SAFETY DATA SHEET

PathDetect CREB trans Reporting System, Part Number 219010

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

1.1 Product identifier

Product name: PathDetect CREB trans Reporting System, Part Number 219010
Part No. (Kit): 219010
Part No.:
- pFR-Luc Plasmid 219050-51
- pFA2-CREB Plasmid 219067-51
- pFC2-dbd 219055-51
- pFC-PKA Plasmid 219070-51

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

<table>
<thead>
<tr>
<th>Identified uses</th>
<th>Part No. (Kit)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Analytical reagent.</td>
<td></td>
</tr>
<tr>
<td>pFR-Luc Plasmid (Reporter Plasmid)</td>
<td>219050-51</td>
</tr>
<tr>
<td>pFA2-CREB Plasmid</td>
<td>219067-51</td>
</tr>
<tr>
<td>pFC2-dbd</td>
<td>219055-51</td>
</tr>
<tr>
<td>pFC-PKA Plasmid</td>
<td>219070-51</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Product definition</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>pFR-Luc Plasmid (Reporter Plasmid)</td>
<td>Mixture</td>
</tr>
<tr>
<td>pFA2-CREB Plasmid</td>
<td>Mixture</td>
</tr>
<tr>
<td>pFC2-dbd</td>
<td>Mixture</td>
</tr>
<tr>
<td>pFC-PKA Plasmid</td>
<td>Mixture</td>
</tr>
</tbody>
</table>

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.

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SECTION 2: Hazards identification

Signal word:
- pFR-Luc Plasmid (Reporter Plasmid): No signal word.
- pFA2-CREB Plasmid: No signal word.
- pFC2-dbd: No signal word.
- pFC-PKA Plasmid: No signal word.

Hazard statements:
- pFR-Luc Plasmid (Reporter Plasmid): No known significant effects or critical hazards.
- pFA2-CREB Plasmid: No known significant effects or critical hazards.
- pFC2-dbd: No known significant effects or critical hazards.
- pFC-PKA Plasmid: No known significant effects or critical hazards.

Precautionary statements:

Prevention:
- pFR-Luc Plasmid (Reporter Plasmid): Not applicable.
- pFA2-CREB Plasmid: Not applicable.
- pFC2-dbd: Not applicable.
- pFC-PKA Plasmid: Not applicable.

Response:
- pFR-Luc Plasmid (Reporter Plasmid): Not applicable.
- pFA2-CREB Plasmid: Not applicable.
- pFC2-dbd: Not applicable.
- pFC-PKA Plasmid: Not applicable.

Storage:
- pFR-Luc Plasmid (Reporter Plasmid): Not applicable.
- pFA2-CREB Plasmid: Not applicable.
- pFC2-dbd: Not applicable.
- pFC-PKA Plasmid: Not applicable.

Disposal:
- pFR-Luc Plasmid (Reporter Plasmid): Not applicable.
- pFA2-CREB Plasmid: Not applicable.
- pFC2-dbd: Not applicable.
- pFC-PKA Plasmid: Not applicable.

Supplemental label elements:
- pFR-Luc Plasmid (Reporter Plasmid): Not applicable.
- pFA2-CREB Plasmid: Not applicable.
- pFC2-dbd: Not applicable.
- pFC-PKA Plasmid: Not applicable.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles:
- pFR-Luc Plasmid (Reporter Plasmid): Not applicable.
- pFA2-CREB Plasmid: Not applicable.
- pFC2-dbd: Not applicable.
- pFC-PKA Plasmid: Not applicable.

Special packaging requirements:

Tactile warning of danger:
- pFR-Luc Plasmid (Reporter Plasmid): Not applicable.
- pFA2-CREB Plasmid: Not applicable.
- pFC2-dbd: Not applicable.
- pFC-PKA Plasmid: Not applicable.

