

SAFETY DATA SHEET



Human Exome CRISPR Lenti Library Early Access (Catalog kit), Part Number G7553P

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name	:	Human Exome CRISPR Lenti Library Early Access (Catalog kit), Part Number G7553P	
Part No. (Kit)	:	G7553P	
Part No.	:	pSGLenti CRISPR Library HuEx A	5190-9375
		pSGLenti CRISPR Library HuEx B	5190-9400
		pSGLenti CRISPR Control Plasmid	5190-9376

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	
Analytical reagent.	
pSGLenti CRISPR Library HuEx A	50 µg
pSGLenti CRISPR Library HuEx B	50 µg
pSGLenti CRISPR Control Plasmid	50 µg

1.3 Details of the supplier of the safety data sheet

Agilent Technologies Manufacturing GmbH & Co. KG
Hewlett-Packard-Str. 8
76337 Waldbronn
Germany
0800 603 1000

e-mail address of person responsible for this SDS : pdl-msds_author@agilent.com

1.4 Emergency telephone number

Emergency telephone number (with hours of operation) : CHEMTREC®: +(44)-870-8200418

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition	:	pSGLenti CRISPR Library HuEx A	Mixture
		pSGLenti CRISPR Library HuEx B	Mixture
		pSGLenti CRISPR Control Plasmid	Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Not classified.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Date of issue/Date of revision : 15/12/2017

SECTION 2: Hazards identification

Signal word	: pSGLenti CRISPR Library HuEx A	No signal word.
	pSGLenti CRISPR Library HuEx B	No signal word.
	pSGLenti CRISPR Control Plasmid	No signal word.
Hazard statements	: pSGLenti CRISPR Library HuEx A	No known significant effects or critical hazards.
	pSGLenti CRISPR Library HuEx B	No known significant effects or critical hazards.
	pSGLenti CRISPR Control Plasmid	No known significant effects or critical hazards.
<u>Precautionary statements</u>		
Prevention	: pSGLenti CRISPR Library HuEx A	Not applicable.
	pSGLenti CRISPR Library HuEx B	Not applicable.
	pSGLenti CRISPR Control Plasmid	Not applicable.
Response	: pSGLenti CRISPR Library HuEx A	Not applicable.
	pSGLenti CRISPR Library HuEx B	Not applicable.
	pSGLenti CRISPR Control Plasmid	Not applicable.
Storage	: pSGLenti CRISPR Library HuEx A	Not applicable.
	pSGLenti CRISPR Library HuEx B	Not applicable.
	pSGLenti CRISPR Control Plasmid	Not applicable.
Disposal	: pSGLenti CRISPR Library HuEx A	Not applicable.
	pSGLenti CRISPR Library HuEx B	Not applicable.
	pSGLenti CRISPR Control Plasmid	Not applicable.
Supplemental label elements	: pSGLenti CRISPR Library HuEx A	Not applicable.
	pSGLenti CRISPR Library HuEx B	Not applicable.
	pSGLenti CRISPR Control Plasmid	Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: pSGLenti CRISPR Library HuEx A	Not applicable.
	pSGLenti CRISPR Library HuEx B	Not applicable.
	pSGLenti CRISPR Control Plasmid	Not applicable.
<u>Special packaging requirements</u>		
Tactile warning of danger	: pSGLenti CRISPR Library HuEx A	Not applicable.
	pSGLenti CRISPR Library HuEx B	Not applicable.
	pSGLenti CRISPR Control Plasmid	Not applicable.

2.3 Other hazards

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SECTION 2: Hazards identification

Other hazards which do not result in classification	: pSGLenti CRISPR Library HuEx A	None known.
	pSGLenti CRISPR Library HuEx B	None known.
	pSGLenti CRISPR Control Plasmid	None known.

