Supplementary Table 1 RNAscope® workflow for mIFISH.

	mIFISH	Dual mRNA mIFISH		
De-Paraffinization				
Pre-Treatment 1	10 min at RT	10 min at RT		
Pre-Treatment 2	15 min at 98°-102°C	15 min at 98°-102°C		
Pre-Treatment 3	15 min at 40°C	15 min at 40°C		
Probe Hybridization	2hrs at 40°C	C2 probe 1:50 in C1 2h at 40°C		
Amplification 1	30 min at 40°C	30 min at 40°C		
Amplification 2	15 min at 40°C	15 min at 40°C		
Amplification 3	30 min at 40°C	30 min at 40°C		
Amplification 4	15 min at 40°C	15 min at 40°C		
Amplification 5	1h at RT	1h at RT		
Amplification 6	15 min at RT	15 min at RT		
Chromogen or	10 min at RT	C2 signal development 15 min at RT TSA 1:3000		
Immunofluorescent	15 min at RT			
signal development	TSA 1:3000			
Counterstain or continuing with		HRP-Blocker 15 min at 40°C		
antibody staining				
		Amplification 7		
		Amplification 8		
		Amplification 9		
		Amplification 10		
		C1 signal development 15 min at RT TSA 1:3000		
		continuing with antibody staining		

Supplementary Table 2 Secondary antibodies tested for mIFISH compatibility.

Antibody/Target	Species	Reactivity	Conjugate	Isotype	Clone	Cat. Log. #	Vendor	Antibody dilution
Goat anti-mouse AF647	Goat	Mouse	Alexa Fluor® 647	IgG (H+L)	polyclonal	A-21236	ThermoFisher	1:100
Donkey anti-mouse AF488	Donkey	Mouse	Alexa Fluor® 488	IgG (H+L)	polyclonal	A-21202	ThermoFisher	1:100
Donkey anti-rabbit AF488	Donkey	Rabbit	Alexa Fluor® 488	IgG (H+L	polyclonal	A-21206	ThermoFisher	1:100
Goat anti-rabbit AF647	Goat	Rabbit	Alexa Fluor® 647	IgG (H+L	polyclonal	A-21245	ThermoFisher	1:100