

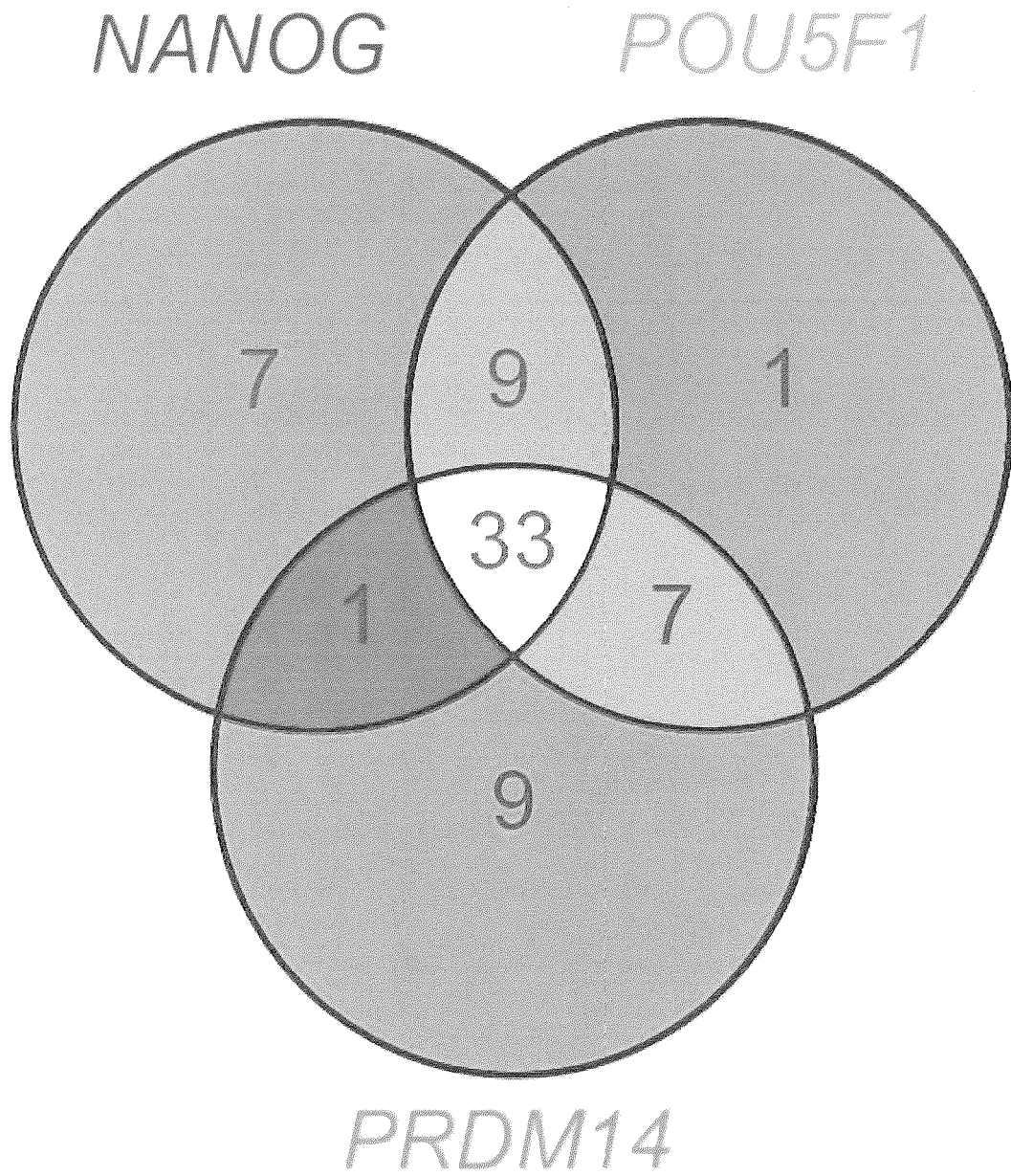
FIGURE 1A

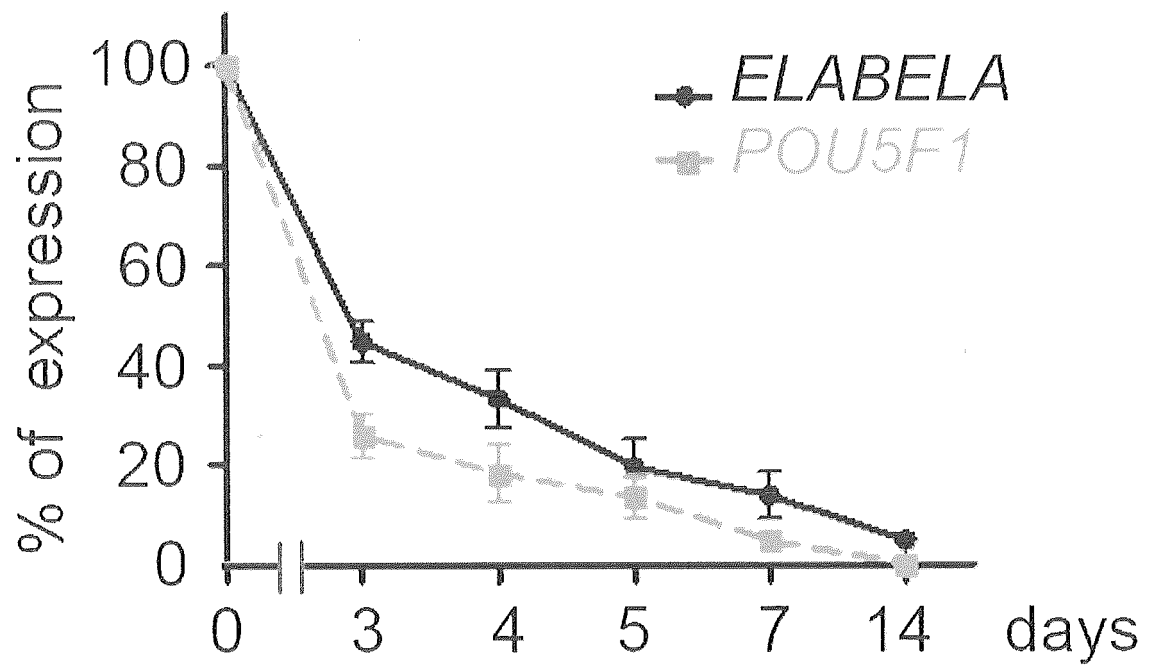
FIGURE 1B

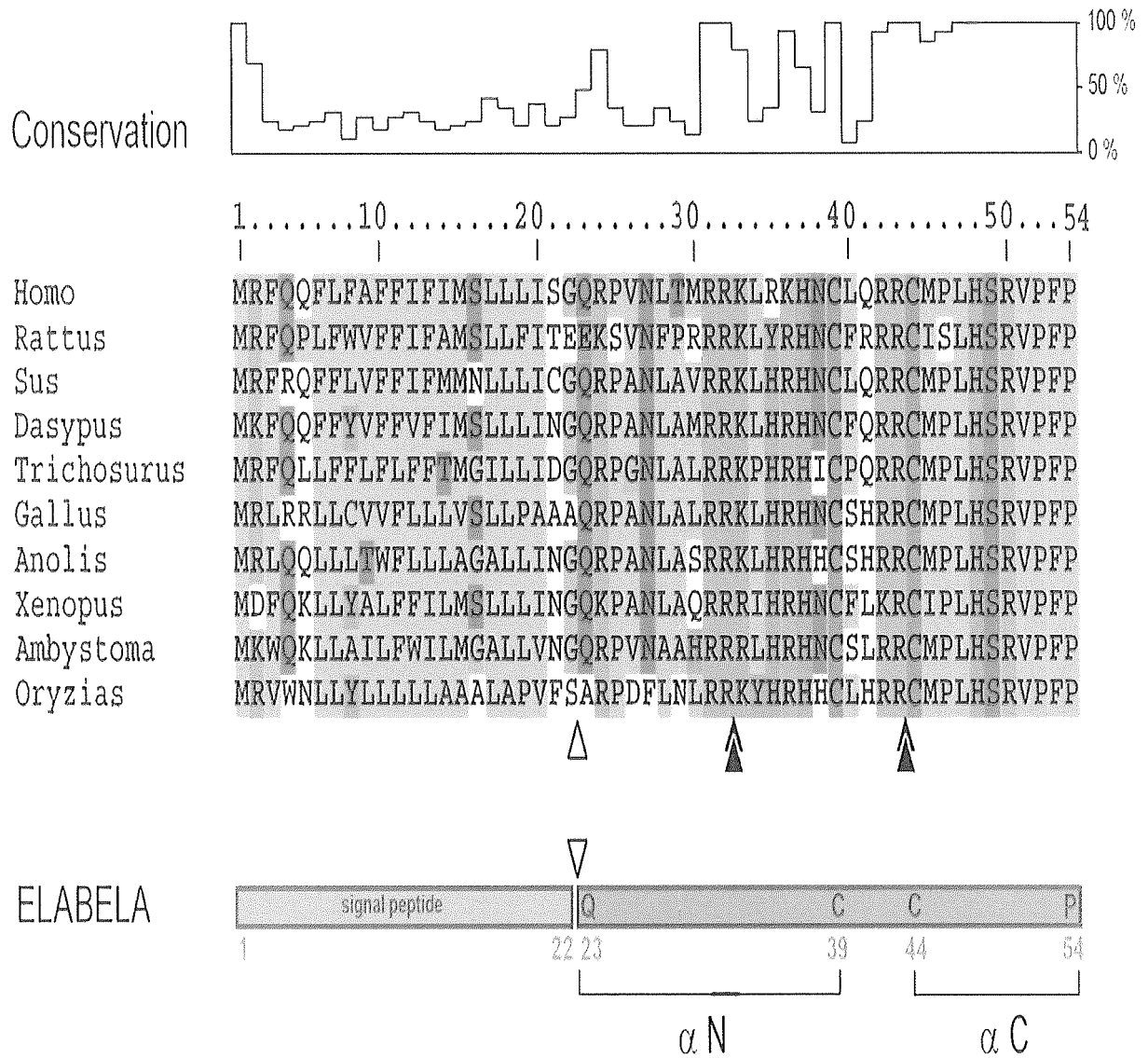
FIGURE 1C

