

# Certificate of Analysis (CoA) for induced Pluripotent Stem Cells

*This product is for research only*



ECACC Catalogue No: 66540356

|                              |  |                                |   |
|------------------------------|--|--------------------------------|---|
| Cell Line Name               | SIGi001-A-1  | Batch Number                   | M001                                      |
| Donor ID                     | IPSC0028   |                                |   |
| Disease Association          | No disease association   | Phenotype of Donor             | Unaffected                                |
| Tissue of Origin             | Epithelium   | Sex                            | Female                                    |
| Reprogramming Method         | Integrating Retrovirus (POU5F1, KLF4, SOX2, MYC)   |                                |   |
| Passage Number               | Passage 31   | Cell number / vial             | 1.89 x 10 <sup>6</sup>                    |
| Culture Matrix               | Geltrex / Matrigel   | Culture Medium                 | mTeSR1                                    |
| O <sub>2</sub> Concentration | 21%  | CO <sub>2</sub> Concentration  | 5%  |
| Passaging Method             | EDTA   | Additional Culture Information | Use of ROCKi at first passage recommended |
| Cryopreservation Medium      | 40% FBS* / 50% medium / 10% DMSO<br>*Serum of Zone 1 origin  |                                |   |
| Recommendation for thawing   | Recommended thaw into 2 wells of a 6-well plate or per 10cm <sup>2</sup><br>Refer to cell line user protocols for further guidance at <a href="http://www.EBiSC.org">www.EBiSC.org</a> |                                |   |
| Additional Comments          | N/A  |                                |   |
| Associated Publications      | PubMed ID: N/A   |                                |   |

Please see [www.EBiSC.org](http://www.EBiSC.org) for further information on Quality Control applied to lines released by EBiSC. The following standard testing criteria have been determined within EBiSC, prior to release of this product:

| Test                      | Assay  | Acceptance Criteria            | Result   |
|---------------------------|--|--------------------------------|--|
| <b>Sterility</b>          | Inoculation for microbiological growth                 | Not Detected                   | Pass   |
|                           | qPCR for Mycoplasma                                    | Not Detected                   | Pass   |
| <b>Cell Line Identity</b> | Short Tandem Repeat analysis using PCR                 | N/A                            | Allele data recorded and available upon request. Gender match to donor |
| <b>Viability</b>          | Visual Assessment                                      | Growth to confluence post-thaw | Acceptable   |
| <b>Phenotype</b>          | Continuous visual assessment of iPSC colony morphology | Recorded                       | Typical iPSC colonies with low to medium differentiation levels        |

[www.EBiSC.eu](http://www.EBiSC.eu)



In case of queries, please contact [culturecollections.technical@phe.gov.uk](mailto:culturecollections.technical@phe.gov.uk). European Collection of Authenticated Cell Cultures (ECACC), Culture Collections, Public Health England, Tel: +44 (0) 1980 612684

# Certificate of Analysis (CoA) for induced Pluripotent Stem Cells

*This product is for research only*



ECACC Catalogue No: 66540356

| Test             | Assay          | Acceptance Criteria  | Result |
|------------------|----------------|--|--------|
| <b>Phenotype</b> | Flow Cytometry | SSEA-4 > 70% +<br>TRA-1-60 > 70% +<br>SSEA-1 < 10% +<br>POU5F1 > 70% + | Pass   |

Additional cell line characteristics have been determined by original reprogramming centres and have not been independently verified by EBISC. Historical cell line data displayed here is accurate according to data provided by depositors on 01-JUL-2016

| Test                                      | Assay  | Result  |
|---|--|---|
| <b>Sterility</b>                          | Virology (HBV, HCV, HIV1, HIV2)                                | Negative  |
| <b>Differentiation Potential</b>          | Spontaneous EB differentiation and qPCR for trilineage markers | Endoderm : detected<br>Mesoderm : detected<br>Ectoderm : detected |
| <b>Clearance of Reprogramming Factors</b> | qPCR   | Reprogramming factors silenced                                    |
| <b>Karyotype</b>                          | BoBs   | No autosomal or sex chromosome aneuploidies detected              |

| The following guidance can be found in the Instructions for Use |                                       |
|---|---------------------------------------|
| <b>Intended use</b>   | <b>Expiry Date</b>                    |
| <b>Product Format</b>   | <b>Recommended storage conditions</b> |
| <b>Volume</b>   | <b>Hazardous Information</b>          |

Approved CoA

Signature

Date

10 July 2016



In case of queries, please contact [culturecollections.technical@phe.gov.uk](mailto:culturecollections.technical@phe.gov.uk). European Collection of Authenticated Cell Cultures (ECACC), Culture Collections, Public Health England, Tel: +44 (0) 1980 612684