

## ABBREVIATIONS

ALP	Alkaline phosphatase
ALT	Alanine aminotransferase
AST	Aspartate aminotransferase
APS	Ammonium persulphate
BCIP	5-bromo-4-chloro-3-indolyl phosphate
BLAST	Basic local alignment search tool
BMP	Bone Morphogenetic Proteins
BSA	Bovine Serum Albumin
bp	Base pairs
BPB	Bromophenol blue
CAM	Chorioallantoic Membrane
Caspase	Cysteine-dependent aspartate-directed protease
CBB	Coommassie brilliant blue
cDNA	Complimentary deoxyribose nucleic acid
CCSEA	Committee for Control and Supervision of Experiments on Animals
Cq	Quantification cycles
cumm	cubic millimetre
DAPI	4',6-diamidino-2-phenylindole
DCFDA	2', 7'-dichlorofluorescein diacetate
DPX	Dibutylphthalate Polystyrene Xylene
DTNP	5,5-dithio-bis-(2-nitrobenzoic acid)
EDTA	Ethylenediaminetetraacetic acid
FAO	Food and Agriculture Organization
FGF	Fibroblast growth factor
g	gram
GAPDH	Glyceraldehyde 3-phosphate dehydrogenase
GSCC	German Society for Clinical Chemistry
GSH	Reduced glutathione
H&E	Hematoxylin and eosin
H <sub>2</sub> O <sub>2</sub>	Hydrogen peroxide

HAI	Hepatic Alteration Index
HCl	Hydrochloric acid
hr	hour/(s)
IAEC	Institutional Animal Ethics Committee
IFCC	International Federation of Clinical Chemistry and Laboratory Medicine
KOH	Potassium hydroxide
LD <sub>50</sub>	Lethal dosage 50
LPM	Lateral plate mesoderm
µg	Microgram
µL	Microliter
µM	Micromolar
mA	Milliampere
mg	Milligram
mL	Milliliter
min	minute
mM	Millimolar
mRNA	Messenger RNA
NaCl	Sodium chloride
Na <sub>2</sub> HPO <sub>4</sub>	Disodium phosphate
NBF	Neutral buffered formalin
NCBI	National Centre for Biotechnology Information
OCT	Optimal Cutting Temperature
PAGE	Polyacrylamide gel electrophoresis
PAX6	Paired Box Protein
PBS	Phosphate Buffered Saline
PBST	PBS- Triton
PCNA	Proliferating Cell Nuclear Antigen
PCR	Polymerase chain reaction
PDB	Protein Data Bank
PFA	Paraformaldehyde
PVDF	Polyvinylidene difluoride
qRT-PCR	Quantitative real-time PCR
RBC	Red blood cells

RIR	Rhode Island Red
RNA	Ribo nucleic acid
ROS	Reactive oxygen species
rpm	Rotation per minute
qRT-PCR	quantitative reverse transcription-polymerase chain reaction
RT-PCR	Reverse Transcription Polymerase Chain Reaction
SDS-PAGE	Sodium Dodecyl Sulphate-Polyacrylamide Gel Electrophoresis
SHH	Sonic hedgehog
TBE	Tris-borate-EDTA
TBS	Tris buffered saline
TBST	Tris-buffered saline triton X-100
TEMED	N,N,N',N' -Tetramethylethylenediamine
Tris	Tris (hydroxymethyl) aminomethane
v/v	Volume/volume
VEGF	Vascular endothelial growth factor
WBC	White blood cells
WNT	Wingless-related integration site
°C	Degree centigrade
w/v	Weight/volume