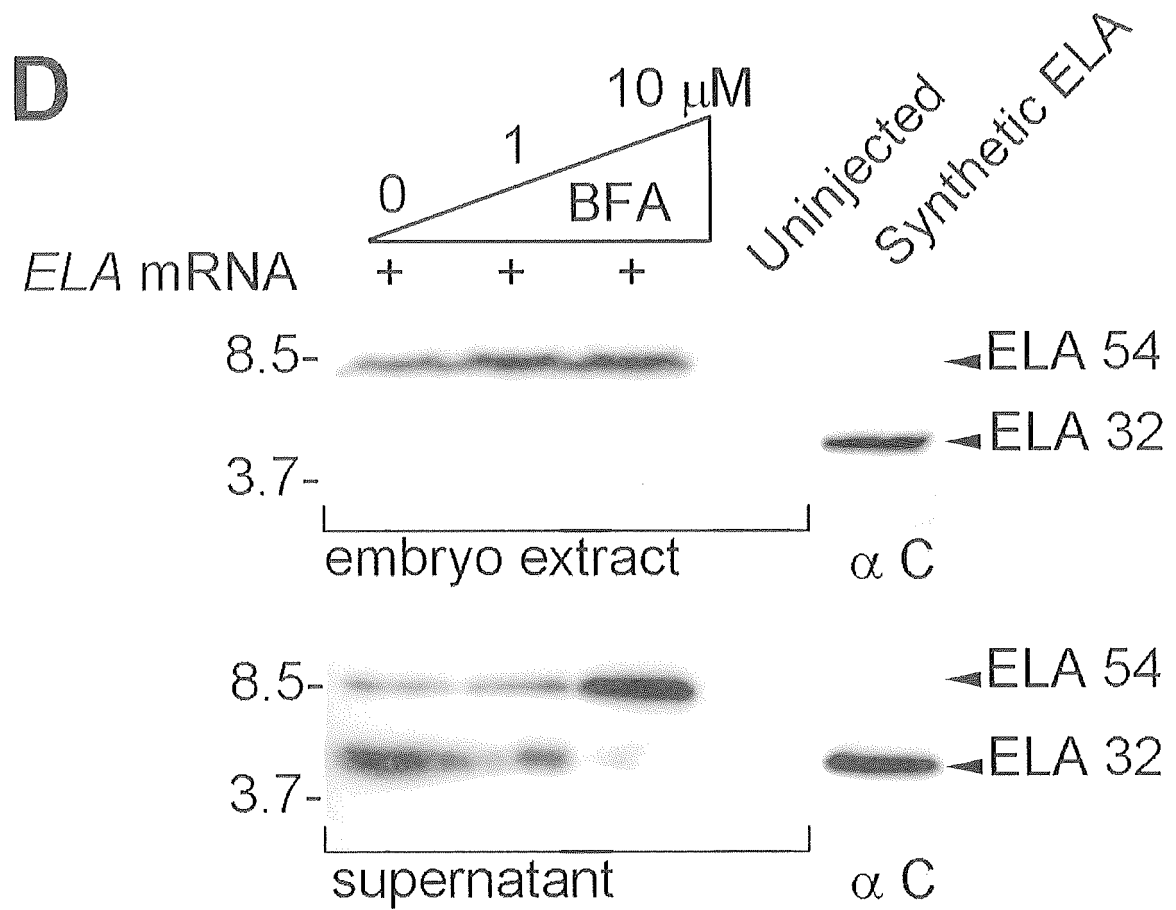
FIGURE 1D

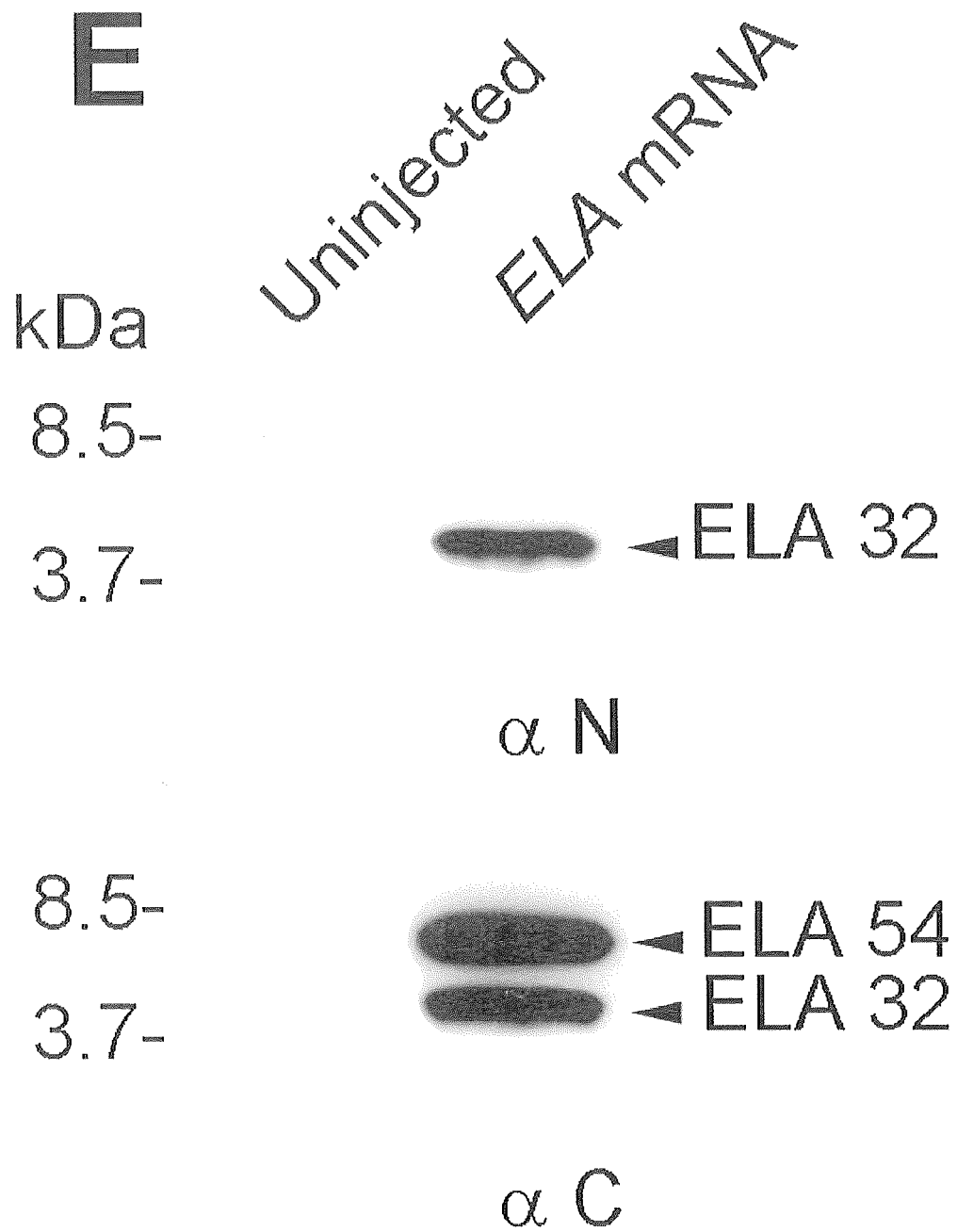
FIGURE 1E

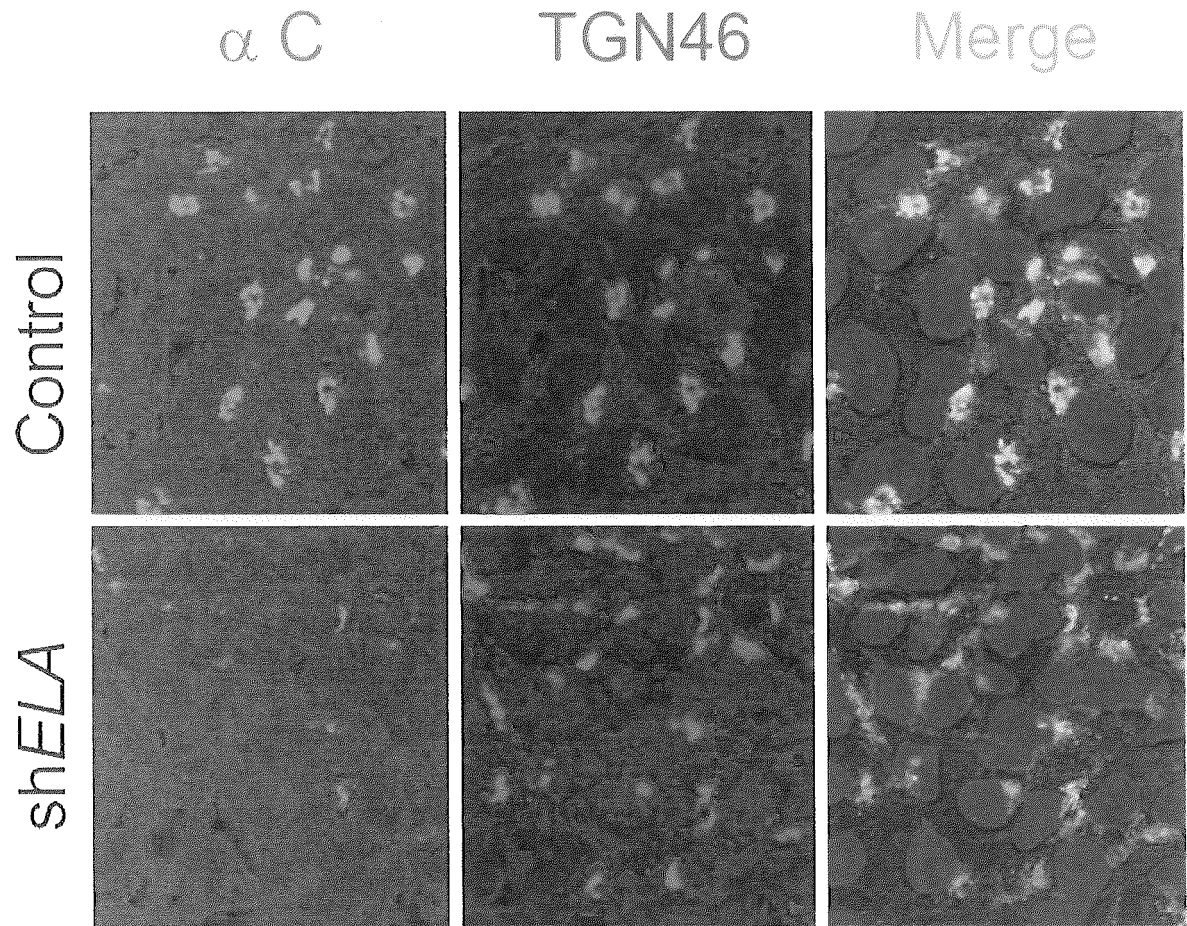
FIGURE 2A

