

APPENDIX A: ABBREVIATIONS

aa	amino acid
amp	ampicillin
approx	approximately
A/P	anterior-posterior
APS	ammonium persulphate
ATP	adenosine triphosphate
bp	base pair
°C	degree(s) Celsius
cDNA	complementary deoxyribonucleic acid
cfu	colony forming units
Ci	Curie(s)
cm	centimeter
CNS	central nervous system
cpm	counts per minute
CTP	cytosine triphosphate
ddH ₂ O	double distilled and autoclaved water
DEPC	diethyl pyrocarbonate
DIG	digoxygenin
DNA	deoxyribonucleic acid
DNase	deoxyribonuclease
dATP	deoxyribo-ATP
dCTP	deoxyribo-CTP
dGTP	deoxyribo-GTP
dNTP(s)	all four deoxyribonucleic triphosphates (dATP, dCTP, dGTP, dTTP)
dTTP	deoxyribo-TTP
DMSO	dimethylsulphoxide
DTT	dithiothreitol
D/V	dorsal-ventral
<i>E. coli</i>	<i>Escherichia coli</i>
EDTA	ethylenediamine tetraacetic acid
EGTA	ethylene glycol-bis[b-aminoethylether]-N,N,N',N'-tetraacetic acid
ELISA	enzyme-linked immunosorbent assay
SEM	scanning electron microscope
fmol	femtomole(s)
g	gram(s)
Gb	gigabase pair(s)
GST	gluthathione S-transferase
HD	homeodomain
HEPES	N-2-hydroxyethylpiperazine-N'-2-ethane sulphonic acid
h	hour(s)
IPTG	isopropyl βD-thiogalactoside
kan	kanamycin
kb	kilobase pair(s)
kDa	kiloDalton(s)
LB	Luria-Bertani medium
M	molar
min	minute(s)

µg	microgram(s)
µl	microlitre(s)
µM	micromolar
µmol	micromole(s)
mg	milligram(s)
ml	millilitre(s)
mol	mole(s)
MOPS	3-(N-morpholino)prepanesulphonic acid
mm	millimetre(s)
mM	millimolar
mmol	millimole(s)
mRNA message	ribonucleic acid
mya	million years ago
ng	nanogram(s)
nm	nanometre(s)
nmol	nanomole(s)
O/A	oral-aboral
OD	optical density
OP	octapeptide
ORF	open reading frame
PBS	phosphate-buffered saline
PCR	polymerase chain reaction
PEG	polyethylene glycol
pfu	plaque forming unit(s)
pH	unit of acidity/alkalinity
phage	bacteriophage
pmol	picomole(s)
poly dI-dC	non-specific competitor DNA
RNA	ribonucleic acid
RNase	ribonuclease
rpm	revolutions per minute
SDS	sodium dodecyl sulphate
SDS-PAGE	SDS polyacrylamide gel electrophoresis
s	second(s)
TE	Tris-HCl EDTA buffer
TEMED	N,N,N',N'-tetremethylethylenediamine
T _m	melting temperature
Tris	tris(hydroxymethyl)aminomethane
tRNA	transcript ribonucleic acid
TTP	thymidine triphosphate
U	unit(s)
UTR	untranslated region
UV	ultraviolet
V	volt(s)
VNC	ventral nerve cord
v/v	units volume per units volume
w/v	units weight per units volume
X-gal	5-bromo-4-chloro-3-indolyl-β-D-galactoside