2.3 Other hazards

Other hazards which do not result in classification:
- pFA2-CREB Plasmid: None known.
- pFC2-dbd: None known.
- pFC-PKA Plasmid: None known.
SECTION 3: Composition/information on ingredients

3.1 Substances

- pFR-Luc Plasmid (Reporter Plasmid) Mixture
- pFA2-CREB Plasmid Mixture
- pFC2-dbd Mixture
- pFC-PKA 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
[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

- pFR-Luc Plasmid (Reporter 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.
- pFA2-CREB 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.
- pFC2-dbd 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.
- pFC-PKA 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

- pFR-Luc Plasmid (Reporter Plasmid) Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- pFA2-CREB Plasmid Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- pFC2-dbd Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- pFC-PKA Plasmid Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Skin contact

- pFR-Luc Plasmid (Reporter Plasmid) Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- pFA2-CREB Plasmid Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- pFC2-dbd Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- pFC-PKA 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

- **pFR-Luc Plasmid (Reporter 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.

- **pFA2-CREB 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.

- **pFC2-dbd**
  - 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.

- **pFC-PKA 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

- **pFR-Luc Plasmid (Reporter Plasmid)**
  - No action shall be taken involving any personal risk or without suitable training.

- **pFA2-CREB Plasmid**
  - No action shall be taken involving any personal risk or without suitable training.

- **pFC2-dbd**
  - No action shall be taken involving any personal risk or without suitable training.

- **pFC-PKA 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

- **pFR-Luc Plasmid (Reporter Plasmid)**
  - No known significant effects or critical hazards.

- **pFA2-CREB Plasmid**
  - No known significant effects or critical hazards.

- **pFC2-dbd**
  - No known significant effects or critical hazards.

- **pFC-PKA Plasmid**
  - No known significant effects or critical hazards.

#### Inhalation

- **pFR-Luc Plasmid (Reporter Plasmid)**
  - No known significant effects or critical hazards.

- **pFA2-CREB Plasmid**
  - No known significant effects or critical hazards.

- **pFC2-dbd**
  - No known significant effects or critical hazards.

- **pFC-PKA Plasmid**
  - No known significant effects or critical hazards.

#### Skin contact

- **pFR-Luc Plasmid (Reporter Plasmid)**
  - No known significant effects or critical hazards.

- **pFA2-CREB Plasmid**
  - No known significant effects or critical hazards.

- **pFC2-dbd**
  - No known significant effects or critical hazards.

- **pFC-PKA Plasmid**
  - No known significant effects or critical hazards.

#### Ingestion

- **pFR-Luc Plasmid (Reporter Plasmid)**
  - No known significant effects or critical hazards.

- **pFA2-CREB Plasmid**
  - No known significant effects or critical hazards.

- **pFC2-dbd**
  - No known significant effects or critical hazards.

- **pFC-PKA Plasmid**
  - No known significant effects or critical hazards.

**Over-exposure signs/symptoms**

**Date of issue/Date of revision**

- 31/12/2017
SECTION 4: First aid measures

<table>
<thead>
<tr>
<th>Eye contact</th>
<th>pFR-Luc Plasmid (Reporter Plasmid)</th>
<th>No specific data.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>pFA2-CREB Plasmid</td>
<td>No specific data.</td>
</tr>
<tr>
<td></td>
<td>pFC2-dbd</td>
<td>No specific data.</td>
</tr>
<tr>
<td></td>
<td>pFC-PKA Plasmid</td>
<td>No specific data.</td>
</tr>
<tr>
<td>Inhalation</td>
<td>pFR-Luc Plasmid (Reporter Plasmid)</td>
<td>No specific data.</td>
</tr>
<tr>
<td></td>
<td>pFA2-CREB Plasmid</td>
<td>No specific data.</td>
</tr>
<tr>
<td></td>
<td>pFC2-dbd</td>
<td>No specific data.</td>
</tr>
<tr>
<td></td>
<td>pFC-PKA Plasmid</td>
<td>No specific data.</td>
</tr>
<tr>
<td>Skin contact</td>
<td>pFR-Luc Plasmid (Reporter Plasmid)</td>
<td>No specific data.</td>
</tr>
<tr>
<td></td>
<td>pFA2-CREB Plasmid</td>
<td>No specific data.</td>
</tr>
<tr>
<td></td>
<td>pFC2-dbd</td>
<td>No specific data.</td>
</tr>
<tr>
<td></td>
<td>pFC-PKA Plasmid</td>
<td>No specific data.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>pFR-Luc Plasmid (Reporter Plasmid)</td>
<td>No specific data.</td>
</tr>
<tr>
<td></td>
<td>pFA2-CREB Plasmid</td>
<td>No specific data.</td>
</tr>
<tr>
<td></td>
<td>pFC2-dbd</td>
<td>No specific data.</td>
</tr>
<tr>
<td></td>
<td>pFC-PKA Plasmid</td>
<td>No specific data.</td>
</tr>
</tbody>
</table>