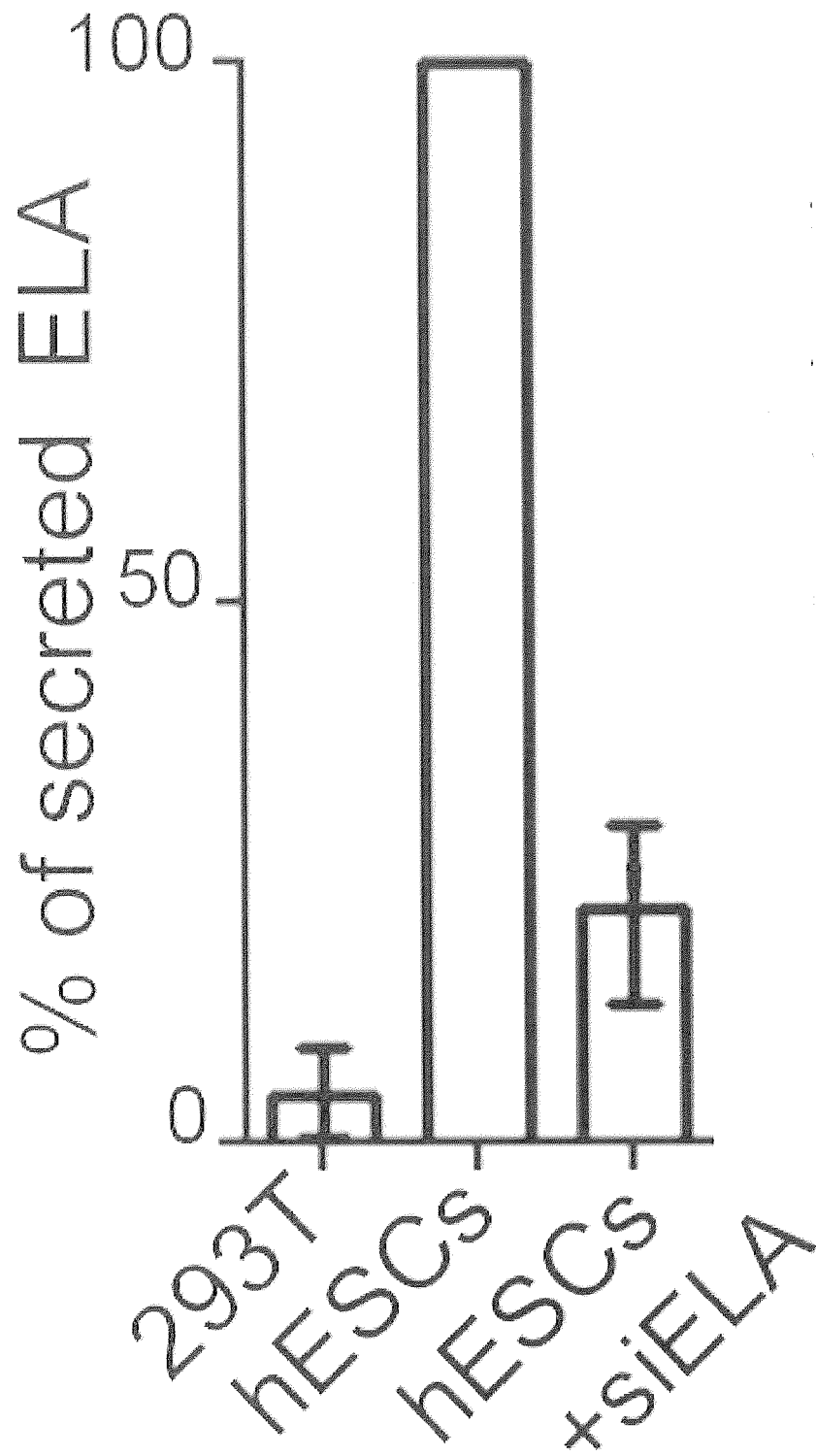
FIGURE 2B

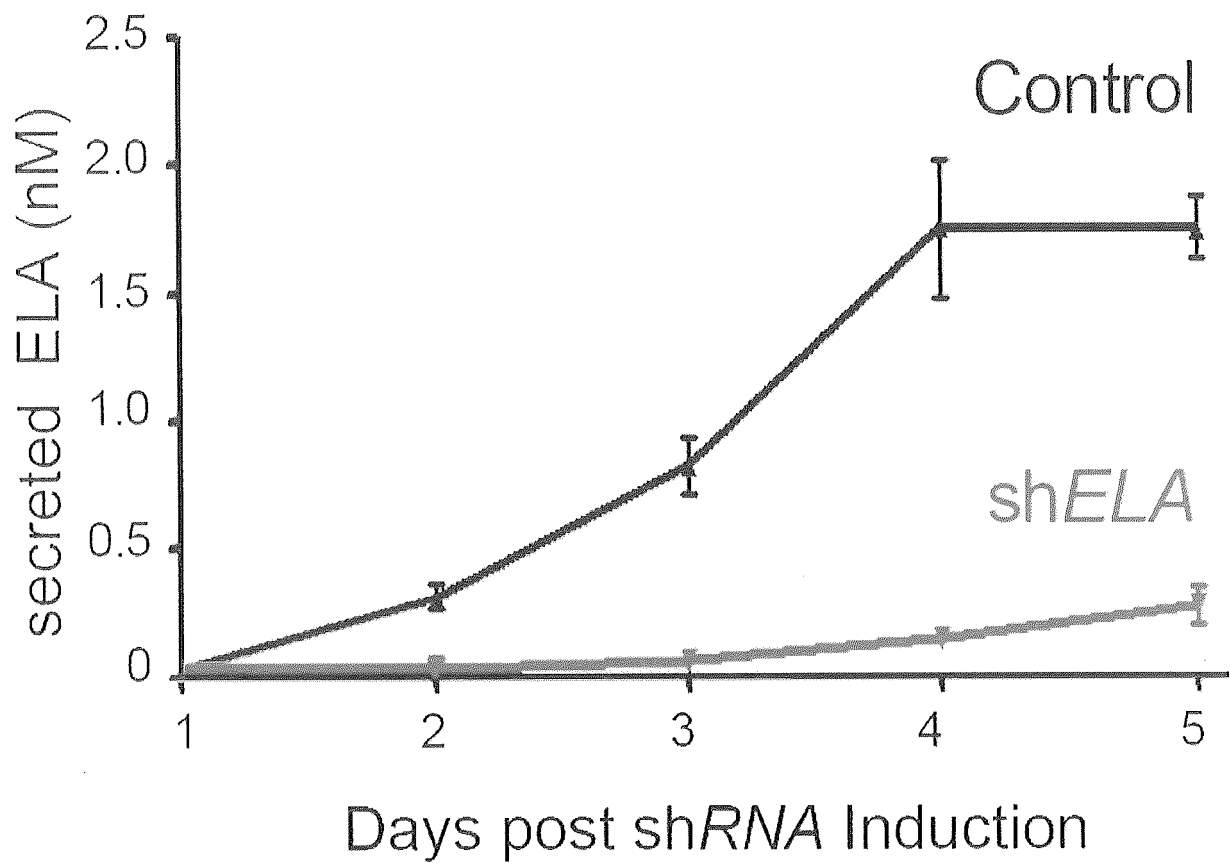
FIGURE 2C

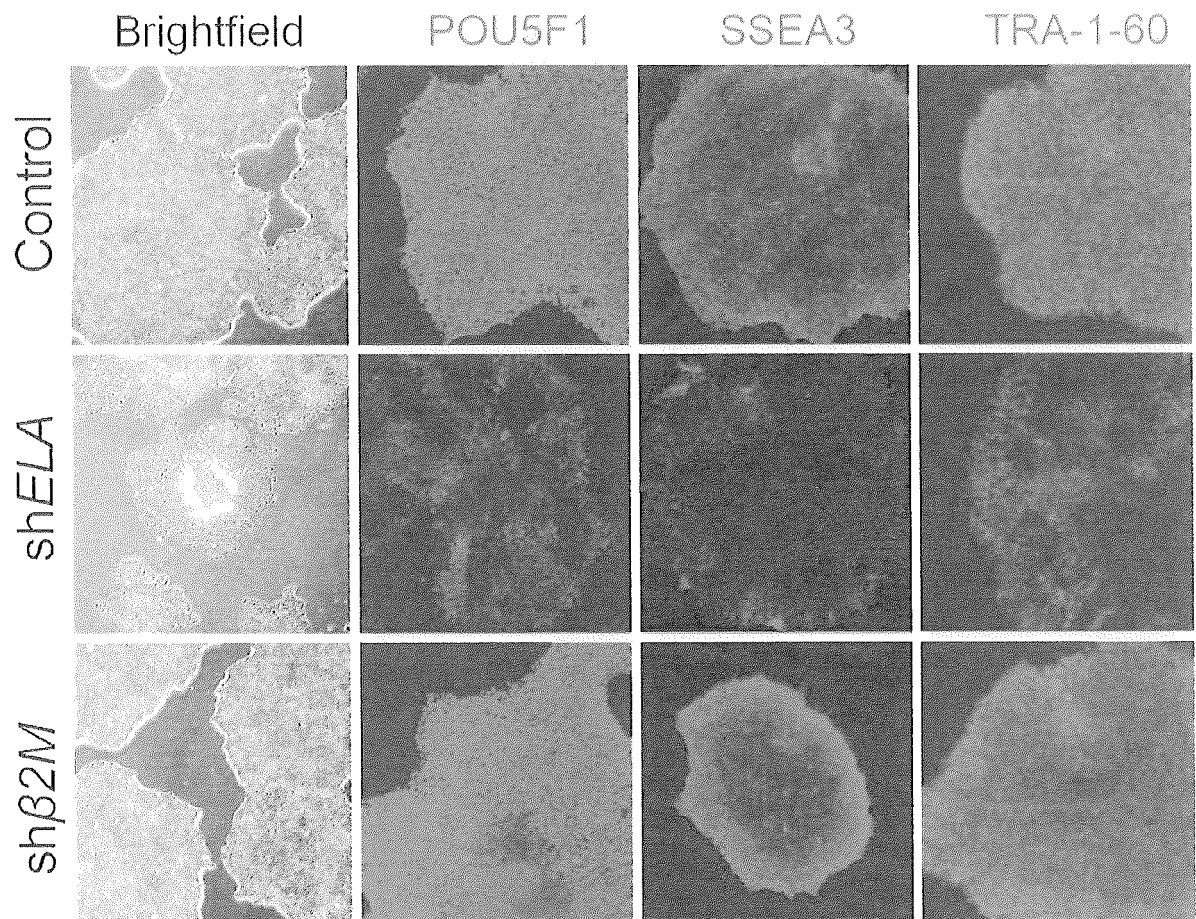
FIGURE 2D

