASDAQ
PPA	Invesco Aerospace & Defense ETF	NYSE ARCA
IBDL	iShares iBonds Dec 2020 Term Corporate ETF	NYSE ARCA
AIA	iShares Asia 50 ETF	NASDAQ
DBEU	Xtrackers MSCI Europe Hedged Equity ETF	NYSE ARCA
PKW	Invesco Buyback Achievers ETF	NASDAQ
MNA	IQ Merger Arbitrage ETF	NYSE ARCA
BAR	GraniteShares Gold Shares	NYSE ARCA
NFRA	FlexShares STOXX Global Broad Infrastructure Index Fund	NYSE ARCA
EWN	iShares MSCI Netherlands ETF	NYSE ARCA
BSCN	Invesco Bulletshares 2023 Corporate Bond ETF	NASDAQ
SDIV	Global X Superdividend ETF	NYSE ARCA
IYJ	iShares U.S. Industrials ETF	CBOE BZX

Ticker	ETP Name	Exchange
FLQL	Franklin LibertyQ U.S. Equity ETF	CBOE BZX
IPAC	iShares Core MSCI Pacific ETF	NYSE ARCA
DVYE	iShares Emerging Markets Dividend ETF	NYSE ARCA
EWX	SPDR S&P Emerging Markets Small Cap ETF	NYSE ARCA
VSGX	Vanguard ESG International Stock ETF	CBOE BZX
SPGP	Invesco S&P 500 GARP ETF	NYSE ARCA
LDEM	iShares ESG MSCI EM Leaders ETF	NASDAQ
QAI	IQ Hedge Multi-Strategy Tracker ETF	NYSE ARCA
QDF	FlexShares Quality Dividend Index Fund	NYSE ARCA
AOK	iShares Core Conservative Allocation ETF	NYSE ARCA
SRET	Global X SuperDividend REIT ETF	NASDAQ
PTNQ	Pacer Trendpilot 100 ETF	CBOE BZX
JPUS	JPMorgan Diversified Return U.S. Equity ETF	NYSE ARCA
BBCA	JPMorgan BetaBuilders Canada ETF	CBOE BZX
PLW	Invesco 1-30 Laddered Treasury ETF	NASDAQ
BSCO	Invesco BulletShares 2024 Corporate Bond ETF	NASDAQ
JAGG	J.P. Morgan Exchange-Traded Fund Trust	NYSE ARCA
TDIV	First Trust NASDAQ Technology Dividend Index Fund	NASDAQ
DBJP	Xtrackers MSCI Japan Hedged Equity ETF	NYSE ARCA
USSG	Xtrackers MSCI USA ESG Leaders Equity ETF	NYSE ARCA
CORP	PIMCO Investment Grade Corporate Bond Index ETF	NYSE ARCA
IBDN	iShares iBonds Dec 2022 Term Corporate ETF	NYSE ARCA
FTC	First Trust Large Cap Growth AlphaDEX Fund	NASDAQ
FEX	First Trust Large Cap Core AlphaDEX Fund	NASDAQ
SWAN	Amplify BlackSwan Growth & Treasury Core ETF	NYSE ARCA
PEJ	Invesco Dynamic Leisure & Entertainment ETF	NYSE ARCA
EPHE	iShares MSCI Philippines ETF	NYSE ARCA
DJP	iPath Bloomberg Commodity Index Total Return ETN	NYSE ARCA
PDN	Invesco FTSE RAFI Developed Markets ex-US Small-Mid ETF	NYSE ARCA
KBA	KraneShares Bosera MSCI China A Share ETF	NYSE ARCA
PCEF	Invesco CEF Income Composite ETF	NYSE ARCA
EMQQ	Emerging Markets Internet & Ecommerce ETF	NYSE ARCA
FINX	Global X FinTech ETF	NASDAQ
FCOM	Fidelity MSCI Communication Services Index ETF	NYSE ARCA
TAIL	Cambria Tail Risk ETF	CBOE BZX
COMT	iShares Commodities Select Strategy ETF	NASDAQ
WCLD	WisdomTree Cloud Computing Fund	NASDAQ
AOA	iShares Core Aggressive Allocation ETF	NYSE ARCA
PWV	Invesco Dynamic Large Cap Value ETF	NYSE ARCA
