

Product Description

KILR® Retroparticles for Adherent Cells (Hygromycin B) contains MMLV particles, that can transduce a wide variety of adherent cells, resulting in high level expression with a housekeeping gene tagged with β -gal reporter fragment, ProLabel® (ePL). This results in a high level of expression of the fusion protein inside the target cells. Target cell death in a cytotoxicity assay results in the release of the ePL-tagged protein into the medium. Addition of KILR detection reagent, containing the complementing β -gal reporter fragment, Enzyme Acceptor (EA), results in complementation of the two enzyme fragments (EA and ePL). The resulting functional enzyme hydrolyzes a substrate to generate a chemiluminescent signal.

Product Information		
Product Name	KILR [®] Retroparticles for Adherent Cells (Hygromycin B)	
Cryovial Label	KILR [®] Retroparticles for Adherent Cells (Hygromycin B)	
Part #	97-0008	
Lot#	21J1612	
Vial Contents	0.5 mL	

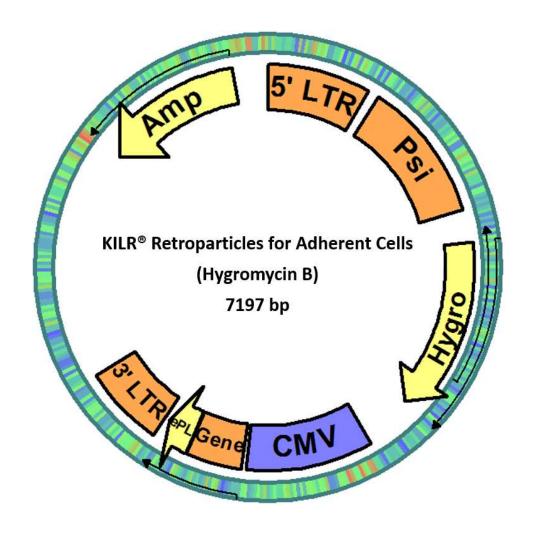
Shipping and Storage Information		
Storage Conditions	Store at -80°C. Do not freeze/thaw.	
Shipping Conditions	Dry ice.	
Expiration Date	12/28/2023	

IMPORTANT SAFETY NOTE: Replication-defective retroviral particles, such as provided in this product are not known to cause any diseases in humans or animals. However, retroviral particles can transduce, express protein and/or integrate into human cells. Accordingly, this material is in Risk Group 2 and should be handled under BSL2 controls as defined by the US Public Health Service. Please refer to the CDC Biosafety Manual: http://www.cdc.gov/biosafety/publications/bmbl5/index.htm for details.

Use and Handling	
Biosafety Level	2 (Biosafety classification is based on US Public Health Service guidelines)
Product User Manual	KILR [®] Retroparticles for Cytotoxicity Assays; part # 70-373
Single Use	For one time use only. Repeated freeze/ thaw will result in loss of activity.
Acceptable Use	Research Use Only. Not for use in Humans.



Retroparticles Vector Information				
Vector	pMLV backbone	Vector identification was confirmed by sequencing		
Viral Elements	5' and 3' LTRs	5' and 3' LTRs		
Viral Replication Status	·	Replication incompetent retroviral particles - helper virus free. Retrovirus can only infect dividing cells.		
Antibiotic Resistance	Hygromycin B	Hygromycin B Viral LTR		
Reporter	Proprietary Housekeeping Protein	CMV		
Viral Pseudotype	VSV-G envelope	Suitable for infecting all mammalian cell types		



97-0008

21J1612



Quality Control Data

Titer: The titer of viral particles was determined by plaque formation at limiting dilution on adherent cells after 7 days under selection with the appropriate antibiotic concentration. Titer (plaque forming units/mL, abbreviated pfu/mL) was calculated by multiplying the number of colonies per well by the dilution factor divided by the volume (in mL) used in the experiment. Additional details of QC tests available upon request.

Analytical QC Tests	
Viral Titer	2 x 10 ² cfu/mL
Mycoplasma	Passed
Sterility	Passed

Functional: Transduction and expression of the PK-tagged protein from these Retroparticles was functionally assessed in the indicated cells. Following transduction and antibiotic selection for at least 7 days (as indicated) the transduced cells were treated as described by addition of EA, cell lysis buffer and PathHunter® Flash Detection Reagents (DiscoverX, Cat. # 93-0247).

Functional Test	unctional Test				
Cell Line	Average RLU (-EA)	Average RLU (+EA)	S:B Ratio	Days in Selection	
U2OS	430	66270	154	7	

Si	gn	atu	res
----	----	-----	-----

Signature:			Date: 4/5/2023	
	Documented by	Rene Hoffman		
Signature:	Char Jay	Staff Scientist	Date: 04/05/2023	
J		ao-Tsung Yang, Ph.D.		

