

Safety data sheet

Issuing date: 15Sep22 **Rev.** 01 **SDS PN:** 102-691-900

Product name	1.	Product and company identification				
Product number(s) 102-407-900 This product is a kit box containing 33 reagent tubes. Subcomponent name	1.1	Product identifier				
Other means of identification This product is a kit box containing 33 reagent tubes. Subcomponent name Part # # Cap color		Product name	MAS-Seq for 10x 3' concatenation I	kit		
Subcomponent name		Product number(s)	102-407-900			
MAS PCR mix 102-692-800 2 green MAS enzyme 102-692-900 1 light green MAS ligase 102-693-000 1 yellow MAS capture primer Fevd 102-693-300 1 yellow MAS capture primer Rev 102-693-300 1 yellow MAS primers premix A 102-694-300 1 yellow MAS primers premix B 102-694-200 1 orange MAS primers premix B 102-694-200 1 orange MAS primers premix D 102-694-200 1 orange MAS primers premix D 102-694-200 1 orange MAS primers premix E 102-694-300 1 orange MAS primers premix E 102-694-400 1 orange MAS primers premix F 102-694-500 1 orange MAS primers premix H 102-694-500 1 orange MAS primers premix H 102-694-500 1 orange MAS primers premix J 102-694-500 1 orange		Other means of identification	This product is a kit box containing	33 reagent tub	es.	
MAS enzyme MAS ligase 102-693-000 1 light green MAS ligase buffer 102-693-000 1 yellow MAS ligase buffer 102-693-000 1 white MAS capture primer Fwd 102-693-300 1 yellow MAS capture primer Rev 102-693-300 1 yellow MAS capture primer Rev 102-693-900 1 yellow MAS primers premix A 102-694-000 1 orange MAS primers premix D 102-694-000 1 orange MAS primers premix D 102-694-200 1 orange MAS primers premix E 102-694-400 1 orange MAS primers premix E 102-694-400 1 orange MAS primers premix E 102-694-400 1 orange MAS primers premix H 102-694-500 1 orange MAS primers premix H 102-694-700 1 orange MAS primers premix I 102-694-800 1 orange MAS primers premix I 102-694-800 1 orange MAS primers premix I 102-694-900 1 orange MAS primers premix I 102-695-000 1 orange MAS primers premix M 102-695-000 1 orange MAS primers premix N 102-695-500 1 orange MAS primers premix N 102-695-500 1 orange MAS primers premix N 102-695-500 1 orange MAS primers premix D 102-695-500 1 orange 102-695-600 1 orange 102-695-600 1 orange 102-695-600 1 orange 102-696-000 1 orange 108-696-000 1 orange 109-696-000 1 orange 109-6			Subcomponent name	Part #	#	Cap color
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Repair buffer 102-696-100 1 purple			MAS adapter Q Rev	102-695-900	1	orange
Nuclease mix 102-696-200 1 light greet Nuclease buffer 102-696-300 1 light purple MAS ligation additive 102-696-400 1 white			DNA Repair mix	102-696-000	1	green
Nuclease buffer 102-696-300 1 light purpl MAS ligation additive 102-696-400 1 white			Repair buffer	102-696-100	1	purple
MAS ligation additive 102-696-400 1 white			Nuclease mix	102-696-200	1	light green
			Nuclease buffer	102-696-300	1	light purple
Elution buffer 102-700-900 3 red			MAS ligation additive	102-696-400	1	white
			Elution buffer	102-700-900	3	red

1.2	2 Relevant identified uses of the substance or mixture and uses advised against					
	Ide	ntified use	The MAS-Seq for 10x 3' concatenation kit generates a concatenated library from cDNA molecules generated from the 10X Chromium systems using their single cell 3' kit. The generated library contains programmed adapters that can be directly sequenced on the Sequel® II/IIe systems. This is part 1 of a bundle for the MAS-Seq for Single Cell 3' kit (102-659-600), which should sold together with MAS capture beads kit (102-428-400) and SMRTbell cleanup beads (102-158-300).			
	Restriction	ons on use	Research use only. Professional users only.			
1.3	Details of the supplier of the su	ubstance or	mixture			
	Supplier name and address		Pacific Biosciences of California, Inc. 1305 O'Brien Drive Menlo Park, CA 94025 USA https://www.pacb.com			
	Supp	olier phone	+1.650.521.8000			
1.4	Emergency telephone number					
	Within USA a		Call CHEMTREC 1-800-424-9300 (reference CCN# 656805)			
	Outside USA a	nd Canada	techsupport@pacb.com			
2.	Hazard(s) identification					
2.1	Classification of the substance	or mixture				
	The kit contains hazardous sub	stances.1 Ea	ach subcomponent is classified as follows.			
	Subcomponent name Part #		Classification			
	MAS PCR mix	102-692-80	Specific target organ toxicity - single oral exposure – central nervous system (category 2).			
	MAS enzyme	102-692-90	0 Not a hazardous material.			
	MAS ligase	102-693-00	O Acute aquatic toxicity (category 3), Chronic aquatic toxicity (category 3).			
	MAS ligase buffer	102-693-10	O Acute aquatic toxicity (category 3), Chronic aquatic toxicity (category 3).			
	MAS capture primer Fwd	102-693-30	Not a hazardous material.			
	MAS capture primer Rev	102-693-90	0 Not a hazardous material.			
	MAS primers premix A	102-694-00	0 Not a hazardous material.			
	MAS primers premix B	102-694-10	0 Not a hazardous material.			
	MAS primers premix C	102-694-20	0 Not a hazardous material.			
	MAS primers premix D	102-694-30				
	MAS primers premix E	102-694-40	0 Not a hazardous material.			
	MAS primers premix F	102-694-50	0 Not a hazardous material.			
	MAS primers premix G	102-694-60				
	MAS primers premix H	102-694-70				
	MAS primers premix I	102-694-80				
	MAS primers premix J	102-694-90	0 Not a hazardous material.			
	MAS primers premix K	102-695-00	0 Not a hazardous material.			
	MAS primers premix L	102-695-10	0 Not a hazardous material.			
	MAS primers premix M	102-695-30	Not a hazardous material.			

