Genome Editing Kits

Company/Distributor	Name of Product	Applications	Miscellaneous, Specialities, Generally	Price [EUR]
Advanced Analytical Technologies Heidelberg, Germany www.aati-us.com **Contact:** Danilo Tait, Phone +49 6221 8680 5810 kontakt@aati-us.com	CRISPR Discovery Gel Kit	Detection of indels and point mutations	To be used with the Fragment Analyzer	544.– (1,000 samples)
Agilent Technologies Waldbronn, Germany www.genomics.agilent.com **Contact:** Phone +49 800 603 1000 CustomerCare_Germany@agilent.com	Sure Guide CRISPR/Cas Complete Kit	*In vitro* cloning of large DNA fragments	Cas9 endonuclease-based | More selectivity and flexibility than restriction enzymes | Integrates with free-to-use, web-based Guide RNA design tool for *in vitro* cloning applications	495.– (40 rxns)
	Sure Guide Cas9 Programmable Nuclease Kit	*In vitro* cloning of large DNA fragments	Cas9 endonuclease-based | More selectivity and flexibility than restriction enzymes | Integrates with free-to-use, web-based Guide RNA design tool for *in vitro* cloning applications	175.– (20 rxns)
	Sure Guide Cas9 Programmable Nuclease	*In vitro* cloning of large DNA fragments	Cas9 endonuclease-based | More selectivity and flexibility than restriction enzymes | Integrates with free-to-use, web-based Guide RNA design tool for *in vitro* cloning applications	236.– (100 rxns)
	Sure Guide gRNA Synthesis Kit	*In vitro* cloning of large DNA fragments	Pure gRNAs in under 2 hours | Optimised for Sure Guide Cas 9	314.– (50 rxns)
Amsbio www.amsbio.com **Contact:** Phone +44 1235 828 200 info@amsbio.com	pCas-Guide Cloning Kit	All-in-One CRISPR/Cas9 vectors for genome editing	Express Cas9 and gRNA	395.–
	AAVS1 Transgene knockin vector kit	Vector kit for targeted transgene insertion into AAVS1 locus	Targeted transgene insertion | No random genetic insertion	850.–
	Human gene knockout kit via CRISPR (gene specific)	Complete kit for gene knockout via CRISPR	Two gRNA vectors and guide vector | GFP-puromycin selection | Targeted sites around the 5' end of the ORF	1,200.–
BioCat Heidelberg www.biocat.com **Contact:** Elke Gamer Phone +49 6221 7141516 gamer@biocat.com	SBI CRISPR/Cas9 SmartNuclease System	Modification of any genomic sequence with high levels of efficacy and specificity	Cas9 SmartNuclease all-in-one plasmids, wild-type and mutant CRISPR/Cas9 plasmids | Transfection- and injection-ready Cas9 mRNA and gRNA synthesis kit, ready-to-use synthetic Cas9 mRNA for *in vivo* applications | Cas9 lentiviral vectors and pre-made virus – transduce primary cells and make stable Cas9 editing cell lines | Compatible HR donor vector collection | Multiplex gRNA cloning kit to clone multiple gRNAs into a single Cas9/gRNA vector	Depending on kit
	Cellecta Single Vector CRISPR-Cas9 System	Stable expression of Cas9 and gRNA using lentiviral all-in-one-vector for genome editing	Co-transduction not necessary since gRNA and Cas9 nuclease are expressed in one vector | Lentiviral vectors integrate into the host cell genome and are passed onto daughter cells | Vector contains antibiotic selection to ensure stability | Two-vector system also available | New: Functional CAS9 activity kit	Depending on kit
	Cellecta Human Genome-wide Pooled Lentiviral gRNA Library	Simultaneous analysis of many thousands of effector constructs in one experiment (e.g. loss-of-function screening)	3 modules, together targeting nearly all protein coding genes | Each gene is targeted by up to 8 gRNAs for a total of up to 55,000 gRNA per module | Modules can be combined for a single genome-wide screen | Red fluorescence marker for sorting of transduced cells and Puro selection marker	Depending on library module
	transEDIT Ready-to-go CRISPR/Cas9 Kits	Lentiviral CRISPR/Cas9 vector system for genome editing in primary and non-dividing cells	Optimised guide RNAs targeting > 67,000 genes covering the human, mouse and rat genomes | 3 gRNA constructs per target plus non-targeting control, cleavage sites within the 5' region of the ORF | Single or paired gRNA CRISPR strategies for gene editing | All-in-one or single gRNA delivery, including inducible Cas9 | Multiple vectors to enable dual or triple selection for enhanced efficiency	Depending on kit
