

# SAFETY DATA SHEET



SureGuide GeCKO v2.0 Human Exome CRISPR Library, Part Number G7553A

## Section 1. Identification

### 1.1 Product identifier

**Product name** : SureGuide GeCKO v2.0 Human Exome CRISPR Library, Part Number G7553A  
**Part No. (Chemical Kit)** : G7553A  
**Part No.** : SureGuide pSGLenti GeCKO v2.0 Library HuEx A 5190-9518  
 SureGuide pSGLenti GeCKO v2.0 Library HuEx B 5190-9519  
 SureGuide pSGLenti CRISPR Control Plasmid (Human) 5190-9520  
**Validation date** : 9/14/2016

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

**Material uses** : Analytical reagent.  
 SureGuide pSGLenti GeCKO v2.0 Library HuEx A 4 x 0.025 mL  
 SureGuide pSGLenti GeCKO v2.0 Library HuEx B 4 x 0.025 mL  
 SureGuide pSGLenti CRISPR Control Plasmid (Human) 0.025 mL

### 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

<b>OSHA/HCS status</b>	: SureGuide pSGLenti GeCKO v2.0 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.
	SureGuide pSGLenti GeCKO v2.0 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.
	SureGuide pSGLenti CRISPR Control Plasmid (Human)	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.

## Section 2. Hazards identification

### Classification of the substance or mixture

Not classified.

### 2.2 GHS label elements

<b>Signal word</b>	: SureGuide pSGLenti GeCKO v2.0 Library HuEx A	No signal word.
	: SureGuide pSGLenti GeCKO v2.0 Library HuEx B	No signal word.
	: SureGuide pSGLenti CRISPR Control Plasmid (Human)	No signal word.
<b>Hazard statements</b>	: SureGuide pSGLenti GeCKO v2.0 Library HuEx A	No known significant effects or critical hazards.
	: SureGuide pSGLenti GeCKO v2.0 Library HuEx B	No known significant effects or critical hazards.
	: SureGuide pSGLenti CRISPR Control Plasmid (Human)	No known significant effects or critical hazards.
<b>Precautionary statements</b>		
<b>Prevention</b>	: SureGuide pSGLenti GeCKO v2.0 Library HuEx A	Not applicable.
	: SureGuide pSGLenti GeCKO v2.0 Library HuEx B	Not applicable.
	: SureGuide pSGLenti CRISPR Control Plasmid (Human)	Not applicable.
<b>Response</b>	: SureGuide pSGLenti GeCKO v2.0 Library HuEx A	Not applicable.
	: SureGuide pSGLenti GeCKO v2.0 Library HuEx B	Not applicable.
	: SureGuide pSGLenti CRISPR Control Plasmid (Human)	Not applicable.
<b>Storage</b>	: SureGuide pSGLenti GeCKO v2.0 Library HuEx A	Not applicable.
	: SureGuide pSGLenti GeCKO v2.0 Library HuEx B	Not applicable.
	: SureGuide pSGLenti CRISPR Control Plasmid (Human)	Not applicable.
<b>Disposal</b>	: SureGuide pSGLenti GeCKO v2.0 Library HuEx A	Not applicable.
	: SureGuide pSGLenti GeCKO v2.0 Library HuEx B	Not applicable.
	: SureGuide pSGLenti CRISPR Control Plasmid (Human)	Not applicable.
<b>Supplemental label elements</b>	: SureGuide pSGLenti GeCKO v2.0 Library HuEx A	None known.
	: SureGuide pSGLenti GeCKO v2.0 Library HuEx B	None known.
	: SureGuide pSGLenti CRISPR Control Plasmid (Human)	None known.

### 2.3 Other hazards

<b>Hazards not otherwise classified</b>	: SureGuide pSGLenti GeCKO v2.0 Library HuEx A	None known.
	: SureGuide pSGLenti GeCKO v2.0 Library HuEx B	None known.
	: SureGuide pSGLenti CRISPR Control Plasmid (Human)	None known.

