

# SAFETY DATA SHEET



pVPack-GP Vector, Part Number 217566

## Section 1. Identification

**Product identifier** : pVPack-GP Vector, Part Number 217566  
**Part No. (Chemical Kit)** : 217566  
**Part No.** : pVPack-GP Vector 217566-51  
 pFB-Neo-LacZ Control Vector 240027-52

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

Analytical reagent.

pVPack-GP Vector 0.02 ml (20 µg 1 µg/µl)  
 pFB-Neo-LacZ Control Vector 0.01 ml (10 µg 1 µg/µl)

**Supplier/Manufacturer** : Agilent Technologies Australia Pty Ltd  
 679 Springvale Road  
 Mulgrave  
 Victoria 3170, Australia  
 1800 802 402

**Emergency telephone number (with hours of operation)** : CHEMTREC®: (61)-290372994

## Section 2. Hazard(s) identification

### Classification of the substance or mixture

Not classified.

### GHS label elements

**Signal word** : pVPack-GP Vector No signal word.  
 pFB-Neo-LacZ Control Vector No signal word.

**Hazard statements** : pVPack-GP Vector No known significant effects or critical hazards.  
 pFB-Neo-LacZ Control Vector No known significant effects or critical hazards.

**Precautionary statements**

**Prevention** : pVPack-GP Vector Not applicable.  
 pFB-Neo-LacZ Control Vector Not applicable.

**Response** : pVPack-GP Vector Not applicable.  
 pFB-Neo-LacZ Control Vector Not applicable.

**Storage** : pVPack-GP Vector Not applicable.  
 pFB-Neo-LacZ Control Vector Not applicable.

**Disposal** : pVPack-GP Vector Not applicable.  
 pFB-Neo-LacZ Control Vector Not applicable.

**Supplemental label elements** : pVPack-GP Vector Not applicable.  
 pFB-Neo-LacZ Control Vector Not applicable.

**Other hazards which do not result in classification** : pVPack-GP Vector None known.  
 pFB-Neo-LacZ Control Vector None known.

## Section 3. Composition and ingredient information

<b>Substance/mixture</b>	:	pVPack-GP Vector	Mixture
		pFB-Neo-LacZ Control Vector	Mixture

### CAS number/other identifiers

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

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

## Section 4. First aid measures

### Description of necessary first aid measures

<b>Eye contact</b>	:	pVPack-GP 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-Neo-LacZ 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.
<b>Inhalation</b>	:	pVPack-GP Vector	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
		pFB-Neo-LacZ Control Vector	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
<b>Skin contact</b>	:	pVPack-GP Vector	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
		pFB-Neo-LacZ Control Vector	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
<b>Ingestion</b>	:	pVPack-GP Vector	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.
		pFB-Neo-LacZ Control Vector	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.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

<b>Eye contact</b>	:	pVPack-GP Vector	No known significant effects or critical hazards.
		pFB-Neo-LacZ Control Vector	No known significant effects or critical hazards.
<b>Inhalation</b>	:	pVPack-GP Vector	No known significant effects or critical hazards.
		pFB-Neo-LacZ Control Vector	No known significant effects or critical hazards.
<b>Skin contact</b>	:	pVPack-GP Vector	No known significant effects or critical hazards.
		pFB-Neo-LacZ Control Vector	No known significant effects or critical hazards.

## Section 4. First aid measures

<b>Ingestion</b>	: pVPack-GP Vector pFB-Neo-LacZ Control Vector	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b><u>Over-exposure signs/symptoms</u></b>		
<b>Eye contact</b>	: pVPack-GP Vector pFB-Neo-LacZ Control Vector	No specific data. No specific data.
<b>Inhalation</b>	: pVPack-GP Vector pFB-Neo-LacZ Control Vector	No specific data. No specific data.
<b>Skin contact</b>	: pVPack-GP Vector pFB-Neo-LacZ Control Vector	No specific data. No specific data.
<b>Ingestion</b>	: pVPack-GP Vector pFB-Neo-LacZ Control Vector	No specific data. No specific data.

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

<b>Notes to physician</b>	: pVPack-GP Vector  pFB-Neo-LacZ 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.
<b>Specific treatments</b>	: pVPack-GP Vector pFB-Neo-LacZ Control Vector	No specific treatment. No specific treatment.
<b>Protection of first-aiders</b>	: pVPack-GP Vector  pFB-Neo-LacZ Control Vector	No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

## Section 5. Firefighting measures

### Extinguishing media

<b>Suitable extinguishing media</b>	: pVPack-GP Vector  pFB-Neo-LacZ Control Vector	Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	: pVPack-GP Vector pFB-Neo-LacZ Control Vector	None known. None known.
<b>Specific hazards arising from the chemical</b>	: pVPack-GP Vector  pFB-Neo-LacZ 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.
<b>Hazardous thermal decomposition products</b>	: pVPack-GP Vector pFB-Neo-LacZ Control Vector	No specific data. No specific data.