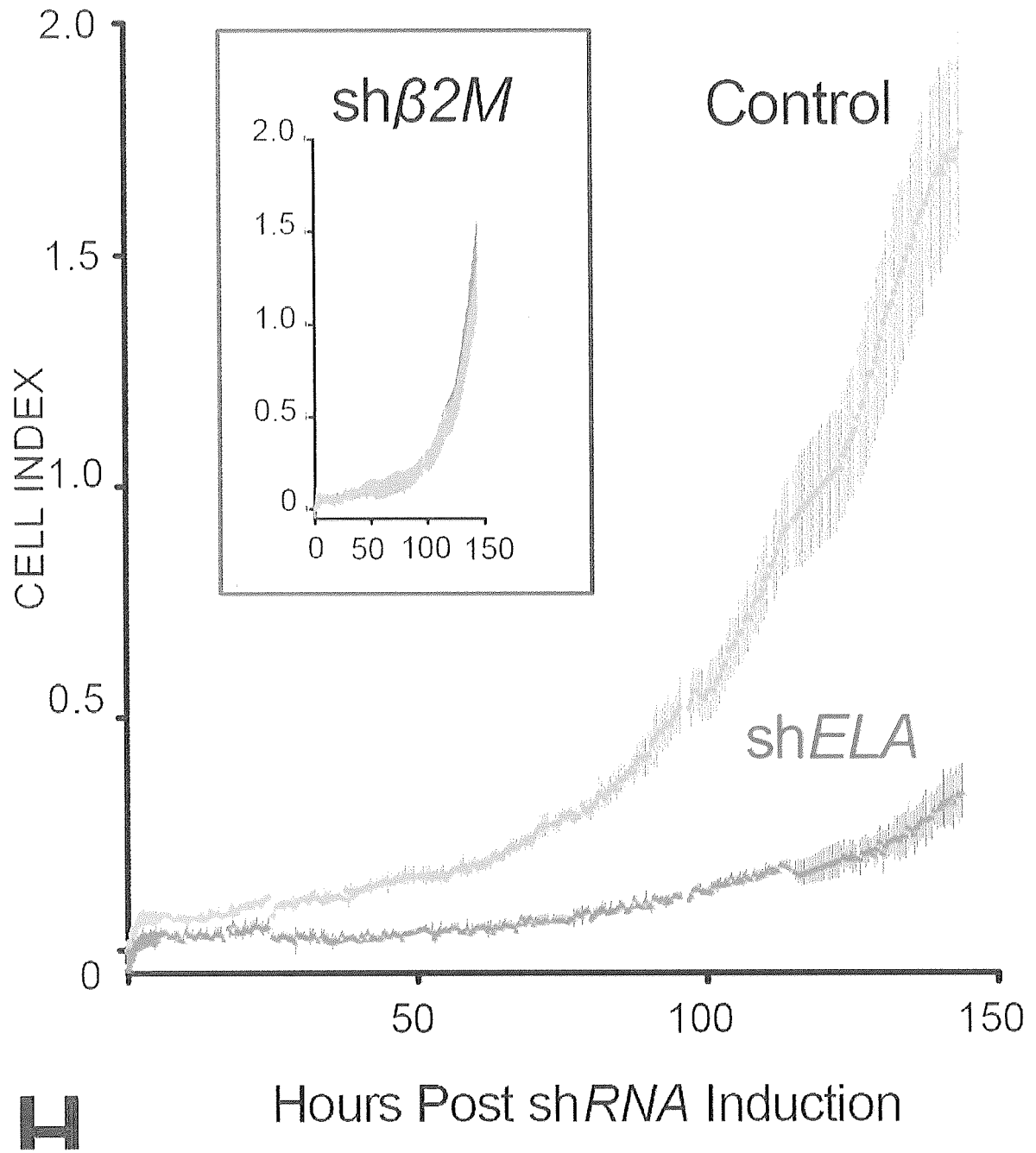
FIGURE 2E

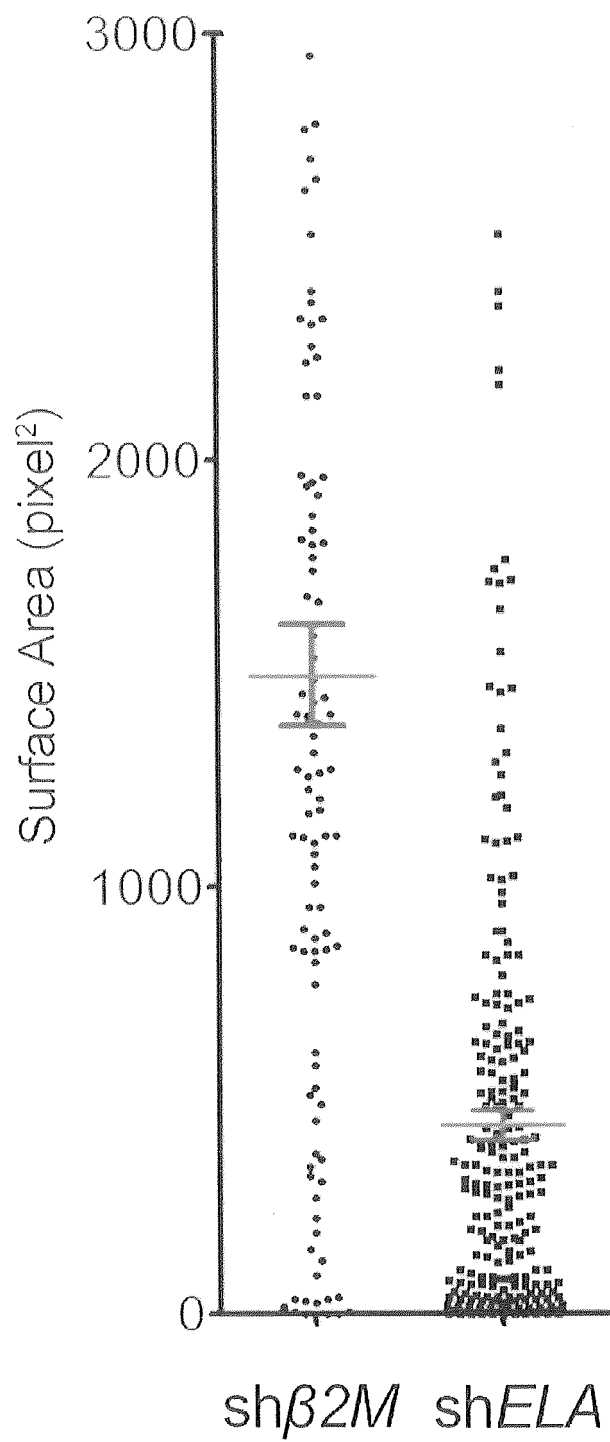
FIGURE 2F

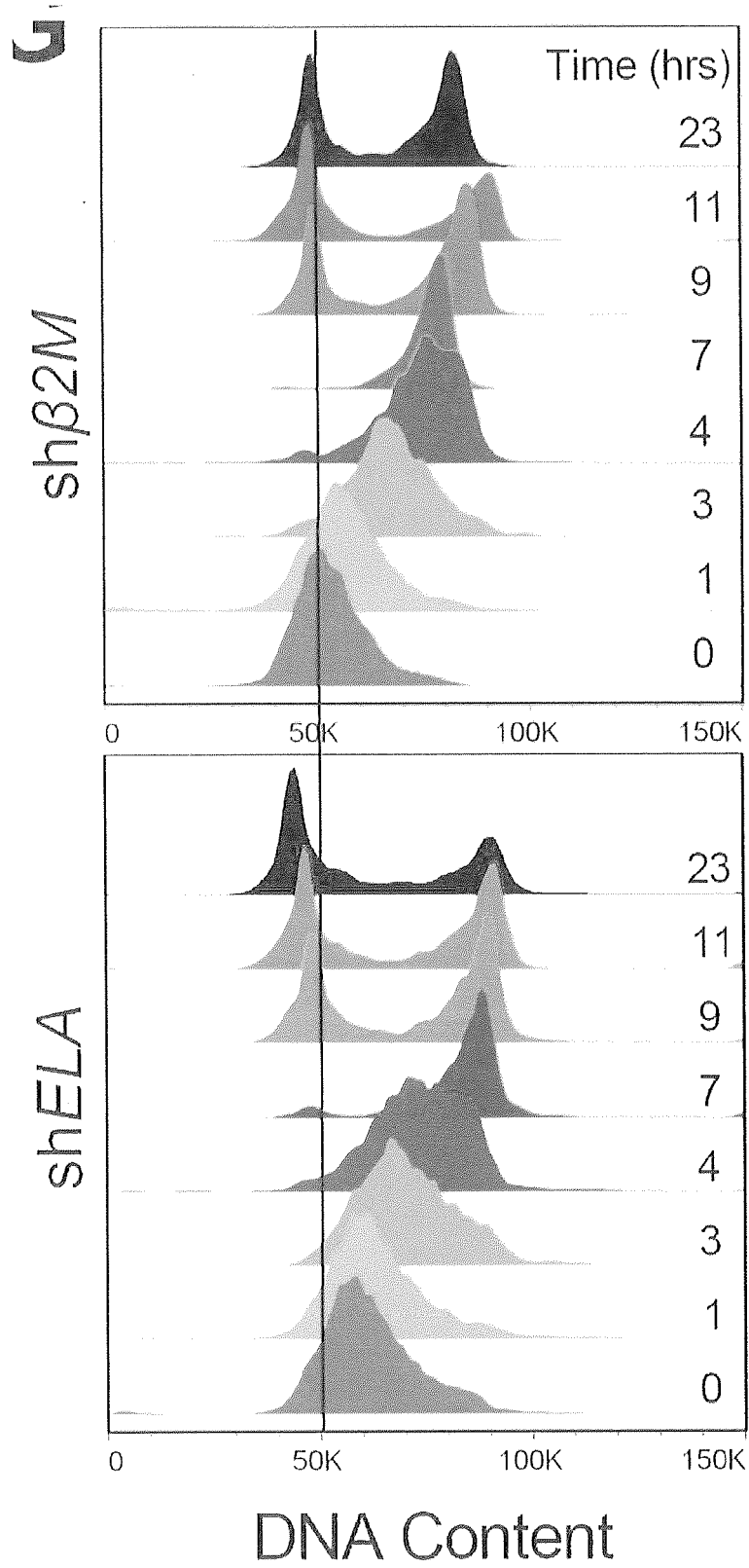
