**Cell Line**

Cell Line:

IMMORTALIZED:

***Working cell name:***

***—------------------------------------------------------------------------------------------------------------------***

**For baseline and robust characterizations, can enter values in the tables below. Make sure to transfer the values to “cell\_line\_development” database, where each characterization type (baseline or robust) will be a separate row.**

***—------------------------------------------------------------------------------------------------------------------***

***Baseline cell characterization***

| **Characteristic** |  | **Additional notes** |
| --- | --- | --- |
| Population doubling time |  |  |
| Cumulative population doublings |  |  |
| Cell viability |  |  |
| Cell size |  |  |
| Cell culture conditions |  |  |
| Confirmation of transduction gene |  |  |
| Cell line senescence |  |  |

**Decision point:** Advance forward for robust characterization? YES or NO

Rationale:

***Robust cell characterization***

| **Characteristic** |  | **Additional notes** |
| --- | --- | --- |
| Cell line senescence |  |  |
| Tissue Induction |  |  |
| Contraction potential |  |  |
| CHP staining |  |  |
| Culture conditions |  |  |

**Decision point:** Advance forward for 3D tissue formation w/ biomaterial? YES or NO

Rationale:

**Decision point:** Advance forward for additional cell line development? YES or NO

Rationale:

***Robust cell characterization***

| **Characteristic** |  | **Additional notes** |
| --- | --- | --- |
| Population doubling time |  |  |
| Cumulative population doublings |  |  |
| Cell viability |  |  |
| Cell size |  |  |
| Cell line senescence |  |  |
| Tissue Induction |  |  |
| Contraction potential |  |  |
| CHP staining |  |  |
| Culture conditions |  |  |

***Cell line transduction/transfection:***

| **Goal / Purpose** |  |  |
| --- | --- | --- |
| **Sequence Author** |  |  |
| **Creation Date** |  |  |
| **Vector Accession Number** |  |  |
| **Working name** |  |  |
| **Link to vector design** |  |  |
| **Map image** *(Snapgene)* |  |  |
| **Cell line / Passage number** |  |  |
| **Transduction date** |  |  |
| **Virus MOI** |  |  |
| **Cell Selection** |  |  |
| **Kill curve info** |  |  |
| **Experimental outcome** |  |  |

***Note:*** SnapGene enables an easy and secure way to plan, visualize, and document everyday molecular biology procedures. With an intuitive interface, the software enables DNA sequence visualization, sequence annotation, sequence editing, cloning, protein visualization, and simulating common cloning methods.