SIXH	6 Meridian Hedged Equity-Index Option Strategy ETF	NYSE ARCA
IBDO	iShares iBonds Dec 2023 Term Corporate ETF	NYSE ARCA

Ticker	ETP Name	Exchange
FDVV	Fidelity High Dividend ETF	NYSE ARCA
FEM	First Trust Emerging Markets AlphaDEX Fund	NASDAQ
IXG	iShares Global Financials ETF	NYSE ARCA
INDY	iShares India 50 ETF	NASDAQ
IQDF	FlexShares International Quality Dividend Index Fund	NYSE ARCA
REGL	ProShares S&P MidCap 400 Dividend Aristocrats ETF	CBOE BZX
IAT	iShares U.S. Regional Banks ETF	NYSE ARCA
IHDG	WisdomTree International Hedged Quality Dividend Growth Fund	NYSE ARCA
IBDP	iShares iBonds Dec 2024 Term Corporate ETF	NYSE ARCA
EZM	WisdomTree U.S. MidCap Fund	NYSE ARCA
LVHD	Legg Mason Low Volatility High Dividend ETF	NASDAQ
BTAL	AGFiQ US Market Neutral Anti-Beta Fund	NYSE ARCA
VIOV	Vanguard S&P Small-Cap 600 Value ETF	NYSE ARCA
SUSL	iShares ESG MSCI USA Leaders ETF	NASDAQ
SMDV	ProShares Russell 2000 Dividend Growers ETF	CBOE BZX
GWX	SPDR S&P International Small Cap ETF	NYSE ARCA
FDLO	Fidelity Low Volatility Factor ETF	NYSE ARCA
VTC	Vanguard Total Corporate Bond ETF	NASDAQ
DBA	Invesco DB Agriculture Fund	NYSE ARCA
KXI	iShares Global Consumer Staples ETF	NYSE ARCA
FIVG	Defiance Next Gen Connectivity ETF	NYSE ARCA
SIVR	Aberdeen Standard Physical Silver Shares ETF	NYSE ARCA
PTMC	Pacer Trendpilot US Mid Cap ETF	CBOE BZX
VIIX	VelocityShares VIX Short-Term ETN	NASDAQ
DWM	WisdomTree International Equity Fund	NYSE ARCA
NUAG	Nuveen Enhanced Yield U.S. Aggregate Bond ETF	NYSE ARCA
MXI	iShares Global Materials ETF	NYSE ARCA
IBUY	Amplify Online Retail ETF	NASDAQ
DIV	Global X SuperDividend US ETF	NYSE ARCA
IWC	iShares Micro-Cap ETF	NYSE ARCA
CFA	VictoryShares US 500 Volatility Wtd ETF	NASDAQ
XPH	SPDR S&P Pharmaceuticals ETF	NYSE ARCA
JHML	John Hancock Multifactor Large Cap ETF	NYSE ARCA
EES	WisdomTree U.S. SmallCap Fund	NYSE ARCA
ZIV	VelocityShares Daily Inverse VIX Medium-Term ETN	NASDAQ
PEY	Invesco High Yield Equity Dividend Achievers ETF	NASDAQ
REZ	iShares Residential Real Estate ETF	NYSE ARCA
FDT	First Trust Developed Markets ex-US AlphaDEX Fund	NASDAQ
HDEF	Xtrackers MSCI EAFE High Dividend Yield Equity ETF	NYSE ARCA
IBDQ	iShares iBonds Dec 2025 Term Corporate ETF	NYSE ARCA
LDUR	PIMCO Enhanced Low Duration Active ETF	NYSE ARCA

Ticker	ETP Name	Exchange
TLTD	FlexShares Morningstar Developed Markets ex-US Factor Tilt	NYSE ARCA
PTH	Invesco DWA Healthcare Momentum ETF	NASDAQ
TILT	FlexShares Morningstar US Market Factor Tilt Index Fund	CBOE BZX
TPYP	Tortoise North American Pipeline Fund	NYSE ARCA
GBF	iShares Government/Credit Bond ETF	NYSE ARCA
IWX	iShares Russell Top 200 Value ETF	NYSE ARCA
