



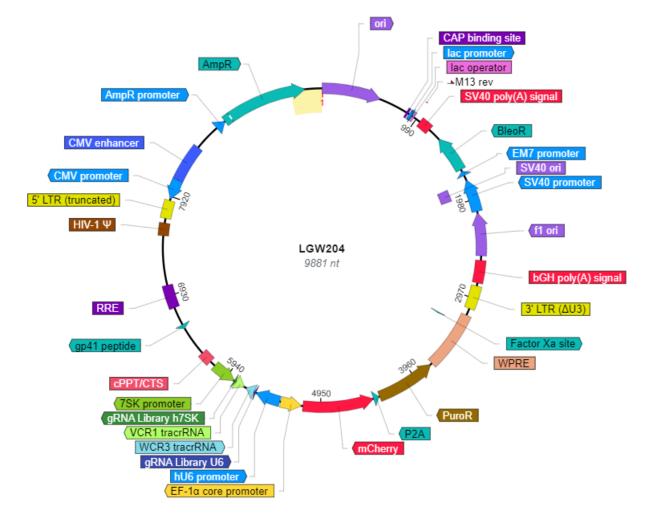
Product identifier	PRCISR™ CRISPR Alexandri mouse genome-wide CRISP	• • •
Product Number	LGW204	
Registration number (Reach)	N/A (product is not subject to reg dangerous under REACH)	istration and is not classified as
Description	Lentiviral CRISPRko dual-targetir gene per construct, 2 constructs p found in both orientations on the promoters).	per gene. The two tracrRNAs are
	This product is delivered as DNA pH 8.5.	suspended in 10 mM Tris-Cl,
	The CRISPR (Clustered Regularly Repeats) technology has revolution discovered as a bacterial defense adapted to function in mammalian a genome (2,3). The functional rib Cas nuclease and a single chimeric provides target-sequence specific packed into lentiviral transfer veh type and facilitate targeted genor and libraries are made based on p	onized biological research. Initially system (1), it rapidly became n cells to cut almost any region in oprotein complex consists of a c RNA molecule (sgRNA) that city. Both components can be nicles to transduce almost any cell me editing. 3Cs sgRNA reagents
Amount	120 µg	
Species	Mouse	
Target genes	22,314 genes 4 unique sgRNAs per gene, assembled into 2 unique pairs	
Size	44,756 sgRNA combinations	
Control combinations	Non-targeting (50) LacZ (10) Luciferase (10) eGFP (10) Safe harbor: AAVS1 (25) and Rosa26 (18) DNA-damaged induced apoptosis: SuperCutter (2)	
Vector	Backbone: tracrRNA vector : sgRNA promoter(s): Cas Protein: Fluorescence: Selection antibiotics:	pViv054 pViv049 hU6 and h7SK none mCherry puromycin



Product Information

Virus production	Before starting any lentiviral work, please ensure compliance with your Environmental Health and Safety office and government/organization. Vivlion libraries are compatible with 2nd or 3rd generation lentiviral packaging plasmids.
Storage	After receiving PRCISR™ CRISPR reagents, immediately store at -20°C. Avoid freeze/thaw cycles.

Plasmid Map



This plasmid map was generated with VectorBee.



Restricted use	 PRCISR™ CRISPR sgRNA reagents and libraries are for R&D use only and not intended for human or animal diagnostic or therapeutic use, or other uses. Although the lentiviral transduction particles produced are replication-incompetent, they should still be handled under Biosafety Level 2 (BSL-2) conditions in the laboratory. Follow all published BSL-2 guidelines for laboratory handling and waste decontamination. It is not permitted to amplify 3Cs-generated libraries. This product is subject to third-party licenses and is sold under limited license conditions. The client agrees to use the purchased products solely for their own research purposes and shall neither resell them nor otherwise transfer them to any third party. Vivlion grants a non-exclusive, nontransferable, non-sublicensable license to the third-party licenses underlying the product of Broad Institute Inc., 415 Main Street, Cambridge, MA 02142, USA and ERS Genomics Limited, 88 Harcourt Street, Dublin 2, Ireland, but cannot exclude that relevant third-party rights still exist.
Registration number (Reach)	N/A (product is not subject to registration and is not classified as dangerous under REACH)
Recycling	Vivlion offers to take back and recycle any packaging waste from products.

References

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- (3) Koike-Yusa H, Li Y, Tan EP, Velasco-Herrera Mdel C, Yusa K. Genome-wide recessive genetic screening in mammalian cells with a lentiviral CRISPR-guide RNA library. Nat Biotechnol 2014; 32(3): 267-73. doi: 10.1038/nbt.2800.
- (4) Wegner M, Diehl V, Bittl V, de Bruyn R, Wiechmann S, Matthess Y, Hebel M, Hayes MG, Schaubeck S, Benner C, Heinz S, Bremm A, Dikic I, Ernst A, Kaulich M. Circular synthesized CRISPR/Cas gRNAs for functional interrogations in the coding and noncoding genome. Elife 2019; 8:e42549. doi: 10.7554/eLife.42549.
- (5) Wegner M, Husnjak K, Kaulich M. Unbiased and Tailored CRISPR/Cas gRNA Libraries by SynthesizingCovalently-closed-circular (3Cs) DNA. Bio Protoc 2020; 10(1): e3472. doi: 10.21769/BioProtoc.3472

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