

SAFETY DATA SHEET

MegaMan Human Transcriptome Library, Part Number 790000

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

1.1 Product identifier

Product name : MegaMan Human Transcriptome Library, Part Number 790000
Part No. (Kit) : 790000
Part No. : MegaMan Library 790000-41
 Control Primer Set 790000-42

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

Identified uses	
Analytical reagent.	
MegaMan Library	0.02 ml
Control Primer Set	0.01 ml

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 : MegaMan Library Mixture
 Control Primer Set Mixture

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

Not classified.

Classification according to Directive 1999/45/EC [DPD]

MegaMan Library The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Control Primer Set The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : MegaMan Library Not classified.
 Control Primer Set Not classified.

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

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

2.2 Label elements

Signal word : MegaMan Library No signal word.
 Control Primer Set No signal word.

Hazard statements : MegaMan Library No known significant effects or critical hazards.
 Control Primer Set No known significant effects or critical hazards.

Date of issue/Date of revision : 20/07/2015

SECTION 2: Hazards identification

Precautionary statements

Prevention	: MegaMan Library	Not applicable.
	Control Primer Set	Not applicable.
Response	: MegaMan Library	Not applicable.
	Control Primer Set	Not applicable.
Storage	: MegaMan Library	Not applicable.
	Control Primer Set	Not applicable.
Disposal	: MegaMan Library	Not applicable.
	Control Primer Set	Not applicable.
Hazardous ingredients	: No hazardous ingredient	
Supplemental label elements	: MegaMan Library	Not applicable.
	Control Primer Set	Not applicable.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

Special packaging requirements

Tactile warning of danger	: MegaMan Library	Not applicable.
	Control Primer Set	Not applicable.

2.3 Other hazards

Other hazards which do not result in classification	: MegaMan Library	None known.
	Control Primer Set	None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures	: MegaMan Library	Mixture
	Control Primer Set	Mixture

Product/ingredient name

No hazardous ingredient

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 or vPvBs 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
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	: MegaMan Library	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.
	Control Primer Set	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.

SECTION 4: First aid measures

Inhalation	: MegaMan Library	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Control Primer Set	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	: MegaMan Library	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Control Primer Set	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: MegaMan Library	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.
	Control Primer Set	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	: MegaMan Library	No action shall be taken involving any personal risk or without suitable training.
	Control Primer Set	No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayedPotential acute health effects

Eye contact	: MegaMan Library	No known significant effects or critical hazards.
	Control Primer Set	No known significant effects or critical hazards.
Inhalation	: MegaMan Library	No known significant effects or critical hazards.
	Control Primer Set	No known significant effects or critical hazards.
Skin contact	: MegaMan Library	No known significant effects or critical hazards.
	Control Primer Set	No known significant effects or critical hazards.
Ingestion	: MegaMan Library	No known significant effects or critical hazards.
	Control Primer Set	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	: MegaMan Library	No specific data.
	Control Primer Set	No specific data.
Inhalation	: MegaMan Library	No specific data.
	Control Primer Set	No specific data.
Skin contact	: MegaMan Library	No specific data.
	Control Primer Set	No specific data.
Ingestion	: MegaMan Library	No specific data.
	Control Primer Set	No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	: MegaMan Library	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Control Primer Set	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: MegaMan Library	No specific treatment.
	Control Primer Set	No specific treatment.

SECTION 5: Firefighting measures**5.1 Extinguishing media**

Suitable extinguishing media	: MegaMan Library Control Primer Set	Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: MegaMan Library Control Primer Set	None known. None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	: MegaMan Library Control Primer Set	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	: MegaMan Library Control Primer Set	No specific data. No specific data.

5.3 Advice for firefighters

Special precautions for fire-fighters	: MegaMan Library Control Primer Set	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.
Special protective equipment for fire-fighters	: MegaMan Library Control Primer Set	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. 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	: MegaMan Library Control Primer Set	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. 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	: MegaMan Library Control Primer Set	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". 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".

SECTION 6: Accidental release measures

6.2 Environmental precautions	: MegaMan Library	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).
	Control Primer Set	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	: MegaMan Library	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.
	Control Primer Set	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.	

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures	: MegaMan Library	Put on appropriate personal protective equipment (see Section 8).
	Control Primer Set	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	: MegaMan Library	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.
	Control Primer Set	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	: MegaMan Library	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.
	Control Primer Set	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

SECTION 7: Handling and storage

contamination.

7.3 Specific end use(s)

Recommendations	: MegaMan Library Control Primer Set	Industrial applications, Professional applications. Industrial applications, Professional applications.
Industrial sector specific solutions	: MegaMan Library Control Primer Set	Not applicable. 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 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.