SMLF	iShares Edge MSCI Multifactor USA Small-Cap ETF	NYSE ARCA
EPOL	iShares MSCI Poland ETF	NYSE ARCA
TDTT	FlexShares iBoxx 3 Year Target Duration TIPS Index Fund	NYSE ARCA
FXF	Invesco CurrencyShares Swiss Franc Trust	NYSE ARCA
UGA	United States Gasoline Fund LP	NYSE ARCA
DHS	WisdomTree U.S. High Dividend Fund	NYSE ARCA
IWL	iShares Russell Top 200 ETF	NYSE ARCA
FLJP	Franklin FTSE Japan ETF	NYSE ARCA
PBW	Invesco WilderHill Clean Energy ETF	NYSE ARCA
PNQI	Invesco NASDAQ Internet ETF	NASDAQ
FXB	Invesco CurrencyShares British Pound Sterling Trust	NYSE ARCA
PFXF	VanEck Vectors Preferred Securities ex Financials ETF	NYSE ARCA
FIDU	Fidelity MSCI Industrials Index ETF	NYSE ARCA
JMST	JPMorgan Ultra-Short Municipal Income ETF	CBOE BZX
HYEM	VanEck Vectors Emerging Markets High Yield Bond ETF	NYSE ARCA
PAPR	Innovator S&P 500 Power Buffer ETF April	CBOE BZX
PWZ	Invesco California AMT-Free Municipal Bond ETF	NYSE ARCA
ILTB	iShares Core 10+ Year USD Bond ETF	NYSE ARCA
RHS	Invesco S&P 500 Equal Weight Consumer Staples ETF	NYSE ARCA
IEZ	iShares U.S. Oil Equipment & Services ETF	NYSE ARCA
PSJ	Invesco Dynamic Software ETF	NYSE ARCA
PPH	VanEck Vectors Pharmaceutical ETF	NASDAQ
IVLU	iShares Edge MSCI Intl Value Factor ETF	NYSE ARCA
GERM	ETFMG Treatments Testing and Advancements ETF	NYSE ARCA
ULST	SPDR SSGA Ultra Short Term Bond ETF	NYSE ARCA
VNM	VanEck Vectors Vietnam ETF	CBOE BZX
ESPO	VanEck Vectors Video Gaming & eSports ETF	NASDAQ
DWX	SPDR S&P International Dividend ETF	NYSE ARCA
CSM	ProShares Large Cap Core Plus	CBOE BZX
BSJN	Invesco BulletShares 2023 High Yield Corporate Bond ETF	NASDAQ
RPAR	RPAR Risk Parity ETF	NYSE ARCA
LQDH	iShares Interest Rate Hedged Corporate Bond ETF	NYSE ARCA
EMGF	iShares Edge MSCI Multifactor Emerging Markets ETF	CBOE BZX
AAAU	Perth Mint Physical Gold ETF	NYSE ARCA
BBH	VanEck Vectors Biotech ETF	NASDAQ

Ticker	ETP Name	Exchange
OGIG	O'Shares Global Internet Giants ETF	NYSE ARCA
BNDW	Vanguard Total World Bond ETF	NASDAQ
GREK	Global X MSCI Greece ETF	NYSE ARCA
PQDI	Principal Spectrum Tax-Advantaged Dividend Active ETF	NYSE ARCA
USDU	WisdomTree Bloomberg US Dollar Bullish Fund	NYSE ARCA
RYH	Invesco S&P 500 Equal Weight Health Care ETF	NYSE ARCA
NULV	Nuveen ESG Large-Cap Value ETF	CBOE BZX
QEFA	SPDR MSCI EAFE StrategicFactors ETF	NYSE ARCA
OMFL	Invesco Russell 1000 Dynamic Multifactor ETF	CBOE BZX
CMBS	iShares CMBS ETF	NYSE ARCA
DTD	WisdomTree U.S. Total Dividend Fund	NYSE ARCA
HEWG	iShares Currency Hedged MSCI Germany ETF	NASDAQ
GNMA	iShares GNMA Bond ETF	NASDAQ
BKF	iShares MSCI BRIC ETF	NYSE ARCA
NXTG	First Trust Indxx NextG ETF	NASDAQ
EEMA	iShares MSCI Emerging Markets Asia ETF	NASDAQ
