

## Putnam VT Multi-Asset Absolute Return Fund

### Full holdings as of September 30, 2021

US 10YR NOTE (CBT)DEC21 TYZ1	68.57
UBSPUSER R US0001M P 05/23/23 UB	35.36
MLFCF15 R US0003M P 06/20/23 BA	21.91
GSGLPWDL R US0001M P 12/15/25 GS	19.58
US 10YR ULTRA FUT DEC21 UXYZ1	8.83
BEFSBAXD R 0.1 P 05/26/22 BC	7.66
S&P500 EMINI FUT DEC21 ESZ1	6.53
JPCMPTFL R US0001M P 09/22/22 JP	5.26
FNMA FN30 TBA UMBS 04.0000 10/01/2051	4.65
FNMA FN30 TBA UMBS 03.5000 10/01/2051	4.59
FNMA FN30 TBA UMBS 03.0000 10/01/2051	4.54
GSVIUS85 R 0.45 P 12/15/25 GS	3.39
RU10VATR R US0001M P 02/05/22 JP	2.94
ENERGY SELECT SECTOR SPDR SEDOL 2402466	2.87
FINANCIAL SELECT SECTOR SPDR SEDOL 2364038	2.70
TREASURY BILL 00.0000 10/14/2021	2.61
GSVIVV69 R 0.3 P 12/15/25 GS	1.94
CITI COMMOD F3-F0 4X LEVERED INDEX	1.84
CITI CROSS-ASSET TREND 10% VOL INDEX	1.84
TREASURY BILL 00.0000 03/10/2022	1.74
COMM SERV SELECT SECTOR SPDR SEDOL BFXHC51	1.59
BAML COMMODITY MLBX4SX6 ER STRATEGY	1.58
TREASURY BILL 00.0000 03/17/2022	1.41
NASDAQ 100 E-MINI DEC21 NQZ1	1.28
MATERIALS SELECT SECTOR SPDR SEDOL 2436841	1.26
FMS WERTMANAGEMENT 34411GX43 DCP 10/04/2021	1.09
LIBERTY STREET FUNDING LLC 53127TX65 DCP 10/06/2021	1.09
DNB BANK ASA 2332K0XC1 DCP 10/12/2021	1.09
EXPORT DEVELOPMENT CANADA 30215GY22 DCP 11/02/2021	1.09
VICTORY RECEIVABLES CORP 92646KXS6 DCP 10/26/2021	1.09
TORONTO-DOMINION BANK/THE 89119AY51 DCP 11/05/2021	1.09
FHLB 313385QF6 GDC 12/08/2021	1.09
NATIONAL AUSTRALIA BANK LTD 63254EY95 DCP 11/09/2021	1.09
TREASURY BILL 00.0000 12/23/2021	1.09
TREASURY BILL 00.0000 12/30/2021	1.09
TREASURY BILL 00.0000 01/13/2022	1.09
TREASURY BILL 00.0000 01/20/2022	1.09
ABN AMRO FUNDING USA LLC 00084BY16 DCP 11/01/2021	1.09
TOTALENERGIES CAPITAL CANADA 89153PYN6 DCP 11/22/2021	1.09
ATLANTIC ASSET SECURITIZATION 04821TYJ8 DCP 11/18/2021	1.09
SOCIETE GENERALE SA 83369BZ25 DCP 12/02/2021	1.09
SKANDINAVISKA ENSKILDA BANKEN 83050TZ95 DCP 12/09/2021	1.09
SHEFFIELD RECEIVABLES CO LLC 82124LZD7 DCP 12/13/2021	1.09
GSVICUB3 R 0.45 P 12/15/25 GS	1.04
SAMSUNG ELECTRONICS CO LTD SEDOL 6771720	0.79

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GSVIWVOL R 0.3 P 12/15/25 GS	0.77
TAIWAN SEMICONDUCTOR-SP ADR SEDOL 2113382	0.68
S&P GSCI LIGHT ENERGY ER	0.55
ALIBABA GROUP HOLDING LTD SEDOL BK6YZP5	0.54
MSCI EAFE DEC21 MFSZ1	0.49
E-MINI RUSS 2000 DEC21 RTYZ1	0.48
TREASURY BILL 00.0000 10/05/2021	0.43
TENCENT HOLDINGS LTD SEDOL BMMV2K8	0.38
REPUBLICA ORIENT URUGUAY USD 04.3750 10/27/2027	0.35
INFOSYS LTD SEDOL 6205122	0.33
CDX CDX.EM.36 100.0 12/20/2026	0.33
CAS 2016-C02 1B 12.3360 09/25/2028	0.30
JD.COM INC-ADR SEDOL BMM27D9	0.28
MSCI EMGMKT DEC21 MESZ1	0.27
VALE SA-SP ADR SEDOL 2857334	0.26
PARADE TECHNOLOGIES LTD SEDOL B6RV676	0.25
KB FINANCIAL GROUP INC SEDOL B3DF0Y6	0.25
YUM CHINA HOLDINGS INC SEDOL BYW4289	0.24
PING AN INSURANCE GROUP CO-H SEDOL B01FLR7	0.24
KIA CORP SEDOL 6490928	0.23
EVERGREEN MARINE CORP LTD SEDOL 6324500	0.23
HANA FINANCIAL GROUP SEDOL B0RNRF5	0.23
UNITED MEXICAN STATES USD 05.5500 01/21/2045	0.22
MINDTREE LTD SEDOL B1LHCW2	0.22
MMC NORILSK NICKEL PJSC-ADR SEDOL BYSW6D0	0.22
CHINA SHENHUA ENERGY CO-H SEDOL B09N7M0	0.22
CSPC PHARMACEUTICAL GROUP LT SEDOL 6191997	0.22
TECH MAHINDRA LTD SEDOL BWFGD63	0.22
WIPRO LTD SEDOL 6206051	0.21
ZHONGSHENG GROUP HOLDINGS SEDOL B633D97	0.21
SOUTHERN COPPER CORP SEDOL 2823777	0.20
YOUNGOR GROUP CO 144A/REGS WARRANT 07/29/2022	0.20
AMBEV SA SEDOL BG7ZWY7	0.20
SANY HEAVY INDUSTRY CO LTD 144A/REGS WARRANT 12/16/2021	0.20
SRI TRANG GLOVES THA-FOREIGN SEDOL BMGJNP0	0.19
NOVATEK MICROELECTRONICS COR SEDOL 6346333	0.19
CHAILEASE HOLDING CO LTD SEDOL B58J1S8	0.19
FHR 5053 IB IO 03.0000 12/25/2050	0.19
LG ELECTRONICS INC SEDOL 6520739	0.18
SHENZHEN MINDRAY BIO-MEDICAL ELEC CO 144A/REGS WARRANT 12/10	0.18
LUKOIL PJSC-SPON ADR SEDOL BYZDW27	0.18
BANCO SANTANDER BRASIL-UNIT SEDOL B4V5RY4	0.17
RJHI AB R US0001M P 06/20/23 BA	0.17
WAT US R US0001M P 12/15/25 GS	0.17
WANT WANT CHINA HOLDINGS LTD SEDOL B2Q14Z3	0.17

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MRK GR R US0001M P 12/15/25 GS	0.17
FNR 2017-74 SA IO 05.6640 10/25/2047	0.16
VEDANTA LTD SEDOL 6136040	0.16
FNR 2020-85 IP IO 03.0000 12/25/2050	0.16
A US R US0001M P 12/15/25 GS	0.16
XINYI GLASS HOLDINGS LTD SEDOL B05NXN7	0.15
PKI US R US0001M P 12/15/25 GS	0.15
REALTEK SEMICONDUCTOR CORP SEDOL 6051422	0.15
TATA CONSULTANCY SVS LTD SEDOL B01NPJ1	0.15
IQV US R US0001M P 12/15/25 GS	0.15
MTD US R US0001M P 12/15/25 GS	0.15
CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 JP	0.15
ANGLO AMERICAN PLATINUM LTD SEDOL 6761000	0.14
TMO US R US0001M P 12/15/25 GS	0.14
BANCO BRADESCO SA-PREF SEDOL B00FM53	0.14
SUN PHARMA INDUS SEDOL 6582483	0.14
CAS 2017-C02 2M2 03.7360 09/25/2029	0.14
CATHAY FINANCIAL HOLDING CO SEDOL 6425663	0.13
CHINA YONGDA AUTOMOBILES SER SEDOL B8F2T65	0.13
SCRT 2019-4 M 04.5000 02/25/2059	0.13
KUMHO PETROCHEMICAL CO LTD SEDOL 6499323	0.13
BANK OF JIANGSU CO LTD 144A/REGS WARRANT 09/28/2022	0.13
COSCO SHIPPING HOLDINGS CO-H SEDOL B0B8Z18	0.12
ZTS US R US0001M P 12/15/25 GS	0.12
GNR 2020-173 MI IO 02.5000 11/20/2050	0.12
TATA STEEL LTD SEDOL 6101156	0.12
CHINA FEIHE LTD SEDOL BKOSBL1	0.12
PFE US R US0001M P 12/15/25 GS	0.12
UNITED MICROELECTRONICS CORP SEDOL 6916628	0.11
SHRP 2020-1 NOTE 03.0253 07/25/2024	0.11
SPST 2021-6 A 00.8833 04/25/2022	0.11
MWST 2020-1 A 00.9860 10/25/2053	0.11
SPST 2021-10 A 00.8543 08/08/2022	0.11
MWST 2020-2 A 00.8860 11/25/2053	0.11
HAITIAN INTERNATIONAL HLDGS SEDOL B1L2RC2	0.11
G-BITS NETWORK TECHNOLOGY 144A/REGS WARRANT 10/21/2022	0.11
CHINA MEDICAL SYSTEM HOLDING SEDOL B6WY993	0.10
PETROBRAS GLOBAL FINANCE USD 06.2500 03/17/2024	0.10
IPN FP R US0001M P 12/15/25 GS	0.10
GNR 2018-153 AI IO 04.5000 09/16/2045	0.10
FHR 5082 IQ IO 03.0000 03/25/2051	0.10
ENBRIDGE INC USD 04.2500 12/01/2026	0.10
FNR 2016-3 MI IO 05.5000 02/25/2046	0.10
ILMN US R US0001M P 12/15/25 GS	0.10
QUANTA COMPUTER INC SEDOL 6141011	0.10

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CMLTI 2007-AR5 1A1A	02.9025	04/25/2037	0.10
GNR 2020-33 SA IO	06.0126	03/20/2050	0.09
WFRBS 2012-C7 F	144A 04.5000	06/15/2045	0.09
THAI UNION GROUP PCL-F	SEDOL BYTBHT9		0.09
GNR 2014-184 DI IO	05.5000	12/16/2044	0.09
MRK US R US0001M P	12/15/25	GS	0.09
FNR 2015-30 IO IO	05.5000	05/25/2045	0.09
JNJ US R US0001M P	12/15/25	GS	0.09
PETROLEOS MEXICANOS	USD 06.5000	03/13/2027	0.08
AGILE GROUP HOLDINGS LTD	SEDOL BOPR2F4		0.08
DIM FP R US0001M P	12/15/25	GS	0.08
GSMS 2014-GC24 D	144A 04.6691	09/10/2047	0.08
GNR 2010-125 SD IO	06.5954	01/16/2040	0.08
GSK LN R US0001M P	12/15/25	GS	0.08
CMB CMBX.NA.BB.7 2047-01-17	500.0	01/17/2047	0.08
FNR 2018-51 IO IO	06.5000	07/25/2048	0.08
EXTRA AB R US0001M P	06/20/23	BA	0.08
AZN US US0001M	12/15/25	GS	0.08
ABBV US R US0001M P	12/15/25	GS	0.08
CHINA MINSHENG BANKING COR-H	SEDOL B57JY24		0.08
PROVINCIA DE BUENOS P/P	144A 03.9000	09/01/2037	0.08
OPAP SA	SEDOL 7107250		0.07
PRGO US R US0001M P	12/15/25	GS	0.07
POSCO	SEDOL 6693233		0.07
HELLENIC TELECOMMUN ORGANIZA	SEDOL 5051605		0.07
PETROBRAS GLOBAL FIN	USD 05.9990	01/27/2028	0.07
SAN FP R US0001M P	12/15/25	GS	0.07
4506 JP R US0001M P	12/15/25	GS	0.07
GNR 2016-H02 BI IO	01.8295	11/20/2065	0.07
MAXSCEND MICROELECTRONICS	144A/REGS WARRANT	07/29/2022	0.07
FNR 2020-47 ID IO	04.0000	07/25/2050	0.07
GNR 2015-H11 CI IO	01.8633	05/20/2065	0.07
FNR 2017-8 SB IO	06.0140	02/25/2047	0.07
VTRS US R US0001M P	12/15/25	GS	0.07
LITE-ON TECHNOLOGY CORP	SEDOL 6519481		0.07
BANCO SANTANDER CHILE	SEDOL 2000257		0.07
FHR 4964 IA IO	04.5000	03/25/2050	0.07
FNR 2016-88 SK IO	05.9140	12/25/2046	0.06
SBERBANK PJSC -SPONSORED ADR	SEDOL B5SC091		0.06
CAS 2017-C03 1M2	03.0860	10/25/2029	0.06
AZN LN R US0001M P	12/15/25	GS	0.06
STACR 2020-HQA2 M2	03.1860	03/25/2050	0.06
BIIB US R US0001M P	12/15/25	GS	0.06
GNR 2015-H15 JI IO	01.9501	06/20/2065	0.06
MARFRIG GLOBAL FOODS SA	SEDOL B1YWHR4		0.06

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BAYN GR R US0001M P 12/15/25 GS	0.06
AUD/USD 10/20/2021 GSFX	0.06
4581 JP R US0001M P 12/15/25 GS	0.06
SHAANXI COAL INDUSTRY 144A/REGS WARRANT 07/29/2022	0.06
CTBC FINANCIAL HOLDING CO LT SEDOL 6527666	0.06
BMY US R US0001M P 12/15/25 GS	0.05
PETROBRAS GLOBAL FINANCE USD 08.7500 05/23/2026	0.05
GNR 2015-H25 BI IO 01.8749 10/20/2065	0.05
CSL AU R US0001M P 12/15/25 GS	0.05
FNR 2017-108 SA IO 06.0640 01/25/2048	0.05
CAS 2015-C04 1M2 05.7860 04/25/2028	0.05
FNR 2020-16 SG IO 05.9640 03/25/2050	0.05
WAMU 2004-AR12 A2B 01.0060 10/25/2044	0.05
GNR 2018-91 SJ IO 06.1626 07/20/2048	0.05
GILD US R US0001M P 12/15/25 GS	0.05
CAS 2017-C02 2B1 05.5860 09/25/2029	0.05
GNR 2015-H25 AI IO 01.6042 09/20/2065	0.05
GNR 2010-68 SD IO 06.4926 06/20/2040	0.05
TEVA US R US0001M P 12/15/25 GS	0.05
FNR 2017-32 IP IO 04.5000 05/25/2047	0.05
GNR 2016-150 I IO 05.0000 11/20/2046	0.05
JPMBB 2013-C14 E 144A 04.6992 08/15/2046	0.05
GNR 2016-51 MS IO 05.9626 04/20/2046	0.05
POWERLONG REAL ESTATE HOLDIN SEDOL B4LL9N5	0.05
LLY US R US0001M P 12/15/25 GS	0.04
CAS 2020-R01 1B1 03.3360 01/25/2040	0.04
GNR 2017-H14 DI IO 01.6954 06/20/2067	0.04
SEAZEN HOLDINGS CO 144A/REGS WARRANT 06/03/2022	0.04
AMGN US R US0001M P 12/15/25 GS	0.04
FNR 2016-65 CS IO 06.0140 09/25/2046	0.04
BANCO MACRO SA-ADR SEDOL B0Y62M9	0.04
TISCO FINANCIAL-FOREIGN SEDOL B3KFW76	0.04
GNR 2015-H20 CI IO 01.8167 08/20/2065	0.04
CHINA COAL ENERGY CO-H SEDOL B1JNK84	0.04
EMBOTELLADORAS ARCA SA-NOM SEDOL 2823885	0.04
CIPLA LTD SEDOL B011108	0.04
GNR 2015-H09 AI IO 01.7170 04/20/2065	0.04
GNR 2014-H21 AI IO 01.6194 10/20/2064	0.04
EUR/USD PUT 1.1615 20211027 JPMCB	0.04
JPMCC 2006-LDP9 AMS 05.3370 05/15/2047	0.04
PETROLEOS MEXICANOS USD 06.3750 01/23/2045	0.04
GNR 2015-H24 HI IO 02.0585 09/20/2065	0.04
GNR 2018-H05 AI IO 02.3887 02/20/2068	0.04
GNR 2015-H09 BI IO 01.6739 03/20/2065	0.04
ZHUZHOU KIBING GROUP CO 144A/REGS WARRANT 07/29/2022	0.04

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VIFN SW R US0001M P 12/15/25 GS	0.04
GNR 2015-H19 NI IO 01.8986 07/20/2065	0.04
FNR 2013-130 SD IO 06.5140 01/25/2044	0.04
BANK OF SHANGHAI 144A/REGS WARRANT 11/30/2021	0.03
EUR/USD 12/15/2021 JPMCB	0.03
CAS 2018-C05 1M2 02.4360 01/25/2031	0.03
GNR 2019-121 DS IO 06.0126 08/20/2049	0.03
GBP/USD PUT 1.332 20211112 BANKAM	0.03
GNR 2017-H02 BI IO 02.4363 01/20/2067	0.03
1.10 R ISWP FWD SOFRRATE P 12/15/2031	0.03
CMB CMBX.NA.BB.9 2058-09-17 500.0 09/17/2058 CG	0.03
CMB CMBX.NA.BB.6 2063-05-11 500.0 05/11/2063 CS	0.03
COCA-COLA ICECEK AS SEDOL B058ZV4	0.03
EUR/USD PUT 1.155 20211112 GSFX	0.03
LOGAN GROUP CO LTD SEDOL BH6X937	0.03
GNR 2015-53 MI IO 04.0000 04/16/2045	0.03
GNR 2015-H10 CI IO 01.7925 04/20/2065	0.03
4502 JP R US0001M P 12/15/25 GS	0.03
4507 JP R US0001M P 12/15/25 GS	0.03
HARTELEGA HOLDINGS BHD SEDOL B2QPJK5	0.03
CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 MS	0.03
GNR 2018-104 SD IO 06.1126 08/20/2048	0.03
FNR 2016-3 NI IO 06.0000 02/25/2046	0.03
NZD/USD PUT 0.678 20211112 UBS	0.03
4523 JP R US0001M P 12/15/25 GS	0.03
SHINHAN FINANCIAL GROUP LTD SEDOL 6397502	0.03
GNR 2016-H03 AI IO 01.7610 01/20/2066	0.03
KT CORP SEDOL 6505316	0.03
GNR 2016-H08 GI IO 01.4225 04/20/2066	0.03
GNR 2015-80 IA IO 04.5000 06/20/2045	0.03
CAS 2017-C06 2M2 02.8860 02/25/2030	0.03
GNR 2017-H06 BI IO 02.3440 02/20/2067	0.03
GNR 2015-167 BI IO 04.5000 04/16/2045	0.03
0.95 R ISWP FWD US0003M P 12/15/2026	0.03
4530 JP R US0001M P 12/15/25 GS	0.03
INDOFOOD SUKSES MAKMUR TBK P SEDOL 6283979	0.02
ENN NATURAL GAS CO 144A/REGS WARRANT 10/21/2022	0.02
GBP/USD 12/15/2021 SSBT	0.02
GRUPO BIMBO SAB- SERIES A SEDOL 2392471	0.02
KUMBA IRON ORE LTD SEDOL B1G4262	0.02
GNR 2015-187 JI IO 04.0000 03/20/2045	0.02
KOSSAN RUBBER INDUSTRIES SEDOL B0DD1H9	0.02
FHR 4752 PS IO 06.1163 11/15/2047	0.02
GNR 2015-105 LI IO 05.0000 10/20/2039	0.02
CWHL 2005-3 1A1 00.7060 04/25/2035	0.02