4.3 Indication of any immediate medical attention and special treatment needed

<table>
<thead>
<tr>
<th>Notes to physician</th>
<th>pFR-Luc Plasmid (Reporter Plasmid)</th>
<th>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>pFA2-CREB Plasmid</td>
<td>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</td>
</tr>
<tr>
<td></td>
<td>pFC2-dbd</td>
<td>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</td>
</tr>
<tr>
<td></td>
<td>pFC-PKA Plasmid</td>
<td>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</td>
</tr>
<tr>
<td></td>
<td>pFC2-dbd</td>
<td>No specific treatment.</td>
</tr>
<tr>
<td></td>
<td>pFC-PKA Plasmid</td>
<td>No specific treatment.</td>
</tr>
</tbody>
</table>

SECTION 5: Firefighting measures

5.1 Extinguishing media

<table>
<thead>
<tr>
<th>Suitable extinguishing media</th>
<th>pFR-Luc Plasmid (Reporter Plasmid)</th>
<th>Use an extinguishing agent suitable for the surrounding fire.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>pFA2-CREB Plasmid</td>
<td>Use an extinguishing agent suitable for the surrounding fire.</td>
</tr>
<tr>
<td></td>
<td>pFC2-dbd</td>
<td>Use an extinguishing agent suitable for the surrounding fire.</td>
</tr>
<tr>
<td></td>
<td>pFC-PKA Plasmid</td>
<td>Use an extinguishing agent suitable for the surrounding fire.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Unsuitable extinguishing media</th>
<th>pFR-Luc Plasmid (Reporter Plasmid)</th>
<th>None known.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>pFA2-CREB Plasmid</td>
<td>None known.</td>
</tr>
<tr>
<td></td>
<td>pFC2-dbd</td>
<td>None known.</td>
</tr>
<tr>
<td></td>
<td>pFC-PKA Plasmid</td>
<td>None known.</td>
</tr>
</tbody>
</table>

5.2 Special hazards arising from the substance or mixture

<table>
<thead>
<tr>
<th>Hazards from the substance or mixture</th>
<th>pFR-Luc Plasmid (Reporter Plasmid)</th>
<th>In a fire or if heated, a pressure increase will occur and the container may burst.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>pFA2-CREB Plasmid</td>
<td>In a fire or if heated, a pressure increase will occur and the container may burst.</td>
</tr>
<tr>
<td></td>
<td>pFC2-dbd</td>
<td>In a fire or if heated, a pressure increase will occur and the container may burst.</td>
</tr>
<tr>
<td></td>
<td>pFC-PKA Plasmid</td>
<td>In a fire or if heated, a pressure increase will occur and the container may burst.</td>
</tr>
</tbody>
</table>

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**SECTION 5: Firefighting measures**

### Hazardous combustion products
- pFR-Luc Plasmid (Reporter Plasmid): No specific data.
- pFA2-CREB Plasmid: No specific data.
- pFC2-dbd: No specific data.
- pFC-PKA Plasmid: No specific data.

**5.3 Advice for firefighters**

#### Special precautions for fire-fighters
- pFR-Luc Plasmid (Reporter 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.
- pFA2-CREB 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.
- pFC2-dbd: 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.
- pFC-PKA 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**
- pFR-Luc Plasmid (Reporter 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.
- pFA2-CREB 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.
- pFC2-dbd: 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.
- pFC-PKA 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
- pFR-Luc Plasmid (Reporter 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.
- pFA2-CREB 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.
- pFC2-dbd: 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.

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SECTION 6: Accidental release measures

For emergency responders:

- **pFR-Luc Plasmid** (Reporter 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".

- **pFA2-CREB 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".

- **pFC2-dbd**
  - 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".