VTHR	Vanguard Russell 3000 ETF	NASDAQ
IYK	iShares U.S. Consumer Goods ETF	NYSE ARCA
EPS	WisdomTree U.S. LargeCap Fund	NYSE ARCA
QQQE	Direxion NASDAQ-100 Equal Weighted Index Shares	NYSE ARCA
CXSE	WisdomTree China ex-State-Owned Enterprises Fund	NASDAQ
IBDR	iShares iBonds Dec 2026 Term Corporate ETF	NYSE ARCA
GLTR	Aberdeen Standard Physical Precious Metals Basket Shares ETF	NYSE ARCA
OUSA	OShares U.S. Quality Dividend ETF	NYSE ARCA
XHE	SPDR S&P Health Care Equipment ETF	NYSE ARCA
CLIX	ProShares Long Online/Short Stores ETF	NYSE ARCA
IYM	iShares U.S. Basic Materials ETF	NYSE ARCA
IVOV	Vanguard S&P Mid-Cap 400 Value ETF	NYSE ARCA
BSCP	Invesco Bulletshares 2025 Corporate Bond ETF	NASDAQ
SHYL	Xtrackers Short Duration High Yield Bond ETF	NYSE ARCA
PHO	Invesco Water Resources ETF	NASDAQ
FTSD	Franklin Liberty Short Duration U.S. Government ETF	NYSE ARCA
DIAL	Columbia Diversified Fixed Income Allocation ETF	NYSE ARCA
FLTR	VanEck Vectors Investment Grade Floating Rate ETF	NYSE ARCA
VTWV	Vanguard Russell 2000 Value ETF	NASDAQ
JMBS	Janus Henderson Mortgage-Backed Securities ETF	NYSE ARCA
MDIV	First Trust Multi-Asset Diversified Income Index Fund	NASDAQ
IMTM	iShares Edge MSCI Intl Momentum Factor ETF	NYSE ARCA
RWL	Invesco S&P 500 Revenue ETF	NYSE ARCA
FFTY	Innovator IBD 50 ETF	NYSE ARCA
NANR	SPDR S&P North American Natural Resources ETF	NYSE ARCA

Ticker	ETP Name	Exchange
GIGB	Goldman Sachs Access Investment Grade Corporate Bond ETF	NYSE ARCA
FNX	First Trust Mid Cap Core AlphaDEX Fund	NASDAQ
FEP	First Trust Europe AlphaDEX Fund	NASDAQ
BJAN	Innovator S&P 500 Buffer ETF - January	CBOE BZX
XSW	SPDR S&P Software & Services ETF	NYSE ARCA
FFT1	FormulaFolios Tactical Income ETF	CBOE BZX
SPYX	SPDR S&P 500 Fossil Fuel Reserves Free ETF	NYSE ARCA
GTO	Invesco Total Return Bond ETF	NYSE ARCA
VIDI	Vident International Equity Fund	NYSE ARCA
PWB	Invesco Dynamic Large Cap Growth ETF	NYSE ARCA
IXP	iShares Global Comm Services ETF	NYSE ARCA
SHYD	VanEck Vectors Short High-Yield Municipal Index ETF	CBOE BZX
JXI	iShares Global Utilities ETF	NYSE ARCA
AVUS	Avantis U.S. Equity ETF	NYSE ARCA
EAGG	iShares ESG U.S. Aggregate Bond ETF	NYSE ARCA
STPZ	PIMCO 1-5 Year US TIPS Index ETF	NYSE ARCA
GMF	SPDR S&P Emerging Asia Pacific ETF	NYSE ARCA
FYX	First Trust Small Cap Core AlphaDEX Fund	NASDAQ
MEAR	iShares Short Maturity Municipal Bond ETF	CBOE BZX
EFZ	ProShares Short MSCI EAFE	NYSE ARCA
PJAN	Innovator S&P 500 Power Buffer ETF - January	CBOE BZX
PMAY	Innovator S&P 500 Power Buffer ETF - May	CBOE BZX
VIXM	ProShares VIX Mid-Term Futures ETF	NYSE ARCA
FLCO	Franklin Liberty Investment Grade Corporate ETF	NYSE ARCA