FIGURE 2G

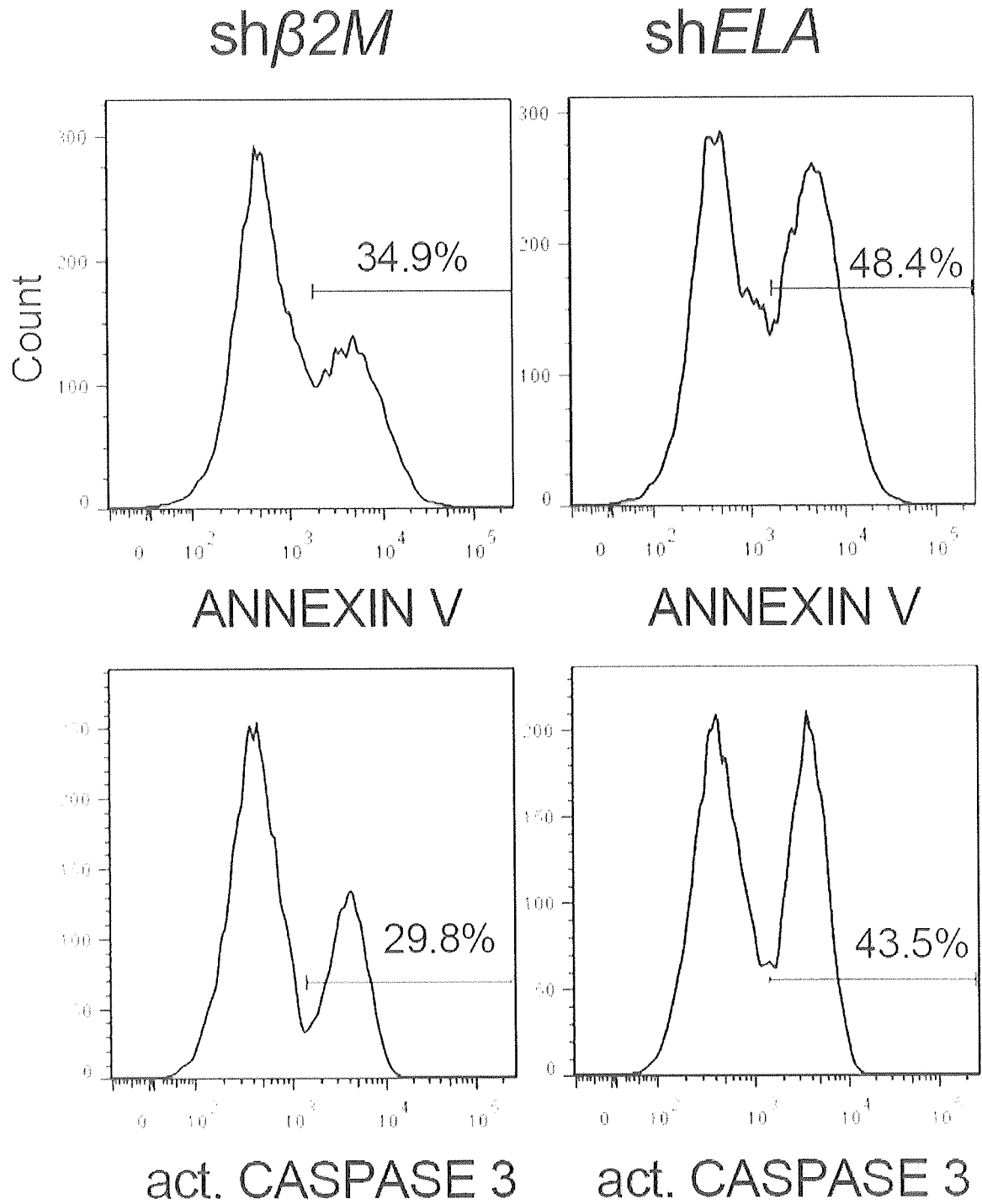
FIGURE 2H

FIGURE 3A

■ ■

ELA

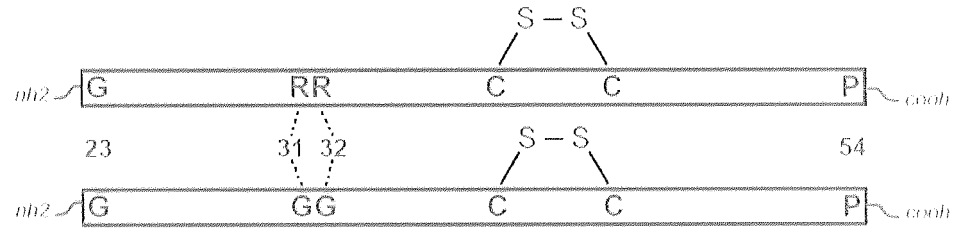
ELA^{RR>GG}

FIGURE 3B

ELARR>GG ELA D

