CERTIFICATE OF ANALYSIS

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dCas9-VPR Stable Cell Line

Product Information	
Cell Line	K-562 dCas9-VPR Stable Cell Line
Parental (ATCC ID)	CCL-243
Catalog ID	HD dCas9-VPR-005
SNB ID	42343
dCas9-VPR expression promotor	CAG
Passage	11
Cryopreservation Date	March 12, 2020

Properties	
Total viable cells	> $1x10^6$
Total Volume	1 mL
Cryopreservation Medium	40% IMDM, 50% FBS, 10% DMSO
Storage Conditions	Liquid nitrogen vapour phase

Customer Support	
Technical Support	technical@horizondiscovery.com
Customer Service	orders@horizondiscovery.com

Quality Control

Test	Test Method	Result
Viability	Post bank thawing and cultivation	Pass
Sterility	Direct inoculation of Tryptic Soy and Thioglycolate Broths	Pass
Mycoplasma	Mycoplasma detection by qPCR	Pass
Characterisation	Functionality confirmed by RT-qPCR (> 100-fold activation)	Pass

Growth Conditions

Recommended Culture Medium	IMDM, 10% FBS, 1% Pen/Strep
Cell Line Revival	Rapidly thaw cells in a 37°C water bath for 2 minutes until nearly (80%) thawed. Transfer contents into a tube containing pre-warmed media. Centrifuge the cells at 300 x g for 4 minutes and remove the supernatant. Add 2 mL of appropriate cell culture medium and transfer cells to T25 flask containing 4 mL of pre-warmed cell culture medium. Place cell in a humidified 37°C incubator with 5% CO_2. Allow cells to recover for a few days until approaching 1 x10^5 cells/mL to perform cell count and viability check. (The culture should not exceed 1 x 10^6 cells/mL.) Cells may be expanded to a T75 flask using the subculturing procedures below.
Subculture	Cell lines are typically maintained at a cell density between 1 x 10^5 and 1x 10^6 viable cells/mL. Make sure the cells are evenly distributed in the medium and carefully take a small sample (e.g. 100ul) of the cells from the cell suspension and determine the total number of viable cells using a cell counter. Calculate the volume of appropriate Cell Culture Medium needed to reach a seeding density of 1 x 10^5 cells/mL. Re-seed desired number of cells into the new sterile flasks or plates containing appropriate Cell Culture Medium. Place the cells at 37 °C with 5% CO_2.
Recommended Cryopreservation Medium	40% IMDM, 50% FBS, 10% DMSO

Additional Information

For the full Technical Manual and protocols, please visit horizondiscovery.com

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