

SAFETY DATA SHEET

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

Section 1. Identification

1.1 Product identifier

Product name : Human Exome CRISPR Lenti Library Early Access (Catalog kit), Part Number G7553P
Part No. (Chemical Kit) : G7553P
Part No. : pSGLenti CRISPR Library HuEx A 5190-9375
 pSGLenti CRISPR Library HuEx B 5190-9400
 pSGLenti CRISPR Control Plasmid 5190-9376
Validation date : 12/15/2017

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

Material 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

Supplier/Manufacturer : Agilent Technologies, Inc.
 5301 Stevens Creek Blvd
 Santa Clara, CA 95051, USA
 800-227-9770

1.4 Emergency telephone number

In case of emergency : CHEMTREC®: 1-800-424-9300

Section 2. Hazards identification

2.1 Classification of the substance or mixture

OSHA/HCS status :	pSGLenti CRISPR Library HuEx A	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
	pSGLenti CRISPR Library HuEx B	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
	pSGLenti CRISPR Control Plasmid	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture

Not classified.

2.2 GHS label elements

Signal word :

Section 2. Hazards identification

	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.
Precautionary statements		
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	None known.
	pSGLenti CRISPR Library HuEx B	None known.
	pSGLenti CRISPR Control Plasmid	None known.

2.3 Other hazards

Hazards not otherwise classified	: 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

Substance/mixture	: pSGLenti CRISPR Library HuEx A	Mixture
	pSGLenti CRISPR Library HuEx B	Mixture
	pSGLenti CRISPR Control Plasmid	Mixture

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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 and hence require reporting in this section.

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

Section 4. First aid measures

4.1 Description of necessary 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.

Section 4. First aid measures

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.
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.

4.2 Most important symptoms/effects, 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

Section 4. First aid measures

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

4.3 Indication of immediate medical attention and special treatment needed, if necessary

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

See toxicological information (Section 11)

Section 5. Fire-fighting measures

5.1 Extinguishing media

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

5.2 Special hazards arising from the substance or mixture

Specific hazards arising from the chemical	: pSGLenti CRISPR Library HuEx A	In a fire or if heated, a pressure increase will occur and the container may burst.
	pSGLenti CRISPR Library HuEx B	In a fire or if heated, a pressure increase will occur and the container may burst.
	pSGLenti CRISPR Control Plasmid	In a fire or if heated, a pressure increase will occur and the container may burst.

Section 5. Fire-fighting measures

Hazardous thermal decomposition 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 protective actions 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.
 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.
 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.

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 spilled 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 spilled 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 spilled material. Put on appropriate personal protective equipment.

Section 6. Accidental release measures

For emergency responders	: pSGLenti CRISPR Library HuEx A	If specialized 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 specialized 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 specialized 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 spilled 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 spilled 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 spilled 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 materials 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.

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).
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

: 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 unlabeled 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 unlabeled 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

Section 7. Handling and storage

opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled 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.
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

Ingredient name	Exposure limits
None.	

8.2 Exposure controls

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

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.

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.
Color	: pSGLenti CRISPR Library HuEx A	Not available.
	pSGLenti CRISPR Library HuEx B	Not available.
	pSGLenti CRISPR Control Plasmid	Not available.
Odor	: pSGLenti CRISPR Library HuEx A	Not available.
	pSGLenti CRISPR Library HuEx B	Not available.
	pSGLenti CRISPR Control Plasmid	Not available.
Odor 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	: pSGLenti CRISPR Library HuEx A	0°C (32°F)
	pSGLenti CRISPR Library HuEx B	0°C (32°F)
	pSGLenti CRISPR Control Plasmid	0°C (32°F)
Boiling point	: pSGLenti CRISPR Library HuEx A	100°C (212°F)
	pSGLenti CRISPR Library HuEx B	100°C (212°F)
	pSGLenti CRISPR Control Plasmid	100°C (212°F)
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.
Lower and upper explosive (flammable) limits	: pSGLenti CRISPR Library HuEx A	Not available.
	pSGLenti CRISPR Library HuEx B	Not available.
	pSGLenti CRISPR Control Plasmid	Not available.
Vapor pressure	: pSGLenti CRISPR Library HuEx A	Not available.
	pSGLenti CRISPR Library HuEx B	Not available.
	pSGLenti CRISPR Control Plasmid	Not available.
Vapor 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.

