Chordoma Foundation Cell Line Validation

UM-Chor6

Cell Line Phenotype and Expression
Analysis Report

June 27th, 2019



Cell Line Receiving

Format Received	Date Received	Condition	Quantity	Passage	Initial Cell Count	Initial Cell Viability
Live Cells	April 10 ^{th,} 2019	Live	2x T25	18	n/a	n/a

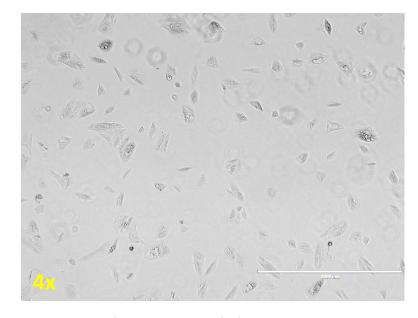
Growth Conditions

Media:

4:1 IMDM/RPMI + 20% FBS + 1X Non-Essential

Amino Acids + Pen/Strep + 1X Anti-anti

- → Passage when ~80-90% confluent
- → Change media every 2-3 days
- →Slow growing

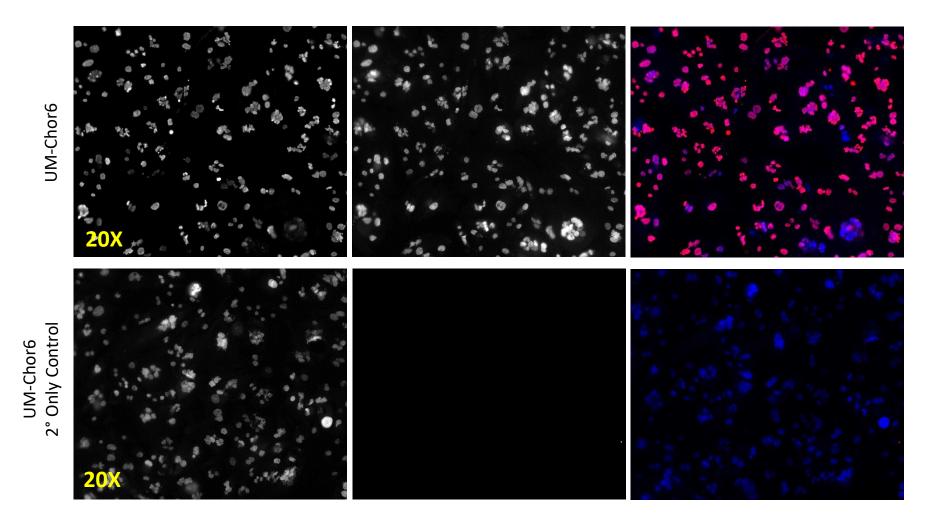


UM-Chor6 arrival, live in T25



Cell Line Immunofluorescence Validation

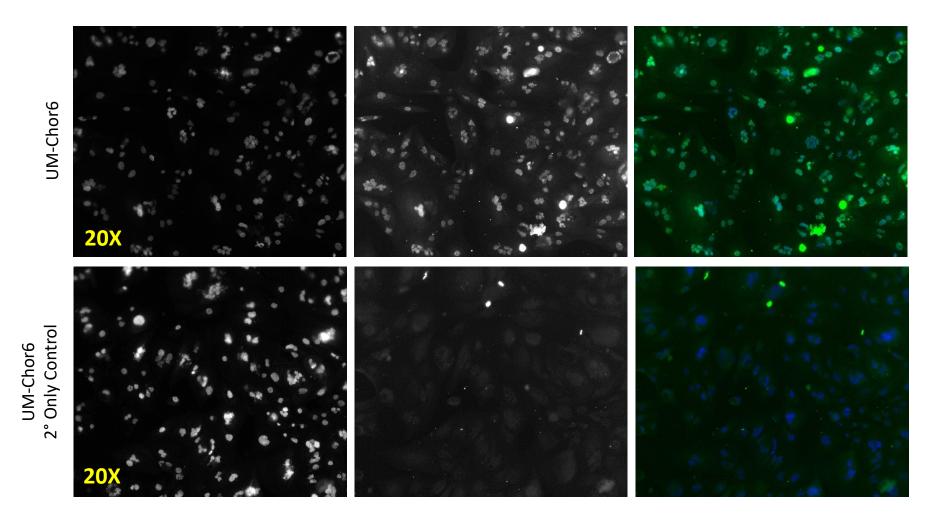
UM-Chor6 Anti-Brachyury versus Secondary-only Negative Control





