

**Stem Cell Properties of Human Clonal Salivary Gland Stem Cells Are Enhanced by  
Three-dimensional Priming Culture in Nanofibrous Microwells**

Running Title: Three-dimensional Priming Culture of Salivary Gland Stem Cells

Hyun-Soo Shin<sup>1</sup>, Songyi Lee<sup>1</sup>, Hye Jin Hong<sup>2</sup>, Won-Gun Koh<sup>2</sup>, Young Chang Lim<sup>3</sup>,  
Jae-Yol Lim<sup>1,\*</sup>

<sup>1</sup>Department of Otorhinolaryngology, Yonsei University College of Medicine;

<sup>2</sup>Department of Chemical and Biomolecular Engineering, Yonsei University;

<sup>3</sup>Department of Otorhinolaryngology, Head and Neck Surgery, Konkuk University School of  
Medicine; Seoul, Republic of Korea

**\*Corresponding author:** Jae-Yol Lim, MD, PhD, Department of Otorhinolaryngology,  
Gangnam Severance Hospital, Yonsei University College of Medicine, 211 Eonju-ro,  
Gangnam-gu, Seoul 06273, Republic of Korea

E-mail: jylimmd@yuhs.ac Tel: 82-2-2019-3460, Fax: 82-2-3463-4750

**Table S1. Primers used for RT-PCR.**

<b>Gene and symbol</b>		<b>Primer sequences (5'-3')</b>
<i>AMY1A</i>	F	AATTGATCTGGGTGGTGAGC
	R	CTTATTTGGCGCCATCGATG
<i>AQP5</i>	F	ACTGGGTTTTCTGGGTAGGG
	R	GTGGTCAGCTCCATGGTCTT
<i>CDH1</i>	F	CGCATTGCCACATACTCT
	R	TTGGCTGAGGATGGTGTA AG
<i>TJP</i>	F	TTTGGCCGAGGGATAGAAGT
	R	TATTGCCATCTCTTGCTGCC
<i>POU5F1</i>	F	AAGCGATCAAGCAGCGACTA
	R	GAAGTGAGGGCTCCCATAGC
<i>NANOG</i>	F	CAGAAAAACAACCTGGCCGAA
	R	GGCCTGATTGTTCCAGGATT
<i>LGR5</i>	F	AGGATCTGGTGAGCCTGAGAA
	R	CATAAGTGATGCTGGAGCTGGTAA
<i>ITGB1</i>	F	ATGGGCAGAGCAATGGTGGCCA
	R	AGAGTGAGACC ACGAAGAGACT
<i>THY1</i>	F	GACAGCCTGAGAGGGTCTTG
	R	CCCAGTGAAGATGCAGGTTT
<i>SOX2</i>	F	CAACATGATGGAGACGGAGC
	R	GTGCATCTTGGGGTTCTCCT
<i>CTNNB1</i>	F	GTGTGGAGACAGGGGCTTTT
	R	GGTGCGCAATACATCTCCAG
<i>AXIN2</i>	F	CAAGGCCAGCACATAGGAGA
	R	GCAACGCGAGTCTGTGTTTT
<i>WNT3A</i>	F	GGCCCCACTCGGATACTTCT
	R	AGGGAGGAATACTGTGGCCC
<i>WNT9A</i>	F	AAGGTGATCAAGGCTGGGGT
	R	CTCATGGAAAGGCGCCAAC
<i>ACTB</i>	F	AGCTGTGCTATGTTGCCCTG
	R	AGGAAGCAAGGCTGGAAGAG
<i>GAPDH</i>	F	ATGGGGAAGGTGAAGGTCG
	R	TAAAAGCAGCCCTGGTGACC

<i>LPL</i>	F	TACAGGGCGGCCACAAGTTT
	R	ATGGAGAGCAAAGCCCTGCTC
<i>FABP4</i>	F	CATCAGTGTGAATGGGGATG
	R	GTGGAAGTGACGCCTTTCAT
<i>PPARG2</i>	F	GACCACTCCCACTCCTTGA
	R	CGACATTCAATTGCCATGAG
<i>RUNX2</i>	F	TATGAAAAACCAAGTAGCAAGGTTT
	R	GTAATCTGACTCTGTCCCTTGTGGAT
<i>BGLAP</i>	F	GTGCAGAGTCCAGCAAAGGT
	R	CTAGCCAACCTCGTCACAGTC
<i>ACAN</i>	F	GCTACACCCTAAAGCCACTGCT
	R	CGTAGTGCTCCTCATGGTCATC
<i>COL2</i>	F	TTTCCCACCTCAAGATGGTC
	R	TCACCTGGTTTTCCACCTTC
<i>COL10</i>	F	GCCCAAGAGGTGCCCTGGAATAC
	R	CCTGAGAAAGAGGAGTGGACATAC