RYU	Invesco S&P 500 Equal Weight Utilities ETF	NYSE ARCA
FGD	First Trust Dow Jones Global Select Dividend Index Fund	NYSE ARCA
MUNI	PIMCO Intermediate Municipal Bond Active ETF	NYSE ARCA
FM	iShares MSCI Frontier 100 ETF	NYSE ARCA
ARKQ	ARK Autonomous Technology & Robotics ETF	CBOE BZX
DAUG	First Trust Exchange-Traded Fund VIII Deep Buffer August Fund	CBOE BZX
CFO	VictoryShares US 500 Enhanced Volatility Wtd ETF	NASDAQ
FTLS	First Trust Long/Short Equity ETF	NYSE ARCA
EWZS	iShares MSCI Brazil Small-Cap ETF	NASDAQ
RAVI	FlexShares Ready Access Variable Income Fund	NYSE ARCA
IHE	iShares U.S. Pharmaceuticals ETF	NYSE ARCA
PSCH	Invesco S&P SmallCap Health Care ETF	NASDAQ
CDC	VictoryShares US EQ Income Enhanced Volatility Wtd ETF	NASDAQ
EELV	Invesco S&P Emerging Markets Low Volatility ETF	NYSE ARCA
JO	iPath Series B Bloomberg Coffee Subindex Total Return ETN	NYSE ARCA
FEMB	First Trust Emerging Markets Local Currency Bond ETF	NASDAQ
TECB	iShares U.S. Tech Breakthrough Multisector ETF	NYSE ARCA

Ticker	ETP Name	Exchange
VTWG	Vanguard Russell 2000 Growth ETF	NASDAQ
VIQG	Vanguard S&P Small-Cap 600 Growth ETF	NYSE ARCA
FNY	First Trust Mid Cap Growth AlphaDEX Fund	NASDAQ
HAUZ	Xtrackers International Real Estate ETF	NYSE ARCA
EUSA	iShares MSCI USA Equal Weighted ETF	NYSE ARCA
CGW	Invesco S&P Global Water Index ETF	NYSE ARCA
FXR	First Trust Industrials/Producer Durables AlphaDEX Fund	NYSE ARCA
CEMB	iShares J.P. Morgan EM Corporate Bond ETF	CBOE BZX
SIXA	6 Meridian Mega Cap Equity ETF	NYSE ARCA
IYLD	iShares Morningstar Multi-Asset Income ETF	CBOE BZX
DFJ	WisdomTree Japan SmallCap Dividend Fund	NYSE ARCA
EMBD	Global X Emerging Markets Bond ETF	NYSE ARCA
FCVT	First Trust SSI Strategic Convertible Securities ETF	NASDAQ
NULG	Nuveen ESG Large-Cap Growth ETF	CBOE BZX
MOO	VanEck Vectors Agribusiness ETF	NYSE ARCA
FLDR	Fidelity Low Duration Bond Factor ETF	CBOE BZX
PTF	Invesco DWA Technology Momentum ETF	NASDAQ
OUNZ	VanEck Merk Gold Trust	NYSE ARCA
VRIG	Invesco Variable Rate Investment Grade ETF	NASDAQ
IVOG	Vanguard S&P Mid-Cap 400 Growth ETF	NYSE ARCA
MORT	VanEck Vectors Mortgage REIT Income ETF	NYSE ARCA
QDEF	FlexShares Quality Dividend Defensive Index Fund	NYSE ARCA
SNPE	Xtrackers S&P 500 ESG ETF	NYSE ARCA
XNTK	SPDR NYSE ARCA Technology ETF	NYSE ARCA
AVDE	Avantis International Equity ETF	NYSE ARCA
JQUA	JPMorgan U.S. Quality Factor ETF	NYSE ARCA
SECT	Main Sector Rotation ETF	CBOE BZX
FIW	First Trust Water ETF	NYSE ARCA
RYE	Invesco S&P 500 Equal Weight Energy ETF	NYSE ARCA
AVUV	Avantis U.S. Small Cap Value ETF	NYSE ARCA
CRBN	iShares MSCI ACWI Low Carbon Target ETF	NYSE ARCA
AMZA	InfraCap MLP ETF	NYSE ARCA
