

Materials List for:

Co-localization of Cell Lineage Markers and the Tomato Signal

Yan Jing¹, Robert J. Hinton¹, Kevin S. Chan¹, Jian Q. Feng¹

¹Department of Biomedical Sciences, Texas A&M University College of Dentistry

Correspondence to: Yan Jing at yjing@bcd.tamhsc.edu, Jian Q. Feng at jfeng@bcd.tamhsc.edu

URL: <https://www.jove.com/video/54982>

DOI: [doi:10.3791/54982](https://doi.org/10.3791/54982)

Materials

Name	Company	Catalog Number	Comments
Tamoxifen	Sigma	T5648	activate the Cre event
Paraformaldehyde	Sigma	P6148	fix the sample
Ethylenediaminetetraacetic acid	Alfa Aesar	A10713	decalcify the hard tissue
Sucrose	Sigma	S0389	dehydrate the tissue
Hyaluronidase from bovine testes	Sigma	H4272	retrieve antigen for immunochemical staining
Bovine serum albumin	Sigma	A3059	blocking solution
primary antibody for Runx2	Cell Signal	D1L7F	primary antibody for immunochemical staining
primary antibody for DMP1	provided by Dr. Chunlin Qin		primary antibody for immunochemical staining
anti-rabbit IgG	Sigma	18140	control for immunochemical staining
secondary antibody	Invitrogen	A11008	second antibody for immunochemical staining
OCT	Tissue-Tek	4583	embed the sample for frozen section
Tween 20	Fisher Scientific	BP337	PBST
non-fluorescing antifade mountant	Life technologies	P36934	mounting slides
DAPI	Life technologies	P36931	nuclear staining
Hydrophobic Barrier Pen	Vector Laboratories		circle the section on the slide for for immunochemical staining
Xylazine	AnaSed		anesthetization
Ketaset	Zoetis		anesthetization
cryosection machine	Leica	CM1860 UV	
confocal microscope	Leica	DM6000 CFS	