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HIK LN R US0001M P 12/15/25 GS	0.02
GNR 2014-146 EI IO 05.0000 10/20/2044	0.02
GNR 2011-17 S IO 05.9626 02/20/2041	0.02
GNR 2015-H16 XI IO 01.8715 07/20/2065	0.02
GNR 2010-9 UI IO 05.0000 01/20/2040	0.02
CMB CMBX.NA.BB.7 2047-01-17 500.0 01/17/2047 GS	0.02
HONG LEONG BANK BERHAD SEDOL 6436892	0.02
GBP/USD 12/15/2021 UBS	0.02
CHF/USD 12/15/2021 UBS	0.02
GNR 2016-H16 DI IO 02.2472 06/20/2066	0.02
GNR 2013-6 AI IO 03.5000 08/20/2039	0.02
WFRBS 2011-C3 E 144A 05.0000 03/15/2044	0.02
GNR 2013-20 QI IO 04.5000 12/16/2042	0.02
4503 JP R US0001M P 12/15/25 GS	0.02
CHINA MERCHANTS BANK-H SEDOL B1DYPZ5	0.02
CHF/USD 12/15/2021 BCAP-FX	0.02
UCB BB R US0001M P 12/15/25 GS	0.02
GNR 2018-127 ID IO 05.0000 07/20/2045	0.02
GNR 2018-127 IB IO 04.5000 06/20/2045	0.02
GLPG NA R US0001M P 12/15/25 GS	0.02
LUN DC R US0001M P 12/15/25 GS	0.02
GNR 2009-121 UI IO 05.0000 12/20/2039	0.02
0.65 R ISWP FWD SES3M P 12/15/2031	0.02
NZD/USD 10/20/2021 SSBT	0.02
GNR 2016-H04 KI IO 01.5172 02/20/2066	0.02
CAD/USD 10/20/2021 SSBT	0.02
ERF FP R US0001M P 12/15/25 GS	0.02
NZD/USD 10/20/2021 RBSF	0.01
GNR 2010-20 UI IO 05.0000 02/20/2040	0.01
SAMSUNG ELECTRO-MECHANICS CO SEDOL 6771689	0.01
JPY/USD 11/17/2021 SSBT	0.01
CMB CMBX.NA.BB.9 2058-09-17 500.0 09/17/2058 CS	0.01
CHF/USD 12/15/2021 JPMCB	0.01
HOPSON DEVELOPMENT HOLDINGS SEDOL BMXJW56	0.01
1.63 R ISWP FWD NOKOIB6M P 12/15/2031	0.01
QUALITAS CONTROLADORA SAB CV SEDOL BYMXF65	0.01
GNR 2015-H10 EI IO 01.5960 04/20/2065	0.01
GNR 2014-163 NI IO 05.0000 02/20/2044	0.01
FOCUS MEDIA 144A/REGS WARRANT 04/12/2023	0.01
INCY US R US0001M P 12/15/25 GS	0.01
FNR 2012-151 PI IO 03.0000 01/25/2043	0.01
EUR/USD 12/15/2021 CSI-FX	0.01
GNR 2015-24 IA IO 03.5000 02/20/2045	0.01
GRF SM R US0001M P 12/15/25 GS	0.01
GBP/USD 12/15/2021 TDBK	0.01

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GNR 2011-H15 AI IO 01.5238 06/20/2061	0.01
GBP/USD 12/15/2021 CSI-FX	0.01
GNR 2013-129 SN IO 06.0626 09/20/2043	0.01
JPY/USD 11/17/2021 JPMCB	0.01
FHR 4193 PI IO 04.0000 03/15/2043	0.01
CHF/USD 12/15/2021 SSBT	0.01
NZD/USD 10/20/2021 BANKAM	0.01
NZD/USD 10/20/2021 HSBCB	0.01
NOK/USD 12/15/2021 GSFY	0.01
NOK/USD 12/15/2021 UBS	0.01
CMB CMBX.NA.BB.9 2058-09-17 500.0 09/17/2058 ML	0.01
FHR 4801 IG IO 03.0000 06/15/2048	0.01
FHR 4206 IP IO 03.0000 12/15/2041	0.01
REGN US R US0001M P 12/15/25 GS	0.01
AUD/USD 10/20/2021 RBSF	0.01
FNR 2013-35 PI IO 03.0000 02/25/2042	0.01
GNR 2013-24 PI IO 04.0000 11/20/2042	0.01
NZD/USD 10/20/2021 TDBK	0.01
AUD/USD 10/20/2021 SSBT	0.01
NOVN SW R US0001M P 12/15/25 GS	0.01
GNR 2016-75 EI IO 03.5000 08/20/2045	0.01
PETROLEOS DE VENEZUELA S REGS 05.3750 04/12/2027	0.01
4568 JP R US0001M P 12/15/25 GS	0.01
CMB CMBX.NA.BB.10 2059-11-17 500.0 11/17/2059 ML	0.01
CMB CMBX.NA.BB.10 2059-11-17 500.0 11/17/2059 CS	0.01
CMB CMBX.NA.BB.10 2059-11-17 500.0 11/17/2059 CS	0.01
AUD/USD 10/20/2021 BCAP-FX	0.01
GBP/USD 12/15/2021 JPMCB	0.01
REPUBLIC OF VENEZUELA REGS 07.6500 04/21/2025	0.01
NZD/USD 10/20/2021 CITI	0.01
CHF/USD 12/15/2021 HSBCB	0.01
CMB CMBX.NA.BB.9 2058-09-17 500.0 09/17/2058 MS	0.01
CHF/USD 12/15/2021 CITI	0.01
CAD/USD 10/20/2021 GSFY	0.01
GNR 2010-35 QI IO 04.5000 03/20/2040	0.01
CAD/USD 10/20/2021 MSCIL	0.00
FUBON FINANCIAL HOLDING CO SEDOL 6411673	0.00
AUD/USD 10/20/2021 HSBCB	0.00
NOK/USD 12/15/2021 SSBT	0.00
REC IM R US0001M P 12/15/25 GS	0.00
OGN US R US0001M P 12/15/25 GS	0.00
SWPTN 5YX30YR 2.8325 USD 02/15/2022 JP	0.00
SEK/USD 12/15/2021 JPMCB	0.00
0.6525 R ISWP FWD SONIA P 12/15/2031	0.00
NZD/USD 10/20/2021 UBS	0.00



## Putnam VT Multi-Asset Absolute Return Fund

### Full holdings as of September 30, 2021

CMB CMBX.NA.BB.11 2054-11-18 500.0 11/18/2054 CG	0.00
EUR/USD 12/15/2021 RBSF	0.00
CHF/USD 12/15/2021 BANKAM	0.00
CMB CMBX.NA.BB.10 2059-11-17 500.0 11/17/2059 MS	0.00
CMB CMBX.NA.BB.10 2059-11-17 500.0 11/17/2059 CG	0.00
CMB CMBX.NA.BB.10 2059-11-17 500.0 11/17/2059 CG	0.00
GNR 2013-79 XI IO 03.5000 11/20/2039	0.00
CAD/USD 10/20/2021 CSI-FX	0.00
CHF/USD 12/15/2021 GSFX	0.00
GBP/USD 12/15/2021 HSBCB	0.00
ORNBV FH R US0001M P 12/15/25 GS	0.00
CMB CMBX.NA.BB.9 2058-09-17 500.0 09/17/2058 GS	0.00
CMB CMBX.NA.BB.9 2058-09-17 500.0 09/17/2058 MS	0.00
CMB CMBX.NA.BB.9 2058-09-17 500.0 09/17/2058 GS	0.00
NZD/USD 10/20/2021 BCAP-FX	0.00
CMB CMBX.NA.BB.11 2054-11-18 500.0 11/18/2054 ML	0.00
CAD/USD 10/20/2021 BCAP-FX	0.00
GNR 2015-99 LI IO 04.0000 07/20/2045	0.00
VRTX US R US0001M P 12/15/25 GS	0.00
FNR 2012-136 PI IO 03.5000 11/25/2042	0.00
NZD/USD 10/20/2021 WPAC	0.00
GBP/USD 12/15/2021 WPAC	0.00
UBSBB 2012-C2 F 144A05.0000 05/10/2063	0.00
CAD/USD 10/20/2021 UBS	0.00
GNR 2013-157 IA IO 03.5000 04/20/2040	0.00
GNR 2013-100 MI IO 03.5000 02/20/2043	0.00
JPY/USD 11/17/2021 RBSF	0.00
CMB CMBX.NA.BB.8 2057-10-17 500.0 10/17/2057 CS	0.00
CMB CMBX.NA.BB.8 2057-10-17 500.0 10/17/2057 CG	0.00
CAS 2015-C02 2M2 04.0860 05/25/2025	0.00
EUR/USD 12/15/2021 WPAC	0.00
0.94375 R ISWP FWD US0003M P 04/01/2026	0.00
NOK/USD 12/15/2021 MSCIL	0.00
SWPTN 10YX20Y P 1.275 USD 03/05/2030 BA	0.00
CMB CMBX.NA.BB.11 2054-11-18 500.0 11/18/2054 CG	0.00
EUR/USD 12/15/2021 TDBK	0.00
CAD/USD 10/20/2021 TDBK	0.00
FNR 2013-31 NI IO 03.0000 06/25/2041	0.00
JPY/USD 11/17/2021 CITI	0.00
CHF/USD 12/15/2021 MSCIL	0.00
AUD/USD 10/20/2021 CSI-FX	0.00
1.3659 R ISWP US0003M P 02/22/2031	0.00
EUR/USD 12/15/2021 BCAP-FX	0.00
CAD/USD 10/20/2021 BANKAM	0.00
CAD/USD 10/20/2021 WPAC	0.00

## Putnam VT Multi-Asset Absolute Return Fund

### Full holdings as of September 30, 2021

JPY/USD 11/17/2021 WPAC	0.00
GNR 2014-133 AI IO 04.0000 10/20/2036	0.00
2.2225 R ISWP FWD US0003M P 06/05/2029	0.00
SWPTN 10YX20Y R 2.8175 USD 03/23/2027 GS	0.00
1.275 R ISWP FWD US0003M P 03/07/2050	0.00
HKD/USD 11/17/2021 SSBT	0.00
1.4255 R ISWP US0003M P 02/24/2031	0.00
GNR 2015-124 NI IO 03.5000 06/20/2039	0.00
GNR 2012-141 WI IO 03.5000 11/20/2041	0.00
HKD/USD 11/17/2021 TDBK	0.00
GNR 2013-102 IP IO 03.5000 06/20/2043	0.00
HKD/USD 11/17/2021 HSBCB	0.00
HKD/USD 11/17/2021 MSCIL	0.00
GNR 2011-116 IB IO 05.0000 10/20/2040	0.00
FHR 4097 PI IO 03.5000 11/15/2040	0.00
HKD/USD 11/17/2021 BANKAM	0.00
HKD/USD 11/17/2021 UBS	0.00
MLCFC 2006-4 XC IO P/P 144A 01.3716 12/12/2049	0.00
GLOW ENERGY PCL - FOREIGN SEDOL B074GX9	0.00
SWPTN 2YX30Y P 2.3075 USD 06/20/2022 BA	-0.00
1.51882 R ISWP US0003M P 03/02/2031	-0.00
NOK/USD 12/15/2021 RBSF	-0.00
JPY/USD 11/17/2021 HSBCB	-0.00
2.3075 R ISWP FWD US0003M P 06/22/2052	-0.00
NZD/USD 10/20/2021 GSFY	-0.00
1.5415 R ISWP US0003M P 10/01/2031	-0.00
SEK/USD 12/15/2021 TDBK	-0.00
SWPTN 10YX20Y P 2.8175 USD 03/23/2027 GS	-0.00
JPY/USD 11/17/2021 BCAP-FX	-0.00
2.184 R ISWP FWD US0003M P 12/07/2030	-0.00
CMB CMBX.NA.BBB-6 2063-05-11 300.0 05/11/2063 BA	-0.00
SWPTN 10YX20Y R 1.275 USD 03/05/2030 BA	-0.00
1.16 R ISWP US0003M P 10/16/2050	-0.00
GBP/USD 12/15/2021 BCAP-FX	-0.00
SEK/USD 12/15/2021 UBS	-0.00
CAD/USD 10/20/2021 CITI	-0.00
CMB CMBX.NA.BBB-6 2063-05-11 300.0 05/11/2063 BA	-0.00
CMB CMBX.NA.A.6 2063-05-11 200.0 05/11/2063 GS	-0.00
NZD/USD 10/20/2021 MSCIL	-0.00
SEK/USD 12/15/2021 RBSF	-0.00
CMB CMBX.NA.A.6 2063-05-11 200.0 05/11/2063 GS	-0.00
CMB CMBX.NA.BBB-6 2063-05-11 300.0 05/11/2063 GS	-0.00
CMB CMBX.NA.BBB-6 2063-05-11 300.0 05/11/2063 GS	-0.00
CAD/USD 10/20/2021 JPMCB	-0.00
CAD/USD 10/20/2021 RBSF	-0.00

## Putnam VT Multi-Asset Absolute Return Fund

### Full holdings as of September 30, 2021

JPY/USD 11/17/2021 BANKAM	-0.00
1.27 R ISWP FWD US0003M P 01/27/2047	-0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 BA	-0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 BA	-0.00
SWPTN 5YX30YP 2.8325 USD 02/15/2022 JP	-0.01
EUR/USD 12/15/2021 CITI	-0.01
SWPTN 2YX30YR 2.3075 USD 06/20/2022 BA	-0.01
-0.05 R ISWP FWD SARON FIXING 3. (MARKET CLOSE. P 12/15/2031	-0.01
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.01
SEK/USD 12/15/2021 BCAP-FX	-0.01
CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 GS	-0.01
NOK/USD 12/15/2021 JPMCB	-0.01
NZD/USD 10/20/2021 CSI-FX	-0.01
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.01
AUD/USD 10/20/2021 TDBK	-0.01
SEK/USD 12/15/2021 SSBT	-0.01
SEK/USD 12/15/2021 BANKAM	-0.01
1.35 R ISWP FWD US0003M P 12/15/2031	-0.01
EUR/USD PUT 1.135 20211112 GSFX	-0.01
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.01
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.01
GBP/USD PUT 1.30 20211112 BANKAM	-0.01
GBP/USD 12/15/2021 RBSF	-0.01
CMB CMBX.NA.A.6 2063-05-11 200.0 05/11/2063 GS	-0.01
NZD/USD PUT 0.66 20211112 UBS	-0.01
JPY/USD 11/17/2021 TDBK	-0.01
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 BC	-0.01
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.01
CAD/USD 10/20/2021 HSBCB	-0.01
GBP/USD 12/15/2021 BANKAM	-0.01
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.01
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.01
AUD/USD 10/20/2021 CITI	-0.01
GBP/USD 12/15/2021 CITI	-0.01
NOK/USD 12/15/2021 TDBK	-0.01
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.01
EBIX US P R 07/05/22 CI	-0.01
CMB CMBX.NA.A.6 2063-05-11 200.0 05/11/2063 CS	-0.01
CMB CMBX.NA.BB.7 2047-01-17 500.0 01/17/2047 CG	-0.01
CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 GS	-0.01
JPY/USD 11/17/2021 MSCIL	-0.01
EUR/USD PUT 1.149 20211027 JPMCB	-0.01
0.40 R ISWP FWD US0003M P 12/15/2023	-0.01
CHF/USD 12/15/2021 RBSF	-0.02
2.03 R ISWP FWD NFIX3MID P 12/15/2031	-0.02

## Putnam VT Multi-Asset Absolute Return Fund

### Full holdings as of September 30, 2021

CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 GS	-0.02
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.02
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.02
ZYXI US P US0001M R 07/05/22 CI	-0.02
CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 BC	-0.02
SEK/USD 12/15/2021 GSFY	-0.02
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.02
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.02
EUR/USD 12/15/2021 BANKAM	-0.02
215600 KS P US0001M R 12/15/25 GS	-0.02
1.65 R ISWP FWD US0003M P 12/15/2051	-0.02
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.02
EUR/USD 12/15/2021 HSBCB	-0.02
AUD/USD 10/20/2021 UBS	-0.02
CPURNSA P 2.7375 R 09/13/26	-0.02
NZD/USD 10/20/2021 JPMCB	-0.02
AUD/USD 10/20/2021 JPMCB	-0.02
AUD/USD 10/20/2021 BANKAM	-0.02
CPURNSA P 2.78 R 01/15/32	-0.03
AUD/USD 10/20/2021 MSCIL	-0.03
SEK/USD 12/15/2021 MSCIL	-0.03
JPY/USD 11/17/2021 UBS	-0.03
CMB CMBX.NA.A.6 2063-05-11 200.0 05/11/2063 GS	-0.03
EUR/USD 12/15/2021 SSBT	-0.03
1.57 R ISWP US0003M P 04/20/2031	-0.03
CMB CMBX.NA.BB.6 2063-05-11 500.0 05/11/2063 CG	-0.03
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.03
1.70 R ISWP FWD CDOR03 P 12/15/2031	-0.03
EUR/USD 12/15/2021 MSCIL	-0.03
JPY/USD 11/17/2021 GSFY	-0.04
1.395 R ISWP FWD AUDBB6M P 12/15/2031	-0.04
0.02 R ISWP FWD EUR006M P 12/15/2031	-0.04
PLUG US P US0001M R 07/05/22 CI	-0.04
CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 CS	-0.04
WDFC US P US0001M R 07/05/22 CI	-0.04
BGS US P R 07/05/22 CI	-0.04
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.04
GBP/USD 12/15/2021 MSCIL	-0.05
BE US P US0001M R 12/15/25 GS	-0.05
ACIW US P R 07/05/22 CI	-0.06
EUR/USD 12/15/2021 GSFY	-0.07
EUR/USD 12/15/2021 UBS	-0.07
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.07
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 MS	-0.08
CDX CDX.NA.HY.37 500.0 12/20/2026	-0.08

## Putnam VT Multi-Asset Absolute Return Fund

### Full holdings as of September 30, 2021

CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 CS	-0.08
GBP/USD 12/15/2021 GSF	-0.09
LPSN US P US0001M R 07/05/22 CI	-0.09
AIR US P US0001M R 07/05/22 CI	-0.10
PGNY US P US0001M R 12/15/25 GS	-0.11
RJHI AB P US0001M R 06/20/23 BA	-0.11
OM US P US0001M R 12/15/25 GS	-0.11
DY US P R 07/05/22 CI	-0.11
LUMN US P US0001M R 07/05/22 CI	-0.11
OTEX US P US0001M R 12/15/25 GS	-0.12
BYND US P US0001M R 12/15/25 GS	-0.12
NEWR US P US0001M R 12/15/25 GS	-0.12
PING US P US0001M R 07/05/22 CI	-0.13
EVBG US P US0001M R 07/05/22 CI	-0.14
FSLR US P US0001M R 12/15/25 GS	-0.14
AHCO US P US0001M R 07/05/22 CI	-0.15
FCNCA US P US0001M R 07/05/22 CI	-0.15
HCSG US P US0001M R 07/05/22 CI	-0.15
NDUEEGF P US0001M R 11/02/21 CS	-0.18
HSY US P US0001M R 07/05/22 CI	-0.22
STE US P US0001M R 12/15/25 GS	-0.24
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 ML	-0.24
FICO US P US0001M R 07/05/22 CI	-0.25
ELAN US P US0001M R 07/05/22 CI	-0.27
WWD US P R 07/05/22 CI	-0.28
PEN US P US0001M R 07/05/22 CI	-0.34
LHX US P US0001M R 07/05/22 CI	-0.35
RL US P US0001M R 07/05/22 CI	-0.39
BHC US P R 07/05/22 CI	-0.41
TSLA US P R 07/05/22 CI	-0.43
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 CG	-0.49
NDUEEGF P US0001M R 11/02/21 UB	-0.50
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	-0.93
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 CS	-0.98
FNMA FN30 TBA UMBS 02.0000 11/01/2051	-4.35
NDUEEGF P US0001M R 11/02/21 UB	-6.22
NDUEEGF P US0001M R 11/02/21 CS	-6.62
US 5YR NOTE (CBT) DEC21 FVZ1	-18.12
US 2YR NOTE (CBT) DEC21 TUZ1	-18.15
GSGLPWDS P US0001M R 12/15/25 GS	-19.00
RU10INTR P US0003M R 06/20/23 BA	-22.00
SPTR P US0001M R 05/23/23 UB	-35.42

### Full holdings as of August 31, 2021

US 10YR NOTE (CBT)DEC21 TYZ1	65.90
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## Putnam VT Multi-Asset Absolute Return Fund