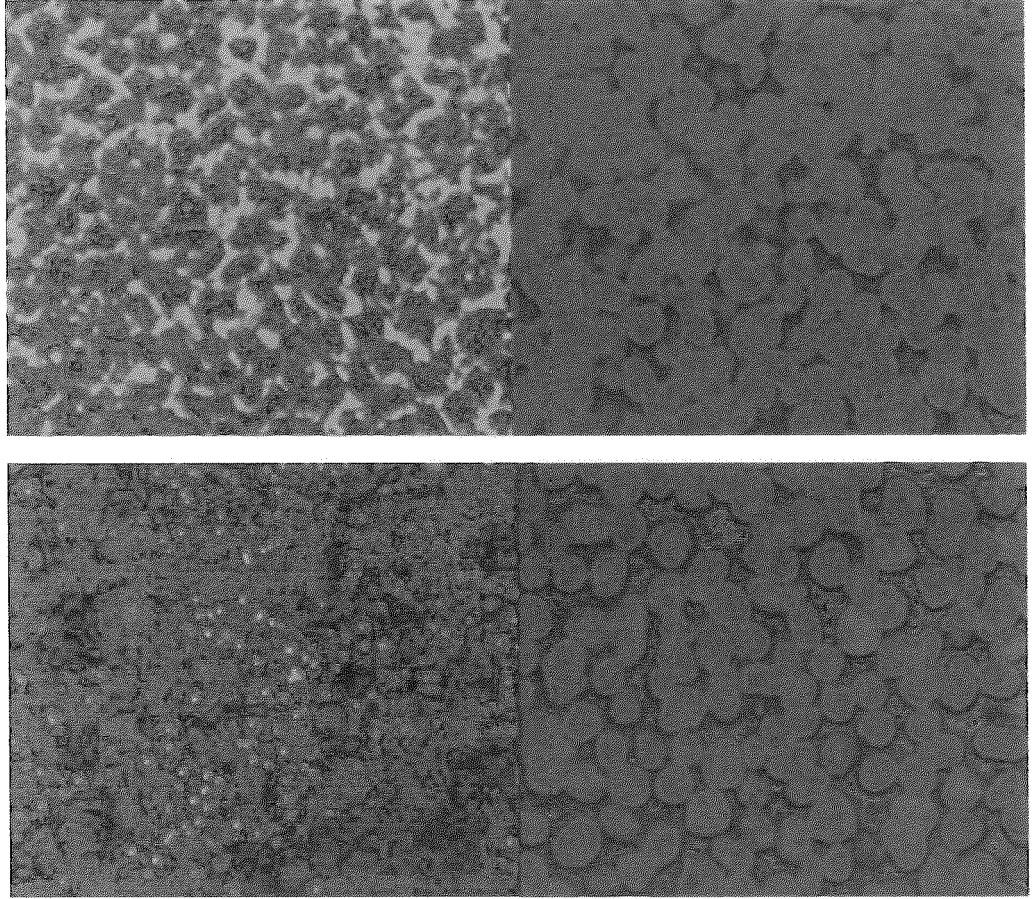


FIGURE 3C

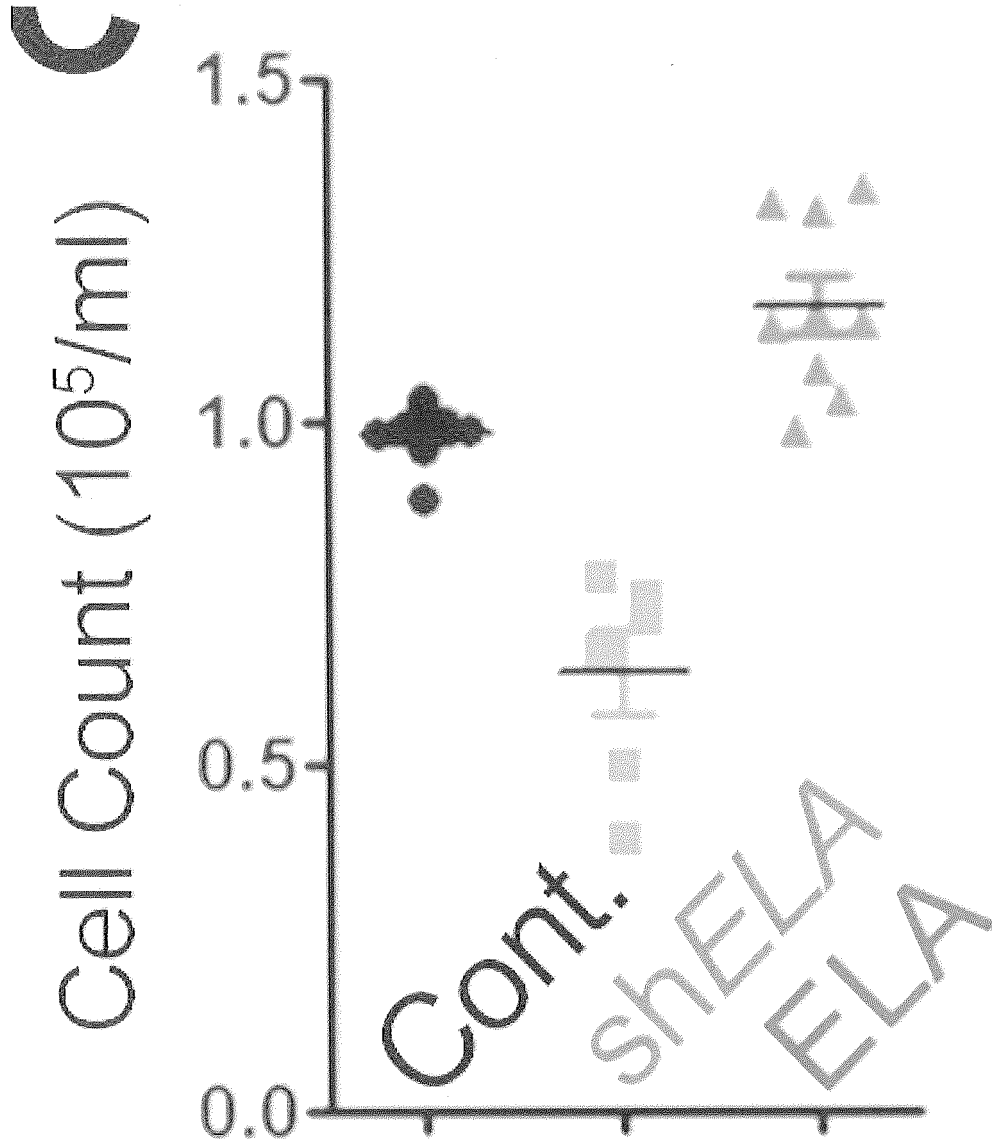


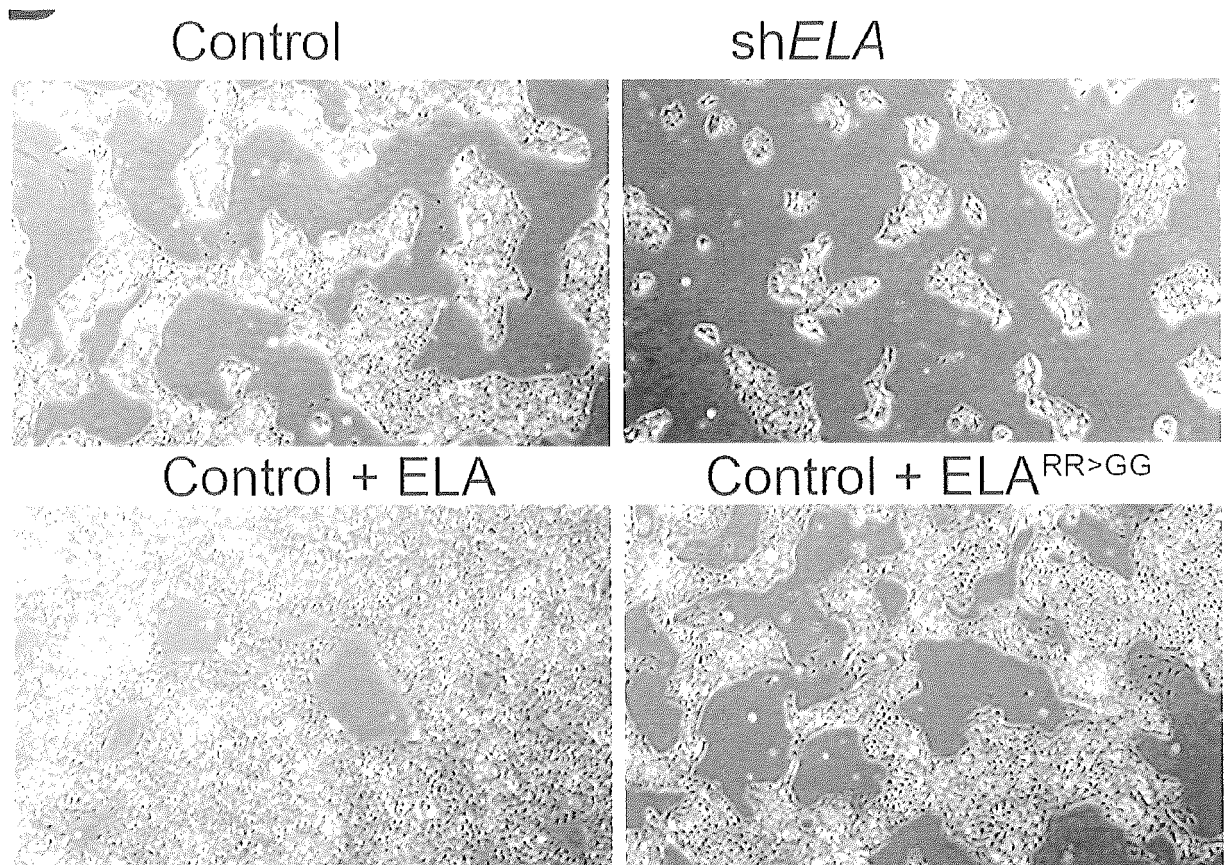
FIGURE 3D