- **pFC-PKA 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:

- **pFR-Luc Plasmid** (Reporter 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).

- **pFA2-CREB 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).

- **pFC2-dbd**
  - 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).

- **pFC-PKA 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:

- **pFR-Luc Plasmid** (Reporter 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.

- **pFA2-CREB 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.

- **pFC2-dbd**
  - 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.

- **pFC-PKA 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.

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SECTION 6: Accidental release measures

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**
- pFR-Luc Plasmid (Reporter Plasmid)
- pFA2-CREB Plasmid
- pFC2-dbd
- pFC-PKA Plasmid

Put on appropriate personal protective equipment (see Section 8).

**Advice on general occupational hygiene**
- pFR-Luc Plasmid (Reporter Plasmid)
- pFA2-CREB Plasmid
- pFC2-dbd
- pFC-PKA 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**
- pFR-Luc Plasmid (Reporter Plasmid)
- pFA2-CREB 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.
SECTION 7: Handling and storage

appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

pFC2-dbd
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.

pFC-PKA 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:
- pFA2-CREB Plasmid: Industrial applications, Professional applications.
- pFC2-dbd: Industrial applications, Professional applications.
- pFC-PKA Plasmid: Industrial applications, Professional applications.

Industrial sector specific solutions:
- pFR-Luc Plasmid (Reporter Plasmid): Not applicable.
- pFA2-CREB Plasmid: Not applicable.
- pFC2-dbd: Not applicable.
- pFC-PKA 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
SECTION 8: Exposure controls/personal protection

8.2 Exposure controls

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

Individual protection measures

Hand protection: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. It is recommended that you consult with a certified respiratory protection provider to determine appropriate respirator selection.

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. 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 protect the eyes from splashes, sprays, or solid particles. When working with certain materials, safety glasses with side-shields should be worn, unless the assessment indicates a higher degree of protection.

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.

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: Liquid.

<table>
<thead>
<tr>
<th>Description</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>pFR-Luc Plasmid (Reporter Plasmid)</td>
<td>Liquid.</td>
</tr>
<tr>
<td>pFA2-CREB Plasmid</td>
<td>Liquid.</td>
</tr>
<tr>
<td>pFC2-dbd</td>
<td>Liquid.</td>
</tr>
<tr>
<td>pFC-PKA Plasmid</td>
<td>Liquid.</td>
</tr>
</tbody>
</table>

Colour: Not available.

<table>
<thead>
<tr>
<th>Description</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>pFR-Luc Plasmid (Reporter Plasmid)</td>
<td>Not available.</td>
</tr>
<tr>
<td>pFA2-CREB Plasmid</td>
<td>Not available.</td>
</tr>
<tr>
<td>pFC2-dbd</td>
<td>Not available.</td>
</tr>
<tr>
<td>pFC-PKA Plasmid</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

Odour: Not available.

<table>
<thead>
<tr>
<th>Description</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>pFR-Luc Plasmid (Reporter Plasmid)</td>
<td>Not available.</td>
</tr>
<tr>
<td>pFA2-CREB Plasmid</td>
<td>Not available.</td>
</tr>
<tr>
<td>pFC2-dbd</td>
<td>Not available.</td>
</tr>
<tr>
<td>pFC-PKA Plasmid</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

Odour threshold: Not available.