	OriGene Gene-specific CRISPR/Cas9 Knockout Kits	Knockout of the endogenous gene at chromosomal level | Knockin of GFP reporter downstream of the endogenous promoter	Genome-wide coverage, > 39,000 human and mouse genes | Cleavage sites within the 5' region of the ORF | Complete kit for gene knockout or promoter studies in an authentic chromosomal setting via CRISPR (targeted sites around the 5' end of the ORF) | 2 guide RNA vectors in pCas-Guide to ensure an efficient cleavage, donor vector with predesigned homologous arms | Knockin GFP-Puro for selection | pCas-Guide-scramble is also provided as a negative control	Depending on kit
GE Healthcare Dharmacon http://dharmacon.gelifesciences.com **Contact:** Daniela Hüber Daniela.Hueber@ge.com Andreas Meyer Andreas.Meyer@ge.com ts.dharmacon.eu@ge.com	Edit-R predesigned crRNA	Gene editing	Maximum functionality and specificity | Predesigned crRNAs for human, mouse and rat | Algorithm's alignment tool identifies mismatches AND gaps to optimise selection of highly specific target sequences | Developed on functional gene knockout rather than measurement of DSB in the genomic target DNA	175.– (5 nmol) 225.– (10 nmol) 295.– (20 nmol)
	Edit-R tracrRNA	Gene editing	HPLC-purified RNA molecule based on the published *S. pyogenes* tracrRNA sequence | tracrRNA has been tested for efficient editing in multiple mammalian cell types and is required for use with synthetic Edit-R crRNA	200.– (5 nmol) 515.– (20 nmol)
	Edit-R Synthetic Positive crRNA Controls and Detection Primers	Gene editing	Species-specific crRNAs targeting well-characterised genes, plus mismatch detection assay primers, to determine the effectiveness of your gene editing conditions for maximal efficiency	106.– (5 nmol)

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GE Healthcare Dharmacon (continued) **Contact:** see page 50	Edit-R Synthetic crRNA Non-targeting Controls	Gene editing	Non-targeting controls to evaluate cellular responses to CRISPR-Cas9 components in the absence of gene target-specific crRNA	125.– (5 nmol)
	Edit-R crRNA Libraries	Gene editing	Arrayed collections of popular human and mouse gene families for knockout screening	Varies by library size, please enquire
	Edit-R crRNA Cherry-pick libraries	Gene editing	Customize and order plates of predesigned crRNA for knockout studies for your targets of interest | Easy order process using our Cherry-pick Library Plater tool	Use free Cherry-pick library Plater to determine price online
	Edit-R predesigned Lentiviral sgRNA	Gene editing	High-quality, concentrated, purified lentiviral particles for direct transduction with minimal cytotoxicity | Pre-designed sgRNA designed using the Edit-R CRISPR RNA algorithm for unparalleled specificity and functionality	750.– (100 µl, 10^7 TU/ml) 1,895.– (Set of 3, 100 µl each)
	Edit-R Lentiviral sgRNA Positive Controls	Gene editing	Species-specific sgRNAs targeting well-characterised genes to determine the effectiveness of your gene editing conditions for maximal efficiency	350.– (Unit size 2 x 25 µl viral particles)
	Edit-R Lentiviral sgRNA Non-targeting Controls	Gene editing	Non-targeting controls to evaluate cellular responses to CRISPR-Cas9 components in the absence of gene target-specific sgRNA	350.– (Unit size 2 x 25 µl viral particles)
	Edit-R Pooled Lentiviral sgRNA Libraries	Gene editing	Pools of algorithm-designed lentiviral, sgRNA targeting hundreds or thousands of genes, supplied as concentrated lentiviral particles (minimum titer of ≥ 5 x 10^8 TU/ml) for direct transduction in biologically relevant cells | Deep and broad coverage of 5 to 10 sgRNAs per gene in human, mouse and rat genomes for increased hit confidence and comprehensive genome screening	Varies by library size, please enquire
	Edit-R Cas9 Nuclease mRNA	Gene editing	Purified Cas9 mRNA for transient Cas9 nuclease expression | Enables DNA-free solutions	400.– (20 µg)
	Edit-R Cas9 Nuclease protein NLS	Gene editing	Purified Cas9 protein ready to use for DNA-free nuclease expression	800.– (500 pmol) 1,400.– (1,000 pmol)
	Edit-R Cas9 Nuclease Plasmids	Gene editing	Cas9 nuclease expression plasmids encode a human codon-optimised version of the *S. pyogenes* Cas9 | Available with your choice of 6 promoters and either a fluorescent reporter or antibiotic resistance	195.– (120 µg)