## Section 3. Composition/information on ingredients

<b>Substance/mixture</b>	: SureGuide pSGLenti GeCKO v2.0 Library HuEx A	Mixture
	SureGuide pSGLenti GeCKO v2.0 Library HuEx B	Mixture
	SureGuide pSGLenti CRISPR Control Plasmid (Human)	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

<b>Eye contact</b>	: SureGuide pSGLenti GeCKO v2.0 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.
	SureGuide pSGLenti GeCKO v2.0 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.
	SureGuide pSGLenti CRISPR Control Plasmid (Human)	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.
<b>Inhalation</b>	: SureGuide pSGLenti GeCKO v2.0 Library HuEx A	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureGuide pSGLenti GeCKO v2.0 Library HuEx B	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureGuide pSGLenti CRISPR Control Plasmid (Human)	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
<b>Skin contact</b>	: SureGuide pSGLenti GeCKO v2.0 Library HuEx A	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureGuide pSGLenti GeCKO v2.0 Library HuEx B	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureGuide pSGLenti CRISPR Control Plasmid (Human)	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
<b>Ingestion</b>	: SureGuide pSGLenti GeCKO v2.0 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.
	SureGuide pSGLenti GeCKO v2.0 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

## Section 4. First aid measures

SureGuide pSGLenti CRISPR  
Control Plasmid (Human)

unless directed to do so by medical personnel. Get medical attention if symptoms occur.  
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

<b>Eye contact</b>	: SureGuide pSGLenti GeCKO v2.0 Library HuEx A	No known significant effects or critical hazards.
	: SureGuide pSGLenti GeCKO v2.0 Library HuEx B	No known significant effects or critical hazards.
	: SureGuide pSGLenti CRISPR Control Plasmid (Human)	No known significant effects or critical hazards.
<b>Inhalation</b>	: SureGuide pSGLenti GeCKO v2.0 Library HuEx A	No known significant effects or critical hazards.
	: SureGuide pSGLenti GeCKO v2.0 Library HuEx B	No known significant effects or critical hazards.
	: SureGuide pSGLenti CRISPR Control Plasmid (Human)	No known significant effects or critical hazards.
<b>Skin contact</b>	: SureGuide pSGLenti GeCKO v2.0 Library HuEx A	No known significant effects or critical hazards.
	: SureGuide pSGLenti GeCKO v2.0 Library HuEx B	No known significant effects or critical hazards.
	: SureGuide pSGLenti CRISPR Control Plasmid (Human)	No known significant effects or critical hazards.
<b>Ingestion</b>	: SureGuide pSGLenti GeCKO v2.0 Library HuEx A	No known significant effects or critical hazards.
	: SureGuide pSGLenti GeCKO v2.0 Library HuEx B	No known significant effects or critical hazards.
	: SureGuide pSGLenti CRISPR Control Plasmid (Human)	No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

<b>Eye contact</b>	: SureGuide pSGLenti GeCKO v2.0 Library HuEx A	No specific data.
	: SureGuide pSGLenti GeCKO v2.0 Library HuEx B	No specific data.
	: SureGuide pSGLenti CRISPR Control Plasmid (Human)	No specific data.
<b>Inhalation</b>	: SureGuide pSGLenti GeCKO v2.0 Library HuEx A	No specific data.
	: SureGuide pSGLenti GeCKO v2.0 Library HuEx B	No specific data.
	: SureGuide pSGLenti CRISPR Control Plasmid (Human)	No specific data.
<b>Skin contact</b>	: SureGuide pSGLenti GeCKO v2.0 Library HuEx A	No specific data.
	: SureGuide pSGLenti GeCKO v2.0 Library HuEx B	No specific data.
	: SureGuide pSGLenti CRISPR Control Plasmid (Human)	No specific data.

## Section 4. First aid measures

<b>Ingestion</b>	: SureGuide pSGLenti GeCKO v2.0 Library HuEx A	No specific data.
	SureGuide pSGLenti GeCKO v2.0 Library HuEx B	No specific data.
	SureGuide pSGLenti CRISPR Control Plasmid (Human)	No specific data.