<table>
<thead>
<tr>
<th>Description</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>pFR-Luc Plasmid (Reporter Plasmid)</td>
<td>Not available.</td>
</tr>
<tr>
<td>pFA2-CREB Plasmid</td>
<td>Not available.</td>
</tr>
<tr>
<td>pFC2-dbd</td>
<td>Not available.</td>
</tr>
<tr>
<td>pFC-PKA Plasmid</td>
<td>Not available.</td>
</tr>
</tbody>
</table>
### SECTION 9: Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>pFR-Luc Plasmid (Reporter Plasmid)</th>
<th>pFA2-CREB Plasmid</th>
<th>pFC2-dbd</th>
<th>pFC-PKA Plasmid</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>pH</strong></td>
<td>7.5</td>
<td>7.5</td>
<td>7.5</td>
<td>7.5</td>
</tr>
<tr>
<td><strong>Melting point/freezing point</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>pFR-Luc Plasmid (Reporter Plasmid)</td>
<td>0°C</td>
<td>0°C</td>
<td>0°C</td>
<td></td>
</tr>
<tr>
<td>pFA2-CREB Plasmid</td>
<td></td>
<td>0°C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>pFC2-dbd</td>
<td></td>
<td>0°C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>pFC-PKA Plasmid</td>
<td></td>
<td>0°C</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Initial boiling point and boiling range</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>pFR-Luc Plasmid (Reporter Plasmid)</td>
<td>100°C</td>
<td>100°C</td>
<td>100°C</td>
<td>100°C</td>
</tr>
<tr>
<td>pFA2-CREB Plasmid</td>
<td></td>
<td>100°C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>pFC2-dbd</td>
<td></td>
<td>100°C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>pFC-PKA Plasmid</td>
<td></td>
<td>100°C</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Flash point</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>pFC2-dbd</td>
<td></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>pFC-PKA Plasmid</td>
<td></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Evaporation rate</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>pFC2-dbd</td>
<td></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>pFC-PKA Plasmid</td>
<td></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Flammability (solid, gas)</strong></td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>pFR-Luc Plasmid (Reporter Plasmid)</td>
<td></td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>pFA2-CREB Plasmid</td>
<td></td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>pFC2-dbd</td>
<td></td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>pFC-PKA Plasmid</td>
<td></td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
</tr>
<tr>
<td><strong>Upper/lower flammability or explosive limits</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>pFC2-dbd</td>
<td></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>pFC-PKA Plasmid</td>
<td></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Vapour pressure</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>pFC2-dbd</td>
<td></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>pFC-PKA Plasmid</td>
<td></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Vapour density</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>pFC2-dbd</td>
<td></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>pFC-PKA Plasmid</td>
<td></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Relative density</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>pFC2-dbd</td>
<td></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>pFC-PKA Plasmid</td>
<td></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Solubility(ies)</strong></td>
<td>Easily soluble in the following materials: cold water and hot water.</td>
<td>Easily soluble in the following materials: cold water and hot water.</td>
<td>Easily soluble in the following materials: cold water and hot water.</td>
<td>Easily soluble in the following materials: cold water and hot water.</td>
</tr>
<tr>
<td>pFR-Luc Plasmid (Reporter Plasmid)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>pFA2-CREB Plasmid</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>pFC2-dbd</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>pFC-PKA Plasmid</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### SECTION 9: Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>pFR-Luc Plasmid (Reporter Plasmid)</th>
<th>pFA2-CREB Plasmid</th>
<th>pFC2-dbd</th>
<th>pFC-PKA Plasmid</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Auto-ignition temperature</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Decomposition temperature</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Viscosity</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Explosive properties</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Oxidising properties</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

9.2 Other information

No additional information.

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

<table>
<thead>
<tr>
<th>Plasmid</th>
<th>Reactivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>pFR-Luc Plasmid</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
</tr>
<tr>
<td>pFA2-CREB Plasmid</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
</tr>
<tr>
<td>pFC2-dbd</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
</tr>
<tr>
<td>pFC-PKA Plasmid</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
</tr>
</tbody>
</table>

#### 10.2 Chemical stability

<table>
<thead>
<tr>
<th>Plasmid</th>
<th>Stability</th>
</tr>
</thead>
<tbody>
<tr>
<td>pFR-Luc Plasmid</td>
<td>The product is stable.</td>
</tr>
<tr>
<td>pFA2-CREB Plasmid</td>
<td>The product is stable.</td>
</tr>
<tr>
<td>pFC2-dbd</td>
<td>The product is stable.</td>
</tr>
<tr>
<td>pFC-PKA Plasmid</td>
<td>The product is stable.</td>
</tr>
</tbody>
</table>