### Full holdings as of September 30, 2021

UBSPUSER R US0001M P 05/22/23 UB	36.94
MLFCF15 R US0003M P 06/20/23 BA	23.21
GSGLPWDL R US0001M P 12/15/25 GS	19.78
S&P500 EMINI FUT SEP21 ESU1	16.22
US 10YR ULTRA FUT DEC21 UXYZ1	8.75
BEFSBAXD R 0.1 P 05/26/22 BC	7.57
JPCMPTFL R US0001M P 08/26/22 JP	5.65
FNMA FN30 TBA UMBS 04.0000 09/01/2051	4.52
FNMA FN30 TBA UMBS 03.5000 09/01/2051	4.46
FNMA FN30 TBA UMBS 03.0000 09/01/2051	4.42
GSVIUS85 R 0.45 P 12/15/25 GS	3.27
RU10VATR R US0001M P 02/05/22 JP	2.96
FINANCIAL SELECT SECTOR SPDR SEDOL 2364038	2.68
TREASURY BILL 00.0000 10/14/2021	2.53
CITI COMMOD F3-F0 4X LEVERED INDEX	1.84
GSVIVV69 R 0.3 P 12/15/25 GS	1.81
CITI CROSS-ASSET TREND 10% VOL INDEX	1.75
TREASURY BILL 00.0000 11/02/2021	1.69
COMM SERV SELECT SECTOR SPDR SEDOL BFXHC51	1.66
ISHARES MSCI INDIA ETF SEDOL B6XGR72	1.58
BAML COMMODITY MLBX4SX6 ER STRATEGY	1.55
CASH MGMT BILL 00.0000 11/16/2021	1.37
MATERIALS SELECT SECTOR SPDR SEDOL 2436841	1.33
INDUSTRIAL SELECT SECT SPDR SEDOL 2502139	1.32
NASDAQ 100 E-MINI SEP21 NQU1	1.32
ENERGY SELECT SECTOR SPDR SEDOL 2402466	1.28
SUMITOMO MITSUI TRUST BANK LT 86564YW24 DCP 09/02/2021	1.06
SWEDBANK AB 87019RW77 DCP 09/07/2021	1.06
METLIFE SHORT TERM FUNDING LL 59157TW90 DCP 09/09/2021	1.06
SKANDINAVISKA ENSKILDA BANKEN 83050TW80 DCP 09/08/2021	1.06
MATCHPOINT FINANCE PLC 57666AWL2 DCP 09/20/2021	1.06
DNB BANK ASA 2332K0XC1 DCP 10/12/2021	1.06
FMS WERTMANAGEMENT 34411GX43 DCP 10/04/2021	1.06
LIBERTY STREET FUNDING LLC 53127TX65 DCP 10/06/2021	1.06
TREASURY BILL 00.0000 12/23/2021	1.06
NATIONAL AUSTRALIA BANK LTD 63254EY95 DCP 11/09/2021	1.06
VICTORY RECEIVABLES CORP 92646KXS6 DCP 10/26/2021	1.06
TREASURY BILL 00.0000 12/30/2021	1.06
TREASURY BILL 00.0000 01/13/2022	1.06
TORONTO-DOMINION BANK/THE 89119AY51 DCP 11/05/2021	1.06
TREASURY BILL 00.0000 01/20/2022	1.06
TOTALENERGIES CAPITAL CANADA 89153PYN6 DCP 11/22/2021	1.05
ABN AMRO FUNDING USA LLC 00084BY16 DCP 11/01/2021	1.05
ATLANTIC ASSET SECURITIZATION 04821TYJ8 DCP 11/18/2021	1.05
GSVICUB3 R 0.45 P 12/15/25 GS	1.00

## Putnam VT Multi-Asset Absolute Return Fund

### Full holdings as of September 30, 2021

SAMSUNG ELECTRONICS CO LTD SEDOL 6771720	0.81
GSVIVVOL R 0.3 P 12/15/25 GS	0.71
TAIWAN SEMICONDUCTOR-SP ADR SEDOL 2113382	0.71
ALIBABA GROUP HOLDING LTD SEDOL BK6YZP5	0.59
S&P GSCI LIGHT ENERGY ER	0.51
MSCI EAFE SEP21 MFSU1	0.50
E-MINI RUSS 2000 SEP21 RTYU1	0.48
TREASURY BILL 00.0000 09/28/2021	0.42
TREASURY BILL 00.0000 10/05/2021	0.42
TENCENT HOLDINGS LTD SEDOL BMMV2K8	0.42
REPUBLICA ORIENT URUGUAY USD 04.3750 10/27/2027	0.34
VALE SA-SP ADR SEDOL 2857334	0.31
UNITED MICROELECTRONICS CORP SEDOL 6916628	0.31
CAS 2016-C02 1B 12.3344 09/25/2028	0.29
JD.COM INC-ADR SEDOL BMM27D9	0.29
MSCI EMGMKT SEP21 MESU1	0.27
PARADE TECHNOLOGIES LTD SEDOL B6RV676	0.27
PING AN INSURANCE GROUP CO-H SEDOL B01FLR7	0.26
YUM CHINA HOLDINGS INC SEDOL BYW4289	0.25
BAML COMMODITY MLBX4SX6 ER STRATEGY 3X NOTE 9/2/2021	0.24
KIA CORP SEDOL 6490928	0.23
UNITED MEXICAN STATES USD 05.5500 01/21/2045	0.23
CHINA SHENHUA ENERGY CO-H SEDOL B09N7M0	0.23
KB FINANCIAL GROUP INC SEDOL B3DF0Y6	0.23
SOUTHERN COPPER CORP SEDOL 2823777	0.22
HANA FINANCIAL GROUP SEDOL B0RNRFS	0.22
BANCO SANTANDER BRASIL-UNIT SEDOL B4V5RY4	0.21
LG ELECTRONICS INC SEDOL 6520739	0.21
CHAILEASE HOLDING CO LTD SEDOL B58J1S8	0.20
SANY HEAVY INDUSTRY CO LTD 144A/REGS WARRANT 12/16/2021	0.20
MMC NORILSK NICKEL PJSC-ADR SEDOL BYSW6D0	0.19
WAT US R US0001M P 12/15/25 GS	0.19
CDX CDX.EM.35 100.0 06/20/2026	0.19
ANGLO AMERICAN PLATINUM LTD SEDOL 6761000	0.18
MRK GR R US0001M P 12/15/25 GS	0.18
FHR 5053 IB IO 03.0000 12/25/2050	0.17
A US R US0001M P 12/15/25 GS	0.17
REALTEK SEMICONDUCTOR CORP SEDOL 6051422	0.17
VIPSHOP HOLDINGS LTD - ADR SEDOL B3N0H17	0.17
FNR 2017-74 SA IO 05.6656 10/25/2047	0.17
RJHI AB R US0001M P 06/20/23 BA	0.17
MTD US R US0001M P 12/15/25 GS	0.16
BANCO BRADESCO SA-PREF SEDOL B00FM53	0.16
PKI US R US0001M P 12/15/25 GS	0.16
CHAROEN POKPHAND FOOD-FORGN SEDOL B5L2DG6	0.16

## Putnam VT Multi-Asset Absolute Return Fund

### Full holdings as of September 30, 2021

IQV US R US0001M P 12/15/25 GS	0.16
TCS GROUP HOLDING-GDR REG S SEDOL BF233S0	0.16
WANT WANT CHINA HOLDINGS LTD SEDOL B2Q14Z3	0.16
LUKOIL PJSC-SPON ADR SEDOL BYZDW27	0.15
SRI TRANG GLOVES THA-FOREIGN SEDOL BMGJNP0	0.15
SHENZHEN MINDRAY BIO-MEDICAL ELEC CO 144A/REGS WARRANT 12/10	0.15
COSCO SHIPPING HOLDINGS CO-H SEDOL B0B8Z18	0.15
FNR 2020-85 IP IO 03.0000 12/25/2050	0.15
AMBEV SA SEDOL BG7ZWY7	0.15
YOUNGOR GROUP CO 144A/REGS WARRANT 07/29/2022	0.15
XINYI GLASS HOLDINGS LTD SEDOL B05NXN7	0.14
CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 JP	0.14
ZHONGSHENG GROUP HOLDINGS SEDOL B633D97	0.14
CDX CDX.NA.HY.36 500.0 06/20/2026	0.14
ANHUI CONCH CEMENT CO LTD-H SEDOL 6080396	0.14
NOVATEK MICROELECTRONICS COR SEDOL 6346333	0.14
CAS 2017-C02 2M2 03.7344 09/25/2029	0.13
TMO US R US0001M P 12/15/25 GS	0.13
KUMHO PETROCHEMICAL CO LTD SEDOL 6499323	0.13
HAITIAN INTERNATIONAL HLDGS SEDOL B1L2RC2	0.13
SCRT 2019-4 M 04.5000 02/25/2059	0.13
CSPC PHARMACEUTICAL GROUP LT SEDOL 6191997	0.13
ZTS US R US0001M P 12/15/25 GS	0.13
EVERGREEN MARINE CORP LTD SEDOL 6324500	0.12
CHINA FEIHE LTD SEDOL BKOSBL1	0.12
PFE US R US0001M P 12/15/25 GS	0.12
GNR 2020-173 MI IO 02.5000 11/20/2050	0.12
CHINA MEDICAL SYSTEM HOLDING SEDOL B6WY993	0.11
ILMN US R US0001M P 12/15/25 GS	0.11
SHRP 2020-1 NOTE 03.0253 07/25/2024	0.11
MWST 2020-2 A 00.8844 11/25/2053	0.11
SPST 2021-6 A 00.8859 04/25/2022	0.11
MWST 2020-1 A 00.9844 10/25/2053	0.11
SPST 2021-10 A 00.8543 08/08/2022	0.11
IPN FP R US0001M P 12/15/25 GS	0.10
PETROBRAS GLOBAL FINANCE USD 06.2500 03/17/2024	0.10
GNR 2018-153 AI IO 04.5000 09/16/2045	0.10
GNR 2020-33 SA IO 06.0116 03/20/2050	0.10
AGILE GROUP HOLDINGS LTD SEDOL B0PR2F4	0.10
FNR 2016-3 MI IO 05.5000 02/25/2046	0.10
QUANTA COMPUTER INC SEDOL 6141011	0.10
ENBRIDGE INC USD 04.2500 12/01/2026	0.10
RHB BANK BHD SEDOL 6244675	0.09
CMLTI 2007-AR5 1A1A 02.9013 04/25/2037	0.09
FHR 5082 IQ IO 03.0000 03/25/2051	0.09



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### Full holdings as of September 30, 2021

WFRBS 2012-C7 F	144A 04.5000 06/15/2045	0.09
JNJ US R US0001M P	12/15/25 GS	0.09
GNR 2014-184 DI IO	05.5000 12/16/2044	0.09
MRK US R US0001M P	12/15/25 GS	0.09
FNR 2015-30 IO IO	05.5000 05/25/2045	0.08
DIM FP R US0001M P	12/15/25 GS	0.08
ABBV US R US0001M P	12/15/25 GS	0.08
GSK LN R US0001M P	12/15/25 GS	0.08
JIANGSU HENGLI HYDRAULIC C-A	144A/REGS WARRANT 03/23/2022	0.08
PETROLEOS MEXICANOS	USD 06.5000 03/13/2027	0.08
GNR 2010-125 SD IO	06.5845 01/16/2040	0.08
FNR 2018-51 IO IO	06.5000 07/25/2048	0.08
GSMS 2014-GC24 D	144A 04.6690 09/10/2047	0.08
CMB CMBX.NA.BB.7 2047-01-17	500.0 01/17/2047 GS	0.08
CHINA MINSHENG BANKING COR-H	SEDOL B57JY24	0.08
SAN FP R US0001M P	12/15/25 GS	0.08
COM7 PCL-F	SEDOL BZ2YN49	0.08
HELLENIC TELECOMMUN ORGANIZA	SEDOL 5051605	0.08
MAXSCEND MICROELECTRONICS	144A/REGS WARRANT 07/29/2022	0.07
AZN US US0001M	12/15/25 GS	0.07
OPAP SA	SEDOL 7107250	0.07
GNR 2015-H11 CI IO	01.8743 05/20/2065	0.07
PETROBRAS GLOBAL FIN	USD 05.9990 01/27/2028	0.07
VTRS US R US0001M P	12/15/25 GS	0.07
BIIB US R US0001M P	12/15/25 GS	0.07
PROVINCIA DE BUENOS P/P	144A 10.8750 01/26/2022	0.07
4506 JP R US0001M P	12/15/25 GS	0.07
GNR 2016-H02 BI IO	01.8781 11/20/2065	0.07
HYPERA SA	SEDOL B2QY968	0.07
FNR 2017-8 SB IO	06.0156 02/25/2047	0.07
ZHUZHOU KIBING GROUP CO	144A/REGS WARRANT 07/29/2022	0.07
FNR 2020-47 ID IO	04.0000 07/25/2050	0.07
GNR 2015-H15 JI IO	01.9518 06/20/2065	0.07
FHR 4964 IA IO	04.5000 03/25/2050	0.07
SUOFEIYA HOME COLLECTION C	144A/REGS WARRANT 06/10/2022	0.07
LITE-ON TECHNOLOGY CORP	SEDOL 6519481	0.07
STACR 2020-HQA2 M2	03.1844 03/25/2050	0.07
FNR 2016-88 SK IO	05.9156 12/25/2046	0.06
PRGO US R US0001M P	12/15/25 GS	0.06
CAS 2017-C03 1M2	03.0844 10/25/2029	0.06
BMY US R US0001M P	12/15/25 GS	0.06
RISESUN REAL ESTATE DEV-A	144A/REGS WARRANT 11/02/2021	0.06
AZN LN R US0001M P	12/15/25 GS	0.06
BAYN GR R US0001M P	12/15/25 GS	0.06
GNR 2015-H25 BI IO	01.9776 10/20/2065	0.06

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FOSHAN HAITIAN FLAVOURING & FOOD 144A/REGS WARRANT 05/11/202	0.06
CTBC FINANCIAL HOLDING CO LT SEDOL 6527666	0.06
4581 JP R US0001M P 12/15/25 GS	0.06
CSL AU R US0001M P 12/15/25 GS	0.05
PETROBRAS GLOBAL FINANCE USD 08.7500 05/23/2026	0.05
GNR 2015-H25 AI IO 01.6076 09/20/2065	0.05
2.00 R ISWP FWD US0003M P 09/15/2051	0.05
FUBON FINANCIAL HOLDING CO SEDOL 6411673	0.05
SHAANXI COAL INDUSTRY 144A/REGS WARRANT 07/29/2022	0.05
FNR 2017-108 SA IO 06.0656 01/25/2048	0.05
FNR 2020-16 SG IO 05.9656 03/25/2050	0.05
GNR 2018-91 SJ IO 06.1616 07/20/2048	0.05
CAS 2015-C04 1M2 05.7844 04/25/2028	0.05
MARFRIG GLOBAL FOODS SA SEDOL B1YWHR4	0.05
GILD US R US0001M P 12/15/25 GS	0.05
LLY US R US0001M P 12/15/25 GS	0.05
WAMU 2004-AR12 A2B 01.0044 10/25/2044	0.05
GNR 2016-51 MS IO 05.9616 04/20/2046	0.05
GNR 2010-68 SD IO 06.4916 06/20/2040	0.05
POSCO SEDOL 6693233	0.05
CAS 2017-C02 2B1 05.5844 09/25/2029	0.05
SINOTRUK HONG KONG LTD SEDOL B296ZH4	0.05
FNR 2017-32 IP IO 04.5000 05/25/2047	0.05
GNR 2016-150 I IO 05.0000 11/20/2046	0.04
JPMBB 2013-C14 E 144A 04.6991 08/15/2046	0.04
TEVA US R US0001M P 12/15/25 GS	0.04
NZD/USD 10/20/2021 SSBT	0.04
BANCO MACRO SA-ADR SEDOL B0Y62M9	0.04
EUR/USD 09/15/2021 JPMCB	0.04
AMGN US R US0001M P 12/15/25 GS	0.04
GNR 2017-H14 DI IO 01.7007 06/20/2067	0.04
CAS 2020-R01 1B1 03.3344 01/25/2040	0.04
TISCO FINANCIAL-FOREIGN SEDOL B3KFW76	0.04
GNR 2015-H19 NI IO 01.9023 07/20/2065	0.04
SHANDONG BUCHANG PHARMACEUTICALS CO LTD 144A/REGS WARRANT 12	0.04
NZD/USD 10/20/2021 JPMCB	0.04
FNR 2016-65 CS IO 06.0156 09/25/2046	0.04
MEITUAN-CLASS B SEDOL BGJW376	0.04
GNR 2015-H20 CI IO 01.9937 08/20/2065	0.04
VIFN SW R US0001M P 12/15/25 GS	0.04
OFFCN EDUCATION TECH 144A/REGS WARRANT 04/12/2022	0.04
GNR 2014-H21 AI IO 01.6937 10/20/2064	0.04
GNR 2015-H09 AI IO 01.7289 04/20/2065	0.04
GNR 2015-H24 HI IO 02.0594 09/20/2065	0.04
GNR 2015-H09 BI IO 01.6766 03/20/2065	0.04

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### Full holdings as of September 30, 2021

SEAZEN HOLDINGS CO 144A/REGS WARRANT 06/03/2022	0.04
GNR 2018-H05 AI IO 02.3877 02/20/2068	0.04
JPMCC 2006-LDP9 AMS 05.3370 05/15/2047	0.04
PETROLEOS MEXICANOS USD 06.3750 01/23/2045	0.04
HARTELEGA HOLDINGS BHD SEDOL B2QPJK5	0.04
LOGAN GROUP CO LTD SEDOL BH6X937	0.04
FNR 2013-130 SD IO 06.5156 01/25/2044	0.03
GNR 2019-121 DS IO 06.0116 08/20/2049	0.03
COCA-COLA ICECEK AS SEDOL B058ZV4	0.03
BURSA MALAYSIA BHD SEDOL B06FV38	0.03
SEEGENE INC SEDOL B679Q36	0.03
BANK OF SHANGHAI 144A/REGS WARRANT 11/30/2021	0.03
GNR 2017-H02 BI IO 02.4344 01/20/2067	0.03
CAS 2018-C05 1M2 02.4344 01/25/2031	0.03
KUMBA IRON ORE LTD SEDOL B1G4262	0.03
CMB CMBX.NA.BB.9 2058-09-17 500.0 09/17/2058 CG	0.03
GNR 2015-H10 CI IO 01.7982 04/20/2065	0.03
CMB CMBX.NA.BB.6 2063-05-11 500.0 05/11/2063 CS	0.03
KOSSAN RUBBER INDUSTRIES SEDOL BODD1H9	0.03
4502 JP R US0001M P 12/15/25 GS	0.03
4523 JP R US0001M P 12/15/25 GS	0.03
GNR 2018-104 SD IO 06.1116 08/20/2048	0.03
GNR 2015-53 MI IO 04.0000 04/16/2045	0.03
GNR 2016-H03 AI IO 01.7756 01/20/2066	0.03
FNR 2016-3 NI IO 06.0000 02/25/2046	0.03
CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 MS	0.03
KT CORP SEDOL 6505316	0.03
GNR 2016-H08 GI IO 01.4270 04/20/2066	0.03
EUR/USD 09/15/2021 BCAP-FX	0.03
4507 JP R US0001M P 12/15/25 GS	0.03
SHINHAN FINANCIAL GROUP LTD SEDOL 6397502	0.03
GNR 2017-H06 BI IO 02.3494 02/20/2067	0.03
GNR 2015-80 IA IO 04.5000 06/20/2045	0.03
CAS 2017-C06 2M2 02.8844 02/25/2030	0.03
GNR 2015-167 BI IO 04.5000 04/16/2045	0.03
4530 JP R US0001M P 12/15/25 GS	0.03
CAD/USD 10/20/2021 SSBT	0.02
INDOFOOD SUKSES MAKMUR TBK P SEDOL 6283979	0.02
GNR 2015-H16 XI IO 01.8874 07/20/2065	0.02
HIK LN R US0001M P 12/15/25 GS	0.02
FHR 4752 PS IO 06.1045 11/15/2047	0.02
GNR 2015-105 LI IO 05.0000 10/20/2039	0.02
GNR 2015-187 JI IO 04.0000 03/20/2045	0.02
1.55 R ISWP FWD AUDBB6M P 09/15/2031	0.02
GNR 2011-17 S IO 05.9616 02/20/2041	0.02

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### Full holdings as of September 30, 2021