SECTION 3: Composition/information on ingredients

3.1 Substances	: pSGLenti CRISPR Library HuEx A	Mixture
	pSGLenti CRISPR Library HuEx B	Mixture
	pSGLenti CRISPR Control Plasmid	Mixture

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	: pSGLenti CRISPR Library HuEx A	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	pSGLenti CRISPR Library HuEx B	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	pSGLenti CRISPR Control Plasmid	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	: pSGLenti CRISPR Library HuEx A	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	pSGLenti CRISPR Library HuEx B	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	pSGLenti CRISPR Control Plasmid	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	: pSGLenti CRISPR Library HuEx A	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	pSGLenti CRISPR Library HuEx B	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	pSGLenti CRISPR Control Plasmid	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

SECTION 4: First aid measures

Ingestion	: pSGLenti CRISPR Library HuEx A	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	pSGLenti CRISPR Library HuEx B	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	pSGLenti CRISPR Control Plasmid	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Protection of first-aiders	: pSGLenti CRISPR Library HuEx A	No action shall be taken involving any personal risk or without suitable training.
	pSGLenti CRISPR Library HuEx B	No action shall be taken involving any personal risk or without suitable training.
	pSGLenti CRISPR Control Plasmid	No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact	: pSGLenti CRISPR Library HuEx A	No known significant effects or critical hazards.
	pSGLenti CRISPR Library HuEx B	No known significant effects or critical hazards.
	pSGLenti CRISPR Control Plasmid	No known significant effects or critical hazards.
Inhalation	: pSGLenti CRISPR Library HuEx A	No known significant effects or critical hazards.
	pSGLenti CRISPR Library HuEx B	No known significant effects or critical hazards.
	pSGLenti CRISPR Control Plasmid	No known significant effects or critical hazards.
Skin contact	: pSGLenti CRISPR Library HuEx A	No known significant effects or critical hazards.
	pSGLenti CRISPR Library HuEx B	No known significant effects or critical hazards.
	pSGLenti CRISPR Control Plasmid	No known significant effects or critical hazards.
Ingestion	: pSGLenti CRISPR Library HuEx A	No known significant effects or critical hazards.
	pSGLenti CRISPR Library HuEx B	No known significant effects or critical hazards.
	pSGLenti CRISPR Control Plasmid	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	: pSGLenti CRISPR Library HuEx A	No specific data.
	pSGLenti CRISPR Library HuEx B	No specific data.
	pSGLenti CRISPR Control Plasmid	No specific data.

SECTION 4: First aid measures

Inhalation	: pSGLenti CRISPR Library HuEx A pSGLenti CRISPR Library HuEx B pSGLenti CRISPR Control Plasmid	No specific data. No specific data. No specific data.
Skin contact	: pSGLenti CRISPR Library HuEx A pSGLenti CRISPR Library HuEx B pSGLenti CRISPR Control Plasmid	No specific data. No specific data. No specific data.
Ingestion	: pSGLenti CRISPR Library HuEx A pSGLenti CRISPR Library HuEx B pSGLenti CRISPR Control Plasmid	No specific data. No specific data. No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	: pSGLenti CRISPR Library HuEx A pSGLenti CRISPR Library HuEx B pSGLenti CRISPR Control Plasmid	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: pSGLenti CRISPR Library HuEx A pSGLenti CRISPR Library HuEx B pSGLenti CRISPR Control Plasmid	No specific treatment. No specific treatment. No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	: pSGLenti CRISPR Library HuEx A pSGLenti CRISPR Library HuEx B pSGLenti CRISPR Control Plasmid	Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: pSGLenti CRISPR Library HuEx A pSGLenti CRISPR Library HuEx B pSGLenti CRISPR Control Plasmid	None known. None known. None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	: pSGLenti CRISPR Library HuEx A pSGLenti CRISPR Library HuEx B pSGLenti CRISPR Control Plasmid	In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst.
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SECTION 5: Firefighting measures

Hazardous combustion products	: pSGLenti CRISPR Library HuEx A	No specific data.
	pSGLenti CRISPR Library HuEx B	No specific data.
	pSGLenti CRISPR Control Plasmid	No specific data.

5.3 Advice for firefighters

Special precautions for fire-fighters	: pSGLenti CRISPR Library HuEx A	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	pSGLenti CRISPR Library HuEx B	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	pSGLenti CRISPR Control Plasmid	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: pSGLenti CRISPR Library HuEx A	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
	pSGLenti CRISPR Library HuEx B	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
	pSGLenti CRISPR Control Plasmid	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: pSGLenti CRISPR Library HuEx A	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	pSGLenti CRISPR Library HuEx B	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	pSGLenti CRISPR Control Plasmid	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.

