



Reconstitution

Russell 3000® Index - Deletions

Company	Symbol	Industry
1STDIBS.COM	DIBS	Technology
374WATER INC	SCWO	Industrials
A K A BRANDS HOLDING	AKA	Consumer Discretionary
ACHIEVE LIFE SCIENCES	ACHV	Health Care
ACRIVON THERAPEUTICS INC	ACRV	Health Care
ACTINIUM PHARMACEUTICALS	ATNM	Health Care
ACUMEN PHARMACEUTICALS	ABOS	Health Care
ADVERUM BIOTECH INC	ADVM	Health Care
AEMETIS	AMTX	Energy
AGENUS INC	AGEN	Health Care
AKOYA BIOSCIENCES	AKYA	Health Care
ALTO NEUROSCIENCE	ANRO	Health Care
ALX ONCOLOGY HOLDINGS	ALXO	Health Care
AMPLIFY ENERGY CORP	AMPY	Energy
APPLIED THERAPEUTICS INC	APLT	Health Care
ARTIVA BIOTHERAPEUTICS	ARTV	Health Care
ATOSSA THERAPEUTICS INC	ATOS	Health Care
B RILEY SECURIT	RILY	Financials
BIOMEA FUSION	BMEA	Health Care
BLACK DIAMOND THERAPEUTI	BDTX	Health Care
BLINK CHARGING CO	BLNK	Consumer Discretionary
BOUNDLESS BIO	BOLD	Health Care
BRIDGER AEROSPACE GROUP	BAER	Industrials
C4 THERAPEUTICS	CCCC	Health Care
CABALETTA BIO	CABA	Health Care
CAESARSTONE LTD	CSTE	Industrials
CAMP4 THERAPEUTICS CORP	CAMP	Health Care
CARDLYTICS INC	CDLX	Consumer Discretionary
CARIBOU BIOSCIENCES	CRBU	Health Care
CASSAVA SCIENCES INC	SAVA	Health Care
CENTURY THERAPEUTICS	IPSC	Health Care
CERVOMED INC	CRVO	Health Care
CHARGEPOINT HOLDINGS (A)	CHPT	Energy
CHEGG INC	CHGG	Consumer Discretionary
CIBUS	CBUS	Consumer Staples
CLEAR CHANNEL OUTDOOR	CCO	Consumer Discretionary
CLIMB BIO INC	CLYM	Health Care
COMMERCIAL VEH GROUP INC	CVGI	Industrials
CONDUIT PHARMACEUTICALS	CDT	Health Care
CONTINEUM THERAPEUTICS	CTNM	Health Care
CORBUS PHARMACEUTICALS	CRBP	Health Care
DESTINATION XL GRP INC	DXLG	Consumer Discretionary
DLH HOLDINGS CORP	DLHC	Technology
DRILLING TOOLS INTERNATI	DTI	Energy
ELEVATION ONCOLOGY	ELEV	Health Care
ENERGY VAULT HLDGS (A)	NRGV	Energy
EVERSPIN TECHNOLOGIES	MRAM	Technology
FIBROBIOLOGICS	FBLG	Health Care
FISCAL NOTE HOLDINGS (A)	NOTE	Technology



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FRACTYL HEALTH	GUTS	Health Care
FUELCELL ENERGY INC	FCEL	Energy
FULL HOUSE RESORTS INC	FLL	Consumer Discretionary
GALECTIN THERAPEUTICS	GALT	Health Care
GCT SEMICONDUCTOR HOLDIN	GCTS	Technology
GENERATION BIO	GBIO	Health Care
GEOSPACE TECHNOLOGIES	GEOS	Energy
GOPRO INC	GPRO	Consumer Discretionary
GRAFTECH INTERNATIONAL	EAF	Basic Materials
GRANITE POINT MORTGAGE	GPMT	Financials
GROWGENERATION	GRWG	Consumer Staples
HARVARD BIOSCIENCE INC	HBIO	Health Care
HILLEVAX	HLVX	Health Care
HOOKE FURNISHINGS CORP	HOFT	Consumer Discretionary
I-80 GOLD CORP (NYSE AME	IAUX	Basic Materials
IGM BIOSCIENCES	IGMS	Health Care
INFUSYSTEM HLDGS INC	INFU	Health Care
INMODE	INMD	Health Care
INOVIO PHARMACEUTICALS	INO	Health Care
INOZYME PHARMA	INZY	Health Care
INVIVYD INC	IVVD	Health Care
IROBOT CORP	IRBT	Consumer Discretionary
JASPER THERAPEUTICS (A)	JSPR	Health Care
KINIKSA PHARMACEUTIC (A)	KNSA	Health Care
KYVERNA THERAPEUTICS	KYTX	Health Care
LANZATECH GLOBAL	LNZA	Basic Materials
LESLIES	LESL	Consumer Discretionary
LEXICON PHARMACEUTICALS	LXRK	Health Care
LIFETIME BRANDS INC	LCUT	Consumer Discretionary
LIGHTWAVE LOGIC INC	LWLG	Telecommunications
LINEAGE CELL THERAPEUTIC	LCTX	Health Care
LIVEONE INC	LVO	Consumer Discretionary
LYELL IMMUNOPHARMA	LYEL	Health Care
LYRA THERAPEUTICS	LYRA	Health Care
MACROGENICS INC	MGNX	Health Care
MERSANA THERAPEUTICS	MRSN	Health Care
METAGENOMI	MGX	Health Care
MODIVCARE INC	MODV	Health Care
NAUTILUS BIOTECH INC	NAUT	Health Care
NEKTAR THERAPEUTICS	NKTR	Health Care
NEUMORA THERAPEUTICS INC	NMRA	Health Care
NN INC	NNBR	Basic Materials
NORTHERN TECH INTL CORP	NTIC	Basic Materials
OCUGEN INC	OCGN	Health Care
OFFERPAD SOLUTIONS (A)	OPAD	Real Estate
ONE GROUP HOSPITALITY	STKS	Consumer Discretionary
OPENDOOR TECHNOLOGIE (A)	OPEN	Real Estate
ORCHESTRA BIOMED HOLDING	OBIO	Health Care
ORION PROPERTIES INC	ONL	Real Estate