Principal Scientist Group Leader

21J1612



Product Description

KILR[®] Retroparticles for Suspension Cells (Hygromycin B) contains MMLV particles, that can transduce a wide variety of suspension cells with a housekeeping gene tagged with ProLabel[®] (ePL), a β -gal reporter fragment. This results in a high level of expression of the fusion protein inside the target cells. Target cell death in a cytotoxicity assay results in the release of the ePL-tagged protein into the medium. Addition of KILR detection reagent, containing the complementing β -gal reporter fragment, Enzyme Acceptor (EA), results in complementation of the two enzyme fragments (EA and ePL). The resulting functional enzyme hydrolyzes a substrate to generate a chemiluminescent signal.

Product Information	Product Information		
Product Name	KILR [®] Retroparticles for Suspension Cells (Hygromycin B)		
Cryovial Label	KILR [®] Retroparticles for Suspension Cells (Hygromycin B)		
Part #	97-0008		
Lot#	23A1109		
Vial Contents	1 mL		

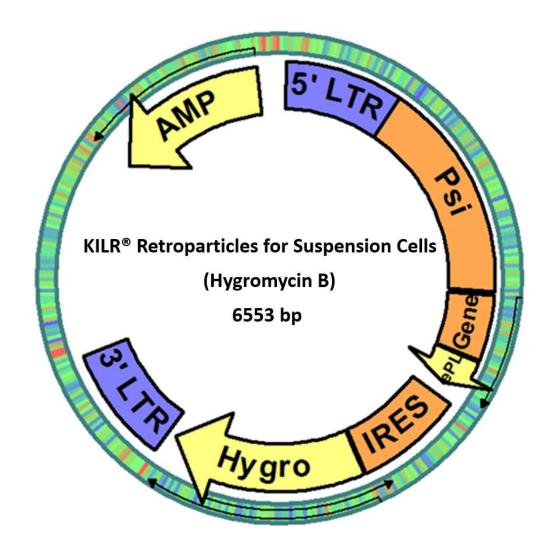
Shipping and Storage Information		
Storage Conditions	Store at -80°C. Do not freeze/thaw.	
Shipping Conditions	Dry ice.	
Expiration Date	January 11, 2025	

IMPORTANT SAFETY NOTE: Replication-defective retroviral particles, such as provided in this product are not known to cause any diseases in humans or animals. However, retroviral particles can transduce, express protein and/or integrate into human cells. Accordingly, this material is in Risk Group 2 and should be handled under BSL2 controls as defined by the US Public Health Service. Please refer to the CDC Biosafety Manual: http://www.cdc.gov/biosafety/publications/bmbl5/index.htm for details.

Use and Handling	
Biosafety Level	2 (Biosafety classification is based on US Public Health Service guidelines)
Product User Manual	KILR® Retroparticles for Cytotoxicity Assays; part # 70-373
Single Use	For one time use only. Repeated freeze/ thaw will result in loss of activity.
Acceptable Use	Research Use Only. Not for use in Humans.



Retroparticles Vector Information				
Vector	pMLV backbone	Vector identification was confirmed by sequencing		
Viral Elements	5' and 3' LTRs	5' and 3' LTRs		
Viral Replication Status	·	Replication incompetent retroviral particles - helper virus free. Retrovirus can only infect dividing cells.		
Antibiotic Resistance	Hygromycin B	Hygromycin B Viral LTR		
Reporter	Proprietary Housekeeping Protein	Hybrid murine moloney leukemia virus/murine sarcoma virus (MMLV/MSV) LTR		
Viral Pseudotype	VSV-G envelope	Suitable for infecting all mammalian cell types		





Quality Control Data

Titer: The titer of viral particles was determined by plaque formation at limiting dilution on adherent cells after 7 days under selection with the appropriate antibiotic concentration. Titer (plaque forming units/mL, abbreviated pfu/mL) was calculated by multiplying the number of colonies per well by the dilution factor divided by the volume (in mL) used in the experiment. Additional details of QC tests available upon request.

Analytical QC Tests		
Viral Titer	5X10 ² cfu/mL	
Mycoplasma	Passed	
Sterility	Passed	

Functional: Transduction and expression of the PK-tagged protein from these Retroparticles was functionally assessed in the indicated cells. Following transduction and antibiotic selection for at least 7 days (as indicated) the transduced cells were treated as described by addition of EA, cell lysis buffer and PathHunter® Flash Detection Reagents (DiscoverX, Cat. # 93-0247).

Functional Test					
Cell Line	Average RLU (-EA)	Average RLU (+EA)	S:B Ratio	Days in Selection	
Jurkat	1120	139340	124	7	

Signatures	

97-0008

Signature:	Date: 4/5/2023
Documented by Rene Hoffman	
Scientist I Signature:	Date: 04/05/2023
Approved by Chao-Tsung Yang, Ph	D

Principal Scientist Group Leader