SECTION 6: Accidental release measures

For emergency responders	: pSGLenti CRISPR Library HuEx A	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	pSGLenti CRISPR Library HuEx B	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	pSGLenti CRISPR Control Plasmid	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	: pSGLenti CRISPR Library HuEx A	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	pSGLenti CRISPR Library HuEx B	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	pSGLenti CRISPR Control Plasmid	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
6.3 Methods and material for containment and cleaning up		
Methods for cleaning up	: pSGLenti CRISPR Library HuEx A	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	pSGLenti CRISPR Library HuEx B	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	pSGLenti CRISPR Control Plasmid	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
6.4 Reference to other sections	: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.	

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures	: pSGLenti CRISPR Library HuEx A	Put on appropriate personal protective equipment (see Section 8).
	pSGLenti CRISPR Library HuEx B	Put on appropriate personal protective equipment (see Section 8).
	pSGLenti CRISPR Control Plasmid	Put on appropriate personal protective equipment (see Section 8).

SECTION 7: Handling and storage

Advice on general occupational hygiene	: pSGLenti CRISPR Library HuEx A	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	pSGLenti CRISPR Library HuEx B	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	pSGLenti CRISPR Control Plasmid	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Storage	: pSGLenti CRISPR Library HuEx A	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
	pSGLenti CRISPR Library HuEx B	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
	pSGLenti CRISPR Control Plasmid	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

Recommendations	: pSGLenti CRISPR Library HuEx A	Industrial applications, Professional applications.
	pSGLenti CRISPR Library HuEx B	Industrial applications, Professional applications.
	pSGLenti CRISPR Control Plasmid	Industrial applications, Professional applications.

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SECTION 7: Handling and storage

Industrial sector specific solutions	: pSGLenti CRISPR Library HuEx A	Not applicable.
	: pSGLenti CRISPR Library HuEx B	Not applicable.
	: pSGLenti CRISPR Control Plasmid	Not applicable.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

No exposure limit value known.

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

No DNELs/DMELs available.

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

SECTION 8: Exposure controls/personal protection

- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	: pSGLenti CRISPR Library HuEx A	Liquid.
	pSGLenti CRISPR Library HuEx B	Liquid.
	pSGLenti CRISPR Control Plasmid	Liquid.
Colour	: pSGLenti CRISPR Library HuEx A	Not available.
	pSGLenti CRISPR Library HuEx B	Not available.
	pSGLenti CRISPR Control Plasmid	Not available.
Odour	: pSGLenti CRISPR Library HuEx A	Not available.
	pSGLenti CRISPR Library HuEx B	Not available.
	pSGLenti CRISPR Control Plasmid	Not available.
Odour threshold	: pSGLenti CRISPR Library HuEx A	Not available.
	pSGLenti CRISPR Library HuEx B	Not available.
	pSGLenti CRISPR Control Plasmid	Not available.
pH	: pSGLenti CRISPR Library HuEx A	7
	pSGLenti CRISPR Library HuEx B	7
	pSGLenti CRISPR Control Plasmid	7
Melting point/freezing point	: pSGLenti CRISPR Library HuEx A	0°C
	pSGLenti CRISPR Library HuEx B	0°C
	pSGLenti CRISPR Control Plasmid	0°C
Initial boiling point and boiling range	: pSGLenti CRISPR Library HuEx A	100°C
	pSGLenti CRISPR Library HuEx B	100°C
	pSGLenti CRISPR Control Plasmid	100°C