## Section 5. Firefighting measures

<b>Special protective actions for fire-fighters</b>	: pVPack-GP 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.
	pFB-Neo-LacZ 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.
<b>Special protective equipment for fire-fighters</b>	: pVPack-GP Vector	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	pFB-Neo-LacZ 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.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

<b>For non-emergency personnel</b>	: pVPack-GP 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-Neo-LacZ 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.
<b>For emergency responders</b>	: pVPack-GP 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-Neo-LacZ 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".
<b>Environmental precautions</b>	: pVPack-GP 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-Neo-LacZ 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).
<b><u>Methods and material for containment and cleaning up</u></b>		
<b>Methods for cleaning up</b>	: pVPack-GP 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-Neo-LacZ Control Vector	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble.

## Section 6. Accidental release measures

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

<b>Protective measures</b>	: pVPack-GP Vector	Put on appropriate personal protective equipment (see Section 8).
	pFB-Neo-LacZ Control Vector	Put on appropriate personal protective equipment (see Section 8).
<b>Advice on general occupational hygiene</b>	: pVPack-GP 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-Neo-LacZ 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.
<b>Conditions for safe storage, including any incompatibilities</b>	: pVPack-GP 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.
	pFB-Neo-LacZ 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.

## Section 8. Exposure controls and personal protection

### Control parameters

#### Occupational exposure limits

None.

<b>Appropriate engineering controls</b>	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
<b>Environmental exposure controls</b>	: 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 8. Exposure controls and personal protection

### Individual protection measures

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties

### Appearance

<b>Physical state</b>	:	pVPack-GP Vector	Liquid.
		pFB-Neo-LacZ Control Vector	Liquid.
<b>Colour</b>	:	pVPack-GP Vector	Not available.
		pFB-Neo-LacZ Control Vector	Not available.
<b>Odour</b>	:	pVPack-GP Vector	Not available.
		pFB-Neo-LacZ Control Vector	Not available.
<b>Odour threshold</b>	:	pVPack-GP Vector	Not available.
		pFB-Neo-LacZ Control Vector	Not available.
<b>pH</b>	:	pVPack-GP Vector	7.5
		pFB-Neo-LacZ Control Vector	7.5
<b>Melting point</b>	:	pVPack-GP Vector	0°C (32°F)
		pFB-Neo-LacZ Control Vector	0°C (32°F)
<b>Boiling point</b>	:	pVPack-GP Vector	100°C (212°F)
		pFB-Neo-LacZ Control Vector	100°C (212°F)
<b>Flash point</b>	:	pVPack-GP Vector	Not available.
		pFB-Neo-LacZ Control Vector	Not available.
<b>Evaporation rate</b>	:	pVPack-GP Vector	Not available.
		pFB-Neo-LacZ Control Vector	Not available.
<b>Flammability (solid, gas)</b>	:	pVPack-GP Vector	Not applicable.
		pFB-Neo-LacZ Control Vector	Not applicable.



## Section 9. Physical and chemical properties

<b>Lower and upper explosive (flammable) limits</b>	: pVPack-GP Vector pFB-Neo-LacZ Control Vector	Not available. Not available.
<b>Vapour pressure</b>	: pVPack-GP Vector pFB-Neo-LacZ Control Vector	Not available. Not available.
<b>Vapour density</b>	: pVPack-GP Vector pFB-Neo-LacZ Control Vector	Not available. Not available.
<b>Relative density</b>	: pVPack-GP Vector pFB-Neo-LacZ Control Vector	Not available. Not available.
<b>Solubility</b>	: pVPack-GP Vector  pFB-Neo-LacZ Control Vector	Easily soluble in the following materials: cold water and hot water. Easily soluble in the following materials: cold water and hot water.
<b>Partition coefficient: n-octanol/water</b>	: pVPack-GP Vector pFB-Neo-LacZ Control Vector	Not available. Not available.
<b>Auto-ignition temperature</b>	: pVPack-GP Vector pFB-Neo-LacZ Control Vector	Not available. Not available.
<b>Decomposition temperature</b>	: pVPack-GP Vector pFB-Neo-LacZ Control Vector	Not available. Not available.
<b>Viscosity</b>	: pVPack-GP Vector pFB-Neo-LacZ Control Vector	Not available. Not available.

