

SAFETY DATA SHEET



pFB Retroviral Vector, Part Number 217563

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

1.1 Product identifier

Product name : pFB Retroviral Vector, Part Number 217563
Part no. (chemical kit) : 217563
Part no. : pFB Retroviral Vector 217563-51
pFB-Luciferase 217561-53
Expression Control
Vector

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

Material uses : Analytical reagent.
pFB Retroviral Vector 0.01 ml (10 µg 1 µg/µl)
pFB-Luciferase Expression Control Vector 0.01 ml (10 µg 1 µg/µl)

1.3 Details of the supplier of the safety data sheet

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

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

1.4 Emergency telephone number

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : pFB Retroviral Vector Mixture
pFB-Luciferase Mixture
Expression Control
Vector

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

Not classified.

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

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

2.2 Label elements

Signal word : pFB Retroviral Vector No signal word.
pFB-Luciferase No signal word.
Expression Control
Vector

SECTION 2: Hazards identification

Hazard statements	: pFB Retroviral Vector pFB-Luciferase Expression Control Vector	No known significant effects or critical hazards. No known significant effects or critical hazards.
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Precautionary statements

Prevention	: pFB Retroviral Vector pFB-Luciferase Expression Control Vector	Not applicable. Not applicable.
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Response	: pFB Retroviral Vector pFB-Luciferase Expression Control Vector	Not applicable. Not applicable.
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Storage	: pFB Retroviral Vector pFB-Luciferase Expression Control Vector	Not applicable. Not applicable.
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Disposal	: pFB Retroviral Vector pFB-Luciferase Expression Control Vector	Not applicable. Not applicable.
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Supplemental label elements	: pFB Retroviral Vector pFB-Luciferase Expression Control Vector	Not applicable. Not applicable.
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Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: pFB Retroviral Vector pFB-Luciferase Expression Control Vector	Not applicable. Not applicable.
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Special packaging requirements

Tactile warning of danger	: pFB Retroviral Vector pFB-Luciferase Expression Control Vector	Not applicable. Not applicable.
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2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	: pFB Retroviral Vector pFB-Luciferase Expression Control Vector	This mixture does not contain any substances that are assessed to be a PBT or a vPvB. This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
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Other hazards which do not result in classification	: pFB Retroviral Vector pFB-Luciferase Expression Control Vector	None known. None known.
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SECTION 3: Composition/information on ingredients

3.1 Substances	: pFB Retroviral Vector pFB-Luciferase Expression Control Vector	Mixture Mixture
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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.

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

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	: pFB Retroviral 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.
	pFB-Luciferase Expression Control 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.
Inhalation	: pFB Retroviral Vector	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	pFB-Luciferase Expression Control Vector	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	: pFB Retroviral Vector	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	pFB-Luciferase Expression Control Vector	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: pFB Retroviral 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.
	pFB-Luciferase Expression Control 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.
Protection of first-aiders	: pFB Retroviral Vector	No action shall be taken involving any personal risk or without suitable training.
	pFB-Luciferase Expression Control Vector	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	: pFB Retroviral Vector	No known significant effects or critical hazards.
	pFB-Luciferase Expression Control Vector	No known significant effects or critical hazards.
Inhalation	: pFB Retroviral Vector	No known significant effects or critical hazards.
	pFB-Luciferase Expression Control Vector	No known significant effects or critical hazards.
Skin contact	: pFB Retroviral Vector	No known significant effects or critical hazards.
	pFB-Luciferase Expression Control Vector	No known significant effects or critical hazards.
Ingestion	: pFB Retroviral Vector	No known significant effects or critical hazards.
	pFB-Luciferase Expression Control Vector	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	: pFB Retroviral Vector	No specific data.
	pFB-Luciferase Expression Control Vector	No specific data.

pFB Retroviral Vector, Part Number 217563

SECTION 4: First aid measures

Inhalation	: pFB Retroviral Vector pFB-Luciferase Expression Control Vector	No specific data. No specific data.
Skin contact	: pFB Retroviral Vector pFB-Luciferase Expression Control Vector	No specific data. No specific data.
Ingestion	: pFB Retroviral Vector pFB-Luciferase Expression Control Vector	No specific data. No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	: pFB Retroviral Vector pFB-Luciferase Expression Control Vector	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: pFB Retroviral Vector pFB-Luciferase Expression Control Vector	No specific treatment. No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	: pFB Retroviral Vector pFB-Luciferase Expression Control Vector	Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: pFB Retroviral Vector pFB-Luciferase Expression Control Vector	None known. None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	: pFB Retroviral Vector pFB-Luciferase Expression Control Vector	In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous combustion products	: pFB Retroviral Vector pFB-Luciferase Expression Control Vector	No specific data. No specific data.