SECTION 9: Physical and chemical properties

Flash point	: pSGLenti CRISPR Library HuEx A	Not available.
	pSGLenti CRISPR Library HuEx B	Not available.
	pSGLenti CRISPR Control Plasmid	Not available.
Evaporation rate	: pSGLenti CRISPR Library HuEx A	Not available.
	pSGLenti CRISPR Library HuEx B	Not available.
	pSGLenti CRISPR Control Plasmid	Not available.
Flammability (solid, gas)	: pSGLenti CRISPR Library HuEx A	Not applicable.
	pSGLenti CRISPR Library HuEx B	Not applicable.
	pSGLenti CRISPR Control Plasmid	Not applicable.
Upper/lower flammability or explosive limits	: pSGLenti CRISPR Library HuEx A	Not available.
	pSGLenti CRISPR Library HuEx B	Not available.
	pSGLenti CRISPR Control Plasmid	Not available.
Vapour pressure	: pSGLenti CRISPR Library HuEx A	Not available.
	pSGLenti CRISPR Library HuEx B	Not available.
	pSGLenti CRISPR Control Plasmid	Not available.
Vapour density	: pSGLenti CRISPR Library HuEx A	Not available.
	pSGLenti CRISPR Library HuEx B	Not available.
	pSGLenti CRISPR Control Plasmid	Not available.
Relative density	: pSGLenti CRISPR Library HuEx A	Not available.
	pSGLenti CRISPR Library HuEx B	Not available.
	pSGLenti CRISPR Control Plasmid	Not available.
Solubility(ies)	: pSGLenti CRISPR Library HuEx A	Easily soluble in the following materials: cold water and hot water.
	pSGLenti CRISPR Library HuEx B	Easily soluble in the following materials: cold water and hot water.
	pSGLenti CRISPR Control Plasmid	Easily soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	: pSGLenti CRISPR Library HuEx A	Not available.
	pSGLenti CRISPR Library HuEx B	Not available.
	pSGLenti CRISPR Control Plasmid	Not available.

SECTION 9: Physical and chemical properties

Auto-ignition temperature	: pSGLenti CRISPR Library HuEx A pSGLenti CRISPR Library HuEx B pSGLenti CRISPR Control Plasmid	Not available. Not available. Not available.
Decomposition temperature	: pSGLenti CRISPR Library HuEx A pSGLenti CRISPR Library HuEx B pSGLenti CRISPR Control Plasmid	Not available. Not available. Not available.
Viscosity	: pSGLenti CRISPR Library HuEx A pSGLenti CRISPR Library HuEx B pSGLenti CRISPR Control Plasmid	Not available. Not available. Not available.
Explosive properties	: pSGLenti CRISPR Library HuEx A pSGLenti CRISPR Library HuEx B pSGLenti CRISPR Control Plasmid	Not available. Not available. Not available.
Oxidising properties	: pSGLenti CRISPR Library HuEx A pSGLenti CRISPR Library HuEx B pSGLenti CRISPR Control Plasmid	Not available. Not available. Not available.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	: pSGLenti CRISPR Library HuEx A pSGLenti CRISPR Library HuEx B pSGLenti CRISPR Control Plasmid	No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: pSGLenti CRISPR Library HuEx A pSGLenti CRISPR Library HuEx B pSGLenti CRISPR Control Plasmid	The product is stable. The product is stable. The product is stable.
10.3 Possibility of hazardous reactions	: pSGLenti CRISPR Library HuEx A pSGLenti CRISPR Library HuEx B pSGLenti CRISPR Control Plasmid	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.

SECTION 10: Stability and reactivity

10.4 Conditions to avoid	: pSGLenti CRISPR Library HuEx A pSGLenti CRISPR Library HuEx B pSGLenti CRISPR Control Plasmid	No specific data. No specific data. No specific data.
10.5 Incompatible materials	: pSGLenti CRISPR Library HuEx A pSGLenti CRISPR Library HuEx B pSGLenti CRISPR Control Plasmid	May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials.
10.6 Hazardous decomposition products	: pSGLenti CRISPR Library HuEx A pSGLenti CRISPR Library HuEx B pSGLenti CRISPR Control Plasmid	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Not available.

Acute toxicity estimates

Not available.

Irritation/Corrosion

Conclusion/Summary : Not available.

Sensitiser

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure	: pSGLenti CRISPR Library HuEx A pSGLenti CRISPR Library HuEx B pSGLenti CRISPR Control Plasmid	Not available. Not available. Not available.
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Potential acute health effects

Inhalation	: pSGLenti CRISPR Library HuEx A pSGLenti CRISPR Library HuEx B pSGLenti CRISPR Control Plasmid	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
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SECTION 11: Toxicological information