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

<b>Notes to physician</b>	: SureGuide pSGLenti GeCKO v2.0 Library HuEx A	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureGuide pSGLenti GeCKO v2.0 Library HuEx B	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureGuide pSGLenti CRISPR Control Plasmid (Human)	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
<b>Specific treatments</b>	: SureGuide pSGLenti GeCKO v2.0 Library HuEx A	No specific treatment.
	SureGuide pSGLenti GeCKO v2.0 Library HuEx B	No specific treatment.
	SureGuide pSGLenti CRISPR Control Plasmid (Human)	No specific treatment.
<b>Protection of first-aiders</b>	: SureGuide pSGLenti GeCKO v2.0 Library HuEx A	No action shall be taken involving any personal risk or without suitable training.
	SureGuide pSGLenti GeCKO v2.0 Library HuEx B	No action shall be taken involving any personal risk or without suitable training.
	SureGuide pSGLenti CRISPR Control Plasmid (Human)	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

<b>Suitable extinguishing media</b>	: SureGuide pSGLenti GeCKO v2.0 Library HuEx A	Use an extinguishing agent suitable for the surrounding fire.
	SureGuide pSGLenti GeCKO v2.0 Library HuEx B	Use an extinguishing agent suitable for the surrounding fire.
	SureGuide pSGLenti CRISPR Control Plasmid (Human)	Use an extinguishing agent suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	: SureGuide pSGLenti GeCKO v2.0 Library HuEx A	None known.
	SureGuide pSGLenti GeCKO v2.0 Library HuEx B	None known.
	SureGuide pSGLenti CRISPR Control Plasmid (Human)	None known.

### 5.2 Special hazards arising from the substance or mixture

<b>Specific hazards arising from the chemical</b>	: SureGuide pSGLenti GeCKO v2.0 Library HuEx A	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureGuide pSGLenti GeCKO v2.0 Library HuEx B	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureGuide pSGLenti CRISPR Control Plasmid (Human)	In a fire or if heated, a pressure increase will occur and the container may burst.

## Section 5. Fire-fighting measures

<b>Hazardous thermal decomposition products</b>	: SureGuide pSGLenti GeCKO v2.0 Library HuEx A	No specific data.
	: SureGuide pSGLenti GeCKO v2.0 Library HuEx B	No specific data.
	: SureGuide pSGLenti CRISPR Control Plasmid (Human)	No specific data.

### 5.3 Advice for firefighters

<b>Special protective actions for fire-fighters</b>	: SureGuide pSGLenti GeCKO v2.0 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.
	: SureGuide pSGLenti GeCKO v2.0 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.
	: SureGuide pSGLenti CRISPR Control Plasmid (Human)	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.
<b>Special protective equipment for fire-fighters</b>	: SureGuide pSGLenti GeCKO v2.0 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.
	: SureGuide pSGLenti GeCKO v2.0 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.
	: SureGuide pSGLenti CRISPR Control Plasmid (Human)	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

<b>For non-emergency personnel</b>	: SureGuide pSGLenti GeCKO v2.0 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.
	: SureGuide pSGLenti GeCKO v2.0 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.
	: SureGuide pSGLenti CRISPR Control Plasmid (Human)	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

<b>For emergency responders</b>	: SureGuide pSGLenti GeCKO v2.0 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". 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". 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".
	: SureGuide pSGLenti GeCKO v2.0 Library HuEx B	
	: SureGuide pSGLenti CRISPR Control Plasmid (Human)	
<b>6.2 Environmental precautions</b>	: SureGuide pSGLenti GeCKO v2.0 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).
	: SureGuide pSGLenti GeCKO v2.0 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).
	: SureGuide pSGLenti CRISPR Control Plasmid (Human)	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

<b>Methods for cleaning up</b>	: SureGuide pSGLenti GeCKO v2.0 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.
	: SureGuide pSGLenti GeCKO v2.0 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.
	: SureGuide pSGLenti CRISPR Control Plasmid (Human)	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

<b>Protective measures</b>	: SureGuide pSGLenti GeCKO v2.0 Library HuEx A	Put on appropriate personal protective equipment (see Section 8).
	: SureGuide pSGLenti GeCKO v2.0 Library HuEx B	Put on appropriate personal protective equipment (see Section 8).
	: SureGuide pSGLenti CRISPR Control Plasmid (Human)	Put on appropriate personal protective equipment (see Section 8).