GNR 2014-146 EI IO	05.0000 10/20/2044	0.02
HONG LEONG BANK BERHAD	SEDOL 6436892	0.02
GNR 2016-H16 DI IO	02.2458 06/20/2066	0.02
CMB CMBX.NA.BB.7 2047-01-17	500.0 01/17/2047 GS	0.02
GNR 2010-9 UI IO	05.0000 01/20/2040	0.02
CHF/USD 09/15/2021 SSBT		0.02
CWHL 2005-3 1A1	00.7044 04/25/2035	0.02
GNR 2013-6 AI IO	03.5000 08/20/2039	0.02
WFRBS 2011-C3 E	144A 05.0000 03/15/2044	0.02
GNR 2013-20 QI IO	04.5000 12/16/2042	0.02
JIANGSU HENGRUI MEDICINE 144A/REGS WARRANT	04/12/2022	0.02
4503 JP R US0001M P	12/15/25 GS	0.02
GLPG NA R US0001M P	12/15/25 GS	0.02
CHINA MERCHANTS BANK-H	SEDOL B1DYPZ5	0.02
GBP/USD PUT 1.3645 20210930 BANKAM		0.02
CAD/USD 10/20/2021 GSFX		0.02
LUN DC R US0001M P	12/15/25 GS	0.02
1.84 R ISWP FWD CDOR03 P	09/15/2031	0.02
NICE INFORMATION SERVICE CO	SEDOL 6248332	0.02
GNR 2018-127 IB IO	04.5000 06/20/2045	0.02
UCB BB R US0001M P	12/15/25 GS	0.02
GNR 2018-127 ID IO	05.0000 07/20/2045	0.02
CHF/USD 09/15/2021 JPMCB		0.02
ERF FP R US0001M P	12/15/25 GS	0.02
GNR 2016-H04 KI IO	01.5332 02/20/2066	0.02
RUENTEX DEVELOPMENT CO LTD	SEDOL 6748423	0.02
SAMSUNG ELECTRO-MECHANICS CO	SEDOL 6771689	0.02
GBP/USD 09/15/2021 CSI-FX		0.02
GNR 2009-121 UI IO	05.0000 12/20/2039	0.02
EUR/USD 09/15/2021 CSI-FX		0.02
EUR/USD 09/15/2021 TDBK		0.01
GNR 2010-20 UI IO	05.0000 02/20/2040	0.01
GBP/USD 09/15/2021 TDBK		0.01
HOPSON DEVELOPMENT HOLDINGS	SEDOL BMXJW56	0.01
IOS.FN30.400.14 R USL1M P	01/12/45 CS	0.01
CMB CMBX.NA.BB.9 2058-09-17	500.0 09/17/2058 CS	0.01
TOP GLOVE CORP BHD	SEDOL B05L892	0.01
INCY US R US0001M P	12/15/25 GS	0.01
IOS.FN30.350.12 R USL1M P	01/12/43 CS	0.01
GNR 2015-H10 EI IO	01.6007 04/20/2065	0.01
QUALITAS CONTROLADORA SAB CV	SEDOL BYMXF65	0.01
GNR 2014-163 NI IO	05.0000 02/20/2044	0.01
GNR 2011-H15 AI IO	01.5307 06/20/2061	0.01
FOCUS MEDIA 144A/REGS WARRANT	04/12/2023	0.01
GRF SM R US0001M P	12/15/25 GS	0.01

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### Full holdings as of September 30, 2021

GNR 2013-129 SN IO	06.0616 09/20/2043	0.01
GNR 2015-24 IA IO	03.5000 02/20/2045	0.01
FHR 4193 PI IO	04.0000 03/15/2043	0.01
FNR 2012-151 PI IO	03.0000 01/25/2043	0.01
EUR/USD 09/15/2021 CITI		0.01
REGN US R US0001M P	12/15/25 GS	0.01
EUR/USD PUT 1.16 20211008	GSFX	0.01
1.65 R ISWP FWD US0003M P	09/15/2031	0.01
CMB CMBX.NA.BB.9 2058-09-17	500.0 09/17/2058 ML	0.01
NOVN SW R US0001M P	12/15/25 GS	0.01
FNR 2013-35 PI IO	03.0000 02/25/2042	0.01
FHR 4206 IP IO	03.0000 12/15/2041	0.01
AUD/USD PUT 0.70 20211008	CITI	0.01
FHR 4801 IG IO	03.0000 06/15/2048	0.01
KWG GROUP HOLDINGS LTD	SEDOL B1YBF00	0.01
0.05 R ISWP FWD EUR006M P	09/15/2031	0.01
GNR 2013-24 PI IO	04.0000 11/20/2042	0.01
CHF/USD 09/15/2021 MSCIL		0.01
GNR 2016-75 EI IO	03.5000 08/20/2045	0.01
IOS.FN30.400.14 R USL1M P	01/12/45 GS	0.01
IOS.FN30.400.14 R USL1M P	01/12/45 CS	0.01
CMB CMBX.NA.BB.10 2059-11-17	500.0 11/17/2059 CS	0.01
CMB CMBX.NA.BB.10 2059-11-17	500.0 11/17/2059 ML	0.01
CMB CMBX.NA.BB.10 2059-11-17	500.0 11/17/2059 CS	0.01
REPUBLIC OF VENEZUELA	REGS 07.6500 04/21/2025	0.01
SWPTN 5YX30YR 2.8325 USD	02/15/2022 JP	0.01
4568 JP R US0001M P	12/15/25 GS	0.01
CMB CMBX.NA.BB.9 2058-09-17	500.0 09/17/2058 MS	0.01
PETROLEOS DE VENEZUELA S	REGS 05.3750 04/12/2027	0.00
GNR 2010-35 QI IO	04.5000 03/20/2040	0.00
NZD/USD 10/20/2021 TDBK		0.00
GBP/USD 09/15/2021 UBS		0.00
JPY/USD 11/17/2021 TDBK		0.00
REC IM R US0001M P	12/15/25 GS	0.00
IOS.FN30.650.67 R USL1M P	01/12/38 BC	0.00
OGN US R US0001M P	12/15/25 GS	0.00
AUD/USD 10/20/2021 RBSF		0.00
JPY/USD 11/17/2021 MSCIL		0.00
CMB CMBX.NA.BB.11 2054-11-18	500.0 11/18/2054 CG	0.00
CAD/USD 10/20/2021 MSCIL		0.00
CMB CMBX.NA.BB.10 2059-11-17	500.0 11/17/2059 CG	0.00
CMB CMBX.NA.BB.10 2059-11-17	500.0 11/17/2059 CG	0.00
CMB CMBX.NA.BB.10 2059-11-17	500.0 11/17/2059 MS	0.00
GNR 2013-79 XI IO	03.5000 11/20/2039	0.00
ORNBV FH R US0001M P	12/15/25 GS	0.00

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GNR 2015-99 LI IO 04.0000 07/20/2045	0.00
CMB CMBX.NA.BB.9 2058-09-17 500.0 09/17/2058 GS	0.00
CMB CMBX.NA.BB.9 2058-09-17 500.0 09/17/2058 GS	0.00
CMB CMBX.NA.BB.9 2058-09-17 500.0 09/17/2058 MS	0.00
VRTX US R US0001M P 12/15/25 GS	0.00
CMB CMBX.NA.BB.11 2054-11-18 500.0 11/18/2054 ML	0.00
FNR 2012-136 PI IO 03.5000 11/25/2042	0.00
CHF/USD 09/15/2021 BCAP-FX	0.00
IOS.FN30.400.10 R USL1M P 01/12/41 BA	0.00
IOS.FN30.400.10 R USL1M P 01/12/41 BA	0.00
UBSBB 2012-C2 F 144A05.0000 05/10/2063	0.00
EUR/USD 09/15/2021 WPAC	0.00
GBP/USD 09/15/2021 WPAC	0.00
GNR 2013-157 IA IO 03.5000 04/20/2040	0.00
CAD/USD 10/20/2021 BANKAM	0.00
CAD/USD 10/20/2021 CSI-FX	0.00
CAD/USD 10/20/2021 TDBK	0.00
CAS 2015-C02 2M2 04.0844 05/25/2025	0.00
CAD/USD 10/20/2021 BCAP-FX	0.00
GNR 2013-100 MI IO 03.5000 02/20/2043	0.00
CMB CMBX.NA.BB.8 2057-10-17 500.0 10/17/2057 CG	0.00
CMB CMBX.NA.BB.8 2057-10-17 500.0 10/17/2057 CS	0.00
IOS.FN30.400.10 R USL1M P 01/12/41 CI	0.00
NZD/USD 10/20/2021 CITI	0.00
CMB CMBX.NA.BB.11 2054-11-18 500.0 11/18/2054 CG	0.00
IOS.FN30.350.12 R USL1M P 01/12/43 CS	0.00
IOS.FN30.400.10 R USL1M P 01/12/41 BC	0.00
FNR 2013-31 NI IO 03.0000 06/25/2041	0.00
CAD/USD 10/20/2021 UBS	0.00
AUD/USD 10/20/2021 CSI-FX	0.00
SWPTN 10YX20Y P 1.275 USD 03/05/2030 BA	0.00
2.2225 R ISWP FWD US0003M P 06/05/2029	0.00
FRONTKEN CORP BHD-CW26 SEDOL BNBW845	0.00
GNR 2014-133 AI IO 04.0000 10/20/2036	0.00
SWPTN 10YX20Y R 2.8175 USD 03/23/2027 GS	0.00
GNR 2015-124 NI IO 03.5000 06/20/2039	0.00
JPY/USD 11/17/2021 BCAP-FX	0.00
-0.05 R ISWP FWD CHL6M P 09/15/2031	0.00
1.275 R ISWP FWD US0003M P 03/07/2050	0.00
CAD/USD 10/20/2021 WPAC	0.00
1.3105 R ISWP US0003M P 08/10/2031	0.00
GNR 2012-141 WI IO 03.5000 11/20/2041	0.00
GNR 2013-102 IP IO 03.5000 06/20/2043	0.00
JPY/USD 11/17/2021 HSBCB	0.00
FHR 4097 PI IO 03.5000 11/15/2040	0.00

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GNR 2011-116 IB IO 05.0000 10/20/2040	0.00
MLCFC 2006-4 XC IO P/P 144A01.3716 12/12/2049	0.00
GLOW ENERGY PCL - FOREIGN SEDOL B074GX9	0.00
HKD/USD 11/17/2021 UBS	-0.00
HKD/USD 11/17/2021 BANKAM	-0.00
HKD/USD 11/17/2021 HSBCB	-0.00
HKD/USD 11/17/2021 MSCIL	-0.00
HKD/USD 11/17/2021 TDBK	-0.00
SWPTN 2YX30Y P 2.3075 USD 06/20/2022 BA	-0.00
JPY/USD 11/17/2021 UBS	-0.00
1.3115 R ISWP US0003M P 07/19/2031	-0.00
JPY/USD 11/17/2021 WPAC	-0.00
2.3075 R ISWP FWD US0003M P 06/22/2052	-0.00
CAD/USD 10/20/2021 CITI	-0.00
1.3659 R ISWP US0003M P 02/22/2031	-0.00
1.4255 R ISWP US0003M P 02/24/2031	-0.00
1.662 R ISWP US0003M P 07/19/2051	-0.00
SWPTN 10YX20Y P 2.8175 USD 03/23/2027 GS	-0.00
JPY/USD 11/17/2021 RBSF	-0.00
HKD/USD 11/17/2021 SSBT	-0.00
AUD/USD 10/20/2021 HSBCB	-0.00
NZD/USD 10/20/2021 MSCIL	-0.00
1.16 R ISWP US0003M P 10/16/2050	-0.00
JPY/USD 11/17/2021 BANKAM	-0.00
1.51882 R ISWP US0003M P 03/02/2031	-0.00
SWPTN 10YX20Y R 1.275 USD 03/05/2030 BA	-0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 BA	-0.00
0.8985 R ISWP US0003M P 08/17/2026	-0.00
CAD/USD 10/20/2021 JPMCB	-0.00
2.184 R ISWP FWD US0003M P 12/07/2030	-0.00
SEK/USD 09/15/2021 TDBK	-0.00
0.30 R ISWP FWD US0003M P 09/15/2023	-0.00
SEK/USD 09/15/2021 JPMCB	-0.00
CHF/USD 09/15/2021 HSBCB	-0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 BA	-0.00
CHF/USD 09/15/2021 GSFY	-0.00
CAD/USD 10/20/2021 RBSF	-0.00
CMB CMBX.NA.A.6 2063-05-11 200.0 05/11/2063 GS	-0.00
JPY/USD 11/17/2021 CITI	-0.00
AUD/USD 10/20/2021 TDBK	-0.00
SEK/USD 09/15/2021 BANKAM	-0.00
CMB CMBX.NA.A.6 2063-05-11 200.0 05/11/2063 GS	-0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.00
1.27 R ISWP FWD US0003M P 01/27/2047	-0.00

## Putnam VT Multi-Asset Absolute Return Fund

### Full holdings as of September 30, 2021

SEK/USD 09/15/2021 SSBT	-0.00
GBP/USD 09/15/2021 HSBCB	-0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 BA	-0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 BA	-0.00
0.94375 R ISWP FWD US0003M P 04/01/2026	-0.00
SWPTN 2YX30Y R 2.3075 USD 06/20/2022 BA	-0.00
NZD/USD 10/20/2021 HSBCB	-0.00
IOS.FN30.350.12 P USL1M R 01/12/43 BC	-0.00
SWPTN 5YX30Y P 2.8325 USD 02/15/2022 JP	-0.01
EUR/USD 09/15/2021 RBSF	-0.01
NZD/USD 10/20/2021 WPAC	-0.01
CHF/USD 09/15/2021 RBSF	-0.01
1.70 R ISWP FWD NOKOIB6M P 09/15/2031	-0.01
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.01
NZD/USD 10/20/2021 GSFY	-0.01
JPY/USD 11/17/2021 JPMCB	-0.01
CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 GS	-0.01
IOS.FN30.400.10 P USL1M R 01/12/41 CS	-0.01
GBP/USD 09/15/2021 BCAP-FX	-0.01
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.01
IOS.FN30.300.13 P USL1M R 01/12/44 GS	-0.01
SEK/USD 09/15/2021 RBSF	-0.01
IOS.FN30.400.14 P USL1M R 01/12/45 JP	-0.01
0.77 R ISWP FWD SES3M P 09/15/2031	-0.01
NZD/USD 10/20/2021 RBSF	-0.01
1.83 R ISWP FWD NFIX3MID P 09/15/2031	-0.01
CHF/USD 09/15/2021 UBS	-0.01
IOS.FN30.350.12 P USL1M R 01/12/43 GS	-0.01
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.01
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.01
CAD/USD 10/20/2021 HSBCB	-0.01
CHF/USD 09/15/2021 CITI	-0.01
CMB CMBX.NA.A.6 2063-05-11 200.0 05/11/2063 GS	-0.01
GBP/USD 09/15/2021 CITI	-0.01
0.95 R ISWP FWD US0003M P 09/15/2026	-0.01
NZD/USD 10/20/2021 UBS	-0.01
JPY/USD 11/17/2021 GSFY	-0.01
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.01
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 BC	-0.01
AUD/USD 10/20/2021 BCAP-FX	-0.01
AUD/USD 10/20/2021 JPMCB	-0.01
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.01
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.01
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.01
GBP/USD 09/15/2021 BANKAM	-0.01



## Putnam VT Multi-Asset Absolute Return Fund

### Full holdings as of September 30, 2021

CMB CMBX.NA.A.6 2063-05-11 200.0 05/11/2063 CS	-0.01
CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 GS	-0.01
CMB CMBX.NA.BB.7 2047-01-17 500.0 01/17/2047 CG	-0.01
EBIX US P R 07/05/22 CI	-0.01
GBP/USD 09/15/2021 RBSF	-0.01
SEK/USD 09/15/2021 BCAP-FX	-0.01
CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 GS	-0.01
0.975 R ISWP FWD SONIA P 09/15/2031	-0.02
AUD/USD 10/20/2021 CITI	-0.02
EUR/USD CALL 1.195 20211008 GSFY	-0.02
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.02
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.02
IOS.FN30.400.14 P US0001M R 01/12/45 JP	-0.02
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.02
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.02
CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 BC	-0.02
NOK/USD 09/15/2021 SSBT	-0.02
SEK/USD 09/15/2021 UBS	-0.02
215600 KS P US0001M R 12/15/25 GS	-0.02
GBP/USD 09/15/2021 JPMCB	-0.02
GBP/USD 09/15/2021 SSBT	-0.02
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.02
AUD/USD 10/20/2021 UBS	-0.02
AUD/USD 10/20/2021 MSCIL	-0.02
NOK/USD 09/15/2021 UBS	-0.02
AUD/USD 10/20/2021 GSFY	-0.02
ZYXI US P US0001M R 07/05/22 CI	-0.02
EUR/USD 09/15/2021 HSBCB	-0.03
1.45 R ISWP FWD SOFRRATE P 09/15/2031	-0.03
EUR/USD 09/15/2021 MSCIL	-0.03
CMB CMBX.NA.A.6 2063-05-11 200.0 05/11/2063 GS	-0.03
JPY/USD 11/17/2021 SSBT	-0.03
NOK/USD 09/15/2021 MSCIL	-0.03
CMB CMBX.NA.BB.6 2063-05-11 500.0 05/11/2063 CG	-0.03
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.03
AUD/USD 10/20/2021 SSBT	-0.03
TPIC US P US0001M R 07/05/22 CI	-0.04
CPURNSA P 2.686 R 04/01/31	-0.04
PLUG US P US0001M R 07/05/22 CI	-0.04
CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 CS	-0.04
AUD/USD 10/20/2021 BANKAM	-0.04
WDFC US P US0001M R 07/05/22 CI	-0.04
BGS US P R 07/05/22 CI	-0.04
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.04
EUR/USD 09/15/2021 GSFY	-0.05

## Putnam VT Multi-Asset Absolute Return Fund

### Full holdings as of September 30, 2021

EUR/USD 09/15/2021 BANKAM	-0.05
AUD/USD CALL 0.7335 20211008 CITI	-0.06
BE US P US0001M R 12/15/25 GS	-0.06
NOK/USD 09/15/2021 JPMCB	-0.06
EUR/USD 09/15/2021 UBS	-0.06
NOK/USD 09/15/2021 GSFY	-0.06
ACIW US P R 07/05/22 CI	-0.06
SEK/USD 09/15/2021 MSCIL	-0.07
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.07
EUR/USD 09/15/2021 SSBT	-0.07
SEK/USD 09/15/2021 GSFY	-0.07
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 MS	-0.08
GBP/USD 09/15/2021 MSCIL	-0.08
CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 CS	-0.08
AIR US P US0001M R 07/05/22 CI	-0.10
PGNY US P US0001M R 12/15/25 GS	-0.10
OM US P US0001M R 12/15/25 GS	-0.10
LUMN US P US0001M R 07/05/22 CI	-0.11
DY US P R 07/05/22 CI	-0.11
GBP/USD 09/15/2021 GSFY	-0.12
SHOO US P US0001M R 12/15/25 GS	-0.13
ACA US P US0001M R 07/05/22 CI	-0.13
BB US P US0001M R 07/05/22 CI	-0.13
COLM US P US0001M R 07/05/22 CI	-0.13
OTEX US P US0001M R 12/15/25 GS	-0.13
1.57 R ISWP US0003M P 04/20/2031	-0.13
PING US P US0001M R 07/05/22 CI	-0.13
FSLR US P US0001M R 12/15/25 GS	-0.13
BYND US P US0001M R 12/15/25 GS	-0.13
NEWR US P US0001M R 12/15/25 GS	-0.14
EVBG US P US0001M R 07/05/22 CI	-0.14
FCNCA US P US0001M R 07/05/22 CI	-0.16
NDUEEGF P US0001M R 11/02/21 CS	-0.18
RH US P US0001M R 07/05/22 CI	-0.19
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 ML	-0.22
HSY US P US0001M R 07/05/22 CI	-0.22
CPURNSA P 2.79 R 04/15/26	-0.24
STE US P US0001M R 12/15/25 GS	-0.24
ELAN US P US0001M R 07/05/22 CI	-0.28
FICO US P US0001M R 07/05/22 CI	-0.29
WWD US P R 07/05/22 CI	-0.29
PEN US P US0001M R 07/05/22 CI	-0.34
LHX US P US0001M R 07/05/22 CI	-0.36
RL US P US0001M R 07/05/22 CI	-0.39
TSLA US P R 07/05/22 CI	-0.39

## Putnam VT Multi-Asset Absolute Return Fund

### Full holdings as of September 30, 2021

BHC US P R 07/05/22 CI	-0.42
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 CG	-0.46
NDUEEGF P US0001M R 11/02/21 UB	-0.51
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	-0.87
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 CS	-0.91
FNMA FN30 TBA UMBS 02.0000 09/01/2051	-4.28
NDUEEGF P US0001M R 11/02/21 UB	-6.32
NDUEEGF P US0001M R 11/02/21 CS	-6.72
US 2YR NOTE (CBT) DEC21 TUZ1	-17.67
US 5YR NOTE (CBT) DEC21 FVZ1	-17.75
GSGLPWDS P US0001M R 12/15/25 GS	-19.09
RU10INTR P US0003M R 06/20/23 BA	-23.18
SPTR P US0001M R 05/22/23 UB	-36.99