SECTION 8: Exposure controls/personal protection

- Respiratory protection** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- 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	: MegaMan Library Control Primer Set	Liquid. Liquid.
Colour	: MegaMan Library Control Primer Set	Not available. Not available.
Odour	: MegaMan Library Control Primer Set	Not available. Not available.
Odour threshold	: MegaMan Library Control Primer Set	Not available. Not available.
pH	: MegaMan Library Control Primer Set	8 7.5
Melting point/freezing point	: MegaMan Library Control Primer Set	0°C 0°C
Initial boiling point and boiling range	: MegaMan Library Control Primer Set	100°C 100°C
Flash point	: MegaMan Library Control Primer Set	Not available. Not available.
Evaporation rate	: MegaMan Library Control Primer Set	Not available. Not available.
Flammability (solid, gas)	: MegaMan Library Control Primer Set	Not applicable. Not applicable.
Upper/lower flammability or explosive limits	: MegaMan Library Control Primer Set	Not available. Not available.
Vapour pressure	: MegaMan Library Control Primer Set	Not available. Not available.
Vapour density	: MegaMan Library Control Primer Set	Not available. Not available.
Relative density	: MegaMan Library Control Primer Set	Not available. Not available.
Solubility(ies)	: MegaMan Library Control Primer Set	Easily soluble in the following materials: cold water and hot water. Easily soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	: MegaMan Library Control Primer Set	Not available. Not available.
Auto-ignition temperature	: MegaMan Library Control Primer Set	Not available. Not available.
Decomposition temperature	: MegaMan Library Control Primer Set	Not available. Not available.
Viscosity	: MegaMan Library Control Primer Set	Not available. Not available.
Explosive properties	: MegaMan Library Control Primer Set	Not available. Not available.
Oxidising properties	: MegaMan Library Control Primer Set	Not available. Not available.

SECTION 9: Physical and chemical properties**9.2 Other information**

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	: MegaMan Library Control Primer Set	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.
10.2 Chemical stability	: MegaMan Library Control Primer Set	The product is stable. The product is stable.
10.3 Possibility of hazardous reactions	: MegaMan Library Control Primer Set	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: MegaMan Library Control Primer Set	No specific data. No specific data.
10.5 Incompatible materials	: MegaMan Library Control Primer Set	May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials.
10.6 Hazardous decomposition products	: MegaMan Library Control Primer Set	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

Not available.

Irritation/Corrosion**Conclusion/Summary** : Not available.**Sensitiser****Conclusion/Summary** : Not available.**Chronic toxicity / Carcinogenicity / Mutagenicity / Teratogenicity / Reproductive toxicity**

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure : MegaMan Library
Control Primer SetNot available.
Not available.**Potential acute health effects****Inhalation** : MegaMan Library
Control Primer SetNo known significant effects or critical hazards.
No known significant effects or critical hazards.

SECTION 11: Toxicological information

Ingestion	: MegaMan Library Control Primer Set	No known significant effects or critical hazards. No known significant effects or critical hazards.
Skin contact	: MegaMan Library Control Primer Set	No known significant effects or critical hazards. No known significant effects or critical hazards.
Eye contact	: MegaMan Library Control Primer Set	No known significant effects or critical hazards. No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation	: MegaMan Library Control Primer Set	No specific data. No specific data.
Ingestion	: MegaMan Library Control Primer Set	No specific data. No specific data.
Skin contact	: MegaMan Library Control Primer Set	No specific data. No specific data.
Eye contact	: MegaMan Library Control Primer Set	No specific data. No specific data.

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

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

General	: MegaMan Library Control Primer Set	No known significant effects or critical hazards. No known significant effects or critical hazards.
Carcinogenicity	: MegaMan Library Control Primer Set	No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	: MegaMan Library Control Primer Set	No known significant effects or critical hazards. No known significant effects or critical hazards.
Teratogenicity	: MegaMan Library Control Primer Set	No known significant effects or critical hazards. No known significant effects or critical hazards.
Developmental effects	: MegaMan Library Control Primer Set	No known significant effects or critical hazards. No known significant effects or critical hazards.
Fertility effects	: MegaMan Library Control Primer Set	No known significant effects or critical hazards. No known significant effects or critical hazards.

Toxicokinetics

Absorption	: MegaMan Library Control Primer Set	Not available. Not available.
Distribution	: MegaMan Library Control Primer Set	Not available. Not available.
Metabolism	: MegaMan Library Control Primer Set	Not available. Not available.
Elimination	: MegaMan Library Control Primer Set	Not available. Not available.

Other information : Not available.

SECTION 12: Ecological information

12.1 Toxicity

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Conclusion/Summary : 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.

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 91/689/EEC.

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

Regulatory information

ADR/RID / IMDG / IATA : Not regulated.

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 73/78 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 : Not applicable.

Other EU regulations

Europe inventory : All components are listed or exempted.

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 (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Inform Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

International lists

National inventory

Australia	: All components are listed or exempted.
Canada	: All components are listed or exempted.
China	: All components are listed or exempted.
Japan	: All components are listed or exempted.
Malaysia	: Not determined.
New Zealand	: All components are listed or exempted.
Philippines	: All components are listed or exempted.
Republic of Korea	: All components are listed or exempted.
Taiwan	: All components are listed or exempted.
United States	: All components are listed or exempted.

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]

Classification	Justification
Not classified.	

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Notice to reader

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