## Section 10. Stability and reactivity

<b>Reactivity</b>	: pVPack-GP Vector  pFB-Neo-LacZ Control Vector	No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients.
<b>Chemical stability</b>	: pVPack-GP Vector pFB-Neo-LacZ Control Vector	The product is stable. The product is stable.
<b>Possibility of hazardous reactions</b>	: pVPack-GP Vector  pFB-Neo-LacZ Control Vector	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid</b>	: pVPack-GP Vector pFB-Neo-LacZ Control Vector	No specific data. No specific data.
<b>Incompatible materials</b>	: pVPack-GP Vector pFB-Neo-LacZ Control Vector	May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials.
<b>Hazardous decomposition products</b>	: pVPack-GP Vector  pFB-Neo-LacZ 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

### Information on toxicological effects

#### Acute toxicity

Not available.

#### Irritation/Corrosion

Not available.

#### Sensitisation

Not available.

#### Mutagenicity

Not available.

#### Carcinogenicity

Not available.

#### Reproductive toxicity

Not available.

#### Teratogenicity

Not available.

#### Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

Not available.

#### Aspiration hazard

Not available.

**Information on likely routes of exposure** : pVPack-GP Vector Not available.  
pFB-Neo-LacZ Control Vector Not available.

### Potential acute health effects

**Eye contact** : pVPack-GP Vector No known significant effects or critical hazards.  
pFB-Neo-LacZ Control Vector No known significant effects or critical hazards.

**Inhalation** : pVPack-GP Vector No known significant effects or critical hazards.  
pFB-Neo-LacZ Control Vector No known significant effects or critical hazards.

**Skin contact** : pVPack-GP Vector No known significant effects or critical hazards.  
pFB-Neo-LacZ Control Vector No known significant effects or critical hazards.

**Ingestion** : pVPack-GP Vector No known significant effects or critical hazards.  
pFB-Neo-LacZ Control Vector No known significant effects or critical hazards.

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

**Eye contact** : pVPack-GP Vector No specific data.  
pFB-Neo-LacZ Control Vector No specific data.

**Inhalation** : pVPack-GP Vector No specific data.  
pFB-Neo-LacZ Control Vector No specific data.

**Skin contact** : pVPack-GP Vector No specific data.  
pFB-Neo-LacZ Control Vector No specific data.



## Section 11. Toxicological information

<b>Ingestion</b>	: pVPack-GP Vector pFB-Neo-LacZ Control Vector	No specific data. No specific data.
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### Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### Short term exposure

<b>Potential immediate effects</b>	: Not available.
<b>Potential delayed effects</b>	: Not available.

#### Long term exposure

<b>Potential immediate effects</b>	: Not available.
<b>Potential delayed effects</b>	: Not available.

#### Potential chronic health effects

Not available.

<b>General</b>	: pVPack-GP Vector pFB-Neo-LacZ Control Vector	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Carcinogenicity</b>	: pVPack-GP Vector pFB-Neo-LacZ Control Vector	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Mutagenicity</b>	: pVPack-GP Vector pFB-Neo-LacZ Control Vector	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Teratogenicity</b>	: pVPack-GP Vector pFB-Neo-LacZ Control Vector	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Developmental effects</b>	: pVPack-GP Vector pFB-Neo-LacZ Control Vector	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Fertility effects</b>	: pVPack-GP Vector pFB-Neo-LacZ Control Vector	No known significant effects or critical hazards. No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

Not available.

## Section 12. Ecological information

### Toxicity

Not available.

### Persistence and degradability

Not available.

### Bioaccumulative potential

Not available.

### Mobility in soil

## Section 12. Ecological information

**Soil/water partition coefficient ( $K_{oc}$ )** : Not available.

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

## Section 13. Disposal considerations

**Disposal methods** : 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. 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 spilt material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

### Regulatory information

**ADG / IMDG / IATA** : Not regulated as Dangerous Goods according to the ADG Code .

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Transport in bulk according to Annex II of Marpol and the IBC Code** : Not available.

## Section 15. Regulatory information

### Standard Uniform Schedule of Medicine and Poisons

Not regulated.

### Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

**Australia inventory (AICS)** : All components are listed or exempted.

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol (Annexes A, B, C, E)

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

### International lists

#### National inventory

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

## Section 15. Regulatory information

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

## Section 16. Any other relevant information

### History

<b>Date of issue/Date of revision</b>	: 24/03/2017
<b>Date of previous issue</b>	: 30/09/2015.
<b>Version</b>	: 4

<b>Key to abbreviations</b>	: ADG = Australian Dangerous Goods ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals 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) NOHSC = National Occupational Health and Safety Commission SUSMP = Standard Uniform Schedule of Medicine and Poisons UN = United Nations
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### Procedure used to derive the classification

Classification	Justification
Not classified.	

**References** : Not available.

Indicates information that has changed from previously issued version.

### Notice to reader

**Disclaimer:** The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.