### Full holdings as of July 31, 2021

US 10YR NOTE (CBT)SEP21 TYU1	46.48
UBSPUSER R US0001M P 05/23/23 UB	36.19
MLFCF15 R US0003M P 06/20/23 BA	23.04
GSGLPWDL R US0001M P 12/15/25 GS	19.43
S&P500 EMINI FUT SEP21 ESU1	14.80
US 10YR ULTRA FUT SEP21 UXYU1	8.87
BEFSBAXD R 0.1 P 05/26/22 BC	7.56
JPCMPTFL R US0001M P 07/15/22 JP	7.18
RU10VATR R US0001M P 02/05/22 JP	5.39
FNMA FN30 TBA UMBS 04.0000 08/01/2051	4.50
FNMA FN30 TBA UMBS 03.5000 09/01/2051	4.46
FNMA FN30 TBA UMBS 03.0000 09/01/2051	4.41
S&P GSCI LIGHT ENERGY ER	3.33
GSVIUS85 R 0.45 P 12/15/25 GS	3.20
MATERIALS SELECT SECTOR SPDR SEDOL 2436841	3.01
MSCI EMGMKT SEP21 MESU1	2.96
FINANCIAL SELECT SECTOR SPDR SEDOL 2364038	2.95
TREASURY BILL 00.0000 10/14/2021	2.53
NASDAQ 100 E-MINI SEP21 NQU1	2.52
CITI COMMOD F3-F0 4X LEVERED INDEX	1.77
CITI CROSS-ASSET TREND 10% VOL INDEX	1.75
S&P GSCI LIGHT ENERGY ER INDEX	1.73
GSVIVV69 R 0.3 P 12/15/25 GS	1.70
CONSUMER STAPLES SPDR SEDOL 2369389	1.61
COMM SERV SELECT SECTOR SPDR SEDOL BFXHC51	1.59
BAML COMMODITY MLBX4SX6 ER STRATEGY	1.49
ISHARES MSCI INDIA ETF SEDOL B6XGR72	1.45
E-MINI RUSS 2000 SEP21 RTYU1	1.40
CASH MGMT BILL 00.0000 11/16/2021	1.37
MITSUBISHI UFJ TRUST & BANKIN 60682WV54 DCP 08/05/2021	1.05

## Putnam VT Multi-Asset Absolute Return Fund

### Full holdings as of September 30, 2021

NATIONWIDE BUILDING SOCIETY 6385E0VA8 DCP 08/10/2021	1.05
FAIRWAY FINANCE CO LLC 30601VVD0 DCP 08/13/2021	1.05
SOCIETE GENERALE SA 83369BVQ6 DCP 08/24/2021	1.05
SWEDBANK AB 87019RW77 DCP 09/07/2021	1.05
SUMITOMO MITSUI TRUST BANK LT 86564YW24 DCP 09/02/2021	1.05
SKANDINAVISKA ENSKILDA BANKEN 83050TW80 DCP 09/08/2021	1.05
MATCHPOINT FINANCE PLC 57666AWL2 DCP 09/20/2021	1.05
FMS WERTMANAGEMENT 34411GX43 DCP 10/04/2021	1.05
LIBERTY STREET FUNDING LLC 53127TX65 DCP 10/06/2021	1.05
ATLANTIC ASSET SECURITIZATION 04821TYJ8 DCP 11/18/2021	1.05
GSVICUB3 R 0.45 P 12/15/25 GS	0.98
MSCI EAFE SEP21 MFSU1	0.98
TREASURY BILL 00.0000 08/05/2021	0.84
SAMSUNG ELECTRONICS CO LTD SEDOL 6771720	0.84
ALIBABA GROUP HOLDING LTD SEDOL BK6YZP5	0.69
TAIWAN SEMICONDUCTOR-SP ADR SEDOL 2113382	0.69
GSVIVVOL R 0.3 P 12/15/25 GS	0.67
S&P GSCI LIGHT ENERGY ER	0.53
TREASURY BILL 00.0000 09/28/2021	0.42
TREASURY BILL 00.0000 10/05/2021	0.42
CASH MGMT BILL 00.0000 11/02/2021	0.42
TENCENT HOLDINGS LTD SEDOL BMMV2K8	0.42
VALE SA-SP ADR SEDOL 2857334	0.34
REPUBLICA ORIENT URUGUAY USD 04.3750 10/27/2027	0.34
CDX CDX.NA.HY.36 500.0 06/20/2026	0.33
CAS 2016-C02 1B 12.3393 09/25/2028	0.30
PING AN INSURANCE GROUP CO-H SEDOL B01FLR7	0.30
UNITED MICROELECTRONICS CORP SEDOL 6916628	0.28
JD.COM INC-ADR SEDOL BMM27D9	0.26
PARADE TECHNOLOGIES LTD SEDOL B6RV676	0.26
YUM CHINA HOLDINGS INC SEDOL BYW4289	0.25
CDX CDX.EM.35 100.0 06/20/2026	0.24
BAML COMMODITY MLBX4SX6 ER STRATEGY 3X NOTE 9/2/2021	0.23
SOUTHERN COPPER CORP SEDOL 2823777	0.23
LG ELECTRONICS INC SEDOL 6520739	0.23
KIA CORP SEDOL 6490928	0.23
UNITED MEXICAN STATES USD 05.5500 01/21/2045	0.23
KB FINANCIAL GROUP INC SEDOL B3DF0Y6	0.22
HANA FINANCIAL GROUP SEDOL B0RNRFS	0.21
ANGLO AMERICAN PLATINUM LTD SEDOL 6761000	0.21
MMC NORILSK NICKEL PJSC-ADR SEDOL BYSW6D0	0.20
BANCO SANTANDER BRASIL-UNIT SEDOL B4V5RY4	0.20
CHINA SHENHUA ENERGY CO-H SEDOL B09N7M0	0.20
VIPSHOP HOLDINGS LTD - ADR SEDOL B3N0H17	0.19
SANY HEAVY INDUSTRY CO LTD 144A/REGS WARRANT 12/16/2021	0.19

## Putnam VT Multi-Asset Absolute Return Fund

### Full holdings as of September 30, 2021

WAT US R US0001M P 12/15/25 GS	0.18
SHENZHEN MINDRAY BIO-MEDICAL ELEC CO 144A/REGS WARRANT 12/10	0.18
REALTEK SEMICONDUCTOR CORP SEDOL 6051422	0.18
FNR 2017-74 SA IO 05.6608 10/25/2047	0.17
BANCO BRADESCO SA-PREF SEDOL B00FM53	0.17
FHR 5053 IB IO 03.0000 12/25/2050	0.17
CHAILEASE HOLDING CO LTD SEDOL B58J1S8	0.16
PKI US R US0001M P 12/15/25 GS	0.16
WANT WANT CHINA HOLDINGS LTD SEDOL B2Q14Z3	0.16
MTD US R US0001M P 12/15/25 GS	0.16
ZHONGSHENG GROUP HOLDINGS SEDOL B633D97	0.16
NOVATEK MICROELECTRONICS COR SEDOL 6346333	0.15
LUKOIL PJSC-SPON ADR SEDOL BYZDW27	0.15
RJHI AB R US0001M P 06/20/23 BA	0.15
IQV US R US0001M P 12/15/25 GS	0.15
MRK GR R US0001M P 12/15/25 GS	0.15
CHAROEN POKPHAND FOOD-FORGN SEDOL B5L2DG6	0.15
SRI TRANG GLOVES THA-FOREIGN SEDOL BMGJNP0	0.15
FNR 2020-85 IP IO 03.0000 12/25/2050	0.15
TCS GROUP HOLDING-GDR REG S SEDOL BF233S0	0.15
A US R US0001M P 12/15/25 GS	0.15
YOUNGOR GROUP CO 144A/REGS WARRANT 07/29/2022	0.14
CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 JP	0.14
AMBEV SA SEDOL BG7ZWY7	0.14
KUMHO PETROCHEMICAL CO LTD SEDOL 6499323	0.14
CSPC PHARMACEUTICAL GROUP LT SEDOL 6191997	0.14
CAS 2017-C02 2M2 03.7393 09/25/2029	0.14
CHINA FEIHE LTD SEDOL BKOSBL1	0.13
TMO US R US0001M P 12/15/25 GS	0.13
SCRT 2019-4 M 04.5000 02/25/2059	0.13
XINYI GLASS HOLDINGS LTD SEDOL B05NXN7	0.13
ZTS US R US0001M P 12/15/25 GS	0.13
HAITIAN INTERNATIONAL HLDGS SEDOL B1L2RC2	0.12
ANHUI CONCH CEMENT CO LTD-H SEDOL 6080396	0.12
EVERGREEN MARINE CORP LTD SEDOL 6324500	0.12
COSCO SHIPPING HOLDINGS CO-H SEDOL B0B8Z18	0.12
GNR 2020-173 MI IO 02.5000 11/20/2050	0.12
ILMN US R US0001M P 12/15/25 GS	0.11
PFE US R US0001M P 12/15/25 GS	0.11
CHINA MEDICAL SYSTEM HOLDING SEDOL B6WY993	0.11
IPN FP R US0001M P 12/15/25 GS	0.11
SHRP 2020-1 NOTE 03.0253 07/25/2024	0.11
SPST 2021-6 A 00.8893 04/25/2022	0.11
MWST 2020-2 A 00.8893 11/25/2053	0.11
SPST 2021-10 A 00.8543 08/08/2022	0.11

## Putnam VT Multi-Asset Absolute Return Fund

### Full holdings as of September 30, 2021

SPST 2020-15 A	01.4593 12/10/2021	0.11
MWST 2020-1 A	00.9893 10/25/2053	0.11
GNR 2020-33 SA IO	06.0164 03/20/2050	0.10
PETROBRAS GLOBAL FINANCE USD	06.2500 03/17/2024	0.10
GNR 2018-153 AI IO	04.5000 09/16/2045	0.10
FNR 2016-3 MI IO	05.5000 02/25/2046	0.10
CMLTI 2007-AR5 1A1A	02.8863 04/25/2037	0.10
ENBRIDGE INC	USD 04.2500 12/01/2026	0.10
QUANTA COMPUTER INC	SEDOL 6141011	0.09
AGILE GROUP HOLDINGS LTD	SEDOL BOPR2F4	0.09
FHR 5082 IQ IO	03.0000 03/25/2051	0.09
WFRBS 2012-C7 F	144A 04.5000 06/15/2045	0.09
GNR 2014-184 DI IO	05.5000 12/16/2044	0.09
JNJ US R US0001M P 12/15/25 GS		0.09
FNR 2015-30 IO IO	05.5000 05/25/2045	0.09
MRK US R US0001M P 12/15/25 GS		0.09
RHB BANK BHD	SEDOL 6244675	0.08
JIANGSU HENGLI HYDRAULIC C-A 144A/REGS WARRANT	03/23/2022	0.08
GNR 2010-125 SD IO	06.5889 01/16/2040	0.08
GSK LN R US0001M P 12/15/25 GS		0.08
PETROLEOS MEXICANOS	USD 06.5000 03/13/2027	0.08
ABBV US R US0001M P 12/15/25 GS		0.08
FNR 2018-51 IO IO	06.5000 07/25/2048	0.08
DIM FP R US0001M P 12/15/25 GS		0.08
MAXSCEND MICROELECTRONICS 144A/REGS WARRANT	07/29/2022	0.08
CMB CMBX.NA.BB.7 2047-01-17 500.0	01/17/2047 GS	0.08
SAN FP R US0001M P 12/15/25 GS		0.08
GNR 2015-H11 CI IO	01.8576 05/20/2065	0.08
CHINA MINSHENG BANKING COR-H	SEDOL B57JY24	0.07
PRGO US R US0001M P 12/15/25 GS		0.07
AZN US US0001M 12/15/25 GS		0.07
PETROBRAS GLOBAL FIN	USD 05.9990 01/27/2028	0.07
GSMS 2014-GC24 D	144A 04.5363 09/10/2047	0.07
GNR 2016-H02 BI IO	01.8608 11/20/2065	0.07
STACR 2020-HQA2 M2	03.1893 03/25/2050	0.07
HELLENIC TELECOMMUN ORGANIZA	SEDOL 5051605	0.07
PROVINCIA DE BUENOS P/P 144A	10.8750 01/26/2022	0.07
FNR 2017-8 SB IO	06.0108 02/25/2047	0.07
VTRS US R US0001M P 12/15/25 GS		0.07
COM7 PCL-F	SEDOL BZ2YN49	0.07
FNR 2020-47 ID IO	04.0000 07/25/2050	0.07
BIIB US R US0001M P 12/15/25 GS		0.07
HYPERSA	SEDOL B2QY968	0.07
4506 JP R US0001M P 12/15/25 GS		0.07
FOSHAN HAITIAN FLAVOURING & FOOD 144A/REGS WARRANT	05/11/202	0.07

## Putnam VT Multi-Asset Absolute Return Fund

### Full holdings as of September 30, 2021

FHR 4964 IA IO 04.5000 03/25/2050	0.07
LITE-ON TECHNOLOGY CORP SEDOL 6519481	0.07
OPAP SA SEDOL 7107250	0.07
SUOFEIYA HOME COLLECTION C 144A/REGS WARRANT 06/10/2022	0.07
GNR 2015-H15 JI IO 01.9584 06/20/2065	0.07
FNR 2016-88 SK IO 05.9108 12/25/2046	0.07
BAYN GR R US0001M P 12/15/25 GS	0.06
CAS 2017-C03 1M2 03.0893 10/25/2029	0.06
BMV US R US0001M P 12/15/25 GS	0.06
GNR 2015-H25 BI IO 01.9695 10/20/2065	0.06
AZN LN R US0001M P 12/15/25 GS	0.06
RISESUN REAL ESTATE DEV-A 144A/REGS WARRANT 11/02/2021	0.06
CTBC FINANCIAL HOLDING CO LT SEDOL 6527666	0.06
GNR 2015-H25 AI IO 01.6148 09/20/2065	0.05
PETROBRAS GLOBAL FINANCE USD 08.7500 05/23/2026	0.05
4581 JP R US0001M P 12/15/25 GS	0.05
FNR 2017-108 SA IO 06.0608 01/25/2048	0.05
ZHUZHOU KIBING GROUP CO 144A/REGS WARRANT 07/29/2022	0.05
FNR 2020-16 SG IO 05.9608 03/25/2050	0.05
GNR 2018-91 SJ IO 06.1664 07/20/2048	0.05
CSL AU R US0001M P 12/15/25 GS	0.05
POSCO SEDOL 6693233	0.05
2.00 R ISWP FWD US0003M P 09/15/2051	0.05
CAS 2015-C04 1M2 05.7893 04/25/2028	0.05
GNR 2016-51 MS IO 05.9664 04/20/2046	0.05
GNR 2010-68 SD IO 06.4964 06/20/2040	0.05
OFFCN EDUCATION TECH 144A/REGS WARRANT 04/12/2022	0.05
WAMU 2004-AR12 A2B 01.0093 10/25/2044	0.05
MARFRIG GLOBAL FOODS SA SEDOL B1YWHR4	0.05
CAS 2017-C02 2B1 05.5893 09/25/2029	0.05
AMGN US R US0001M P 12/15/25 GS	0.05
FUBON FINANCIAL HOLDING CO SEDOL 6411673	0.05
GILD US R US0001M P 12/15/25 GS	0.05
LLY US R US0001M P 12/15/25 GS	0.05
FNR 2017-32 IP IO 04.5000 05/25/2047	0.05
GNR 2016-150 I IO 05.0000 11/20/2046	0.05
TEVA US R US0001M P 12/15/25 GS	0.05
SHANDONG BUCHANG PHARMACEUTICALS CO LTD 144A/REGS WARRANT 12	0.04
GNR 2017-H14 DI IO 01.7071 06/20/2067	0.04
JPMBB 2013-C14 E 144A 04.5583 08/15/2046	0.04
GNR 2015-H19 NI IO 01.9090 07/20/2065	0.04
FNR 2016-65 CS IO 06.0108 09/25/2046	0.04
CAS 2020-R01 1B1 03.3393 01/25/2040	0.04
SHAANXI COAL INDUSTRY 144A/REGS WARRANT 07/29/2022	0.04
GNR 2015-H20 CI IO 02.1412 08/20/2065	0.04

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SINOTRUK HONG KONG LTD	SEDOL B296ZH4	0.04
GNR 2015-H24 HI IO	02.0584 09/20/2065	0.04
GNR 2015-H09 AI IO	01.7126 04/20/2065	0.04
GNR 2014-H21 AI IO	01.6731 10/20/2064	0.04
GNR 2018-H05 AI IO	02.3890 02/20/2068	0.04
GNR 2015-H09 BI IO	01.6805 03/20/2065	0.04
TISCO FINANCIAL-FOREIGN	SEDOL B3KFW76	0.04
GNR 2019-121 DS IO	06.0164 08/20/2049	0.04
VIFN SW R US0001M P 12/15/25 GS		0.04
KUMBA IRON ORE LTD	SEDOL B1G4262	0.04
JPMCC 2006-LDP9 AMS	05.3370 05/15/2047	0.04
FNR 2013-130 SD IO	06.5108 01/25/2044	0.04
PETROLEOS MEXICANOS	USD 06.3750 01/23/2045	0.04
SEEGENE INC	SEDOL B679Q36	0.04
SEAZEN HOLDINGS CO 144A/REGS WARRANT 06/03/2022		0.04
MEITUAN-CLASS B	SEDOL BGJW376	0.04
GNR 2017-H02 BI IO	02.4361 01/20/2067	0.03
KOSSAN RUBBER INDUSTRIES	SEDOL B0DD1H9	0.03
BURSA MALAYSIA BHD	SEDOL B06FV38	0.03
BANK OF SHANGHAI 144A/REGS WARRANT 11/30/2021		0.03
HARTALEGA HOLDINGS BHD	SEDOL B2QPJK5	0.03
CAS 2018-C05 1M2	02.4393 01/25/2031	0.03
COCA-COLA ICECEK AS	SEDOL B058ZV4	0.03
GNR 2018-104 SD IO	06.1164 08/20/2048	0.03
CMB CMBX.NA.BB.9 2058-09-17 500.0 09/17/2058 CG		0.03
LOGAN GROUP CO LTD	SEDOL BH6X937	0.03
CMB CMBX.NA.BB.6 2063-05-11 500.0 05/11/2063 CS		0.03
GNR 2015-H10 CI IO	01.8044 04/20/2065	0.03
EUR/USD 09/15/2021 JPMCB		0.03
BANCO MACRO SA-ADR	SEDOL B0Y62M9	0.03
4502 JP R US0001M P 12/15/25 GS		0.03
GNR 2015-53 MI IO	04.0000 04/16/2045	0.03
FHR 4134 PI IO	03.0000 11/15/2042	0.03
4523 JP R US0001M P 12/15/25 GS		0.03
GNR 2016-H03 AI IO	01.7602 01/20/2066	0.03
FNR 2016-3 NI IO	06.0000 02/25/2046	0.03
KT CORP	SEDOL 6505316	0.03
GNR 2016-H08 GI IO	01.4328 04/20/2066	0.03
CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 MS		0.03
4530 JP R US0001M P 12/15/25 GS		0.03
SHINHAN FINANCIAL GROUP LTD	SEDOL 6397502	0.03
GNR 2017-H06 BI IO	02.3551 02/20/2067	0.03
GNR 2015-80 IA IO	04.5000 06/20/2045	0.03
CAS 2017-C06 2M2	02.8893 02/25/2030	0.03
GNR 2015-167 BI IO	04.5000 04/16/2045	0.03



