SAFETY DATA SHEET



PathDetect SRF cis Reporting System, Part Number 219081

Section 1. Identification

Product identifier : PathDetect SRF cis Reporting System, Part Number 219081

Part no. (chemical kit) : 219081

Part no. : pSRF-Luc Vector 219082-51

pFC-PKA Plasmid 219070-51

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

Identified uses : Analytical reagent.

 pSRF-Luc Vector
 0.05 ml (50 μg 1 μg/μl)

 pFC-PKA Plasmid
 0.2 ml (5 μg 25 ng/μl)

Supplier/Manufacturer: Agilent Technologies, Inc.

5301 Stevens Creek Blvd Santa Clara, CA 95051, USA

800-227-9770

Emergency telephone number (with hours of

operation)

: CHEMTREC®: 1-800-424-9300

Section 2. Hazard identification

Classification of the substance or mixture

Not classified.

Disposal

GHS label elements

Signal word : pSRF-Luc Vector No signal word.

pFC-PKA Plasmid No signal word.

Hazard statements: pSRF-Luc Vector No known significant effects or critical hazards.

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

Precautionary statements

Prevention : pSRF-Luc Vector Not applicable.

pFC-PKA Plasmid Not applicable.

Response: pSRF-Luc Vector Not applicable.

pFC-PKA Plasmid Not applicable.

: pSRF-Luc Vector Not applicable.

Storage : pSRF-Luc Vector Not applicable. pFC-PKA Plasmid Not applicable.

: pSRF-Luc Vector Not applicable.

pFC-PKA Plasmid Not applicable.

Supplemental label : pSRF-Luc Vector None known.
elements pFC-PKA Plasmid None known.

Other hazards which do not: pSRF-Luc VectorNone known.result in classificationpFC-PKA PlasmidNone known.

Section 3. Composition/information on ingredients

Substance/mixture : pSRF-Luc Vector 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 and hence require reporting in this section.

Section 4. First-aid measures

Description of necessary first aid measures

Eye contact: pSRF-Luc Vector 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 : pSRF-Luc Vector 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: pSRF-Luc Vector 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.

Ingestion : pSRF-Luc Vector Wash out mouth with water. 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. 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.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Inhalation

Skin contact

Eye contact : pSRF-Luc Vector No known significant effects or critical hazards. PFC-PKA Plasmid No known significant effects or critical hazards.

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

: pSRF-Luc Vector No known significant effects or critical hazards.

PORT-Luc vector No known significant effects or critical hazards.

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

: pSRF-Luc Vector No known significant effects or critical hazards.

pFC-PKA Plasmid

No known significant effects or critical hazards.

Ingestion : pSRF-Luc Vector No known significant effects or critical hazards.

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

Over-exposure signs/symptoms

Eye contact: pSRF-Luc Vector No specific data.

pFC-PKA Plasmid No specific data.

: pSRF-Luc Vector No specific data.

Inhalation : pSRF-Luc Vector No specific data.
pFC-PKA Plasmid No specific data.

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Section 4. First-aid measures

No specific data. **Skin contact** : pSRF-Luc Vector

No specific data. pFC-PKA Plasmid pSRF-Luc Vector No specific data.

pFC-PKA Plasmid No specific data.

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

Notes to physician : pSRF-Luc Vector Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

pFC-PKA Plasmid Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

Specific treatments : pSRF-Luc Vector No specific treatment.

No specific treatment. pFC-PKA Plasmid

Protection of first-aiders : pSRF-Luc Vector No action shall be taken involving any personal risk

or without suitable training.

No action shall be taken involving any personal risk pFC-PKA Plasmid

or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Ingestion

Suitable extinguishing : pSRF-Luc Vector Use an extinguishing agent suitable for the

surrounding fire.

pFC-PKA Plasmid Use an extinguishing agent suitable for the

None known.

surrounding fire.

Unsuitable extinguishing

media

media

: pSRF-Luc Vector pFC-PKA Plasmid None known.

Specific hazards arising

from the chemical

In a fire or if heated, a pressure increase will occur : pSRF-Luc Vector

and the container may burst.