	Edit-R Lentiviral Cas9 Nucleases	Gene editing	Provided as concentrated, purified lentiviral particles for immediate transduction; 50 (2 x 25) µl, within 10% of minimum ≥ 1 × 10^7 TU/ml functional titer | Customise your construct with one of six SMARTchoice promoters to ensure optimal Cas9 expression in your cell line of interest	600.– (50 µl, 10^7 TU/ml)
Takara Bio Europe/ Clontech Saint-Germain-en-Laye, France www.clontech.com **Contact:** Cornelia Hampe Phone +33 1 39 04 68 80 cornelia.hampe@ takara-clontech.eu	Guide-it Complete sgRNA Screening System	Transcribe and screen sgRNAs *in vitro* to assess sgRNA efficacy	Complete system for sgRNA production and *in vitro* screening | No cloning steps required – sgRNA scaffold provided in the kit | sgRNA screening allows to eliminate inefficient sgRNAs | Clone and deliver only the best sgRNAs	680.–
	Guide-it sgRNA *In Vitro* Transcription Kit	Production of sgRNAs using IVT	*In vitro* transcription of sgRNAs using T7 RNA polymerase | sgRNAs can be used for *in vitro* efficacy testing and delivery into cells | No cloning steps required – sgRNA scaffold provided in the kit	381.– (10 rxns)
	Guide-it sgRNA Screening Kit	*In vitro* screening of sgRNAs	Contains PCR reagents to amplify target region and recombinant Cas9 | *In vitro* sgRNA screening allows to eliminate inefficient sgRNAs	426.– (30 rxns)
	Xfect RNA Transfection Reagent	Deliver Cas9 mRNA and sgRNAs to cells	Suitable for transfection of small RNAs (sgRNA, siRNA, miRNA) as well as mRNA | Biodegradable polymer | Very low cytotoxicity	258.– (1.2 ml)
	Guide-it CRISPR/Cas9 Systems (Green or Red)	Deliver Cas9 and target-specific sgRNA to cells	Convenient all-in-one vectors to deliver Cas9/sgRNA via plasmid transfection | Co-expression of bright fluorescent protein	382.–
	AAVpro CRISPR/Cas9 Helper Free System (AAV2)	Deliver SpCas and target-specific sgRNA to cells/ *in vivo*	AAV allows non-integrating delivery of Cas9 | Helper virus-free viral packaging increases safety | Serotype AAV2 | Due to large size, the SpCas9 gene is split between two vectors, recombination event in target cells will produce full-length SpCas9 | AAV extraction solution included	1,026.–
	AAVpro CRISPR/Cas9 Vector System	Deliver SpCas and target-specific sgRNA into cells/ *in vivo*	Same as above, but does not contain AAV packaging vectors/extraction solution	578.–
	AAVpro CRISPR/ SaCas9 Helper Free System (AAV2)	Deliver SaCas and target-specific sgRNA to cells/ *in vivo*	AAV allows non-integrating delivery of Cas9 | Helper virus-free viral packaging increases safety | Serotype AAV2 | Convenient all-in-one vector format to deliver Cas9 from *Staphylococcus aureus* (SaCas9) together with target-specific sgRNA	1,026.–
	AAVpro CRISPR/ SaCas9 Vector System	Deliver SaCas and target-specific sgRNA to cells/ *in vivo*	Same as above, but does not contain AAV packaging vectors/extraction solution	578.–
	Guide-it CRISPR/Cas9 Gesicle Production System	Deliver Cas protein and target-specific sgRNA to cells	Gesicles contain active Cas9 protein complexed with target-specific sgRNA | Use with gesicle producer 293T cell line to prepare your own gesicles | Tropism similar to VSV-G pseudotyped lentivirus (broad mammalian) | Lower off-target effects compared to plasmid delivery	840.–

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Takara Bio Europe/ Clontech (continued) **Contact:** see page 51	Gesicle Producer 293T Cell Line	Deliver Cas protein and target-specific sgRNA to cells	HEK 293T-based cell line for efficient gesicle production	355.–
	pGuide-it-sgRNA1 Vector System	Clone target-specific sgRNAs for gesicle production	Refill kit | sgRNA cloning vector and ligation reagents to clone additional sgRNAs | Vector contains improved sgRNA scaffold	395.– (10 rxns)
	Guide-it CRISPR/Cas9 Gesicle Packaging Set	Deliver Cas protein and target-specific sgRNA to cells	Refill kit | For additional gesicle packaging reactions, kit does not contain sgRNA cloning vector/ligation reagents	720.– (10 rxns)
	Guide-it Cas9 Polyclonal Antibody	Confirm Cas9 expression in target cells	Suitable for western blotting and immunocytochemistry | Detects wt Cas9 and commonly used variants	241.– (100 µl) 587.– (3 x 100 µl)
	Guide-it Mutation Detection Kit	Determine mutation frequency in cell population	Robust mismatch detection method | Better specificity and higher sensitivity compared to Cel1 enzyme | Terra PCR Direct polymerase is used to amplify target site directly from crude cell lysates, without need to purify genomic DNA	220.– (25 rxns) 498.– (100 rxns)