Ingestion	: pSGLenti CRISPR Library HuEx A	No known significant effects or critical hazards.
	pSGLenti CRISPR Library HuEx B	No known significant effects or critical hazards.
	pSGLenti CRISPR Control Plasmid	No known significant effects or critical hazards.
Skin contact	: pSGLenti CRISPR Library HuEx A	No known significant effects or critical hazards.
	pSGLenti CRISPR Library HuEx B	No known significant effects or critical hazards.
	pSGLenti CRISPR Control Plasmid	No known significant effects or critical hazards.
Eye contact	: pSGLenti CRISPR Library HuEx A	No known significant effects or critical hazards.
	pSGLenti CRISPR Library HuEx B	No known significant effects or critical hazards.
	pSGLenti CRISPR Control Plasmid	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation	: pSGLenti CRISPR Library HuEx A	No specific data.
	pSGLenti CRISPR Library HuEx B	No specific data.
	pSGLenti CRISPR Control Plasmid	No specific data.
Ingestion	: pSGLenti CRISPR Library HuEx A	No specific data.
	pSGLenti CRISPR Library HuEx B	No specific data.
	pSGLenti CRISPR Control Plasmid	No specific data.
Skin contact	: pSGLenti CRISPR Library HuEx A	No specific data.
	pSGLenti CRISPR Library HuEx B	No specific data.
	pSGLenti CRISPR Control Plasmid	No specific data.
Eye contact	: pSGLenti CRISPR Library HuEx A	No specific data.
	pSGLenti CRISPR Library HuEx B	No specific data.
	pSGLenti CRISPR Control Plasmid	No specific data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

SECTION 11: Toxicological information

General	: pSGLenti CRISPR Library HuEx A	No known significant effects or critical hazards.
	pSGLenti CRISPR Library HuEx B	No known significant effects or critical hazards.
	pSGLenti CRISPR Control Plasmid	No known significant effects or critical hazards.
Carcinogenicity	: pSGLenti CRISPR Library HuEx A	No known significant effects or critical hazards.
	pSGLenti CRISPR Library HuEx B	No known significant effects or critical hazards.
	pSGLenti CRISPR Control Plasmid	No known significant effects or critical hazards.
Mutagenicity	: pSGLenti CRISPR Library HuEx A	No known significant effects or critical hazards.
	pSGLenti CRISPR Library HuEx B	No known significant effects or critical hazards.
	pSGLenti CRISPR Control Plasmid	No known significant effects or critical hazards.
Teratogenicity	: pSGLenti CRISPR Library HuEx A	No known significant effects or critical hazards.
	pSGLenti CRISPR Library HuEx B	No known significant effects or critical hazards.
	pSGLenti CRISPR Control Plasmid	No known significant effects or critical hazards.
Developmental effects	: pSGLenti CRISPR Library HuEx A	No known significant effects or critical hazards.
	pSGLenti CRISPR Library HuEx B	No known significant effects or critical hazards.
	pSGLenti CRISPR Control Plasmid	No known significant effects or critical hazards.
Fertility effects	: pSGLenti CRISPR Library HuEx A	No known significant effects or critical hazards.
	pSGLenti CRISPR Library HuEx B	No known significant effects or critical hazards.
	pSGLenti CRISPR Control Plasmid	No known significant effects or critical hazards.

SECTION 12: Ecological information

12.1 Toxicity

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Not available.

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

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SECTION 12: Ecological information

vPvB : Not applicable.

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions : This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

ADR/RID / IMDG / IATA : Not regulated.

14.6 Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code : Not available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	pSGLenti CRISPR Library	Not applicable.
	HuEx A	
	pSGLenti CRISPR Library	Not applicable.
	HuEx B	
	pSGLenti CRISPR Control	Not applicable.
	Plasmid	

Other EU regulations

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

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SECTION 15: Regulatory information

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia	: Not determined.
Canada	: Not determined.
China	: All components are listed or exempted.
Europe	: All components are listed or exempted.
Japan	: Japan inventory (ENCS) : Not determined. Japan inventory (ISHL) : All components are listed or exempted.
Malaysia	: Not determined.
New Zealand	: Not determined.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: All components are listed or exempted.
Thailand	: Not determined.
Turkey	: Not determined.
United States	: All components are listed or exempted.
Viet Nam	: Not determined.

15.2 Chemical safety assessment : This product contains substances for which Chemical Safety Assessments might still be required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	: ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number
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Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Not classified.	

Full text of abbreviated H statements

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SECTION 16: Other information

Not applicable.

Full text of classifications [CLP/GHS]

Not applicable.

Date of issue/ Date of revision : 15/12/2017

Date of previous issue : No previous validation.

Version : 1

Notice to reader

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