In a fire or if heated, a pressure increase will occur pFC-PKA Plasmid

and the container may burst.

Hazardous thermal decomposition products

No specific data. : pSRF-Luc Vector pFC-PKA Plasmid No specific data.

Special protective actions

for fire-fighters

: pSRF-Luc Vector 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.

Promptly isolate the scene by removing all persons pFC-PKA Plasmid

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

: pSRF-Luc Vector

Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

Fire-fighters should wear appropriate protective pFC-PKA Plasmid

> equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

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Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

pFC-PKA Plasmid

: pSRF-Luc Vector

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.

No action shall be taken involving any personal risk pFC-PKA Plasmid

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.

For emergency responders : pSRF-Luc Vector

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".

Environmental precautions : pSRF-Luc Vector 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).

pFC-PKA Plasmid Avoid dispersal of spilled material and runoff and

contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways,

soil or air).

Methods and materials for containment and cleaning up

Methods for cleaning up : pSRF-Luc Vector

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.

Section 7. Handling and storage

Precautions for safe handling

Protective measures Put on appropriate personal protective equipment : pSRF-Luc Vector

(see Section 8).

pFC-PKA Plasmid Put on appropriate personal protective equipment

(see Section 8).

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Section 7. Handling and storage

Advice on general occupational hygiene : pSRF-Luc Vector

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. 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.

Eating, drinking and smoking should be prohibited in

pFC-PKA Plasmid

Conditions for safe storage, : pSRF-Luc Vector including any

incompatibilities

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

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

None.

Biological exposure indices

No exposure indices known.

Appropriate engineering controls

Environmental exposure controls

- : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- : 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

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Section 8. Exposure controls/personal protection

: Wash hands, forearms and face thoroughly after handling chemical products, before **Hygiene measures**

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.

: Safety eyewear complying with an approved standard should be used when a risk **Eye/face protection** 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.

Based on the hazard and potential for exposure, select a respirator that meets the Respiratory protection appropriate standard or certification. Respirators must be used according to a

respiratory protection program to ensure proper fitting, training, and other important

100°C (212°F)

aspects of use.

Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Odor threshold

Physical state : pSRF-Luc Vector Liquid.

pFC-PKA Plasmid Liquid.

Color : pSRF-Luc Vector Not available.

pFC-PKA Plasmid Not available. : pSRF-Luc Vector Not available.

Odor Not available. pFC-PKA Plasmid

> : pSRF-Luc Vector Not available. pFC-PKA Plasmid Not available.

7.5 pН : pSRF-Luc Vector

pFC-PKA Plasmid 7.5

0°C (32°F) **Melting point/freezing point** : pSRF-Luc Vector

pFC-PKA Plasmid 0°C (32°F) 100°C (212°F)

Boiling point, initial boiling : pSRF-Luc Vector pFC-PKA Plasmid point, and boiling range

Flash point : pSRF-Luc Vector Not available. pFC-PKA Plasmid Not available.

Evaporation rate : pSRF-Luc Vector Not available.

pFC-PKA Plasmid Not available. **Flammability** : pSRF-Luc Vector Not applicable. pFC-PKA Plasmid Not applicable.

Lower and upper explosion : pSRF-Luc Vector Not available. limit/flammability limit pFC-PKA Plasmid Not available.

Vapor pressure

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Section 9. Physical and chemical properties and safety characteristics

	Vapor Pressure at 20°C			Vapor pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
SRF-Luc Vector						
water	17.5	2.3	-	92.258	12.3	-
pFC-PKA Plasmid						
water	17.5	2.3	-	92.258	12.3	-

Relative vapor density : pSRF-Luc Vector Not available. pFC-PKA Plasmid Not available.

: pSRF-Luc Vector Not available. Relative density pFC-PKA Plasmid Not available.

Solubility(ies) : Media Result

> SRF-Luc Vector Soluble pFC-PKA Plasmid water Soluble

Partition coefficient: noctanol/water

Auto-ignition temperature

Decomposition temperature

Particle characteristics

Viscosity

Median particle size

Not applicable. : pŚRF-Luc Vector pFC-PKA Plasmid Not applicable.