#### 10.3 Possibility of hazardous reactions

<table>
<thead>
<tr>
<th>Plasmid</th>
<th>Possibility of hazardous reactions</th>
</tr>
</thead>
<tbody>
<tr>
<td>pFR-Luc Plasmid</td>
<td>Under normal conditions of storage and use, hazardous reactions will not occur.</td>
</tr>
<tr>
<td>pFA2-CREB Plasmid</td>
<td>Under normal conditions of storage and use, hazardous reactions will not occur.</td>
</tr>
<tr>
<td>pFC2-dbd</td>
<td>Under normal conditions of storage and use, hazardous reactions will not occur.</td>
</tr>
<tr>
<td>pFC-PKA Plasmid</td>
<td>Under normal conditions of storage and use, hazardous reactions will not occur.</td>
</tr>
</tbody>
</table>

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SECTION 10: Stability and reactivity

10.4 Conditions to avoid

<table>
<thead>
<tr>
<th>Plasmid Type</th>
<th>Hazardous Decomposition Products</th>
</tr>
</thead>
<tbody>
<tr>
<td>pFR-Luc Plasmid (Reporter Plasmid)</td>
<td>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</td>
</tr>
<tr>
<td>pFA2-CREB Plasmid</td>
<td>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</td>
</tr>
<tr>
<td>pFC2-dbd</td>
<td>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</td>
</tr>
<tr>
<td>pFC-PKA Plasmid</td>
<td>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</td>
</tr>
</tbody>
</table>

10.5 Incompatible materials

<table>
<thead>
<tr>
<th>Plasmid Type</th>
<th>Incompatible Materials</th>
</tr>
</thead>
<tbody>
<tr>
<td>pFR-Luc Plasmid (Reporter Plasmid)</td>
<td>May react or be incompatible with oxidising materials.</td>
</tr>
<tr>
<td>pFA2-CREB Plasmid</td>
<td>May react or be incompatible with oxidising materials.</td>
</tr>
<tr>
<td>pFC2-dbd</td>
<td>May react or be incompatible with oxidising materials.</td>
</tr>
<tr>
<td>pFC-PKA Plasmid</td>
<td>May react or be incompatible with oxidising materials.</td>
</tr>
</tbody>
</table>

10.6 Hazardous decomposition products

<table>
<thead>
<tr>
<th>Plasmid Type</th>
<th>Hazardous Decomposition Products</th>
</tr>
</thead>
<tbody>
<tr>
<td>pFR-Luc Plasmid (Reporter Plasmid)</td>
<td>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</td>
</tr>
<tr>
<td>pFA2-CREB Plasmid</td>
<td>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</td>
</tr>
<tr>
<td>pFC2-dbd</td>
<td>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</td>
</tr>
<tr>
<td>pFC-PKA Plasmid</td>
<td>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</td>
</tr>
</tbody>
</table>

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

<table>
<thead>
<tr>
<th>Conclusion/Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available.</td>
</tr>
</tbody>
</table>

Acute toxicity estimates

<table>
<thead>
<tr>
<th>Conclusion/Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available.</td>
</tr>
</tbody>
</table>

Irritation/Corrosion

<table>
<thead>
<tr>
<th>Conclusion/Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available.</td>
</tr>
</tbody>
</table>

Sensitiser

<table>
<thead>
<tr>
<th>Conclusion/Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available.</td>
</tr>
</tbody>
</table>

Specific target organ toxicity (single exposure)

<table>
<thead>
<tr>
<th>Conclusion/Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available.</td>
</tr>
</tbody>
</table>

Specific target organ toxicity (repeated exposure)

<table>
<thead>
<tr>
<th>Conclusion/Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available.</td>
</tr>
</tbody>
</table>

Aspiration hazard

<table>
<thead>
<tr>
<th>Conclusion/Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available.</td>
</tr>
</tbody>
</table>

Information on likely routes of exposure

<table>
<thead>
<tr>
<th>Conclusion/Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available.</td>
</tr>
</tbody>
</table>

Potential acute health effects

<table>
<thead>
<tr>
<th>Conclusion/Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

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: 31/12/2017
SECTION 11: Toxicological information

Potential chronic health effects

Ingestion:
- pFR-Luc Plasmid (Reporter Plasmid): No known significant effects or critical hazards.
- pFA2-CREB Plasmid: No known significant effects or critical hazards.
- pFC2-dbd: No known significant effects or critical hazards.
- pFC-PKA Plasmid: No known significant effects or critical hazards.