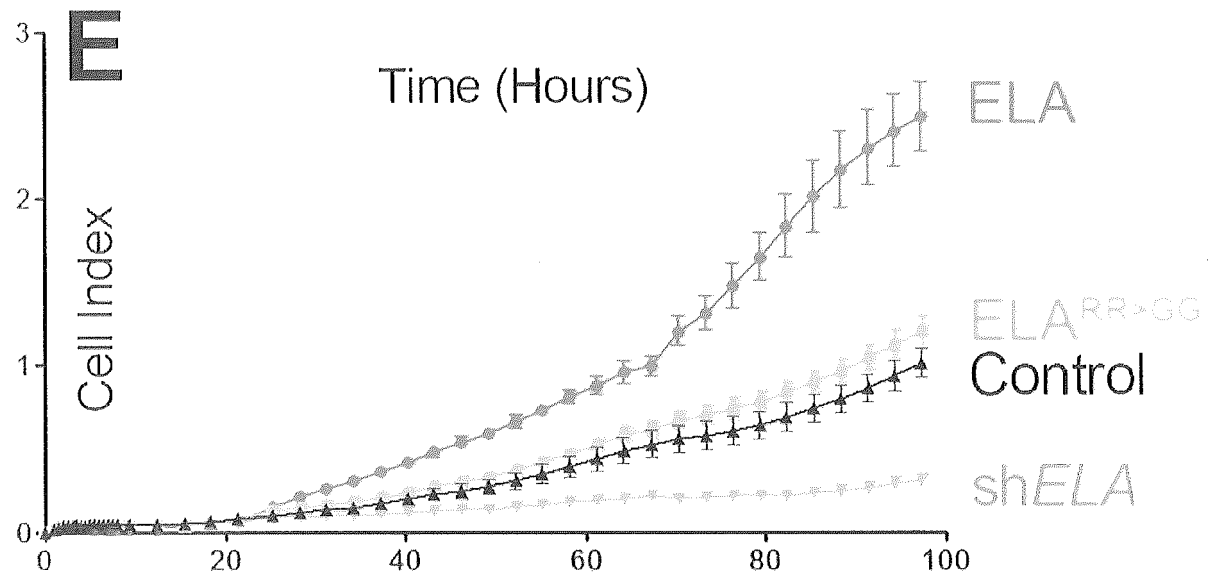
FIGURE 3E

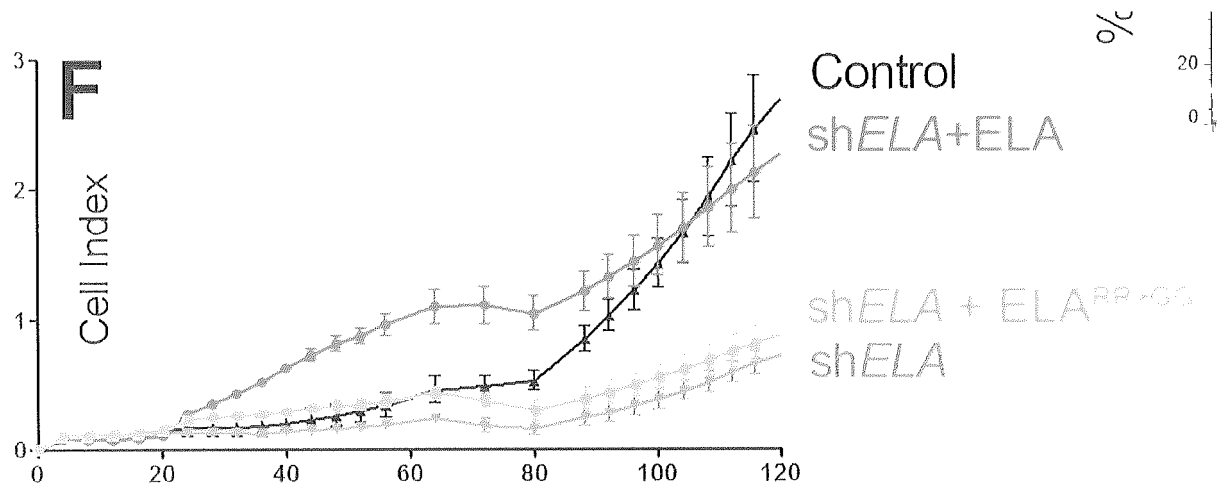
FIGURE 3F

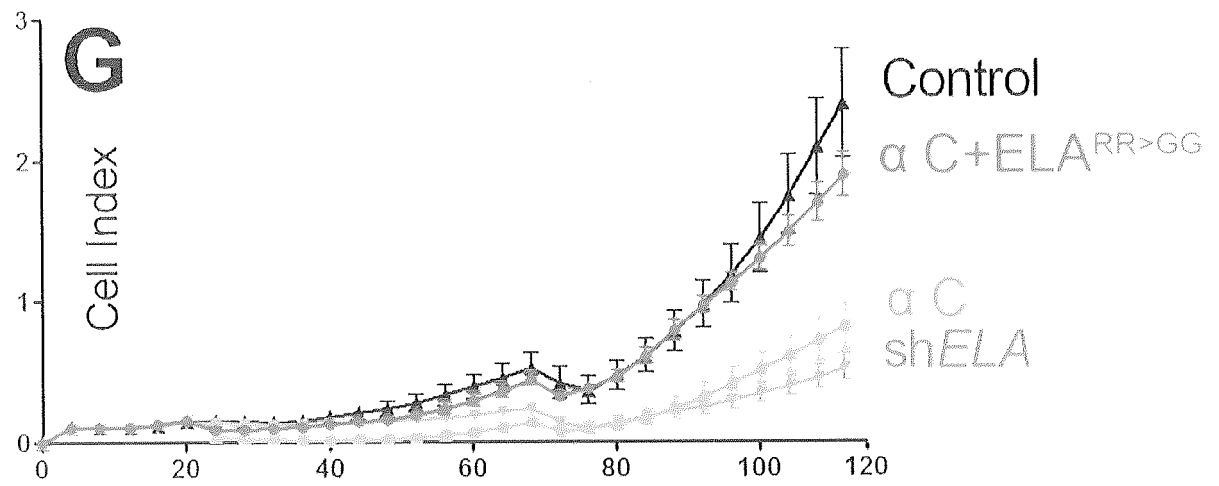
FIGURE 3G