QCLN	First Trust Nasdaq Clean Edge Green Energy Index Fund	NASDAQ
JKG	iShares Morningstar Mid-Cap ETF	NYSE ARCA
FDG	American Century Focused Dynamic Growth ETF	CBOE BZX
PSI	Invesco Dynamic Semiconductors ETF	NYSE ARCA
JHSC	John Hancock Multifactor Small Cap ETF	NYSE ARCA
OILK	ProShares K-1 Free Crude Oil Strategy ETF	CBOE BZX
IFV	First Trust Dorsey Wright International Focus 5 ETF	NASDAQ
SMLV	SPDR SSGA US Small Cap Low Volatility Index ETF	NYSE ARCA
SPGM	SPDR Portfolio MSCI Global Stock Market ETF	NYSE ARCA

Ticker	ETP Name	Exchange
DFE	WisdomTree Europe SmallCap Dividend Fund	NYSE ARCA
FVC	First Trust Dorsey Wright Dynamic Focus 5 ETF	NASDAQ
ESML	iShares ESG MSCI USA Small Cap ETF	CBOE BZX
CDL	VictoryShares US Large Cap High Dividend Volatility Wtd ETF	NASDAQ
FXC	Invesco CurrencyShares Canadian Dollar Trust	NYSE ARCA
RXI	iShares Global Consumer Discretionary ETF	NYSE ARCA
EDIV	SPDR S&P Emerging Markets Dividend ETF	NYSE ARCA
JKD	iShares Morningstar Large-Cap ETF	NYSE ARCA
IGHG	ProShares Investment Grade-Interest Rate Hedged	CBOE BZX
NTSX	WisdomTree 90/60 U.S. Balanced Fund	NYSE ARCA
JPEM	J.P. Morgan Diversified Return Emerging Markets Equity ETF	NYSE ARCA
RGI	Invesco S&P 500 Equal Weight Industrials ETF	NYSE ARCA
EMTY	ProShares Decline of the Retail Store ETF	NYSE ARCA
FCOR	Fidelity Corporate Bond ETF	NYSE ARCA
POCT	Innovator S&P 500 Power Buffer ETF - October	CBOE BZX
JPHY	JPMORGAN HIGH YIELD RESEARCH ENHANCED ETF	CBOE BZX
RTH	VanEck Vectors Retail ETF	NASDAQ
FALN	iShares Fallen Angels USD Bond ETF	NASDAQ
FXG	First Trust Consumer Staples AlphaDEX Fund	NYSE ARCA
BYLD	iShares Yield Optimized Bond ETF	NYSE ARCA
GSEW	Goldman Sachs Equal Weight U.S. Large Cap Equity ETF	CBOE BZX
ARKF	ARK Fintech Innovation ETF	NYSE ARCA
GQRE	FlexShares Global Quality Real Estate Index Fund	NYSE ARCA
PID	Invesco International Dividend Achievers ETF	NASDAQ
NYF	iShares New York Muni Bond ETF	NYSE ARCA
FFEB	FT Cboe Vest U.S. Equity Buffer ETF - February	CBOE BZX
BIZD	VanEck Vectors BDC Income ETF	NYSE ARCA
SUSB	iShares ESG 1-5 Year USD Corporate Bond ETF	NASDAQ
FVAL	Fidelity Value Factor ETF	NYSE ARCA
IFGL	iShares International Developed Real Estate ETF	NASDAQ
SIXL	6 Meridian Low Beta Equity Strategy ETF	NYSE ARCA
WIP	SPDR FTSE International Government Inflation-Protected Bond ETF	NYSE ARCA
DEEP	Roundhill Acquirers Deep Value ETF	NYSE ARCA
UJAN	Innovator S&P 500 Ultra Buffer ETF - January	CBOE BZX
JKI	iShares Morningstar Mid-Cap Value ETF	NASDAQ
TMFC	Motley Fool 100 Index ETF	CBOE BZX
EEMS	iShares MSCI Emerging Markets Small Cap ETF	NYSE ARCA
MYY	ProShares Short S&P Mid Cap400	NYSE ARCA