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OUTLOOK THERAPEUTICS INC	OTLK	Health Care
OVID THERAPEUTICS INC	OVID	Health Care
PEPGEN INC	PEPG	Health Care
PLIANT THERAPEUTICS	PLRX	Health Care
PRELUDE THERAPEUTICS	PRLD	Health Care
PROKIDNEY CORP (A)	PROK	Health Care
PURPLE INNOVATION INC	PRPL	Consumer Discretionary
PYXIS ONCOLOGY	PYXS	Health Care
Q32 BIO	QTTB	Health Care
QUEST RESOURCE HOLDING	QRHC	Utilities
QUICKLOGIC CORP	QUIK	Technology
QUIPT HOME MEDICAL CORP	QUIPT	Health Care
RAMACO CLASS B DISTRO	METCB_x	Energy
RAMACO RESOURCES CLASS B	METCB	Energy
RAPT THERAPEUTICS	RAPT	Health Care
REKOR SYSTEMS INC	REKR	Technology
RENOVARO INC	RENB	Health Care
RING ENERGY INC	REI	Energy
ROADZEN	RDZN	Financials
RUMBLEON INC	RMBL	Consumer Discretionary
SERA PROGNOSTICS	SERA	Health Care
SES AI CORPORATION	SES	Consumer Discretionary
SHATTUCK LABS	STTK	Health Care
SKYE BIOSCIENCE	SKYE	Health Care
SMARTRENT INC	SMRT	Technology
SOLARMAX TECHNOLOGY	SMXT	Energy
SOLIDION TECHNOLOGY	STI	Industrials
STAR HOLDINGS	STHO	Real Estate
STEM INC (A)	STEM	Energy
STONERIDGE INC	SRI	Consumer Discretionary
SUNNOVA ENERGY INTL INC	NOVA	Energy
SUTRO BIOPHARMA	STRO	Health Care
SYSTEM1 INC (A)	SST	Technology
TAYLOR DEVICES INC	TAYD	Industrials
TELOMIR PHARMACEUTICALS	TELO	Health Care
TENAYA THERAPEUTICS	TNYA	Health Care
TILLYS INC	TLYS	Consumer Discretionary
TOWNSQUARE MEDIA INC	TSQ	Consumer Discretionary
TPI COMPOSITES INC	TPIC	Energy
TSCAN THERAPEUTICS	TCRX	Health Care
TWIN DISC INC	TWIN	Industrials
ULTRALIFE CORPORATION	ULBI	Industrials
UNITED HOMES GROUP INC	UHG	Consumer Discretionary
UR ENERGY	URG	Basic Materials
VENTYX BIOSCIENCES	VTYX	Health Care
VERA BRADLEY INC	VRA	Consumer Discretionary
VERRICA PHARMACEUTICALS	VRCA	Health Care
VERU INC	VERU	Consumer Staples
VIRGIN GALACTIC HLDG (A)	SPCE	Industrials



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VIRTRA INC	VTSI	Industrials
WEREWOLF THERAPEUTICS	HOWL	Health Care
WHEELS UP EXP INC	UP	Consumer Discretionary
X4 PHARMACEUTICALS INC	XFOR	Health Care
XBIOTECH INC	XBIT	Health Care
ZENTALIS PHARMACEUTICALS	ZNTL	Health Care
ZURA BIO LTD	ZURA	Health Care
ZYNEX	ZYXI	Health Care



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