¹ Classification in accordance with 29CFR1910 (OSHA HCS) and UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

MAS primers premix N	102-695-500	Not a hazardous material.
MAS primers premix O	102-695-600	Not a hazardous material.
MAS primers premix P	102-695-700	Not a hazardous material.
MAS adapter A Fwd	102-695-800	Not a hazardous material.
MAS adapter Q Rev	102-695-900	Not a hazardous material.
DNA Repair mix	102-696-000	Not a hazardous material.
Repair buffer	102-696-100	Not a hazardous material.
Nuclease mix	102-696-200	Not a hazardous material.
Nuclease buffer	102-696-300	Not a hazardous material.
MAS ligation additive	102-696-400	Not a hazardous material.
Elution buffer	102-700-900	Not a hazardous material.

2.2 GHS label elements and precautionary statements

Information is provided for the hazardous components listed in section 2.1

Product	Pictogram	Signal word	Hazard statement(s)	Precautionary statement(s)
PCR mix		Warning	May cause damage to organs	 Do not breath mist, vapors, or spray. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. If exposed or concerned, get emergency medical help immediately. Dispose of contents and container in accordance with local regulations.
MAS ligase	None	None	Harmful to aquatic life. Harmful to aquatic life with long-lasting effects	 Avoid release to the environment. Dispose of contents and container in accordance with local regulations.
MAS ligase buffer	None	None	Harmful to aquatic life. Harmful to aquatic life with long-lasting effects	Avoid release to the environment. Dispose of contents and container in accordance with local regulations.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

The MAS enzyme, Nuclease mix and Nuclease buffer contains bovine derived material. Certificate of origin available upon request.

The DNA repair mix contains materials derived from e.coli.

The substances do not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission

3. Composition / information on ingredients

3.1 Substances

Common name and synonyms	MAS-Seq for 10x 3' concatenation kit
CAS number	None
Other unique identifiers	None

3.2 Hazardous components

The following hazardous ingredients are present.

Subcomponent	Hazardous ingredient(s)	CAS	GHS classification	Concentration (wt%)
MAS PCR mix	tetramethylammonium chloride	75-57-0	Acute toxicity, oral (category 2); Acute toxicity, dermal (category 3); Skin Irritation (category 3); Specific target organ toxicity – single exposure (category 1)	> 1% and < 2.5
MAS ligase	Triton™ X-100	9036-19-5	Acute toxicity, oral (category 4); Skin irritation (category 2); Serious eye damage (category 1); Acute aquatic toxicity (category 1); Chronic aquatic toxicity (category 1)	0.1%

					Acute toxicity, oral (category 4); Skin irritation			
MAS ligase buffer Triton™		Triton™ X-100		9036-19-5	(category 2); Serious eye damage (category 1); Acute aquatic toxicity (category 1); Chronic aquatic toxicity (category 1)	0.1%		
4.	First aid	measures						
4.1	Description	on of first aid n	neasures					
	Ge	eneral advice	Consult a physician. Show this safety data sheet to the physician.					
		If inhaled	If breathed	in, move pers	on into fresh air. If not breathing, give artificial re	espiration.		
	In case of	skin contact	Wash off with water.					
		f eye contact	Flush eyes with water.					
		If swallowed			outh to an unconscious person. Rinse mouth wi	th water.		
4.2		ortant symptor						
4.0					11 for additional information.			
4.2	No data a		late medica	i attention and	special treatment needed			
5.								
	<u> </u>	ting measure						
5.1		xtinguishing n						
	-	cal, carbon dic						
5.2		azards arising						
		on will produce						
5.3					ent or precautions)			
				atus for fire-fi	ghting as necessary.			
6.	Accidental release measures							
6.1	Personal precautions, protective equipment and emergency procedures							
	Avoid breathing vapors, mists, or gas. For personal protection see section 8.0.							
6.2		ental precautio		nort onillo one	d releases as required to appropriate authorities.			
6.3		and materials		eport spills and	releases as required to appropriate authorities.	·		
0.5				wine un with	paper towel (or similar), and contain in closed co	ontainers		
6.4		to other secti		, wipe up with	paper tower (or simmar), and somain in crossed or	oritainero.		
•		sal see section						
7.		and storage						
7.1	Precautio	ns for safe har	ndlina					
				good lab prac	tices, use in a well-ventilated area and wear stan	 Idard PPE		
					e general practices, follow specific practices as r			
		MAS PCR Mix: Vash skin thor			when using the product. Do not breath mist, var	ors or spray.		
7.2	Condition	s for safe stor	age, includir	ng any incomp	atibilities			
	For all components, keep containers tightly closed at the recommended storage temperature. In addition to the general practices, follow specific practices as noted.					ddition to the		
	MAS PCR Mix: Store locked up.							
8.	Exposure	controls / p	ersonal pro	otection				
8.1	Control pa	arameters						
	Contains r	no substances	es with occupational exposure limit values.					
8.2	Exposure	controls						
	Appropriate engineering controls:							