Cell Line Immunofluorescence Validation

UM-Chor6 Anti-INI1 versus Secondary-only Negative Control

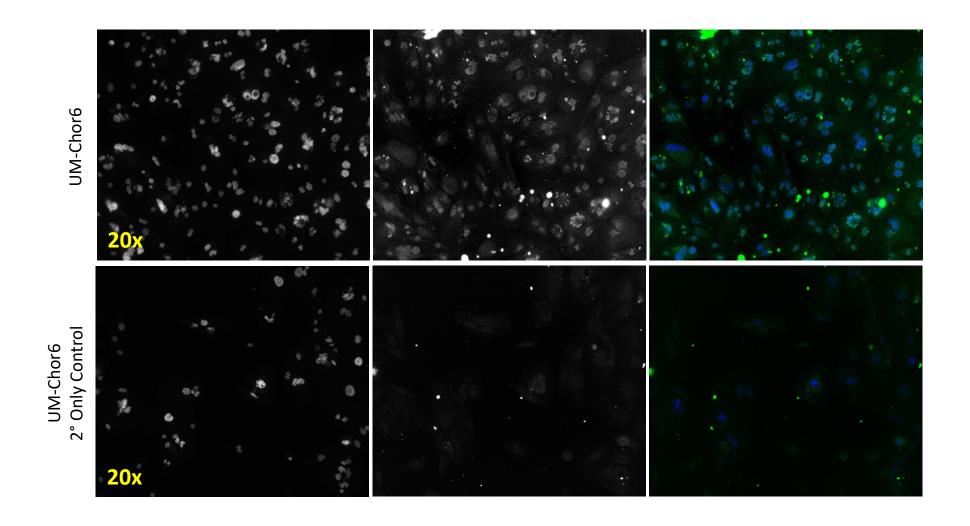


Comments: Ini1 signal is weak



Cell Line Immunofluorescence Validation

UM-Chor6 Anti-CD24 versus Secondary-only Negative Control





Cell Line PCR Validation

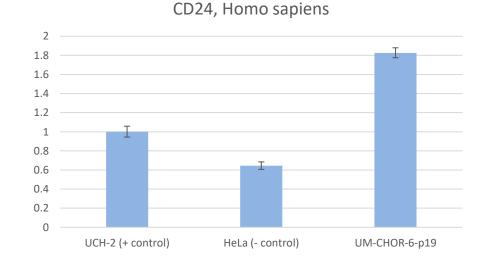
Relative quantification of Brachyury and CD24 gene in UM-Chor6 cell line

Sample	Brachyury, Homo sapiens	Neg. Error	Pos. Error
UCH-2 (+ control)	1	0.07035358	0.07567779
HeLa (- control)	0.001217467	5.4058E-05	5.657E-05
UM-Chor6	9.607192857	0.16156955	0.16433324

	Brachyan	y, Homo supiems	
12			
10			I
8			
6			
4			
2			
0	±		
	UCH-2 (+ control)	HeLa (- control)	JM-Chor6

Brachvury Homo saniens

Sample	CD24, Homo sapiens	Neg. Error	Pos. Error
UCH-2 (+ control)	1	0.05553702	0.05880275
HeLa (- control)	0.64365866	0.03854601	0.04100142
UM-CHOR-6-p19	1.8262531	0.05165074	0.05315406





Tables and associated graphs depict relative quantification of N (top table and graph) and Z (bottom table and graph) gene expression/RNA in TEST cell samples. Gene expression across all assessed lines is set relative to the positive control sample, which is set at 1. The X-axis represents cell lines assessed and the Y-axis represents gene expression relative to positive control.

Cell Line Validation Results

Results summary report of UM-Chor6

TEST	SPECIFICATION	RESULTS
Cell Growth	Immortalized	Pass
STR Analysis	Human, unique	Pass
IF Validation	Signal in nucleus	Pass
PCR Validation	Expressing Brachyury and CD24	Pass

Cell lot generated

Stock Lot#	
Cells per vial	
Lot Viability	
Passages	

Doubling time = 2 1 days

No UM-Chor6 vials were frozen to cell stocks or shipped from Vala to the Chordoma Foundation. Thus no pictures of post-thaw cells or information on cell lots generated.