## Section 7. Handling and storage

<p><b>Advice on general occupational hygiene</b></p>	<p>: SureGuide pSGLenti GeCKO v2.0 Library HuEx A</p>	<p>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.</p>
	<p>SureGuide pSGLenti GeCKO v2.0 Library HuEx B</p>	<p>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.</p>
	<p>SureGuide pSGLenti CRISPR Control Plasmid (Human)</p>	<p>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.</p>
<p><b>7.2 Conditions for safe storage, including any incompatibilities</b></p>	<p>: SureGuide pSGLenti GeCKO v2.0 Library HuEx A</p>	<p>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.</p>
	<p>SureGuide pSGLenti GeCKO v2.0 Library HuEx B</p>	<p>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.</p>
	<p>SureGuide pSGLenti CRISPR Control Plasmid (Human)</p>	<p>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.</p>

### 7.3 Specific end use(s)



## Section 7. Handling and storage

- Recommendations** :
- SureGuide pSGLenti GeCKO v2.0 Library HuEx A Industrial applications, Professional applications.
  - SureGuide pSGLenti GeCKO v2.0 Library HuEx B Industrial applications, Professional applications.
  - SureGuide pSGLenti CRISPR Control Plasmid (Human) Industrial applications, Professional applications.
- Industrial sector specific solutions** :
- SureGuide pSGLenti GeCKO v2.0 Library HuEx A Not applicable.
  - SureGuide pSGLenti GeCKO v2.0 Library HuEx B Not applicable.
  - SureGuide pSGLenti CRISPR Control Plasmid (Human) 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.

- 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

<b>Physical state</b>	: SureGuide pSGLenti GeCKO v2.0	Liquid.
	Library HuEx A	
	SureGuide pSGLenti GeCKO v2.0	Liquid.
	Library HuEx B	
	SureGuide pSGLenti CRISPR	Liquid.
	Control Plasmid (Human)	
<b>Color</b>	: SureGuide pSGLenti GeCKO v2.0	Not available.
	Library HuEx A	
	SureGuide pSGLenti GeCKO v2.0	Not available.
	Library HuEx B	
	SureGuide pSGLenti CRISPR	Not available.
	Control Plasmid (Human)	
<b>Odor</b>	: SureGuide pSGLenti GeCKO v2.0	Not available.
	Library HuEx A	
	SureGuide pSGLenti GeCKO v2.0	Not available.
	Library HuEx B	
	SureGuide pSGLenti CRISPR	Not available.
	Control Plasmid (Human)	
<b>Odor threshold</b>	: SureGuide pSGLenti GeCKO v2.0	Not available.
	Library HuEx A	
	SureGuide pSGLenti GeCKO v2.0	Not available.
	Library HuEx B	
	SureGuide pSGLenti CRISPR	Not available.
	Control Plasmid (Human)	
<b>pH</b>	: SureGuide pSGLenti GeCKO v2.0	7
	Library HuEx A	
	SureGuide pSGLenti GeCKO v2.0	7
	Library HuEx B	
	SureGuide pSGLenti CRISPR	7
	Control Plasmid (Human)	
<b>Melting point</b>	: SureGuide pSGLenti GeCKO v2.0	0°C (32°F)
	Library HuEx A	
	SureGuide pSGLenti GeCKO v2.0	0°C (32°F)
	Library HuEx B	
	SureGuide pSGLenti CRISPR	0°C (32°F)
	Control Plasmid (Human)	
<b>Boiling point</b>	: SureGuide pSGLenti GeCKO v2.0	100°C (212°F)
	Library HuEx A	
	SureGuide pSGLenti GeCKO v2.0	100°C (212°F)
	Library HuEx B	
	SureGuide pSGLenti CRISPR	100°C (212°F)
	Control Plasmid (Human)	
<b>Flash point</b>	: SureGuide pSGLenti GeCKO v2.0	Not available.
	Library HuEx A	
	SureGuide pSGLenti GeCKO v2.0	Not available.
	Library HuEx B	
	SureGuide pSGLenti CRISPR	Not available.
	Control Plasmid (Human)	