## Putnam VT Multi-Asset Absolute Return Fund

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CHF/USD 09/15/2021 GSFX	0.03
CHF/USD 09/15/2021 SSBT	0.02
1.55 R ISWP FWD AUDBB6M P 09/15/2031	0.02
HIK LN R US0001M P 12/15/25 GS	0.02
GNR 2015-187 JI IO 04.0000 03/20/2045	0.02
GNR 2015-H16 XI IO 02.0445 07/20/2065	0.02
EUR/USD 09/15/2021 BCAP-FX	0.02
4507 JP R US0001M P 12/15/25 GS	0.02
INDOFOOD SUKSES MAKMUR TBK P SEDOL 6283979	0.02
FHR 4752 PS IO 06.1069 11/15/2047	0.02
GNR 2015-105 LI IO 05.0000 10/20/2039	0.02
GNR 2011-17 S IO 05.9664 02/20/2041	0.02
GNR 2016-H16 DI IO 01.8537 06/20/2066	0.02
JIANGSU HENGRUI MEDICINE 144A/REGS WARRANT 04/12/2022	0.02
GNR 2014-146 EI IO 05.0000 10/20/2044	0.02
CMB CMBX.NA.BB.7 2047-01-17 500.0 01/17/2047 GS	0.02
CWHL 2005-3 1A1 00.7093 04/25/2035	0.02
GNR 2010-9 UI IO 05.0000 01/20/2040	0.02
GNR 2013-6 AI IO 03.5000 08/20/2039	0.02
1.84 R ISWP FWD CDOR03 P 09/15/2031	0.02
HONG LEONG BANK BERHAD SEDOL 6436892	0.02
NICE INFORMATION SERVICE CO SEDOL 6248332	0.02
GNR 2013-20 QI IO 04.5000 12/16/2042	0.02
WFRBS 2011-C3 E 144A 05.0000 03/15/2044	0.02
JPY/USD 08/18/2021 SSBT	0.02
GLPG NA R US0001M P 12/15/25 GS	0.02
GNR 2018-127 IB IO 04.5000 06/20/2045	0.02
AUD/USD 10/20/2021 SSBT	0.02
LUN DC R US0001M P 12/15/25 GS	0.02
4503 JP R US0001M P 12/15/25 GS	0.02
GNR 2018-127 ID IO 05.0000 07/20/2045	0.02
GNR 2016-H04 KI IO 01.5201 02/20/2066	0.02
SAMSUNG ELECTRO-MECHANICS CO SEDOL 6771689	0.02
CHINA MERCHANTS BANK-H SEDOL B1DYPZ5	0.02
UCB BB R US0001M P 12/15/25 GS	0.02
GNR 2009-121 UI IO 05.0000 12/20/2039	0.02
CHF/USD 09/15/2021 JPMCB	0.01
EUR/USD PUT 1.18 20210823 GSFX	0.01
GNR 2010-20 UI IO 05.0000 02/20/2040	0.01
RUENTEX DEVELOPMENT CO LTD SEDOL 6748423	0.01
ERF FP R US0001M P 12/15/25 GS	0.01
IOS.FN30.400.14 R USL1M P 01/12/45 CS	0.01
CMB CMBX.NA.BB.9 2058-09-17 500.0 09/17/2058 CS	0.01
IOS.FN30.350.12 R USL1M P 01/12/43 CS	0.01
EUR/USD 09/15/2021 CSI-FX	0.01

## Putnam VT Multi-Asset Absolute Return Fund

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CHF/USD 09/15/2021 MSCIL	0.01
EUR/USD 09/15/2021 TDBK	0.01
GNR 2015-H10 EI IO 01.6071 04/20/2065	0.01
INCY US R US0001M P 12/15/25 GS	0.01
QUALITAS CONTROLADORA SAB CV SEDOL BYMXF65	0.01
1.70 R ISWP FWD NOKOIB6M P 09/15/2031	0.01
TOP GLOVE CORP BHD SEDOL B05L892	0.01
GNR 2014-163 NI IO 05.0000 02/20/2044	0.01
FOCUS MEDIA 144A/REGS WARRANT 04/12/2023	0.01
HOPSON DEVELOPMENT HOLDINGS SEDOL BMXJW56	0.01
GBP/USD 09/15/2021 CSI-FX	0.01
GNR 2011-H15 AI IO 01.5314 06/20/2061	0.01
GRF SM R US0001M P 12/15/25 GS	0.01
GNR 2015-24 IA IO 03.5000 02/20/2045	0.01
GNR 2013-129 SN IO 06.0664 09/20/2043	0.01
FHR 4193 PI IO 04.0000 03/15/2043	0.01
1.65 R ISWP FWD US0003M P 09/15/2031	0.01
EUR/USD 09/15/2021 CITI	0.01
FNR 2012-151 PI IO 03.0000 01/25/2043	0.01
GNR 2018-127 IE IO 03.5000 01/20/2046	0.01
GBP/USD 09/15/2021 TDBK	0.01
CMB CMBX.NA.BB.9 2058-09-17 500.0 09/17/2058 ML	0.01
FHR 4206 IP IO 03.0000 12/15/2041	0.01
FNR 2013-35 PI IO 03.0000 02/25/2042	0.01
AUD/USD 10/20/2021 GSFY	0.01
JPY/USD 08/18/2021 GSFY	0.01
NOVN SW R US0001M P 12/15/25 GS	0.01
REGN US R US0001M P 12/15/25 GS	0.01
KWG GROUP HOLDINGS LTD SEDOL B1YBF00	0.01
FHR 4801 IG IO 03.0000 06/15/2048	0.01
GNR 2013-24 PI IO 04.0000 11/20/2042	0.01
GNR 2016-75 EI IO 03.5000 08/20/2045	0.01
IOS.FN30.400.14 R USL1M P 01/12/45 GS	0.01
IOS.FN30.400.14 R USL1M P 01/12/45 CS	0.01
CMB CMBX.NA.BB.10 2059-11-17 500.0 11/17/2059 CS	0.01
CMB CMBX.NA.BB.10 2059-11-17 500.0 11/17/2059 ML	0.01
CMB CMBX.NA.BB.10 2059-11-17 500.0 11/17/2059 CS	0.01
SWPTN 5YX30YR 2.8325 USD 02/15/2022 JP	0.01
CMB CMBX.NA.BB.9 2058-09-17 500.0 09/17/2058 MS	0.01
0.05 R ISWP FWD EUR006M P 09/15/2031	0.01
REPUBLIC OF VENEZUELA REGS 07.6500 04/21/2025	0.01
AUD/USD 10/20/2021 RBSF	0.01
GBP/USD PUT 1.37 20210823 MSCIL	0.01
GNR 2010-35 QI IO 04.5000 03/20/2040	0.00
PETROLEOS DE VENEZUELA S REGS 05.3750 04/12/2027	0.00

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4568 JP R US0001M P 12/15/25 GS	0.00
GNR 2013-23 IK IO 03.0000 09/20/2037	0.00
1.3115 R ISWP US0003M P 07/19/2031	0.00
IOS.FN30.650.67 R USL1M P 01/12/38 BC	0.00
AUD/USD 10/20/2021 MSCIL	0.00
REC IM R US0001M P 12/15/25 GS	0.00
CHF/USD 09/15/2021 RBSF	0.00
OGN US R US0001M P 12/15/25 GS	0.00
-0.05 R ISWP FWD CHL6M P 09/15/2031	0.00
CMB CMBX.NA.BB.11 2054-11-18 500.0 11/18/2054 CG	0.00
GNR 2015-99 LI IO 04.0000 07/20/2045	0.00
CMB CMBX.NA.BB.10 2059-11-17 500.0 11/17/2059 CG	0.00
CMB CMBX.NA.BB.10 2059-11-17 500.0 11/17/2059 MS	0.00
CMB CMBX.NA.BB.10 2059-11-17 500.0 11/17/2059 CG	0.00
GNR 2013-79 XI IO 03.5000 11/20/2039	0.00
AUD/USD 10/20/2021 CSI-FX	0.00
ORNBV FH R US0001M P 12/15/25 GS	0.00
CMB CMBX.NA.BB.9 2058-09-17 500.0 09/17/2058 GS	0.00
CMB CMBX.NA.BB.9 2058-09-17 500.0 09/17/2058 MS	0.00
CMB CMBX.NA.BB.9 2058-09-17 500.0 09/17/2058 GS	0.00
VRTX US R US0001M P 12/15/25 GS	0.00
FNR 2012-136 PI IO 03.5000 11/25/2042	0.00
GNR 2015-124 NI IO 03.5000 06/20/2039	0.00
UBSBB 2012-C2 F 144A05.0000 05/10/2063	0.00
CMB CMBX.NA.BB.11 2054-11-18 500.0 11/18/2054 ML	0.00
GNR 2013-157 IA IO 03.5000 04/20/2040	0.00
IOS.FN30.400.10 R USL1M P 01/12/41 BA	0.00
IOS.FN30.400.10 R USL1M P 01/12/41 BA	0.00
CAS 2015-C02 2M2 04.0893 05/25/2025	0.00
JPY/USD 08/18/2021 CITI	0.00
EUR/USD 09/15/2021 WPAC	0.00
JPY/USD 08/18/2021 BANKAM	0.00
GNR 2013-100 MI IO 03.5000 02/20/2043	0.00
IOS.FN30.400.10 R USL1M P 01/12/41 CI	0.00
CMB CMBX.NA.BB.8 2057-10-17 500.0 10/17/2057 CS	0.00
CMB CMBX.NA.BB.8 2057-10-17 500.0 10/17/2057 CG	0.00
AUD/USD 10/20/2021 HSBCB	0.00
AUD/USD 10/20/2021 JPMCB	0.00
CAD/USD 10/20/2021 HSBCB	0.00
IOS.FN30.350.12 R USL1M P 01/12/43 CS	0.00
IOS.FN30.400.10 R USL1M P 01/12/41 BC	0.00
CMB CMBX.NA.BB.11 2054-11-18 500.0 11/18/2054 CG	0.00
FNR 2013-31 NI IO 03.0000 06/25/2041	0.00
SWPTN 10YX20Y P 1.275 USD 03/05/2030 BA	0.00
GBP/USD 09/15/2021 WPAC	0.00

## Putnam VT Multi-Asset Absolute Return Fund

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0.30 R ISWP FWD US0003M P 09/15/2023	0.00
GNR 2014-133 AI IO 04.0000 10/20/2036	0.00
GNR 2015-96 NI IO 03.5000 01/20/2039	0.00
CAD/USD 10/20/2021 RBSF	0.00
2.2225 R ISWP FWD US0003M P 06/05/2029	0.00
HKD/USD 08/18/2021 SSBT	0.00
AUD/USD 10/20/2021 TDBK	0.00
FRONTKEN CORP BHD-CW26 SEDOL BNBW845	0.00
SWPTN 10YX20Y R 2.8175 USD 03/23/2027 GS	0.00
CHF/USD 09/15/2021 HSBCB	0.00
JPY/USD 08/18/2021 JPMCB	0.00
1.275 R ISWP FWD US0003M P 03/07/2050	0.00
JPY/USD 08/18/2021 WPAC	0.00
GNR 2012-141 WI IO 03.5000 11/20/2041	0.00
GNR 2013-102 IP IO 03.5000 06/20/2043	0.00
HKD/USD 08/18/2021 TDBK	0.00
FHR 4097 PI IO 03.5000 11/15/2040	0.00
HKD/USD 08/18/2021 MSCIL	0.00
HKD/USD 08/18/2021 HSBCB	0.00
CAD/USD 10/20/2021 JPMCB	0.00
HKD/USD 08/18/2021 UBS	0.00
GNR 2011-116 IB IO 05.0000 10/20/2040	0.00
HKD/USD 08/18/2021 BANKAM	0.00
MLCFC 2006-4 XC IO P/P 144A 01.1725 12/12/2049	0.00
GLOW ENERGY PCL - FOREIGN SEDOL B074GX9	0.00
SWPTN 2YX30Y P 2.3075 USD 06/20/2022 BA	-0.00
CAD/USD 10/20/2021 WPAC	-0.00
2.3075 R ISWP FWD US0003M P 06/22/2052	-0.00
NZD/USD 10/20/2021 CITI	-0.00
1.83 R ISWP FWD NFIX3MID P 09/15/2031	-0.00
1.662 R ISWP US0003M P 07/19/2051	-0.00
CAD/USD 10/20/2021 UBS	-0.00
SWPTN 10YX20Y P 2.8175 USD 03/23/2027 GS	-0.00
CAD/USD 10/20/2021 TDBK	-0.00
NZD/USD 10/20/2021 HSBCB	-0.00
CAD/USD 10/20/2021 MSCIL	-0.00
1.4255 R ISWP US0003M P 02/24/2031	-0.00
1.3659 R ISWP US0003M P 02/22/2031	-0.00
CAD/USD 10/20/2021 BCAP-FX	-0.00
NZD/USD 10/20/2021 RBSF	-0.00
1.16 R ISWP US0003M P 10/16/2050	-0.00
CAD/USD 10/20/2021 CSI-FX	-0.00
NZD/USD 10/20/2021 WPAC	-0.00
NZD/USD 10/20/2021 MSCIL	-0.00
SWPTN 10YX20Y R 1.275 USD 03/05/2030 BA	-0.00

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CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 BA	-0.00
1.51882 R ISWP US0003M P 03/02/2031	-0.00
JPY/USD 08/18/2021 RBSF	-0.00
2.184 R ISWP FWD US0003M P 12/07/2030	-0.00
SEK/USD 09/15/2021 TDBK	-0.00
NZD/USD 10/20/2021 TDBK	-0.00
NZD/USD 10/20/2021 UBS	-0.00
JPY/USD 08/18/2021 BCAP-FX	-0.00
CAD/USD 10/20/2021 BANKAM	-0.00
GBP/USD 09/15/2021 HSBCB	-0.00
SEK/USD 09/15/2021 JPMCB	-0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 BA	-0.00
CMB CMBX.NA.A.6 2063-05-11 200.0 05/11/2063 GS	-0.00
CHF/USD 09/15/2021 CITI	-0.00
SEK/USD 09/15/2021 BANKAM	-0.00
JPY/USD 08/18/2021 HSBCB	-0.00
CMB CMBX.NA.A.6 2063-05-11 200.0 05/11/2063 GS	-0.00
CAD/USD 10/20/2021 SSBT	-0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.00
JPY/USD 08/18/2021 TDBK	-0.00
1.27 R ISWP FWD US0003M P 01/27/2047	-0.00
CHF/USD 09/15/2021 BCAP-FX	-0.00
GBP/USD 09/15/2021 UBS	-0.00
CHF/USD 09/15/2021 UBS	-0.00
GBP/USD 09/15/2021 BANKAM	-0.00
AUD/USD 10/20/2021 CITI	-0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 BA	-0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 BA	-0.00
SWPTN 2YX30YR 2.3075 USD 06/20/2022 BA	-0.00
CAD/USD 10/20/2021 GSFY	-0.00
SWPTN 5YX30Y P 2.8325 USD 02/15/2022 JP	-0.00
IOS.FN30.350.12 P USL1M R 01/12/43 BC	-0.01
GBP/USD 09/15/2021 CITI	-0.01
CAD/USD 10/20/2021 CITI	-0.01
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.01
EUR/USD 09/15/2021 RBSF	-0.01
SEK/USD 09/15/2021 SSBT	-0.01
CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 GS	-0.01
GBP/USD 09/15/2021 BCAP-FX	-0.01
NZD/USD 10/20/2021 JPMCB	-0.01
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.01
NZD/USD 10/20/2021 SSBT	-0.01
0.94375 R ISWP FWD US0003M P 04/01/2026	-0.01
NOK/USD 09/15/2021 UBS	-0.01

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SEK/USD 09/15/2021 RBSF	-0.01
IOS.FN30.400.10 P USL1M R 01/12/41 CS	-0.01
AUD/USD 10/20/2021 BCAP-FX	-0.01
CMB CMBX.NA.A.6 2063-05-11 200.0 05/11/2063 GS	-0.01
IOS.FN30.300.13 P USL1M R 01/12/44 GS	-0.01
IOS.FN30.400.14 P USL1M R 01/12/45 JP	-0.01
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.01
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.01
IOS.FN30.350.12 P USL1M R 01/12/43 GS	-0.01
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 BC	-0.01
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.01
GBP/USD 09/15/2021 RBSF	-0.01
NZD/USD 10/20/2021 GSFY	-0.01
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.01
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.01
CMB CMBX.NA.A.6 2063-05-11 200.0 05/11/2063 CS	-0.01
JPY/USD 08/18/2021 MSCIL	-0.01
0.77 R ISWP FWD SES3M P 09/15/2031	-0.01
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.01
CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 GS	-0.01
CMB CMBX.NA.BB.7 2047-01-17 500.0 01/17/2047 CG	-0.01
GBP/USD 09/15/2021 JPMCB	-0.01
EBIX US P R 07/05/22 CI	-0.01
SEK/USD 09/15/2021 BCAP-FX	-0.01
SEK/USD 09/15/2021 UBS	-0.01
0.95 R ISWP FWD US0003M P 09/15/2026	-0.01
CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 GS	-0.02
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.02
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.02
IOS.FN30.400.14 P US0001M R 01/12/45 JP	-0.02
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.02
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.02
JPY/USD 08/18/2021 UBS	-0.02
AUD/USD 10/20/2021 UBS	-0.02
CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 BC	-0.02
0.975 R ISWP FWD SONIA P 09/15/2031	-0.02
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.02
NOK/USD 09/15/2021 SSBT	-0.02
EUR/USD 09/15/2021 GSFY	-0.02
215600 KS P US0001M R 12/15/25 GS	-0.02
EUR/USD 09/15/2021 HSBCB	-0.02
NOK/USD 09/15/2021 MSCIL	-0.02
GBP/USD 09/15/2021 SSBT	-0.02
ZYXI US P US0001M R 07/05/22 CI	-0.02
CMB CMBX.NA.A.6 2063-05-11 200.0 05/11/2063 GS	-0.02

## Putnam VT Multi-Asset Absolute Return Fund

### Full holdings as of September 30, 2021

EUR/USD 09/15/2021 MSCIL	-0.02
CPURNSA P 2.686 R 04/01/31	-0.03
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.03
CMB CMBX.NA.BB.6 2063-05-11 500.0 05/11/2063 CG	-0.03
CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 CS	-0.04
PLUG US P US0001M R 07/05/22 CI	-0.04
BGS US P R 07/05/22 CI	-0.04
TPIC US P US0001M R 07/05/22 CI	-0.04
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.04
WDFC US P US0001M R 07/05/22 CI	-0.04
1.45 R ISWP FWD SOFRRATE P 09/15/2031	-0.04
GBP/USD 09/15/2021 MSCIL	-0.04
EUR/USD 09/15/2021 BANKAM	-0.05
EUR/USD 09/15/2021 UBS	-0.05
NOK/USD 09/15/2021 GSFY	-0.05
NOK/USD 09/15/2021 JPMCB	-0.05
EUR/USD 09/15/2021 SSBT	-0.05
NOK/USD 09/15/2021 TDBK	-0.06
BE US P US0001M R 12/15/25 GS	-0.06
SEK/USD 09/15/2021 GSFY	-0.06
SEK/USD 09/15/2021 MSCIL	-0.06
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.06
ACIW US P R 07/05/22 CI	-0.07
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 MS	-0.07
GBP/USD 09/15/2021 GSFY	-0.08
CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 CS	-0.08
OM US P US0001M R 12/15/25 GS	-0.09
PGNY US P US0001M R 12/15/25 GS	-0.10
DY US P R 07/05/22 CI	-0.10
PSN US P US0001M R 07/05/22 CI	-0.10
AIR US P US0001M R 07/05/22 CI	-0.11
LUMN US P US0001M R 07/05/22 CI	-0.11
PBH US P US0001M R 07/05/22 CI	-0.11
PING US P US0001M R 07/05/22 CI	-0.11
BB US P US0001M R 07/05/22 CI	-0.11
NEWR US P US0001M R 12/15/25 GS	-0.12
OTEX US P US0001M R 12/15/25 GS	-0.12
EVBG US P US0001M R 07/05/22 CI	-0.12
COLM US P US0001M R 07/05/22 CI	-0.12
FCNCA US P US0001M R 07/05/22 CI	-0.14
SHOO US P US0001M R 12/15/25 GS	-0.14
ACA US P US0001M R 07/05/22 CI	-0.14
BYND US P US0001M R 12/15/25 GS	-0.14
STOR US P US0001M R 07/05/22 CI	-0.15
1.57 R ISWP US0003M P 04/20/2031	-0.16

## Putnam VT Multi-Asset Absolute Return Fund

### Full holdings as of September 30, 2021

NDUEEGF P US0001M R 11/02/21 CS	-0.18
RH US P US0001M R 07/05/22 CI	-0.18
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 ML	-0.21
CPURNSA P 2.79 R 04/15/26	-0.22
HSY US P US0001M R 07/05/22 CI	-0.22
STE US P US0001M R 12/15/25 GS	-0.24
ITRI US P US0001M R 07/05/22 CI	-0.27
WWD US P R 07/05/22 CI	-0.29
ELAN US P US0001M R 07/05/22 CI	-0.30
FICO US P US0001M R 07/05/22 CI	-0.32
PEN US P US0001M R 07/05/22 CI	-0.33
LHX US P US0001M R 07/05/22 CI	-0.35
TSLA US P R 07/05/22 CI	-0.37
RL US P US0001M R 07/05/22 CI	-0.38
BHC US P R 07/05/22 CI	-0.42
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 CG	-0.44
CTXS US P US0001M R 07/05/22 CI	-0.45
ISRG US P US0001M R 07/05/22 CI	-0.47
NDUEEGF P US0001M R 11/02/21 UB	-0.50
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	-0.84
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 US	-0.88
FNMA FN30 TBA UMBS 02.0000 09/01/2051	-4.29
NDUEEGF P US0001M R 11/02/21 UB	-6.18
NDUEEGF P US0001M R 11/02/21 CS	-6.58
US 5YR NOTE (CBT) SEP21 FVU1	-17.84
US 2YR NOTE (CBT) SEP21 TUU1	-18.60
GSGLPWDS P US0001M R 12/15/25 GS	-18.87
RU10INTR P US0003M R 06/20/23 BA	-22.93
SPTR P US0001M R 05/23/23 UB	-36.16