Skin contact:
- pFR-Luc Plasmid (Reporter Plasmid): No known significant effects or critical hazards.
- pFA2-CREB Plasmid: No known significant effects or critical hazards.
- pFC2-dbd: No known significant effects or critical hazards.
- pFC-PKA Plasmid: No known significant effects or critical hazards.

Eye contact:
- pFR-Luc Plasmid (Reporter Plasmid): No known significant effects or critical hazards.
- pFA2-CREB Plasmid: No known significant effects or critical hazards.
- pFC2-dbd: No known significant effects or critical hazards.
- pFC-PKA Plasmid: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation:
- pFR-Luc Plasmid (Reporter Plasmid): No specific data.
- pFA2-CREB Plasmid: No specific data.
- pFC2-dbd: No specific data.
- pFC-PKA Plasmid: No specific data.

Ingestion:
- pFR-Luc Plasmid (Reporter Plasmid): No specific data.
- pFA2-CREB Plasmid: No specific data.
- pFC2-dbd: No specific data.
- pFC-PKA Plasmid: No specific data.

Skin contact:
- pFR-Luc Plasmid (Reporter Plasmid): No specific data.
- pFA2-CREB Plasmid: No specific data.
- pFC2-dbd: No specific data.
- pFC-PKA Plasmid: No specific data.

Eye contact:
- pFR-Luc Plasmid (Reporter Plasmid): No specific data.
- pFA2-CREB Plasmid: No specific data.
- pFC2-dbd: No specific data.
- pFC-PKA 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
- General: pFR-Luc Plasmid (Reporter Plasmid): No known significant effects or critical hazards.
- pFA2-CREB Plasmid: No known significant effects or critical hazards.
- pFC2-dbd: No known significant effects or critical hazards.
- pFC-PKA Plasmid: No known significant effects or critical hazards.

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SECTION 11: Toxicological information

**Carcinogenicity:**
- pFR-Luc Plasmid (Reporter Plasmid): No known significant effects or critical hazards.
- pFA2-CREB Plasmid: No known significant effects or critical hazards.
- pFC2-dbd: No known significant effects or critical hazards.
- pFC-PKA Plasmid: No known significant effects or critical hazards.

**Mutagenicity:**
- pFR-Luc Plasmid (Reporter Plasmid): No known significant effects or critical hazards.
- pFA2-CREB Plasmid: No known significant effects or critical hazards.
- pFC2-dbd: No known significant effects or critical hazards.
- pFC-PKA Plasmid: No known significant effects or critical hazards.

**Teratogenicity:**
- pFR-Luc Plasmid (Reporter Plasmid): No known significant effects or critical hazards.
- pFA2-CREB Plasmid: No known significant effects or critical hazards.
- pFC2-dbd: No known significant effects or critical hazards.
- pFC-PKA Plasmid: No known significant effects or critical hazards.

**Developmental effects:**
- pFR-Luc Plasmid (Reporter Plasmid): No known significant effects or critical hazards.
- pFA2-CREB Plasmid: No known significant effects or critical hazards.
- pFC2-dbd: No known significant effects or critical hazards.
- pFC-PKA Plasmid: No known significant effects or critical hazards.

**Fertility effects:**
- pFR-Luc Plasmid (Reporter Plasmid): No known significant effects or critical hazards.
- pFA2-CREB Plasmid: No known significant effects or critical hazards.
- pFC2-dbd: No known significant effects or critical hazards.
- pFC-PKA 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.
- vPvB: Not applicable.

**12.6 Other adverse effects**
- No known significant effects or critical hazards.

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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 spill material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

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

pFR-Luc Plasmid (Reporter Plasmid): Not applicable.

pFA2-CREB Plasmid: Not applicable.

pFC2-db: Not applicable.

pFC-PKA Plasmid: Not applicable.

Other EU regulations

Ozone depleting substances (1005/2009/EU)

Not listed.

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

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

International regulations

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SECTION 15: Regulatory information

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

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

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Full text of abbreviated H statements
Not applicable.

Full text of classifications [CLP/GHS]
Not applicable.

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**PathDetect CREB trans Reporting System, Part Number 219010**

**SECTION 16: Other information**

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