

**Annexure I**  
**Reagents Used**

	<i>Name of the reagents</i>	<i>Catalogue No.</i>
1.	Trizol	Invitrogen (15596018)
2.	Chloroform	Merck (1.94506.0521)
3.	Isopropanol	SRL (62986)
4.	DNA Taq Polymerase Kit (Reverse Transcriptase PCR)  A. Buffer B. dH <sub>2</sub> O C. Taq Polymerase	BIO-21105
5.	dNTPs	BIO-39029
6.	Primers (Forward & Reverse) (Annexure II)	IDT
7.	TAE Buffer (50X-Stock, 1X-Working)  A. Tris Base B. Glacial acetic acid C. 0.5M EDTA D. dH <sub>2</sub> O	A. SRL, 71033 B. SRL, 85801 C. SRL, 43272
8.	Ethidium Bromide (EtBr)	SRL, 17220
9.	DNA Ladder (100bp)	1. Bioline, 33030 2. Bio-Rad, 1708202 3. Bio-Bharti Life Sciences, BB- D50
10.	Real Time PCR Kit (SYBR Green Supermix)  A. dH <sub>2</sub> O B. SYBR Green Mix	Bio-Rad, 170-8885

11.	<p>PBS (Phosphate Buffer Saline)</p> <p>A. Sodium Chloride (NaCl)</p> <p>B. Potassium Chloride (KCl)</p> <p>C. Di-Sodium hydrogen phosphate anhydrous (Na<sub>2</sub>HPO<sub>4</sub>)</p> <p>D. Potassium dihydrogen phosphate (KH<sub>2</sub>HPO<sub>4</sub>)</p>	<p>A. SRL, 33204</p> <p>B. SRL, 84984</p> <p>C. SRL, 21669</p> <p>D. Merck, 7778-77-0</p>
12.	<p>Collagen Solution</p> <p>A. dH<sub>2</sub>O</p> <p>B. 10X PBS</p> <p>C. 1N NaOH</p> <p>D. Rat tail collagen (3mg/ml)</p>	<p>C. SRL-68151</p> <p>D. A10483-01</p>
13.	M199 nutrient Media	Thermofisher, 11150-059
14.	DMEM nutrient Media	Thermofisher, 11965118
15.	Fetal Bovine Serum	Invitrogen, 10270
16.	Pen-Strep	Invitrogen, 15140122
17.	Lithium Chloride (LiCl)	Sigma, 203637
18.	Mouse Recombinant Wnt3A Protein (rhWnt3A)	Abcam, ab81484
19.	Human Recombinant Asporin Protein (rhAsp)	Abcam, ab132382s
20.	Xav939	Abcam, ab120897
21.	Paraformaldehyde	Affymetrix, 19943
22.	Tween 20	Promega, H5152
23.	<p>Primary Antibodies</p> <p>A. Mf20 (1:200)</p> <p>B. Ki67 (1:400)</p> <p>C. Wt1 (1:50)</p> <p>D. C-Kit (1:50)</p>	<p>A. DSHB, ID-AB_2147781</p> <p>B. ab15580</p> <p>C. ab89901</p>

	<p>E. <math>\alpha</math>-Sma (1:400)</p> <p>F. Aspirin (1:500 for Immunostaining, 1:1000 for Western Blot)</p>	<p>D. CST, D13A2</p> <p>E. Invitrogen, 14-9760-82</p> <p>F. ab154404</p>
24.	<p>Secondary Antibodies</p> <p>A. Mouse polyclonal</p> <p>B. Rabbit Polyclonal</p> <p>C. Anti-Mouse<sup>HRP</sup></p> <p>D. Anti-Rabbit<sup>HRP</sup></p>	<p>A. Abcam, Alexafluor 488, ab150113</p> <p>B. Abcam, Alexafluor 488, ab150077</p> <p>C. Abcam, ab6721</p> <p>D. Abcam, ab6728</p>
25.	DAPI	Ab104139
26.	Phalloidin	Alexa fluore , #8953
27.	Coomassie Brilliant Blue	SRL, 64222
28.	Trypsin EDTA (0.25%)	Invitrogen, 25200072
29.	<p>Cold Binding buffer</p> <p>A. 1X PBS</p> <p>B. 2% FBS</p> <p>C. 0.02% Sodium azide</p>	C.SRL, 84070
30.	Collagenase II	Sigma, 234153
31.	<p>Osteogenic (OS) Media</p> <p>A. M199 Complete Media (M199+10% FBS+0.1% Pen-Strep)</p> <p>B. <math>\beta</math>-glycerophosphate (10mM)</p> <p>C. L-ascorbic acid (10nM)</p> <p>D. Dexamethasone (0.1 <math>\mu</math>M)</p>	B. G9422

		C. A92902 D. D4902
32.	<p>Np40 solution</p> <p>A. Tris HCl (50mM) B. NaCl (150mM) C. BSA (5mg/ml) D. NP40 [IGEPAL, NP40 supplement] (0.5%)</p>	<p>A. SRL, 89781 B. Merck (106404) C. SRL, 14438 D. Sigma, 198596</p>
33.	Alizarin Red S	Abcam, ab146374
34.	10% Acetic acid	SRL, 85801
35.	10% Ammonium hydroxide, NH <sub>4</sub> OH (Ammonia Solution)	SRL, 78719
36.	<p>RIPA (Radioimmunoprecipitation assay) buffer</p> <p>A. Tris HCl (p<sup>H</sup>=8), 50mM B. NaCl (150mM) C. 0.1% Triton-X-100 D. 0.5% Sodium Deoxycholate E. 0.1% Sodium dodecyl sulphate (SDS) F. Sodium Orthovanadate (1mM) G. Sodium fluoride, NaF (1mM)</p>	<p>A. SRL, 89781 B. Merck (106404) C. SRL, 64518 D. SRL, 96876 E. SRL, 32096 F. SRL, 86766 G. SRL, 29821</p>
37.	<p>Loading Buffer (2X Laemmli Buffer), p<sup>H</sup>=6.8</p> <p>A. 4% SDS B. 10% 2-mercaptoethanol C. 20% Glycerol D. 0.004% Bromophenol Blue E. Tris-HCl (0.125M)</p>	BioRad, 1610737

38.	Running Buffer (Tris/Glycine/SDS)  A. Tris (25mM) B. Glycine (190mM) C. 0.1% SDS	
39.	Transfer Buffer  A. Tris (25mM) B. Glycine (190mM) C. 20% Methanol	C.SRL, 65524
40.	Tris-buffered saline with Tween20 (TBST) solution  A. Tris , p <sup>H</sup> =7.5 (20mM) B. NaCl (150mM) C. 0.1 % Tween20	
41.	Blocking Buffer  A. Non-fat dry milk (10%) B. TBST	A. Bio-Rad, 170640
42.	Antibody solvent  A. BSA (5%) B. TBST	A. SRL, 14438
43.	Wash Buffer: TBST	
44.	Western ECL Substrate	BioRad, 1705060