: Not available.

: pSRF-Luc Vector Not available. pFC-PKA Plasmid Not available.

: pSRF-Luc Vector Not available. pFC-PKA Plasmid Not available.

: pSRF-Luc Vector Not applicable. pFC-PKA Plasmid Not applicable.

Section 10. Stability and reactivity

Reactivity : pSRF-Luc Vector No specific test data related to reactivity available for

this product or its ingredients.

pFC-PKA Plasmid No specific test data related to reactivity available for

this product or its ingredients.

Chemical stability : pSRF-Luc Vector The product is stable.

pFC-PKA Plasmid The product is stable.

Possibility of hazardous

reactions

: pSRF-Luc Vector Under normal conditions of storage and use,

hazardous reactions will not occur.

Under normal conditions of storage and use, pFC-PKA Plasmid

hazardous reactions will not occur.

Conditions to avoid : pSRF-Luc Vector No specific data.

pFC-PKA Plasmid No specific data.

Incompatible materials : pSRF-Luc Vector May react or be incompatible with oxidizing materials. pFC-PKA Plasmid May react or be incompatible with oxidizing materials.

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Section 10. Stability and reactivity

Hazardous decomposition

products

: pSRF-Luc Vector

r-Luc vector

Under normal conditions of storage and use, hazardous decomposition products should not be

produced.

pFC-PKA Plasmid

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Not available.

Irritation/Corrosion

Not available.

Sensitization

Not available.

Mutagenicity

Conclusion/Summary

: Not available.

Carcinogenicity

Conclusion/Summary

: Not available.

Reproductive toxicity

Conclusion/Summary

: Not available.

Teratogenicity

Conclusion/Summary

: Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Inhalation

Information on the likely routes of exposure

 pSRF-Luc Vector pFC-PKA Plasmid Not available. Not available.

Potential acute health effects

Eye contact : pSRF-Luc Vector

pSRF-Luc Vector No known significant effects or critical hazards. PFC-PKA Plasmid No known significant effects or critical hazards.

Inhalation : pSRF-Luc Vector

pSRF-Luc Vector No known significant effects or critical hazards. PFC-PKA Plasmid No known significant effects or critical hazards.

Skin contact : pSRF-Luc Vector

pSRF-Luc Vector No known significant effects or critical hazards. No known significant effects or critical hazards.

Ingestion: pSRF-Luc Vector 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

Eye contact : pSRF-Luc Vector No specific data.

pFC-PKA Plasmid No specific data.

: pSRF-Luc Vector No specific data.
pFC-PKA Plasmid No specific data.

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Section 11. Toxicological information

Skin contact: pSRF-Luc Vector No specific data.

pFC-PKA Plasmid No specific data. pSRF-Luc Vector No specific data.

Ingestion : pSRF-Luc Vector No specific data.
pFC-PKA Plasmid No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

General : pSRF-Luc Vector No known significant effects or critical hazards.

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

Carcinogenicity : pSRF-Luc Vector No known significant effects or critical hazards.

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

Mutagenicity: pSRF-Luc Vector No known significant effects or critical hazards.

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

: pSRF-Luc Vector No known significant effects or critical hazards.

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

Numerical measures of toxicity

Acute toxicity estimates

Reproductive toxicity

N/A

Section 12. Ecological information

Toxicity

Not available.

Persistence and degradability

Not available.

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition : Not available.

coefficient (Koc)

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

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Section 13. Disposal considerations

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.

Section 14. Transport information

TDG / IMDG / IATA : Not regulated.

Special precautions for user : Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

Transport in bulk according : Not available.

to IMO instruments

Section 15. Regulatory information

Canadian lists

Canadian NPRI : None of the components are listed. : None of the components are listed. **CEPA Toxic substances**

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

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

Canada : All components are listed or exempted. **United States** : All components are active or exempted.

Section 16. Other information

History

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Section 16. Other information

Key to abbreviations

: ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

HPR = Hazardous Products Regulations IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available UN = United Nations

Procedure used to derive the classification

Classification	Justification
Not classified.	

[✓] Indicates information that has changed from previously issued version.

Notice to reader

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