Section 9. Physical and chemical properties

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

Section 10. Stability and reactivity

10.1 Reactivity	: pSGLenti CRISPR Library HuEx A	No specific test data related to reactivity available for this product or its ingredients.
	pSGLenti CRISPR Library HuEx B	No specific test data related to reactivity available for this product or its ingredients.
	pSGLenti CRISPR Control Plasmid	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: pSGLenti CRISPR Library HuEx A	The product is stable.
	pSGLenti CRISPR Library HuEx B	The product is stable.
	pSGLenti CRISPR Control Plasmid	The product is stable.
10.3 Possibility of hazardous reactions	: pSGLenti CRISPR Library HuEx A	Under normal conditions of storage and use, hazardous reactions will not occur.
	pSGLenti CRISPR Library HuEx B	Under normal conditions of storage and use, hazardous reactions will not occur.
	pSGLenti CRISPR Control Plasmid	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: pSGLenti CRISPR Library HuEx A	No specific data.
	pSGLenti CRISPR Library HuEx B	No specific data.
	pSGLenti CRISPR Control Plasmid	No specific data.
10.5 Incompatible materials	: pSGLenti CRISPR Library HuEx A	May react or be incompatible with oxidizing materials.
	pSGLenti CRISPR Library HuEx B	May react or be incompatible with oxidizing materials.
	pSGLenti CRISPR Control Plasmid	May react or be incompatible with oxidizing materials.

Section 10. Stability and reactivity

10.6 Hazardous decomposition products	: pSGLenti CRISPR Library HuEx A	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	pSGLenti CRISPR Library HuEx B	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	pSGLenti CRISPR Control Plasmid	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.

Irritation/Corrosion

Not available.

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure	: pSGLenti CRISPR Library HuEx A	Not available.
	pSGLenti CRISPR Library HuEx B	Not available.
	pSGLenti CRISPR Control Plasmid	Not available.

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.

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.

Symptoms related to the physical, chemical and toxicological characteristics

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.
Inhalation	: 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.
Ingestion	: 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 and also 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

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.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

12.1 Toxicity

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.

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

Section 13. Disposal considerations

13.1 Waste treatment methods

Disposal methods : The generation of waste should be avoided or minimized 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. 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 spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

Section 14. Transport information

DOT / TDG / Mexico / IMDG / IATA : Not regulated.

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.

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

U.S. Federal regulations : TSCA 8(a) CDR Exempt/Partial exemption: Not determined
Clean Water Act (CWA) 311: Edetic acid

Clean Air Act Section 112 : Not listed

(b) Hazardous Air Pollutants (HAPs)

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : pSGLenti CRISPR Library HuEx A Not applicable.
pSGLenti CRISPR Library HuEx B Not applicable.
pSGLenti CRISPR Control Plasmid Not applicable.

Composition/information on ingredients

No products were found.

State regulations

Massachusetts : None of the components are listed.

New York : None of the components are listed.

New Jersey : None of the components are listed.

Pennsylvania : None of the components are listed.

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.

Section 15. Regulatory information

Canada	: <input checked="" type="checkbox"/> Not determined.
China	: All components are listed or exempted.
Europe	: All components are listed or exempted.
Japan	: <input checked="" type="checkbox"/> Japan inventory (ENCS) : Not determined. Japan inventory (ISHL) : All components are listed or exempted.
Malaysia	: Not determined.
New Zealand	: <input checked="" type="checkbox"/> Not determined.
Philippines	: <input checked="" type="checkbox"/> Not determined.
Republic of Korea	: <input checked="" type="checkbox"/> Not determined.
Taiwan	: All components are listed or exempted.
Thailand	: <input checked="" type="checkbox"/> Not determined.
Turkey	: <input checked="" type="checkbox"/> Not determined.
United States	: All components are listed or exempted.
Viet Nam	: <input checked="" type="checkbox"/> Not determined.

Section 16. Other information

History

Date of issue	: 12/15/2017
Date of previous issue	: 10/06/2015.
Version	: 2

Indicates information that has changed from previously issued version.

Notice to reader

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