	Guide-it Genotype Confirmation Kit	Determine genotype of single clones downstream of gene-editing	Identification of monoallelic and biallelic indels downstream of gene editing | *In vitro* cleavage assay | Terra PCR Direct polymerase is used to amplify target site directly from crude cell lysates, without need to purify genomic DNA	486.– (100 rxns)
	Guide-it Indel Identification Kit	Characterise CRISPR/Cas9-introduced mutations using DNA sequencing	Amplify, clone, and prepare modified target sites for DNA sequence analysis | Terra PCR Direct polymerase is used to amplify target site directly from crude cell lysates, without need to purify genomic DNA | In-Fusion technology for highly efficient cloning into provided pUC19 vector	406.– (10 rxns)
Thermo Fisher Scientific Carlsbad, CA www.thermofisher.com **Contact:** Ross Whittaker Phone +1 760 476 7131 Mobile +1 619 865 5240 ross.whittaker@ thermofisher.com	GeneArt Engineered Cell Models	Genome editing	New workhorse for rapid hypothesis testing	From 890.–
	GeneArt Platinum Cas9 Nuclease	Genome editing	>85% cleavage efficiencies	415.–
	GeneArt Precision gRNA Synthesis Kit	Genome editing	Rapid synthesis of guide RNA (gRNA)	445.–
	GeneArt Genomic Cleavage Detection Kit	Genome editing	Simple, reliable, and rapid method to detect the locus-specific double-strand break formation	179.–
	Lipofectamine CRISPRMAX Cas9 Transfection Reagent	Genome editing	Optimised lipid nanoparticle transfection reagent for CRISPR-Cas9 protein delivery	From 62.36
VWR International Erlangen, Germany https://de.vwr.com **Contact:** Fiona Rodriguez Phone +49 9131 61070 20 info.peqlab@de.vwr.com	Genome-Wide knockout kit using CRISPR (KN2xxxG1, KN2xxxG2)	Genome-wide human and mouse gene editing | Knock-out genes at chromosomal level, knockin GFP reporter for promoter study	Using pCas-Guide system, a dual-function vector with both gRNA (target sequence) (controlled by U6 promoter) and Cas9 expression (a CMV-driven promoter), C-terminal Myc-DDK-tagged | Provided in kit: 2 gRNA vectors, one vial of donor vector, containing left and right homologous arms, GFP-puro functional cassette, negative scramble gRNA control | GFP expression regulated by the native promoter after genomic integration	See website
	pCas-Guide precut cloning Kit	Linearised Cas-Guide vector ready for insert ligation of annealed oligo DNA fragments as gRNA target sequence	One vial of precut pCas-Guide plasmid DNA, CF3 sequencing primer to sequence the targeting sequence and annealing buffer | 1 µl of ligation reactions generates 100 colonies | Self-ligation lower than 5% transformants	See website
	pCas-Guide plasmid	Cas-Guide vector ready for genomic target sequence cloning via restriction sites	Cloning of gRNA via BamH I and BsmB I sites | Provided with CF3 sequencing primer to sequence the targeting sequence	See website
	pCas-Guide-EF1a-GFP plasmid	Cas-Guide vector ready for genomic target sequence cloning via restriction sites | GFP as reporter for tracking or sorting trans-fected cells	Vector-expressed EF1 promoter-driven GFP | Cloning of gRNA via BamH I and BsmB I sites | Provided with CF3 sequencing primer to sequence the targeting sequence	See website
	pLenti-Cas-Guide plasmid	Lentiviral Cas-Guide vector for hard-to-transfect cells and animal models	Cloning of gRNA via BamH I and BsmB I sites | Vector retains the chloramphenicol resistance gene for the selection of *E.coli* transformants | Provided with CF3 sequencing primer to sequence the targeting sequence	See website
	pT7-Guide-IVT and pT7-Cas9	Vectors for the production of gRNA and Cas9 mRNA via *in vitro* transcription via the T7 promoter | Used for microinjection or transfection in animals	Cloning of gRNA in pT7-Guide-IVT via BsmB I sites	See website
	AAVS1 Transgene knockin vector kit	Complete vector kit for safe-harbor insertion of exogeneous genes into human AAVS1 sites	Kit includes gRNA vector targeting human AAVS1 site, donor vector with AAVS1 homologous arms cloned (gene of interest needs to be cloned) | Genome-wide TrueORF collection clones available as source for transgenes | Easy shuttling from TrueORF clones into AAVS1 donor vector using the "Precision Shuttling system" from Origene	See website