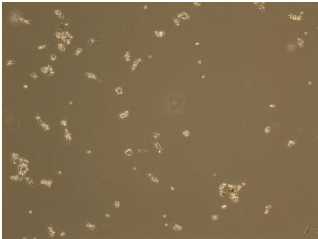
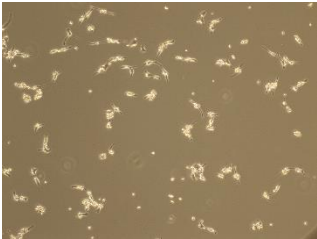
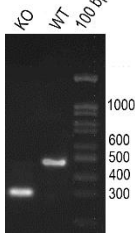


Product Information		
Cell Line	HELA SOD1 Knockout	
Parental	HELA	
Product ID	HELA-SOD1 KO 1	
Product Batch	HEL-SOD1-1-191114	
Genotype	CRISPR/cas9-edited	
Passage	P23	
Date of Production	2017-11-01	
Properties		
Volume	1 ml/vial	
Storage Conditions	Liquid Nitrogen	
Cell Number/ Vial	2.17x10 ⁶ cells/ml	
Viability	60%	
Quality Control		
Test	Test Method	Pass/Fail
Viability	Post thawing culture	Pass
Mycoplasma	MycoAlert™ Mycoplasma Detection Kit (Lonza)	Pass
Cell Line Characterization	Sanger Sequencing (DNA)	Pass
Morphology Images	10x objective	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>24h Post-Thaw</p>  </div> <div style="text-align: center;"> <p>48h Post-Thaw</p>  </div> </div>
Growth Conditions		
Culture Media	Dulbecco's Modified Eagle's Medium (DMEM) supplemented with FBS 10%, L-glutamine 2mM, Penicillin-Streptomycin 100U/ml	
Passage Method	Trypsin	
Freezing Media	FBS with 10% DMSO	
Recommended Subculture	Cells are cultured as a monolayer at 37°C in a humidified atmosphere with 5% CO ₂ . Cells should be passaged every 5-7 days. Split at 80-85% confluency, approximately 1:10-1:20.	
Cell Line Revival	Rapidly thaw cells in a 37°C water bath. Transfer contents into a tube containing 5 ml pre-warmed media. Centrifuge cells, remove supernatant wash cells with 10 ml PBS, centrifuge cells, remove PBS and seed into a 10 cm flask containing pre-warmed media.	

Cell Line Characterization (DNA)	
Target Gene	SOD1
Guide RNA Sequence	1. CCGTTGCAGTCCTCGGAACC 2. GCGCGGGGGGACGAGCGGGT
Genomic Location	Chromosome 21: 31,659,622-31,668,931 forward strand
Gene	SOD1 ENSG00000142168
Target Protein	Superoxide dismutase 1
Mutation	Deletion in exon 1 of 144bp
Forward Primer	Reverse Primer
TCCACATTTGCGGGTCTGG	GCGACCCGCTCCTAGCAA
PCR Products	
Image description: PCR products of SOD1 KO clone along with WT were resolved on 2% agarose gel	tttcggggttctggacgtttccggctgcggggcggggggagtctccggcgcac gcggccccttgccccgccccagtcattcccggccactcgcgaccgaggctg ccgagggggcgggctgagcgcgtgcgaggcgattggttggggccagagtg ggcagggcgcggaggtctggcctataaagtagtcgaggagacggggtgctggt ttcgctcgtagtcctctgcagcgtctggggtttccgttcagtcctcggacgctc tcccccgcgcaccttgctaggagcgggtcgcacatcatggttttaacctcctgaat tcggatccctcgagcgatacacacs
	
Sequence Alignment	
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