5.3 Advice for firefighters

Special precautions for fire-fighters	: pFB Retroviral Vector pFB-Luciferase Expression Control 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 from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
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SECTION 5: Firefighting measures

Special protective equipment for fire-fighters	: pFB Retroviral Vector	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.
	pFB-Luciferase Expression Control Vector	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	: pFB Retroviral 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 spilt material. Put on appropriate personal protective equipment.
	pFB-Luciferase Expression Control 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 spilt material. Put on appropriate personal protective equipment.
For emergency responders	: pFB Retroviral Vector	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".
	pFB-Luciferase Expression Control Vector	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	: pFB Retroviral Vector	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).
	pFB-Luciferase Expression Control Vector	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	: pFB Retroviral 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.
	pFB-Luciferase Expression Control 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.

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.
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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures	pFB Retroviral Vector	Put on appropriate personal protective equipment (see Section 8).
	pFB-Luciferase Expression Control Vector	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	pFB Retroviral Vector	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.
	pFB-Luciferase Expression Control Vector	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	pFB Retroviral Vector	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.
	pFB-Luciferase Expression Control Vector	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	pFB Retroviral Vector	Industrial applications, Professional applications.
	pFB-Luciferase Expression Control Vector	Industrial applications, Professional applications.
Industrial sector specific solutions	pFB Retroviral Vector	Not available.
	pFB-Luciferase Expression Control Vector	Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

No exposure limit value known.

Recommended monitoring procedures

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

DNELs/DMELs

No DNELs/DMELs available.

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls

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

Individual protection measures

Hygiene measures

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

Eye/face protection

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

Skin protection

Hand protection

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

Body protection

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

Other skin protection

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

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	: pFB Retroviral Vector	Liquid.
	pFB-Luciferase	Liquid.
	Expression Control	
	Vector	
Colour	: pFB Retroviral Vector	Not available.
	pFB-Luciferase	Not available.
	Expression Control	
	Vector	
Odour	: pFB Retroviral Vector	Not available.
	pFB-Luciferase	Not available.
	Expression Control	
	Vector	
Odour threshold	: pFB Retroviral Vector	Not available.
	pFB-Luciferase	Not available.
	Expression Control	
	Vector	
pH	: pFB Retroviral Vector	7.5
	pFB-Luciferase	7.5
	Expression Control	
	Vector	
Melting point/freezing point	: pFB Retroviral Vector	0°C
	pFB-Luciferase	0°C
	Expression Control	
	Vector	
Initial boiling point and boiling range	: pFB Retroviral Vector	100°C
	pFB-Luciferase	100°C
	Expression Control	
	Vector	
Flash point	: pFB Retroviral Vector	Not available.
	pFB-Luciferase	Not available.
	Expression Control	
	Vector	
Evaporation rate	: pFB Retroviral Vector	Not available.
	pFB-Luciferase	Not available.
	Expression Control	
	Vector	
Flammability (solid, gas)	: pFB Retroviral Vector	Not applicable.
	pFB-Luciferase	Not applicable.
	Expression Control	
	Vector	
Upper/lower flammability or explosive limits	: pFB Retroviral Vector	Not available.
	pFB-Luciferase	Not available.
	Expression Control	
	Vector	
Vapour pressure	: pFB Retroviral Vector	Not available.
	pFB-Luciferase	Not available.
	Expression Control	
	Vector	
Vapour density	: pFB Retroviral Vector	Not available.
	pFB-Luciferase	Not available.
	Expression Control	
	Vector	
Relative density	: pFB Retroviral Vector	Not available.
	pFB-Luciferase	Not available.
	Expression Control	
	Vector	