## Section 9. Physical and chemical properties

<b>Evaporation rate</b>	: SureGuide pSGLenti GeCKO v2.0 Library HuEx A SureGuide pSGLenti GeCKO v2.0 Library HuEx B SureGuide pSGLenti CRISPR Control Plasmid (Human)	Not available. Not available. Not available.
<b>Flammability (solid, gas)</b>	: SureGuide pSGLenti GeCKO v2.0 Library HuEx A SureGuide pSGLenti GeCKO v2.0 Library HuEx B SureGuide pSGLenti CRISPR Control Plasmid (Human)	Not applicable. Not applicable. Not applicable.
<b>Lower and upper explosive (flammable) limits</b>	: SureGuide pSGLenti GeCKO v2.0 Library HuEx A SureGuide pSGLenti GeCKO v2.0 Library HuEx B SureGuide pSGLenti CRISPR Control Plasmid (Human)	Not available. Not available. Not available.
<b>Vapor pressure</b>	: SureGuide pSGLenti GeCKO v2.0 Library HuEx A SureGuide pSGLenti GeCKO v2.0 Library HuEx B SureGuide pSGLenti CRISPR Control Plasmid (Human)	Not available. Not available. Not available.
<b>Vapor density</b>	: SureGuide pSGLenti GeCKO v2.0 Library HuEx A SureGuide pSGLenti GeCKO v2.0 Library HuEx B SureGuide pSGLenti CRISPR Control Plasmid (Human)	Not available. Not available. Not available.
<b>Relative density</b>	: SureGuide pSGLenti GeCKO v2.0 Library HuEx A SureGuide pSGLenti GeCKO v2.0 Library HuEx B SureGuide pSGLenti CRISPR Control Plasmid (Human)	Not available. Not available. Not available.
<b>Solubility</b>	: SureGuide pSGLenti GeCKO v2.0 Library HuEx A SureGuide pSGLenti GeCKO v2.0 Library HuEx B SureGuide pSGLenti CRISPR Control Plasmid (Human)	Easily soluble in the following materials: cold water and hot water. Easily soluble in the following materials: cold water and hot water. Easily soluble in the following materials: cold water and hot water.
<b>Partition coefficient: n-octanol/water</b>	: SureGuide pSGLenti GeCKO v2.0 Library HuEx A SureGuide pSGLenti GeCKO v2.0 Library HuEx B SureGuide pSGLenti CRISPR Control Plasmid (Human)	Not available. Not available. Not available.
<b>Auto-ignition temperature</b>	: SureGuide pSGLenti GeCKO v2.0 Library HuEx A SureGuide pSGLenti GeCKO v2.0 Library HuEx B SureGuide pSGLenti CRISPR Control Plasmid (Human)	Not available. Not available. Not available.

## Section 9. Physical and chemical properties

<b>Decomposition temperature</b>	SureGuide pSGLenti GeCKO v2.0	Not available.
	Library HuEx A	
	SureGuide pSGLenti GeCKO v2.0	Not available.
	Library HuEx B	
<b>Viscosity</b>	SureGuide pSGLenti CRISPR	Not available.
	Control Plasmid (Human)	
	SureGuide pSGLenti GeCKO v2.0	Not available.
	Library HuEx A	
	SureGuide pSGLenti GeCKO v2.0	Not available.
	Library HuEx B	
	SureGuide pSGLenti CRISPR	Not available.
	Control Plasmid (Human)	