### Full holdings as of June 30, 2021

US 10YR NOTE (CBT)SEP21 TYU1	47.53
UBSPUSER R US0001M P 05/22/23 UB	36.51
MLFCF15 R US0003M P 06/20/23 BA	22.74
GSGLPWDL R US0001M P 12/15/25 GS	19.12
US 10YR ULTRA FUT SEP21 UXYU1	8.70
BEFSBAXD R 0.1 P 05/26/22 BC	7.76
JPCMPTFL R US0001M P 06/09/22 JP	6.49
RU10VATR R US0001M P 02/05/22 JP	5.36
FNMA FN30 TBA UMBS 04.0000 07/01/2051	4.49
FNMA FN30 TBA UMBS 03.5000 07/01/2051	4.44
FNMA FN30 TBA UMBS 03.0000 07/01/2051	4.40
GSVIUS85 R 0.45 P 12/15/25 GS	3.27
S&P GSCI LIGHT ENERGY ER	3.27
MSCI EMGMKT SEP21 MESU1	3.17



## Putnam VT Multi-Asset Absolute Return Fund

### Full holdings as of September 30, 2021

FINANCIAL SELECT SECTOR SPDR SEDOL 2364038	2.97
MATERIALS SELECT SECTOR SPDR SEDOL 2436841	2.96
TREASURY BILL 00.0000 10/14/2021	2.53
NASDAQ 100 E-MINI SEP21 NQU1	2.46
CITI CROSS-ASSET TREND 10% VOL INDEX	1.81
GSVIVV69 R 0.3 P 12/15/25 GS	1.78
CITI COMMOD F3-F0 4X LEVERED INDEX	1.74
S&P GSCI LIGHT ENERGY ER INDEX	1.69
CONSUMER STAPLES SPDR SEDOL 2369389	1.58
COMM SERV SELECT SECTOR SPDR SEDOL BFXHC51	1.57
BAML COMMODITY MLBX4SX6 ER STRATEGY	1.46
E-MINI RUSS 2000 SEP21 RTYU1	1.46
ISHARES MSCI INDIA ETF SEDOL B6XGR72	1.44
LLOYDS BANK PLC 53943RU15 DCP 07/01/2021	1.06
MANHATTAN ASSET FUNDING CO LL 56274LU10 DCP 07/01/2021	1.06
VICTORY RECEIVABLES CORP 92646KUL4 DCP 07/20/2021	1.06
BARCLAYS BANK PLC CCP 06742XDX2 DCP 07/22/2021	1.06
NRW BANK 62939LUS6 DCP 07/26/2021	1.06
OLD LINE FUNDING LLC 67983TUS3 DCP 07/26/2021	1.06
MITSUBISHI UFJ TRUST & BANKIN 60682WV54 DCP 08/05/2021	1.06
SOCIETE GENERALE SA 83369BVQ6 DCP 08/24/2021	1.06
SUMITOMO MITSUI TRUST BANK LT 86564YW24 DCP 09/02/2021	1.05
SWEDBANK AB 87019RW77 DCP 09/07/2021	1.05
SKANDINAVISKA ENSKILDA BANKEN 83050TW80 DCP 09/08/2021	1.05
MATCHPOINT FINANCE PLC 57666AWL2 DCP 09/20/2021	1.05
FMS WERTMANAGEMENT 34411GX43 DCP 10/04/2021	1.05
GSVICUB3 R 0.45 P 12/15/25 GS	0.99
MSCI EAFE SEP21 MFSU1	0.97
SAMSUNG ELECTRONICS CO LTD SEDOL 6771720	0.88
TREASURY BILL 00.0000 07/20/2021	0.84
TREASURY BILL 00.0000 08/05/2021	0.84
ALIBABA GROUP HOLDING LTD SEDOL BK6YZP5	0.80
TAIWAN SEMICONDUCTOR-SP ADR SEDOL 2113382	0.71
GSVIVVOL R 0.3 P 12/15/25 GS	0.66
S&P GSCI LIGHT ENERGY ER	0.52
TENCENT HOLDINGS LTD SEDOL BMMV2K8	0.51
CASH MGMT BILL 00.0000 09/28/2021	0.42
CASH MGMT BILL 00.0000 10/05/2021	0.42
VALE SA-SP ADR SEDOL 2857334	0.37
CDX CDX.NA.HY.36 500.0 06/20/2026	0.36
REPUBLICA ORIENT URUGUAY USD 04.3750 10/27/2027	0.34
PING AN INSURANCE GROUP CO-H SEDOL B01FLR7	0.33
CAS 2016-CO2 1B 12.3415 09/25/2028	0.31
JD.COM INC-ADR SEDOL BMM27D9	0.30
YUM CHINA HOLDINGS INC SEDOL BYW4289	0.26

## Putnam VT Multi-Asset Absolute Return Fund

### Full holdings as of September 30, 2021

UNITED MICROELECTRONICS CORP SEDOL 6916628	0.26
KIA CORP SEDOL 6490928	0.25
KB FINANCIAL GROUP INC SEDOL B3DF0Y6	0.25
LG ELECTRONICS INC SEDOL 6520739	0.24
HANA FINANCIAL GROUP SEDOL B0RNRFS	0.23
BAML COMMODITY MLBX4SX6 ER STRATEGY 3X NOTE 9/2/2021	0.23
VIPSHOP HOLDINGS LTD - ADR SEDOL B3N0H17	0.23
SOUTHERN COPPER CORP SEDOL 2823777	0.23
UNITED MEXICAN STATES USD 05.5500 01/21/2045	0.22
SHENZHEN MINDRAY BIO-MEDICAL ELEC CO 144A/REGS WARRANT 12/10	0.22
SANY HEAVY INDUSTRY CO LTD 144A/REGS WARRANT 12/16/2021	0.22
BANCO SANTANDER BRASIL-UNIT SEDOL B4V5RY4	0.21
PARADE TECHNOLOGIES LTD SEDOL B6RV676	0.21
CDX CDX.EM.35 100.0 06/20/2026	0.21
CHINA SHENHUA ENERGY CO-H SEDOL B09N7M0	0.20
MMC NORILSK NICKEL PJSC-ADR SEDOL BYSW6D0	0.20
ANGLO AMERICAN PLATINUM LTD SEDOL 6761000	0.19
BANCO BRADESCO SA-PREF SEDOL B00FM53	0.18
EVERGREEN MARINE CORP LTD SEDOL 6324500	0.18
FHR 5053 IB IO 03.0000 12/25/2050	0.18
FNR 2017-74 SA IO 05.6585 10/25/2047	0.17
SRI TRANG GLOVES THA-FOREIGN SEDOL BMGJNPO	0.17
LUKOIL PJSC-SPON ADR SEDOL BYZDW27	0.17
WANT WANT CHINA HOLDINGS LTD SEDOL B2Q14Z3	0.16
WAT US R US0001M P 12/15/25 GS	0.16
CHAROEN POKPHAND FOOD-FORGN SEDOL B5L2DG6	0.16
FNR 2020-85 IP IO 03.0000 12/25/2050	0.16
TCS GROUP HOLDING-GDR REG S SEDOL BF233S0	0.16
KUMHO PETROCHEMICAL CO LTD SEDOL 6499323	0.15
COSCO SHIPPING HOLDINGS CO-H SEDOL B0B8Z18	0.15
REALTEK SEMICONDUCTOR CORP SEDOL 6051422	0.15
RJHI AB R US0001M P 06/20/23 BA	0.15
AMBEV SA SEDOL BG7ZWY7	0.15
NOVATEK MICROELECTRONICS COR SEDOL 6346333	0.15
YOUNGOR GROUP CO 144A/REGS WARRANT 07/29/2022	0.15
IQV US R US0001M P 12/15/25 GS	0.15
CSPC PHARMACEUTICAL GROUP LT SEDOL 6191997	0.15
MTD US R US0001M P 12/15/25 GS	0.15
CHINA FEIHE LTD SEDOL BK0SBL1	0.15
CHAILEASE HOLDING CO LTD SEDOL B58J1S8	0.14
CHINA MEDICAL SYSTEM HOLDING SEDOL B6WY993	0.14
A US R US0001M P 12/15/25 GS	0.14
CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 JP	0.14
MRK GR R US0001M P 12/15/25 GS	0.14
ZHONGSHENG GROUP HOLDINGS SEDOL B633D97	0.14

## Putnam VT Multi-Asset Absolute Return Fund

### Full holdings as of September 30, 2021

XINYI GLASS HOLDINGS LTD SEDOL B05NXN7	0.14
CAS 2017-C02 2M2 03.7415 09/25/2029	0.14
ANHUI CONCH CEMENT CO LTD-H SEDOL 6080396	0.13
PKI US R US0001M P 12/15/25 GS	0.13
SCRT 2019-4 M 04.5000 02/25/2059	0.13
GNR 2020-173 MI IO 02.5000 11/20/2050	0.12
TMO US R US0001M P 12/15/25 GS	0.12
ZTS US R US0001M P 12/15/25 GS	0.12
HAITIAN INTERNATIONAL HLDGS SEDOL B1L2RC2	0.11
ILMN US R US0001M P 12/15/25 GS	0.11
AGILE GROUP HOLDINGS LTD SEDOL B0PR2F4	0.11
ALXN US R US0001M P 12/15/25 GS	0.11
GNR 2018-153 AI IO 04.5000 09/16/2045	0.11
IPN FP R US0001M P 12/15/25 GS	0.11
QUANTA COMPUTER INC SEDOL 6141011	0.11
FHR 5082 IQ IO 03.0000 03/25/2051	0.11
GNR 2020-33 SA IO 06.0066 03/20/2050	0.11
SPST 2021-6 A 00.8908 04/25/2022	0.11
MWST 2020-2 A 00.8915 11/25/2053	0.11
SHRP 2020-1 NOTE 03.0470 07/25/2024	0.11
SPST 2020-15 A 01.4608 12/10/2021	0.11
MWST 2020-1 A 00.9915 10/25/2053	0.11
MAXSCEND MICROELECTRONICS 144A/REGS WARRANT 07/29/2022	0.11
FNR 2016-3 MI IO 05.5000 02/25/2046	0.10
PFE US R US0001M P 12/15/25 GS	0.10
PETROBRAS GLOBAL FINANCE USD 06.2500 03/17/2024	0.10
CMLTI 2007-AR5 1A1A 02.8872 04/25/2037	0.10
ENBRIDGE INC USD 04.2500 12/01/2026	0.10
GNR 2014-184 DI IO 05.5000 12/16/2044	0.09
FNR 2015-30 IO IO 05.5000 05/25/2045	0.09
WFRBS 2012-C7 F 144A 04.5000 06/15/2045	0.09
RHB BANK BHD SEDOL 6244675	0.09
CHINA MINSHENG BANKING COR-H SEDOL B57JY24	0.09
MRK US R US0001M P 12/15/25 GS	0.09
SUOFEIYA HOME COLLECTION C 144A/REGS WARRANT 06/10/2022	0.09
JNJ US R US0001M P 12/15/25 GS	0.08
4506 JP R US0001M P 12/15/25 GS	0.08
GNR 2010-125 SD IO 06.6054 01/16/2040	0.08
FNR 2018-51 IO IO 06.5000 07/25/2048	0.08
PETROLEOS MEXICANOS USD 06.5000 03/13/2027	0.08
JPY/USD 08/18/2021 SSBT	0.08
GSK LN R US0001M P 12/15/25 GS	0.08
GNR 2016-H02 BI IO 01.8537 11/20/2065	0.08
CMB CMBX.NA.BB.7 2047-01-17 500.0 01/17/2047 GS	0.08
ABBV US R US0001M P 12/15/25 GS	0.08

## Putnam VT Multi-Asset Absolute Return Fund

### Full holdings as of September 30, 2021

SAN FP R US0001M P 12/15/25 GS	0.08
FNR 2020-47 ID IO 04.0000 07/25/2050	0.08
FOSHAN HAITIAN FLAVOURING & FOOD 144A/REGS WARRANT 05/11/202	0.08
OFFCN EDUCATION TECH 144A/REGS WARRANT 04/12/2022	0.08
COM7 PCL-F SEDOL BZ2YN49	0.08
CAD/USD 07/21/2021 GSFY	0.07
GNR 2015-H11 CI IO 01.8561 05/20/2065	0.07
BIIB US R US0001M P 12/15/25 GS	0.07
JIANGSU HENGLI HYDRAULIC C-A 144A/REGS WARRANT 03/23/2022	0.07
STACR 2020-HQA2 M2 03.1915 03/25/2050	0.07
PETROBRAS GLOBAL FIN USD 05.9990 01/27/2028	0.07
FNR 2017-8 SB IO 06.0085 02/25/2047	0.07
GSMS 2014-GC24 D 144A 04.6690 09/10/2047	0.07
FHR 4964 IA IO 04.5000 03/25/2050	0.07
VTRS US R US0001M P 12/15/25 GS	0.07
OPAP SA SEDOL 7107250	0.07
RISESUN REAL ESTATE DEV-A 144A/REGS WARRANT 11/02/2021	0.07
HYPERA SA SEDOL B2QY968	0.07
PRGO US R US0001M P 12/15/25 GS	0.07
PROVINCIA DE BUENOS P/P 144A 10.8750 01/26/2022	0.07
FNR 2016-88 SK IO 05.9085 12/25/2046	0.07
GNR 2015-H15 JI IO 01.9513 06/20/2065	0.07
DIM FP R US0001M P 12/15/25 GS	0.07
HELLENIC TELECOMMUN ORGANIZA SEDOL 5051605	0.06
BAYN GR R US0001M P 12/15/25 GS	0.06
CAS 2017-C03 1M2 03.0915 10/25/2029	0.06
LITE-ON TECHNOLOGY CORP SEDOL 6519481	0.06
BMY US R US0001M P 12/15/25 GS	0.06
AZN LN R US0001M P 12/15/25 GS	0.06
GNR 2015-H25 BI IO 01.9644 10/20/2065	0.06
CPURNSA P 2.686 R 04/01/31	0.06
CTBC FINANCIAL HOLDING CO LT SEDOL 6527666	0.06
GNR 2015-H25 AI IO 01.6077 09/20/2065	0.05
FNR 2020-16 SG IO 05.9585 03/25/2050	0.05
PETROBRAS GLOBAL FINANCE USD 08.7500 05/23/2026	0.05
FNR 2017-108 SA IO 06.0585 01/25/2048	0.05
GNR 2018-91 SJ IO 06.1566 07/20/2048	0.05
MEITUAN-CLASS B SEDOL BGJW376	0.05
GNR 2010-68 SD IO 06.4866 06/20/2040	0.05
FNR 2017-32 IP IO 04.5000 05/25/2047	0.05
CSL AU R US0001M P 12/15/25 GS	0.05
4581 JP R US0001M P 12/15/25 GS	0.05
SINOTRUK HONG KONG LTD SEDOL B296ZH4	0.05
CAS 2015-C04 1M2 05.7915 04/25/2028	0.05
POSCO SEDOL 6693233	0.05

## Putnam VT Multi-Asset Absolute Return Fund

### Full holdings as of September 30, 2021

SHANDONG BUCHANG PHARMACEUTICALS CO LTD 144A/REGS WARRANT 12	0.05
GNR 2016-51 MS IO 05.9566 04/20/2046	0.05
WAMU 2004-AR12 A2B 01.0115 10/25/2044	0.05
GNR 2017-H14 DI IO 01.6998 06/20/2067	0.05
MARFRIG GLOBAL FOODS SA SEDOL B1YWHR4	0.05
GNR 2016-150 I IO 05.0000 11/20/2046	0.05
CAD/USD 07/21/2021 SSBT	0.05
AMGN US R US0001M P 12/15/25 GS	0.05
TEVA US R US0001M P 12/15/25 GS	0.05
SEAZEN HOLDINGS CO 144A/REGS WARRANT 06/03/2022	0.05
ZHUZHOU KIBING GROUP CO 144A/REGS WARRANT 07/29/2022	0.05
CAS 2017-C02 2B1 05.5915 09/25/2029	0.05
GILD US R US0001M P 12/15/25 GS	0.05
GNR 2015-H20 CI IO 02.1970 08/20/2065	0.04
FUBON FINANCIAL HOLDING CO SEDOL 6411673	0.04
LOGAN GROUP CO LTD SEDOL BH6X937	0.04
SHAANXI COAL INDUSTRY 144A/REGS WARRANT 07/29/2022	0.04
SEEGENE INC SEDOL B679Q36	0.04
GNR 2015-H26 GI IO 01.7905 10/20/2065	0.04
GNR 2015-H19 NI IO 01.9020 07/20/2065	0.04
JPMBB 2013-C14 E 144A 04.7228 08/15/2046	0.04
LLY US R US0001M P 12/15/25 GS	0.04
FNR 2016-65 CS IO 06.0085 09/25/2046	0.04
CAS 2020-R01 1B1 03.3415 01/25/2040	0.04
GNR 2015-H24 HI IO 02.0571 09/20/2065	0.04
GNR 2018-H05 AI IO 02.3891 02/20/2068	0.04
FNR 2013-130 SD IO 06.5085 01/25/2044	0.04
GNR 2015-H09 AI IO 01.7112 04/20/2065	0.04
TISCO FINANCIAL-FOREIGN SEDOL B3KFW76	0.04
GNR 2019-121 DS IO 06.0066 08/20/2049	0.04
GNR 2015-H09 BI IO 01.6768 03/20/2065	0.04
GNR 2014-H21 AI IO 01.6665 10/20/2064	0.04
BANK OF SHANGHAI 144A/REGS WARRANT 11/30/2021	0.04
GNR 2015-H24 BI IO 01.5903 08/20/2065	0.04
JPMCC 2006-LDP9 AMS 05.3370 05/15/2047	0.04
PETROLEOS MEXICANOS USD 06.3750 01/23/2045	0.04
4523 JP R US0001M P 12/15/25 GS	0.04
BURSA MALAYSIA BHD SEDOL B06FV38	0.04
HARTALEGA HOLDINGS BHD SEDOL B2QPJK5	0.04
VIFN SW R US0001M P 12/15/25 GS	0.03
GNR 2017-H02 BI IO 02.4409 01/20/2067	0.03
BANCO MACRO SA-ADR SEDOL B0Y62M9	0.03
CAD/USD 07/21/2021 MSCIL	0.03
GNR 2015-H10 CI IO 01.7966 04/20/2065	0.03
CMB CMBX.NA.BB.9 2058-09-17 500.0 09/17/2058 CG	0.03

## Putnam VT Multi-Asset Absolute Return Fund

### Full holdings as of September 30, 2021

CAS 2018-C05 1M2	02.4415	01/25/2031	0.03
2.00 R ISWP FWD US0003M P		09/15/2051	0.03
GNR 2018-104 SD IO	06.1066	08/20/2048	0.03
EUR/USD PUT 1.18 20210823		GSFX	0.03
4530 JP R US0001M P		12/15/25 GS	0.03
EUR/USD 09/15/2021		JPMCB	0.03
KOSSAN RUBBER INDUSTRIES		SEDOL B0DD1H9	0.03
KUMBA IRON ORE LTD		SEDOL B1G4262	0.03
CMB CMBX.NA.BB.6 2063-05-11	500.0	05/11/2063 CS	0.03
FHR 4134 PI IO	03.0000	11/15/2042	0.03
GNR 2015-53 MI IO	04.0000	04/16/2045	0.03
FNR 2016-3 NI IO	06.0000	02/25/2046	0.03
4502 JP R US0001M P		12/15/25 GS	0.03
SHINHAN FINANCIAL GROUP LTD		SEDOL 6397502	0.03
GNR 2016-H03 AI IO	01.7582	01/20/2066	0.03
COCA-COLA ICECEK AS		SEDOL B058ZV4	0.03
GNR 2015-80 IA IO	04.5000	06/20/2045	0.03
GNR 2016-H08 GI IO	01.4212	04/20/2066	0.03
CMB CMBX.NA.BBB-.7 2047-01-17	300.0	01/17/2047 MS	0.03
GNR 2017-H06 BI IO	02.3655	02/20/2067	0.03
KT CORP		SEDOL 6505316	0.03
JIANGSU HENGRUI MEDICINE 144A/REGS		WARRANT 04/12/2022	0.03
GNR 2015-167 BI IO	04.5000	04/16/2045	0.03
CHF/USD 09/15/2021		SSBT	0.03
CAS 2017-C06 2M2	02.8915	02/25/2030	0.03
JPY/USD 08/18/2021		GSFX	0.03
GNR 2015-187 JI IO	04.0000	03/20/2045	0.03
FHR 4752 PS IO	06.1271	11/15/2047	0.02
GNR 2015-H16 XI IO	02.2729	07/20/2065	0.02
GNR 2015-105 LI IO	05.0000	10/20/2039	0.02
GNR 2014-146 EI IO	05.0000	10/20/2044	0.02
INDOFOOD SUKSES MAKMUR TBK P		SEDOL 6283979	0.02
EUR/USD 09/15/2021		BCAP-FX	0.02
GNR 2010-9 UI IO	05.0000	01/20/2040	0.02
4507 JP R US0001M P		12/15/25 GS	0.02
GNR 2016-H16 DI IO	02.0098	06/20/2066	0.02
NZD/USD 07/21/2021		GSFX	0.02
HIK LN R US0001M P		12/15/25 GS	0.02
GNR 2011-17 S IO	05.9566	02/20/2041	0.02
CMB CMBX.NA.BB.7 2047-01-17	500.0	01/17/2047 GS	0.02
GNR 2013-6 AI IO	03.5000	08/20/2039	0.02
CWHL 2005-3 1A1	00.7115	04/25/2035	0.02
CHF/USD 09/15/2021		JPMCB	0.02
HONG LEONG BANK BERHAD		SEDOL 6436892	0.02
GLPG NA R US0001M P		12/15/25 GS	0.02

