

Cell Line Details

Product code:	HEP-003-ATP7B-b		
Product name:	iPSC-derived Human Hepatocytes: CRISPR-engineered Homozygous Wilson's Disease H1069Q		
Lot number:	XXXXXX		
Storage conditions:	Store at less than -130°C		
QC completion date:	XXXXXX		
Cell Quality Controls			

Cell Quality Controls

Test	Method	Specification	Result
Virus test for original iPSC clone (HIV1, HIV2, Hepatitis A, HBV, HCV, HTLV-1, HTLV-2)	PCR	Not detected	Pass
Post thaw viability	Automated cell counter	≥ 70% viable	Pass
Viable cells per vial	Automated cell counter	≥ 5.0 x 10 ⁶	Pass
Cell morphology	Visual check	N/A	Pass (Fig.1)
Key hepatocyte maturity markers (<i>ALB, A1AT,</i> <i>HNF4a</i>)	qPCR	Present	Pass (Fig.2)
Detection of <i>ATP7B</i> via qPCR	qPCR	Present	Pass (Fig.3)
Disease confirmation	Sanger sequencing	Mutation present	Pass (Fig.4)

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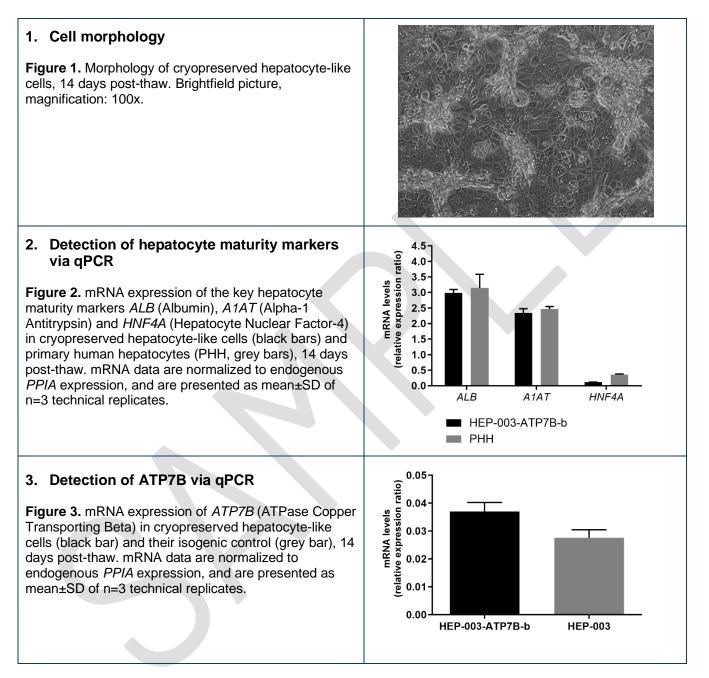
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CERTIFICATE OF ANALYSIS

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Appendix



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4. Disease confirmation via Sanger sequencing Ref seq CTGTGGTGGGGGACTGCGGAGGCCAGCAGTGAACACCCCTTGGGCGTGGCAGTCACCA HEP-003-ATP7B-b CTGTGGTGGGGACTGCGGAGGCCAGCAGTGAACAACCCTTGGGCGTGGCAGTCACCA Figure 4. Sanger sequencing showing homozygous missense mutation H1069Q (CAC>CAA) in the ATP7B gene. The codon change is highlighted in yellow. The wild type sequence (Ref Seq) is shown at the top while the mutant line at the bottom. Checked by, signature **QC** Scientist

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