## Section 10. Stability and reactivity

<b>10.1 Reactivity</b>	SureGuide pSGLenti GeCKO v2.0	No specific test data related to reactivity available for this product or its ingredients.
	Library HuEx A	
	SureGuide pSGLenti GeCKO v2.0	No specific test data related to reactivity available for this product or its ingredients.
	Library HuEx B	
<b>10.2 Chemical stability</b>	SureGuide pSGLenti CRISPR	No specific test data related to reactivity available for this product or its ingredients.
	Control Plasmid (Human)	
	SureGuide pSGLenti GeCKO v2.0	The product is stable.
	Library HuEx A	
	SureGuide pSGLenti GeCKO v2.0	The product is stable.
	Library HuEx B	
	SureGuide pSGLenti CRISPR	The product is stable.
	Control Plasmid (Human)	
<b>10.3 Possibility of hazardous reactions</b>	SureGuide pSGLenti GeCKO v2.0	Under normal conditions of storage and use, hazardous reactions will not occur.
	Library HuEx A	
	SureGuide pSGLenti GeCKO v2.0	Under normal conditions of storage and use, hazardous reactions will not occur.
	Library HuEx B	
	SureGuide pSGLenti CRISPR	Under normal conditions of storage and use, hazardous reactions will not occur.
	Control Plasmid (Human)	
	SureGuide pSGLenti GeCKO v2.0	No specific data.
	Library HuEx A	
<b>10.4 Conditions to avoid</b>	SureGuide pSGLenti GeCKO v2.0	No specific data.
	Library HuEx B	
	SureGuide pSGLenti GeCKO v2.0	No specific data.
	Library HuEx A	
	SureGuide pSGLenti CRISPR	No specific data.
	Control Plasmid (Human)	
	SureGuide pSGLenti GeCKO v2.0	May react or be incompatible with oxidizing materials.
	Library HuEx A	
<b>10.5 Incompatible materials</b>	SureGuide pSGLenti GeCKO v2.0	May react or be incompatible with oxidizing materials.
	Library HuEx B	
	SureGuide pSGLenti CRISPR	May react or be incompatible with oxidizing materials.
	Control Plasmid (Human)	

## Section 10. Stability and reactivity

<b>10.6 Hazardous decomposition products</b>	: SureGuide pSGLenti GeCKO v2.0 Library HuEx A	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	SureGuide pSGLenti GeCKO v2.0 Library HuEx B	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	SureGuide pSGLenti CRISPR Control Plasmid (Human)	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.

<b>Information on the likely routes of exposure</b>	: SureGuide pSGLenti GeCKO v2.0 Library HuEx A	Not available.
	SureGuide pSGLenti GeCKO v2.0 Library HuEx B	Not available.
	SureGuide pSGLenti CRISPR Control Plasmid (Human)	Not available.

### Potential acute health effects

<b>Eye contact</b>	: SureGuide pSGLenti GeCKO v2.0 Library HuEx A	No known significant effects or critical hazards.
	SureGuide pSGLenti GeCKO v2.0 Library HuEx B	No known significant effects or critical hazards.
	SureGuide pSGLenti CRISPR Control Plasmid (Human)	No known significant effects or critical hazards.

## Section 11. Toxicological information

<b>Inhalation</b>	: SureGuide pSGLenti GeCKO v2.0 Library HuEx A	No known significant effects or critical hazards.
	: SureGuide pSGLenti GeCKO v2.0 Library HuEx B	No known significant effects or critical hazards.
	: SureGuide pSGLenti CRISPR Control Plasmid (Human)	No known significant effects or critical hazards.
<b>Skin contact</b>	: SureGuide pSGLenti GeCKO v2.0 Library HuEx A	No known significant effects or critical hazards.
	: SureGuide pSGLenti GeCKO v2.0 Library HuEx B	No known significant effects or critical hazards.
	: SureGuide pSGLenti CRISPR Control Plasmid (Human)	No known significant effects or critical hazards.
<b>Ingestion</b>	: SureGuide pSGLenti GeCKO v2.0 Library HuEx A	No known significant effects or critical hazards.
	: SureGuide pSGLenti GeCKO v2.0 Library HuEx B	No known significant effects or critical hazards.
	: SureGuide pSGLenti CRISPR Control Plasmid (Human)	No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

<b>Eye contact</b>	: SureGuide pSGLenti GeCKO v2.0 Library HuEx A	No specific data.
	: SureGuide pSGLenti GeCKO v2.0 Library HuEx B	No specific data.
	: SureGuide pSGLenti CRISPR Control Plasmid (Human)	No specific data.
<b>Inhalation</b>	: SureGuide pSGLenti GeCKO v2.0 Library HuEx A	No specific data.
	: SureGuide pSGLenti GeCKO v2.0 Library HuEx B	No specific data.
	: SureGuide pSGLenti CRISPR Control Plasmid (Human)	No specific data.
<b>Skin contact</b>	: SureGuide pSGLenti GeCKO v2.0 Library HuEx A	No specific data.
	: SureGuide pSGLenti GeCKO v2.0 Library HuEx B	No specific data.
	: SureGuide pSGLenti CRISPR Control Plasmid (Human)	No specific data.
<b>Ingestion</b>	: SureGuide pSGLenti GeCKO v2.0 Library HuEx A	No specific data.
	: SureGuide pSGLenti GeCKO v2.0 Library HuEx B	No specific data.
	: SureGuide pSGLenti CRISPR Control Plasmid (Human)	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