pFB Retroviral Vector, Part Number 217563

SECTION 9: Physical and chemical properties

Solubility(ies)	: pFB Retroviral Vector	Easily soluble in the following materials: cold water and hot water.
	pFB-Luciferase Expression Control Vector	Easily soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	: pFB Retroviral Vector	Not applicable.
	pFB-Luciferase Expression Control Vector	Not applicable.
Auto-ignition temperature	: pFB Retroviral Vector	Not available.
	pFB-Luciferase Expression Control Vector	Not available.
Decomposition temperature	: pFB Retroviral Vector	Not available.
	pFB-Luciferase Expression Control Vector	Not available.
Viscosity	: pFB Retroviral Vector	Not available.
	pFB-Luciferase Expression Control Vector	Not available.
Explosive properties	: pFB Retroviral Vector	Not available.
	pFB-Luciferase Expression Control Vector	Not available.
Oxidising properties	: pFB Retroviral Vector	Not available.
	pFB-Luciferase Expression Control Vector	Not available.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	: pFB Retroviral Vector	No specific test data related to reactivity available for this product or its ingredients.
	pFB-Luciferase Expression Control Vector	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: pFB Retroviral Vector	The product is stable.
	pFB-Luciferase Expression Control Vector	The product is stable.
10.3 Possibility of hazardous reactions	: pFB Retroviral Vector	Under normal conditions of storage and use, hazardous reactions will not occur.
	pFB-Luciferase Expression Control Vector	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: pFB Retroviral Vector	No specific data.
	pFB-Luciferase Expression Control Vector	No specific data.

pFB Retroviral Vector, Part Number 217563

SECTION 10: Stability and reactivity

10.5 Incompatible materials	: pFB Retroviral Vector pFB-Luciferase Expression Control Vector	May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials.
10.6 Hazardous decomposition products	: pFB Retroviral Vector pFB-Luciferase Expression Control Vector	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Not available.

Acute toxicity estimates

N/A

Irritation/Corrosion

Conclusion/Summary : Not available.

Sensitiser

Conclusion/Summary : 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.

Information on likely routes of exposure	: pFB Retroviral Vector pFB-Luciferase Expression Control Vector	Not available. Not available.
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Potential acute health effects

Inhalation	: pFB Retroviral Vector pFB-Luciferase Expression Control Vector	No known significant effects or critical hazards. No known significant effects or critical hazards.
Ingestion	: pFB Retroviral Vector pFB-Luciferase Expression Control Vector	No known significant effects or critical hazards. No known significant effects or critical hazards.

SECTION 11: Toxicological information

Skin contact	: pFB Retroviral Vector pFB-Luciferase Expression Control Vector	No known significant effects or critical hazards. No known significant effects or critical hazards.
Eye contact	: pFB Retroviral Vector pFB-Luciferase Expression Control Vector	No known significant effects or critical hazards. No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation	: pFB Retroviral Vector pFB-Luciferase Expression Control Vector	No specific data. No specific data.
Ingestion	: pFB Retroviral Vector pFB-Luciferase Expression Control Vector	No specific data. No specific data.
Skin contact	: pFB Retroviral Vector pFB-Luciferase Expression Control Vector	No specific data. No specific data.
Eye contact	: pFB Retroviral Vector pFB-Luciferase Expression Control Vector	No specific data. 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	: pFB Retroviral Vector pFB-Luciferase Expression Control Vector	No known significant effects or critical hazards. No known significant effects or critical hazards.
Carcinogenicity	: pFB Retroviral Vector pFB-Luciferase Expression Control Vector	No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	: pFB Retroviral Vector pFB-Luciferase Expression Control Vector	No known significant effects or critical hazards. No known significant effects or critical hazards.
Reproductive toxicity	: pFB Retroviral Vector pFB-Luciferase Expression Control Vector	No known significant effects or critical hazards. 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

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

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

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

Packaging

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

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

SECTION 14: Transport information

	ADR/RID	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-

pFB Retroviral Vector, Part Number 217563

SECTION 14: Transport information

14.5 Environmental hazards	No.	No.	No.
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Additional 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 IMO instruments : 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

Label	:	pFB Retroviral Vector	Not applicable.
		pFB-Luciferase Expression	Not applicable.
		Control Vector	

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

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

Australia	:	All components are listed or exempted.
Canada	:	All components are listed or exempted.
China	:	All components are listed or exempted.

SECTION 15: Regulatory information

Europe	: All components are listed or exempted.
Japan	: Japan inventory (CSCL) : All components are listed or exempted. Japan inventory (ISHL) : All components are listed or exempted.
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.
Thailand	: Not determined.
Turkey	: Not determined.
United States	: <input checked="" type="checkbox"/> All components are active or exempted.
Viet Nam	: <input checked="" type="checkbox"/> All components are listed or exempted.

15.2 Chemical safety assessment	: This product contains substances for which Chemical Safety Assessments might still be required.
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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] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement N/A = Not available PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number vPvB = Very Persistent and Very Bioaccumulative
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Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Not classified.	

Full text of abbreviated H statements

Not applicable.

Full text of classifications [CLP/GHS]

Not applicable.

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Notice to reader

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