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NICE INFORMATION SERVICE CO SEDOL 6248332	0.02
GNR 2018-127 IB IO 04.5000 06/20/2045	0.02
GNR 2013-20 QI IO 04.5000 12/16/2042	0.02
4503 JP R US0001M P 12/15/25 GS	0.02
WFRBS 2011-C3 E 144A05.0000 03/15/2044	0.02
LUN DC R US0001M P 12/15/25 GS	0.02
CHINA MERCHANTS BANK-H SEDOL B1DYPZ5	0.02
GNR 2018-127 ID IO 05.0000 07/20/2045	0.02
GNR 2009-121 UI IO 05.0000 12/20/2039	0.02
GBP/USD PUT 1.37 20210823 MSCIL	0.02
GNR 2016-H04 KI IO 01.5266 02/20/2066	0.02
GNR 2010-20 UI IO 05.0000 02/20/2040	0.02
HOPSON DEVELOPMENT HOLDINGS SEDOL BMXJW56	0.02
SAMSUNG ELECTRO-MECHANICS CO SEDOL 6771689	0.02
UCB BB R US0001M P 12/15/25 GS	0.02
IOS.FN30.350.12 R USL1M P 01/12/43 CS	0.01
IOS.FN30.400.14 R USL1M P 01/12/45 CS	0.01
GBP/USD 09/15/2021 CSI-FX	0.01
FOCUS MEDIA 144A/REGS WARRANT 04/12/2023	0.01
CMB CMBX.NA.BB.9 2058-09-17 500.0 09/17/2058 CS	0.01
GNR 2014-163 NI IO 05.0000 02/20/2044	0.01
INCY US R US0001M P 12/15/25 GS	0.01
ERF FP R US0001M P 12/15/25 GS	0.01
RUENTEX DEVELOPMENT CO LTD SEDOL 6748423	0.01
CHF/USD 09/15/2021 MSCIL	0.01
TOP GLOVE CORP BHD SEDOL B05L892	0.01
EUR/USD 09/15/2021 CSI-FX	0.01
EUR/USD 09/15/2021 TDBK	0.01
GNR 2015-H10 EI IO 01.6022 04/20/2065	0.01
CHF/USD 09/15/2021 GSFY	0.01
GNR 2015-H18 IA IO 01.8228 06/20/2065	0.01
QUALITAS CONTROLADORA SAB CV SEDOL BYMXF65	0.01
GRF SM R US0001M P 12/15/25 GS	0.01
GNR 2011-H15 AI IO 01.5284 06/20/2061	0.01
GBP/USD 09/15/2021 TDBK	0.01
GNR 2015-24 IA IO 03.5000 02/20/2045	0.01
GNR 2013-129 SN IO 06.0566 09/20/2043	0.01
JPY/USD 08/18/2021 JPMCB	0.01
FHR 4193 PI IO 04.0000 03/15/2043	0.01
FNR 2012-151 PI IO 03.0000 01/25/2043	0.01
GNR 2018-127 IE IO 03.5000 01/20/2046	0.01
CAD/USD 07/21/2021 TDBK	0.01
FHR 4206 IP IO 03.0000 12/15/2041	0.01
GNR 2013-24 PI IO 04.0000 11/20/2042	0.01
KWG GROUP HOLDINGS LTD SEDOL B1YBF00	0.01

## Putnam VT Multi-Asset Absolute Return Fund

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CMB CMBX.NA.BB.9 2058-09-17 500.0 09/17/2058 ML	0.01
FNR 2013-35 PI IO 03.0000 02/25/2042	0.01
NZD/USD 07/21/2021 MSCIL	0.01
0.95 R ISWP FWD US0003M P 09/15/2026	0.01
FHR 4801 IG IO 03.0000 06/15/2048	0.01
CAD/USD 07/21/2021 HSBCB	0.01
NOVN SW R US0001M P 12/15/25 GS	0.01
GNR 2016-75 EI IO 03.5000 08/20/2045	0.01
CAD/USD 07/21/2021 UBS	0.01
REGN US R US0001M P 12/15/25 GS	0.01
CAD/USD 07/21/2021 CSI-FX	0.01
IOS.FN30.400.14 R USL1M P 01/12/45 CS	0.01
IOS.FN30.400.14 R USL1M P 01/12/45 GS	0.01
JPY/USD 08/18/2021 CITI	0.01
CMB CMBX.NA.BB.10 2059-11-17 500.0 11/17/2059 CS	0.01
CMB CMBX.NA.BB.10 2059-11-17 500.0 11/17/2059 ML	0.01
CMB CMBX.NA.BB.10 2059-11-17 500.0 11/17/2059 CS	0.01
CMB CMBX.NA.BB.9 2058-09-17 500.0 09/17/2058 MS	0.01
GNR 2010-35 QI IO 04.5000 03/20/2040	0.01
EUR/USD 09/15/2021 CITI	0.01
REPUBLIC OF VENEZUELA REGS 07.6500 04/21/2025	0.01
0.05 R ISWP FWD EUR006M P 09/15/2031	0.01
JPY/USD 08/18/2021 BANKAM	0.00
UBSBB 2012-C2 F 144A 05.0000 05/10/2063	0.00
NZD/USD 07/21/2021 SSBT	0.00
4568 JP R US0001M P 12/15/25 GS	0.00
IOS.FN30.650.67 R USL1M P 01/12/38 BC	0.00
PETROLEOS DE VENEZUELA S REGS 05.3750 04/12/2027	0.00
GNR 2013-23 IK IO 03.0000 09/20/2037	0.00
1.65 R ISWP FWD US0003M P 09/15/2031	0.00
GNR 2013-79 XI IO 03.5000 11/20/2039	0.00
SWPTN 5YX30YR 2.8325 USD 02/15/2022 JP	0.00
GBP/USD 09/15/2021 UBS	0.00
REC IM R US0001M P 12/15/25 GS	0.00
GNR 2015-99 LI IO 04.0000 07/20/2045	0.00
CMB CMBX.NA.BB.11 2054-11-18 500.0 11/18/2054 CG	0.00
AUD/USD 07/21/2021 MSCIL	0.00
OGN US R US0001M P 12/15/25 GS	0.00
CMB CMBX.NA.BB.10 2059-11-17 500.0 11/17/2059 CG	0.00
CMB CMBX.NA.BB.10 2059-11-17 500.0 11/17/2059 MS	0.00
CMB CMBX.NA.BB.10 2059-11-17 500.0 11/17/2059 CG	0.00
NZD/USD 07/21/2021 WPAC	0.00
ORNBV FH R US0001M P 12/15/25 GS	0.00
GNR 2015-124 NI IO 03.5000 06/20/2039	0.00
CMB CMBX.NA.BB.9 2058-09-17 500.0 09/17/2058 GS	0.00



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### Full holdings as of September 30, 2021

CMB CMBX.NA.BB.9 2058-09-17 500.0 09/17/2058 GS	0.00
CMB CMBX.NA.BB.9 2058-09-17 500.0 09/17/2058 MS	0.00
NZD/USD 07/21/2021 UBS	0.00
CMB CMBX.NA.BB.11 2054-11-18 500.0 11/18/2054 ML	0.00
GNR 2013-157 IA IO 03.5000 04/20/2040	0.00
CAD/USD 07/21/2021 BANKAM	0.00
CAS 2015-C02 2M2 04.0915 05/25/2025	0.00
FNR 2012-136 PI IO 03.5000 11/25/2042	0.00
IOS.FN30.400.10 R USL1M P 01/12/41 BA	0.00
IOS.FN30.400.10 R USL1M P 01/12/41 BA	0.00
VRTX US R US0001M P 12/15/25 GS	0.00
-0.05 R ISWP FWD CHL6M P 09/15/2031	0.00
CAD/USD 07/21/2021 CITI	0.00
GNR 2013-100 MI IO 03.5000 02/20/2043	0.00
IOS.FN30.400.10 R USL1M P 01/12/41 CI	0.00
EUR/USD 09/15/2021 WPAC	0.00
CMB CMBX.NA.BB.8 2057-10-17 500.0 10/17/2057 CG	0.00
CMB CMBX.NA.BB.8 2057-10-17 500.0 10/17/2057 CS	0.00
GBP/USD 09/15/2021 WPAC	0.00
IOS.FN30.350.12 R USL1M P 01/12/43 CS	0.00
IOS.FN30.400.10 R USL1M P 01/12/41 BC	0.00
FNR 2013-31 NI IO 03.0000 06/25/2041	0.00
NZD/USD 07/21/2021 CITI	0.00
GNR 2014-133 AI IO 04.0000 10/20/2036	0.00
CMB CMBX.NA.BB.11 2054-11-18 500.0 11/18/2054 CG	0.00
NZD/USD 07/21/2021 JPMCB	0.00
GNR 2015-96 NI IO 03.5000 01/20/2039	0.00
SWPTN 10YX20Y P 1.275 USD 03/05/2030 BA	0.00
JPY/USD 08/18/2021 WPAC	0.00
0.77 R ISWP FWD SES3M P 09/15/2031	0.00
JPY/USD 08/18/2021 RBSF	0.00
2.2225 R ISWP FWD US0003M P 06/05/2029	0.00
FRONTKEN CORP BHD-CW26 SEDOL BNBW845	0.00
SWPTN 10YX20Y R 2.8175 USD 03/23/2027 GS	0.00
GNR 2013-102 IP IO 03.5000 06/20/2043	0.00
1.275 R ISWP FWD US0003M P 03/07/2050	0.00
GNR 2012-141 WI IO 03.5000 11/20/2041	0.00
1.3659 R ISWP US0003M P 02/22/2031	0.00
FHR 4097 PI IO 03.5000 11/15/2040	0.00
GNR 2011-116 IB IO 05.0000 10/20/2040	0.00
SWPTN 2YX30Y P 2.3075 USD 06/20/2022 BA	0.00
CHF/USD 09/15/2021 HSBCB	0.00
MLCFC 2006-4 XC IO P/P 144A01.3910 12/12/2049	0.00
HKD/USD 08/18/2021 UBS	0.00
GLOW ENERGY PCL - FOREIGN SEDOL B074GX9	0.00

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HKD/USD 08/18/2021 BANKAM	-0.00
HKD/USD 08/18/2021 HSBCB	-0.00
HKD/USD 08/18/2021 MSCIL	-0.00
HKD/USD 08/18/2021 TDBK	-0.00
1.4255 R ISWP US0003M P 02/24/2031	-0.00
AUD/USD 07/21/2021 CSI-FX	-0.00
2.3075 R ISWP FWD US0003M P 06/22/2052	-0.00
1.70 R ISWP FWD NOKOIB6M P 09/15/2031	-0.00
AUD/USD 07/21/2021 RBSF	-0.00
HKD/USD 08/18/2021 SSBT	-0.00
SWPTN 10YX20Y P 2.8175 USD 03/23/2027 GS	-0.00
1.51882 R ISWP US0003M P 03/02/2031	-0.00
CAD/USD 07/21/2021 WPAC	-0.00
0.94375 R ISWP FWD US0003M P 04/01/2026	-0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 BA	-0.00
SWPTN 10YX20Y R 1.275 USD 03/05/2030 BA	-0.00
1.16 R ISWP US0003M P 10/16/2050	-0.00
2.184 R ISWP FWD US0003M P 12/07/2030	-0.00
SEK/USD 09/15/2021 TDBK	-0.00
CAD/USD 07/21/2021 RBSF	-0.00
SEK/USD 09/15/2021 BANKAM	-0.00
NOK/USD 09/15/2021 UBS	-0.00
CMB CMBX.NA.A.6 2063-05-11 200.0 05/11/2063 GS	-0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 BA	-0.00
CMB CMBX.NA.A.6 2063-05-11 200.0 05/11/2063 GS	-0.00
SEK/USD 09/15/2021 JPMCB	-0.00
JPY/USD 08/18/2021 HSBCB	-0.00
GBP/USD 09/15/2021 HSBCB	-0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.00
GBP/USD 09/15/2021 BANKAM	-0.00
1.27 R ISWP FWD US0003M P 01/27/2047	-0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 BA	-0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 BA	-0.00
1.83 R ISWP FWD NFIX3MID P 09/15/2031	-0.00
NOK/USD 09/15/2021 SSBT	-0.00
AUD/USD 07/21/2021 TDBK	-0.00
GBP/USD 09/15/2021 CITI	-0.00
SWPTN 5YX30Y P 2.8325 USD 02/15/2022 JP	-0.00
GBP/USD CALL 1.4198 20210823 MSCIL	-0.00
SEK/USD 09/15/2021 SSBT	-0.01
SWPTN 2YX30Y R 2.3075 USD 06/20/2022 BA	-0.01
NZD/USD 07/21/2021 HSBCB	-0.01
1.84 R ISWP FWD CDOR03 P 09/15/2031	-0.01
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.01

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EUR/USD 09/15/2021 RBSF	-0.01
CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 GS	-0.01
SEK/USD 09/15/2021 RBSF	-0.01
IOS.FN30.350.12 P USL1M R 01/12/43 BC	-0.01
-0.16 R ISWP FWD CHL6M P 06/16/2031	-0.01
GBP/USD 09/15/2021 BCAP-FX	-0.01
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.01
JPY/USD 08/18/2021 BCAP-FX	-0.01
CMB CMBX.NA.A.6 2063-05-11 200.0 05/11/2063 GS	-0.01
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.01
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.01
IOS.FN30.400.10 P USL1M R 01/12/41 CS	-0.01
CPURNSA P 2.79 R 04/15/26	-0.01
IOS.FN30.400.14 P USL1M R 01/12/45 JP	-0.01
IOS.FN30.300.13 P USL1M R 01/12/44 GS	-0.01
AUD/USD 07/21/2021 CITI	-0.01
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.01
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 BC	-0.01
NZD/USD 07/21/2021 RBSF	-0.01
1.55 R ISWP FWD AUDBB6M P 09/15/2031	-0.01
IOS.FN30.350.12 P USL1M R 01/12/43 GS	-0.01
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.01
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.01
AUD/USD 07/21/2021 JPMCB	-0.01
CMB CMBX.NA.A.6 2063-05-11 200.0 05/11/2063 CS	-0.01
NOK/USD 09/15/2021 MSCIL	-0.01
EUR/USD CALL 1.2114 20210823 GSF	-0.01
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.01
GBP/USD 09/15/2021 RBSF	-0.01
CAD/USD 07/21/2021 JPMCB	-0.01
SEK/USD 09/15/2021 BCAP-FX	-0.01
SEK/USD 09/15/2021 UBS	-0.01
CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 GS	-0.01
CMB CMBX.NA.BB.7 2047-01-17 500.0 01/17/2047 CG	-0.01
AUD/USD 07/21/2021 HSBCB	-0.01
CAD/USD 07/21/2021 BCAP-FX	-0.01
CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 GS	-0.02
EBIX US P R 07/05/22 CI	-0.02
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.02
JPY/USD 08/18/2021 TDBK	-0.02
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.02
0.30 R ISWP FWD US0003M P 09/15/2023	-0.02
GBP/USD 09/15/2021 JPMCB	-0.02
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.02
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.02

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CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 BC	-0.02
AUD/USD 07/21/2021 BCAP-FX	-0.02
IOS.FN30.400.14 P US0001M R 01/12/45 JP	-0.02
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.02
GBP/USD 09/15/2021 SSBT	-0.02
0.975 R ISWP FWD SONIA P 09/15/2031	-0.02
215600 KS P US0001M R 12/15/25 GS	-0.02
EUR/USD 09/15/2021 HSBCB	-0.02
AUD/USD 07/21/2021 GSFY	-0.02
CMB CMBX.NA.A.6 2063-05-11 200.0 05/11/2063 GS	-0.02
1.45 R ISWP FWD SOFRRATE P 09/15/2031	-0.02
EUR/USD 09/15/2021 GSFY	-0.02
JPY/USD 08/18/2021 MSCIL	-0.02
NOK/USD 09/15/2021 GSFY	-0.02
EUR/USD 09/15/2021 MSCIL	-0.02
AUD/USD 07/21/2021 SSBT	-0.03
ZYXI US P US0001M R 07/05/22 CI	-0.03
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.03
NOK/USD 09/15/2021 JPMCB	-0.03
CMB CMBX.NA.BB.6 2063-05-11 500.0 05/11/2063 CG	-0.03
NOK/USD 09/15/2021 TDBK	-0.03
AUD/USD 07/21/2021 UBS	-0.04
CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 CS	-0.04
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.04
WDFC US P US0001M R 07/05/22 CI	-0.04
BGS US P R 07/05/22 CI	-0.04
EUR/USD 09/15/2021 BANKAM	-0.05
JPY/USD 08/18/2021 UBS	-0.05
EUR/USD 09/15/2021 UBS	-0.05
TPIC US P US0001M R 07/05/22 CI	-0.05
PLUG US P US0001M R 07/05/22 CI	-0.05
EUR/USD 09/15/2021 SSBT	-0.05
PDCO US P R 07/05/22 CI	-0.05
SEK/USD 09/15/2021 GSFY	-0.05
SEK/USD 09/15/2021 MSCIL	-0.05
GBP/USD 09/15/2021 MSCIL	-0.06
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.06
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 MS	-0.07
ACIW US P R 07/05/22 CI	-0.07
1.57 R ISWP US0003M P 04/20/2031	-0.07
CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 CS	-0.08
GBP/USD 09/15/2021 GSFY	-0.09
PSN US P US0001M R 07/05/22 CI	-0.11
PBH US P US0001M R 07/05/22 CI	-0.11
DY US P R 07/05/22 CI	-0.11

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AIR US P US0001M R 07/05/22 CI	-0.11
PING US P US0001M R 07/05/22 CI	-0.12
LUMN US P US0001M R 07/05/22 CI	-0.12
OTEX US P US0001M R 12/15/25 GS	-0.12
EVBG US P US0001M R 07/05/22 CI	-0.12
COLM US P US0001M R 07/05/22 CI	-0.12
BB US P US0001M R 07/05/22 CI	-0.14
FCNCA US P US0001M R 07/05/22 CI	-0.14
ACA US P US0001M R 07/05/22 CI	-0.15
STOR US P US0001M R 07/05/22 CI	-0.15
RH US P US0001M R 07/05/22 CI	-0.19
NDUEEGF P US0001M R 11/02/21 CS	-0.19
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 ML	-0.21
HSY US P US0001M R 07/05/22 CI	-0.22
ITRI US P US0001M R 07/05/22 CI	-0.28
ELAN US P US0001M R 07/05/22 CI	-0.29
WWD US P R 07/05/22 CI	-0.29
FICO US P US0001M R 07/05/22 CI	-0.31
LHX US P US0001M R 07/05/22 CI	-0.33
PEN US P US0001M R 07/05/22 CI	-0.34
TSLA US P R 07/05/22 CI	-0.36
RL US P US0001M R 07/05/22 CI	-0.40
BHC US P R 07/05/22 CI	-0.42
ISRG US P US0001M R 07/05/22 CI	-0.43
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 CG	-0.44
CTXS US P US0001M R 07/05/22 CI	-0.52
NDUEEGF P US0001M R 11/02/21 UB	-0.53
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	-0.84
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 CS	-0.88
FNMA FN30 TBA UMBS 02.0000 07/01/2051	-4.26
NDUEEGF P US0001M R 11/02/21 UB	-7.05
NDUEEGF P US0001M R 11/02/21 CS	-7.05
S&P500 EMINI FUT SEP21 ESU1	-9.05
US 5YR NOTE (CBT) SEP21 FVU1	-17.71
US 2YR NOTE (CBT) SEP21 TUU1	-18.60
GSGLPWDS P US0001M R 12/15/25 GS	-18.78
RU10INTR P US0003M R 06/20/23 BA	-22.74
SPTR P US0001M R 05/22/23 UB	-36.38