## Section 11. Toxicological information

<b>General</b>	: SureGuide pSGLenti GeCKO v2.0 Library HuEx A	No known significant effects or critical hazards.
	SureGuide pSGLenti GeCKO v2.0 Library HuEx B	No known significant effects or critical hazards.
	SureGuide pSGLenti CRISPR Control Plasmid (Human)	No known significant effects or critical hazards.
<b>Carcinogenicity</b>	: SureGuide pSGLenti GeCKO v2.0 Library HuEx A	No known significant effects or critical hazards.
	SureGuide pSGLenti GeCKO v2.0 Library HuEx B	No known significant effects or critical hazards.
	SureGuide pSGLenti CRISPR Control Plasmid (Human)	No known significant effects or critical hazards.
<b>Mutagenicity</b>	: SureGuide pSGLenti GeCKO v2.0 Library HuEx A	No known significant effects or critical hazards.
	SureGuide pSGLenti GeCKO v2.0 Library HuEx B	No known significant effects or critical hazards.
	SureGuide pSGLenti CRISPR Control Plasmid (Human)	No known significant effects or critical hazards.
<b>Teratogenicity</b>	: SureGuide pSGLenti GeCKO v2.0 Library HuEx A	No known significant effects or critical hazards.
	SureGuide pSGLenti GeCKO v2.0 Library HuEx B	No known significant effects or critical hazards.
	SureGuide pSGLenti CRISPR Control Plasmid (Human)	No known significant effects or critical hazards.
<b>Developmental effects</b>	: SureGuide pSGLenti GeCKO v2.0 Library HuEx A	No known significant effects or critical hazards.
	SureGuide pSGLenti GeCKO v2.0 Library HuEx B	No known significant effects or critical hazards.
	SureGuide pSGLenti CRISPR Control Plasmid (Human)	No known significant effects or critical hazards.
<b>Fertility effects</b>	: SureGuide pSGLenti GeCKO v2.0 Library HuEx A	No known significant effects or critical hazards.
	SureGuide pSGLenti GeCKO v2.0 Library HuEx B	No known significant effects or critical hazards.
	SureGuide pSGLenti CRISPR Control Plasmid (Human)	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.

## Section 12. Ecological information

### 12.4 Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : 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

### Regulatory information

**DOT / IMDG / IATA** : Not regulated.

## Section 15. Regulatory information

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

**U.S. Federal regulations** : **United States inventory (TSCA 8b)**: All components are listed or exempted.  
**Clean Water Act (CWA) 311**: Edetic acid

**Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)** : Not listed

**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

## Section 15. Regulatory information

### [SARA 302/304](#)

#### [Composition/information on ingredients](#)

No products were found.

**SARA 304 RQ** : Not applicable.

### [SARA 311/312](#)

**Classification** : 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.

#### [California Prop. 65](#)

No products were found.

### [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** : All components are listed or exempted.

**Canada inventory** : All components are listed or exempted.

**China** : All components are listed or exempted.

**Europe** : All components are listed or exempted.

**Japan** : **Japan inventory (ENCS)**: All components are listed or exempted.  
**Japan inventory (ISHL)**: Not determined.

**Malaysia** : Not determined.

**New Zealand** : All components are listed or exempted.

**Philippines** : All components are listed or exempted.

**Republic of Korea** : All components are listed or exempted.

**Taiwan** : All components are listed or exempted.

**Turkey** : Not determined.

## Section 16. Other information

### History

**Date of issue** : 09/14/2016  
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**Version** : 1

✔ Indicates information that has changed from previously issued version.

### Notice to reader

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