

PRODUCT INFORMATION

Cell Line	NEK1 knockout cell line	Genotype	CRISPR / Cas9-edited
Product ID	HZGHC000344c010	Parental	HAP1
Date of Manufacture	2015-08-05	Passage	7

PROPERTIES

Total Cells	1x10 ⁶
Volume / Ampoule	0.4 ml
Storage Conditions	Liquid Nitrogen vapour phase

QUALITY CONTROL

TEST	TEST METHOD	PASS/FAIL
Viability	Post thawing culture	Pass
Mycoplasma	MYCOPLASMACHECK (GATC Biotech)	Pass
Cell line Characterisation	Sanger Sequencing (DNA)	Pass

GROWTH CONDITIONS

Recommended culture media	Iscove's Modified Dulbecco's Medium (IMDM) supplemented with 10 % FCS, 100 U/ml Penicilin and 100 µg/ml Streptomycin
Subculture	Cells are cultured as a monolayer at 37°C in a humidified atmosphere with 5% CO ₂ . Cells should be passaged every 2-3 days. Split at 70-75% confluency, approximately 1:10-1:15.
Cell line revival	Rapidly thaw cells in a 37°C water bath. Transfer contents into a tube containing pre-warmed media. Centrifuge cells and seed into a 75cm ² flask containing pre-warmed media.
Recommended freezing media	IMDM + 20 % FCS + 10 % DMSO

CELL LINE CHARACTERIZATION (DNA)

Target Gene	NEK1	Mutation	2bp deletion in exon 4
Guide RNA Sequence	ATAGTAATGGATTACTGTGA	Genomic location	chr4:169599161
Target Transcript	NM_001199400		
Synonyms	NY-REN-55, SRPS2, SRPS2A		
Forward Primer	Reverse Primer	Sequencing Primer	
AAGGTGGCAGCTAATTAGAGGTA	GCCCTAATTCTTTGAGTATGGTCC	GCCCTAATTCTTTGAGTATGGTCC	

Sequencing result

CCTAATNCTTTTGGAGTATGGTCTGTTTTTGTTCAGCAGCTGCTTTTGTAGTAAGCTTTTAAGTACTTTTAATTTAGCCATGCTTTTGT
 ATGTACGTTTTAAAAGTGGACTGTAATGTTTATATTTGTAGAAAATGGCTCTCTCTACATAGTAATGGATTACTGAGGGAGGGGA
 TCTGTTTAAAGCGAATAAATGCTCAGAAAGGCGTTTTGTTTCAAGAGGATCAGGTAAGTTTGCATTTAGGAAATTGACTCTTACTCTA
 TTATTGAGAAGTAGTTCAAAATTTGTTTATGTGTGATTTGTTTTAACTACAAATGCTAATCAAAAATTACTAGGGAAGTTTAGTATN
 NC

Transcript Plot