IAI	iShares U.S. Broker-Dealers & Securities Exchanges ETF	NYSE ARCA
FLT	Fidelity Limited Term Bond ETF	NYSE ARCA
ATMP	Barclays ETN+ Select MLP ETN	CBOE BZX

Ticker	ETP Name	Exchange
JKF	iShares Morningstar Large Cap Value ETF	NYSE ARCA
SBIO	ALPS Medical Breakthroughs ETF	NYSE ARCA
SPBO	SPDR Portfolio Corporate Bond ETF	NYSE ARCA
DTN	WisdomTree U.S. Dividend ex-Financials Fund	NYSE ARCA
ENZL	iShares MSCI New Zealand ETF	NASDAQ
EQAL	Invesco Russell 1000 Equal Weight ETF	NYSE ARCA
HYZD	WisdomTree Interest Rate Hedged High Yield Bond Fund	NASDAQ
FMAT	Fidelity MSCI Materials Index ETF	NYSE ARCA
KBWD	Invesco KBW High Dividend Yield Financial ETF	NASDAQ
IBDS	iShares iBonds Dec 2027 Term Corporate ETF	NYSE ARCA
AWTM	Aware Ultra-Short Duration Enhanced Income ETF	NYSE ARCA
PJP	Invesco Dynamic Pharmaceuticals ETF	NYSE ARCA
BCI	Aberdeen Standard Bloomberg All Commodity Strategy K-1 Free ETF	NYSE ARCA
USMC	Principal U.S. Mega-Cap Multi-Factor Index ETF	NASDAQ
UCON	First Trust TCW Unconstrained Plus Bond ETF	NYSE ARCA
XTN	SPDR S&P Transportation ETF	NYSE ARCA
ONLN	ProShares Online Retail ETF	NYSE ARCA
DOL	WisdomTree International LargeCap Dividend Fund	NYSE ARCA
RYF	Invesco S&P 500 Equal Weight Financials ETF	NYSE ARCA
FDRR	Fidelity Dividend ETF for Rising Rates	NYSE ARCA
PICK	iShares MSCI Global Metals & Mining Producers ETF	CBOE BZX
BWZ	SPDR Bloomberg Barclays Short Term International Treasury Bond ETF	NYSE ARCA
BBUS	JP Morgan Betabuilders U.S. Equity ETF	CBOE BZX
PJUL	Innovator S&P 500 Power Buffer ETF - July	CBOE BZX
NUSC	Nuveen ESG Small-Cap ETF	CBOE BZX
DNL	WisdomTree Global ex-US Quality Dividend Growth Fund	NYSE ARCA
SMIN	iShares MSCI India Small Cap ETF	CBOE BZX
HTRB	Hartford Total Return Bond ETF	NYSE ARCA
DTH	WisdomTree International High Dividend Fund	NYSE ARCA
DEUS	Xtrackers Russell 1000 Comprehensive Factor ETF	NYSE ARCA
MFEM	PIMCO RAFI Dynamic Multi-Factor Emerging Markets Equity ETF	NYSE ARCA
EXI	iShares Global Industrials ETF	NYSE ARCA
HUSV	First Trust Horizon Managed Volatility Domestic ETF	NYSE ARCA
TDTF	FlexShares iBoxx 5 Year Target Duration TIPS Index Fund	NYSE ARCA
FPEI	First Trust Institutional Preferred Securities & Income ETF	NYSE ARCA
VUSE	Vident Core US Equity Fund	NYSE ARCA
PAVE	Global X U.S. Infrastructure Development ETF	CBOE BZX
PBP	Invesco S&P 500 BuyWrite ETF	NYSE ARCA
PSP	Invesco Global Listed Private Equity ETF	NYSE ARCA
PTBD	Pacer Trendpilot US Bond ETF	NYSE ARCA
PJUN	Innovator S&P 500 Power Buffer ETF - June	CBOE BZX

Ticker	ETP Name	Exchange
SNLN	Highland iBoxx Senior Loan ETF	NASDAQ
JPGB	JPMorgan Global Bond Opportunities ETF	CBOE BZX
LRGE	ClearBridge Large Cap Growth ESG ETF	NASDAQ