General industrial hygiene practice.	No special ventilation required for normal use.					
Personal protective equipment (PPE						
	Eye/face protection Safety glasses					
Skin and body protection	Latex or nitrile gloves; lab coat /apron					
Respiratory protection	None required					
9. Physical and chemical properties						
9.1 Information on basic physical and cl						
Appearance	Each reagent tube contains clear colorless liquid.					
Odor	No odor					
Odor threshold	No data available					
Hq	7.0-9.0					
Melting point/freezing point	No data available					
Initial boiling point and boiling range	No data available					
Flash point	No data available					
Evaporation rate	No data available					
Flammability (solid, gas)	No data available					
Upper/lower flammability or explosive limit	No data available					
Vapor pressure	No data available					
Relative density	No data available					
Solubility(ies)	No data available					
Partition coefficient: n-octonal/water	No data available					
Auto-ignition temperature	No data available					
Decomposition temperature	No data available					
Viscosity	No data available					
10. Stability and reactivity						
Reactivity	This product is not reactive under normal conditions of storage and use.					
Chemical stability	Stable under recommended storage conditions.					
Possibility of hazardous reactions	No data available					
Conditions to avoid	No data available					
Incompatible materials	Avoid contact with strong acids, bases and oxidizers.					
Hazardous decomposition products	No data available. In the event of fire see section 5.					
11. Toxicological information						
11.1 Information on likely routes of expo	sure					
The most likely route of exposure is	via skin or eye contact. Exposure via inhalation or ingestion is less likely.					
	hemical, and toxicological characteristics					
No data available						
•	chronic effects from short-and long-term exposure					
Eyes	No data available					
Skin	No data available					
Inhalation	No data available					
Ingestion	No data available					
Chronic effects	No data available					
Aggravated medical conditions	No data available					
Interactions with other chemicals	No data available					
11.4 Numerical measures of toxicity						

		Acute toxicity	No data available			
			No data available			
			No data available			
Respiratory or skin sensitization			No data available			
		Germ cell mutagenicity	No data available			
		Reproductive toxicity	No data available			
Specific target organ toxicity			No data available			
11.5	Carcinoge	enicity				
	No ingredi	ients in this product are list	red as carcinogens by ACGIH, IARC, NTP or OSHA.			
12.	Ecologica	al information				
Ecotoxicity			No data available			
	Pers	sistence and degradability	No data available			
	E	Bioaccumulative potential	No data available			
		Mobility in soil	No data available			
	Results of P	BT and vPvB assessment	None Required			
		Other adverse effects	No data available			
13.	Disposal	considerations				
Dispose all waste in accordance with			local, regional and national regulations.			
Product			See above			
Contaminated packaging			See above			
US EPA waste number			No EPA waste numbers apply. Not regulated as a US federal hazardous waste. Not regulated under Title 22 as a California hazardous waste.			
14.	Transpor	t information				
	Transportation of this product is not regulated under ICAO, IMDG or US DOT.					
15.	Regulato	tory information				
15.1	USA feder	ral regulations				
	SARA 302		erial are subject to the reporting requirements of SARA Title III, Section 302			
	SARA 313	This material does not co	ontain any chemical components with known CAS numbers that exceed the established by SARA Title III, Section 313			
SA	RA 311/312		urget organ toxicity (single exposure)			
	TSCA		ains substance(s) not listed on the TSCA inventory.			
15.2	USA state	regulations	,			
	CA Prop 65		any chemicals known to the state of California to cause cancer or adverse			
reproductive health effects						
16. Other information						
Prepared by Pacific Biosciences of California, Inc. Environment, Health and Safety 1305 O'Brien Drive Menlo Park, CA 94025 USA safety@pacb.com						
Further information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does represent any guarantee of the properties of the product. It is not a warranty or quality specification. This information relates only to the specific material designated and may not be valid for use in combination with any other material or in any other process.			information in this document is based on the present state of our ble to the product with regard to appropriate safety precautions. It does not of the properties of the product. It is not a warranty or quality specification.			

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