

## Supplementary Dataset (Supplementary Tables S1 ~ S4)

### Organotypic 3D Culture in Nanoscaffold Microwells Supports Salivary Gland Stem Cell-based Organization

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### Supplementary Table S1. Primers used for RT-PCR

Gene and symbol		Primer sequences (5'-3')
Lipoprotein lipase (LPL)	F	TACAGGGCGGCCACAAGTTTT
	R	ATGGAGAGCAAAGCCCTGCTC
Fatty acid binding protein 4 (FABP4)	F	CATCAGTGTGAATGGGGATG
	R	GTGGAAGTGACGCCTTTCAT
Peroxisome proliferator activated receptor gamma 2 (PPAR $\gamma$ 2)	F	GACCACTCCCCTCCTTTGA
	R	CGACATTCAATTGCCATGAG
Runt-related transcription factor 2 (RUNX2)	F	TATGAAAAACCAAGTAGCAAGGTTC
	R	GTAATCTGACTCTGTCCTTGTGGAT
Bone gamma-carboxyglutamate(gla) protein (BGLAP)	F	GTGCAGAGTCCAGCAAAGGT
	R	CTAGCCAACCTCGTCACAGTC
Aggrecan (ACAN)	F	GCTACACCCTAAAGCCACTGCT
	R	CGTAGTGCTCCTCATGGTCATC
Collagen II (COL2)	F	TTTCCCACCTCAAGATGGTC
	R	TCACCTGGTTTTCCACCTTC
Collagen X (COL10)	F	GCCCAAGAGGTGCCCTGGAATAC
	R	CCTGAGAAAGAGGAGTGGACATAC
Glyceraldehyde 3-phosphate dehydrogenase (GAPDH)	F	ATGGGGAAGGTGAAGGTCG
	R	TAAAAGCAGCCCTGGTGACC

**Supplementary Table S2. Primers used for Real-time PCR**

<b>Gene and symbol</b>		<b>Primer sequences (5'-3')</b>
$\alpha$ -Amylase (AMY1A)	F	CATTGACATTGGCGTAGCAG
	R	CAGAATGTCAAGATGGATGC
Aquaporin 5 (AQP5)	F	CTCTGCATCTTCTCCTCCACG
	R	TCCTCTCTATGATCTTCCCAG
ZO-1 (TJP1)	F	CGGTCCTCTGAGCCTGTAAG
	R	GGATCTACATGCGACGACAA
E-Cadherin (CDH1)	F	CGCATTGCCACATACTACTCT
	R	TTGGCTGAGGATGGTGTAAG
Cytokeratin 7 (KRT7)	F	CAGGATGTGGTGGAGGAC
	R	AACTTGGCACGCTGGTTCT
Cytokeratin 18 (KRT18)	F	GGAGGCTGGAGAGCAAAATC
	R	AGTCATCAGCAGCAAGACGG
NHE1	F	GGCGGTGAGCAGATCAACAA
	R	CAAGGATGTGCAGCAGCTCA
SLC26C	F	CTGTGTGCCTCAAGAGCCTG
	R	CTCAAGCTGGCTGACCACAG
Cytokeratin 5 (CK5)	F	CCCAGTATGAGGAGATTGCCAACC
	R	TATCCAGAGGAAACACTGCTTGTG
CD24 (HSA)	F	ATGGGCAGAGCAATGGTGGCCA
	R	AGAGTGAGACC ACGAAGAGACT
CD29 (ITGB1)	F	GAAGGGTTGCCCTCCAGA
	R	GCTTGAGCTTCTCTGCTGTT
CD90 (THY1)	F	GACAGCCTGAGAGGGTCTTG
	R	CCCAGTGAAGATGCAGGTTT
Leucine-rich repeat containing G protein-coupled receptor 5 (LGR5)	F	AGGATCTGGTGGAGCTGAGAA
	R	CATAAGTGATGCTGGAGCTGGTAA
Nanog	F	CAGAAAAACAACCTGGCCGAA
	R	GGCCTGATTGTTCCAGGATT
POU5F1 (OCT4)	F	CTTGATCCTCGGACCGGCTA

	R	GGTTGCCTCTCACTCGGTTCT
Sox2	F	CAACATGATGGAGACGGAGC
	R	GTGCATCTTGGGGTTCTCCT
Beta-actin (ACTB)	F	AGCTGTGCTATGTTGCCCTG
	R	AGGAAGCAAGGCTGGAAGAG

**Supplementary Table S3. Antibodies Used in This Study (Immunofluorescence analysis)**

<b>Antibody</b>	<b>Vendor</b>	<b>Product number</b>
Amylase	Santa Cruz Biotechnology	SC-46657
Cytokeratin7	Santa Cruz Biotechnology	SC-23876
Cytokeratin18	Santa Cruz Biotechnology	sc-32329
ZO-1	Santa Cruz Biotechnology	SC-8146
E-cadherin	BD Bioscience	610181
Goat anti-mouse IgG-Alexa-488-conjugated secondary antibody	Invitrogen	A-11001
Goat anti-rabbit IgG-Alexa-555-conjugated secondary antibody	Invitrogen	A-21428

**Supplementary Table S4. Antibodies Used in This Study (Western blot analysis)**

<b>Antibody</b>	<b>Vendor</b>	<b>Product number</b>
Amylase	Santa Cruz Biotechnology	sc-46657
AQP5	Santa Cruz Biotechnology	sc-9890
Cytokeratin7	Santa Cruz Biotechnology	sc-23876
Cytokeratin18	Santa Cruz Biotechnology	sc-32329
LGR5	Santa Cruz Biotechnology	sc-68580
CD90	Abcam	ab133350
Cytokeratin 5	Abcam	ab128190
NANOG	Abcam	ab109250
OCT	Abcam	ab19857
SOX2	Abcam	ab97959
$\beta$ -actin	Santa Cruz Biotechnology	sc-47778