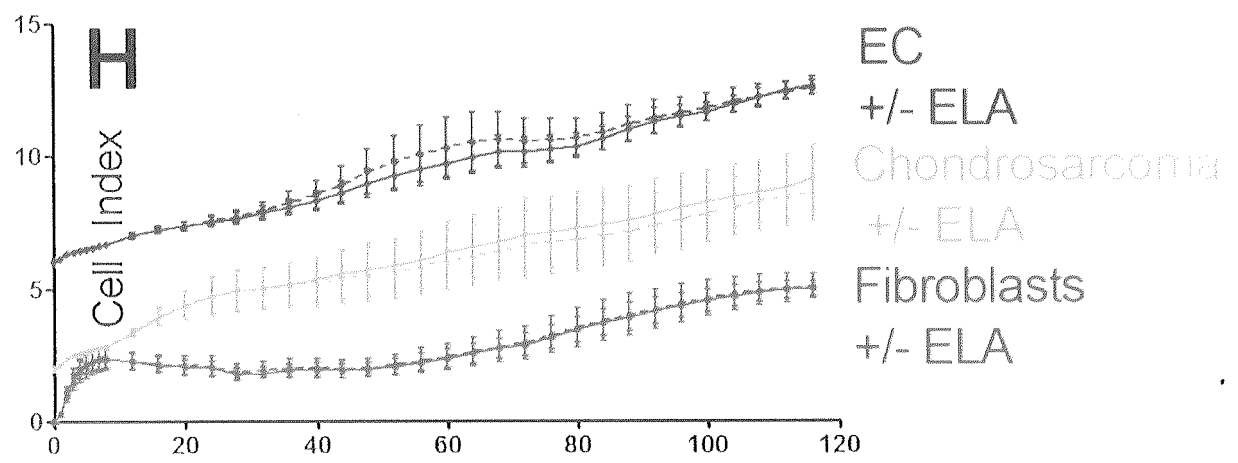
FIGURE 3H

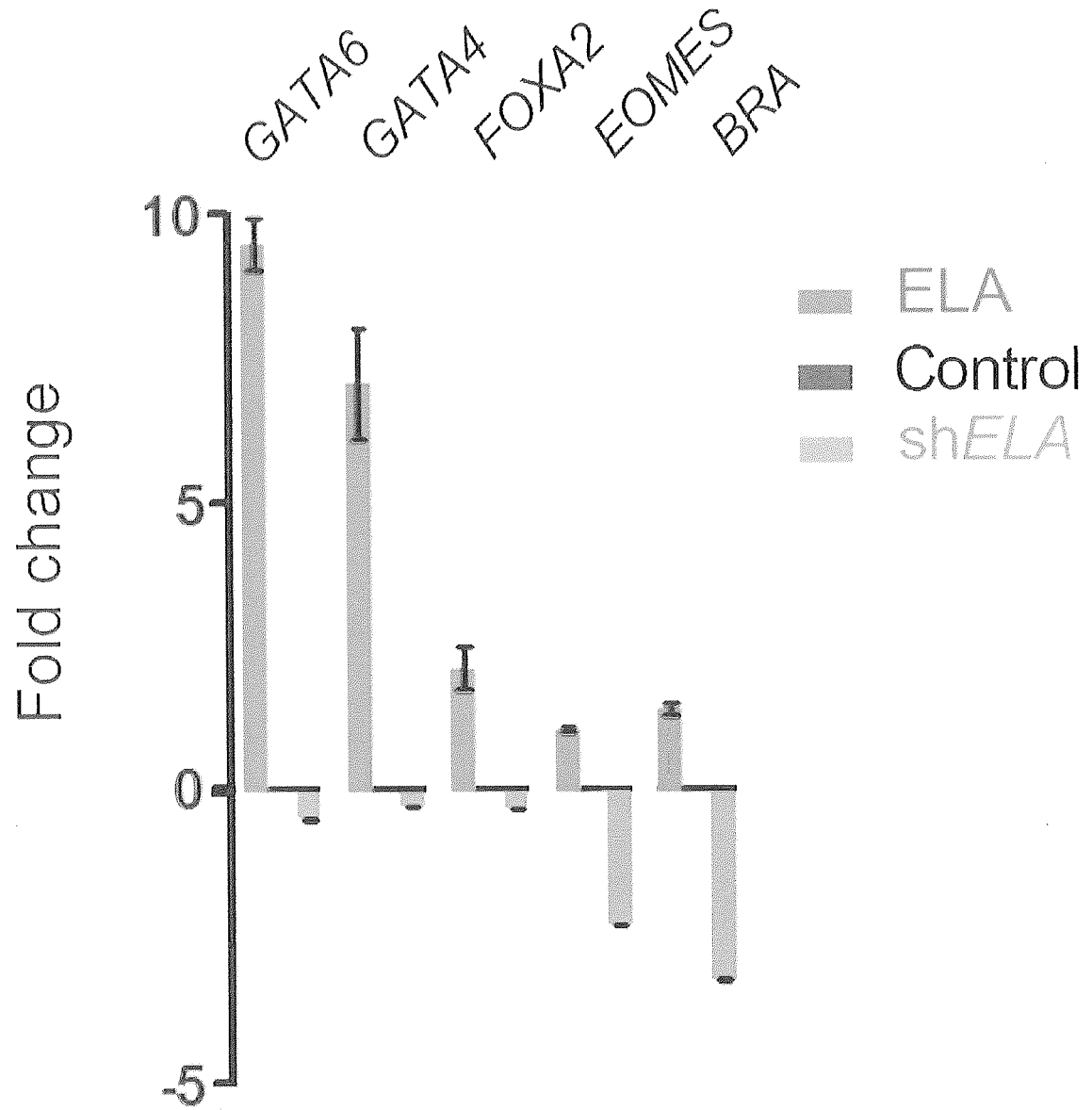
FIGURE 3I

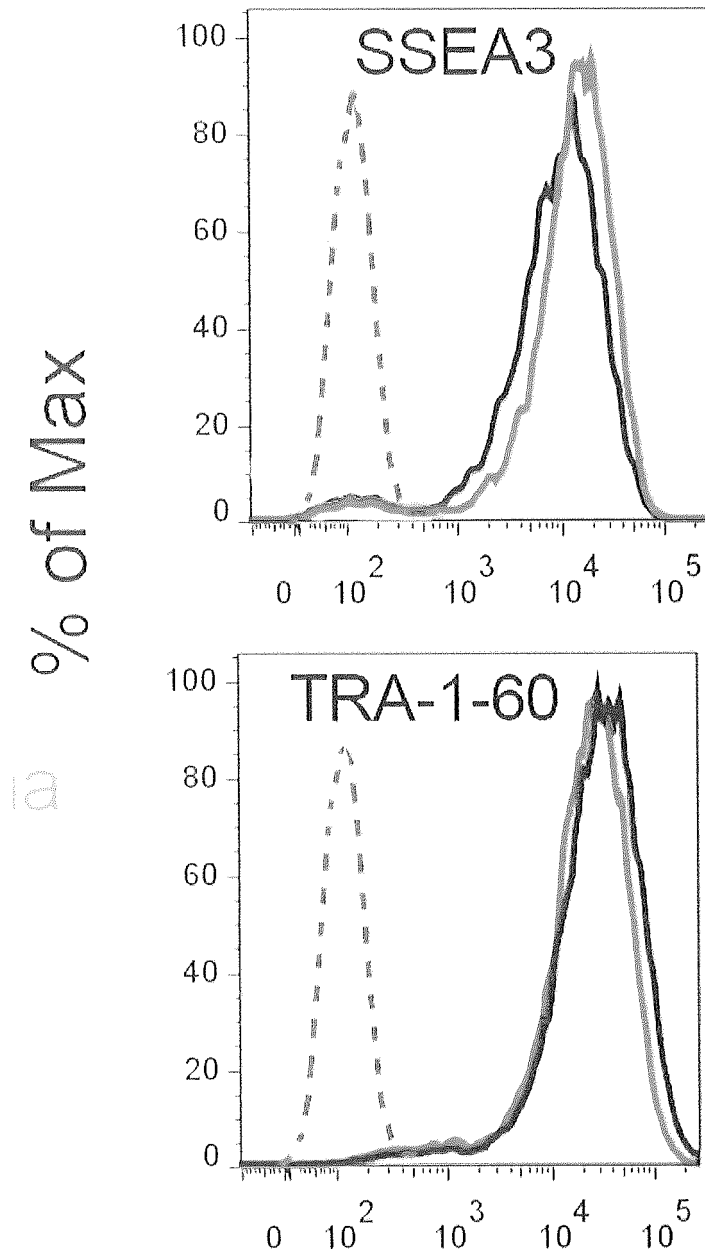
FIGURE 3J

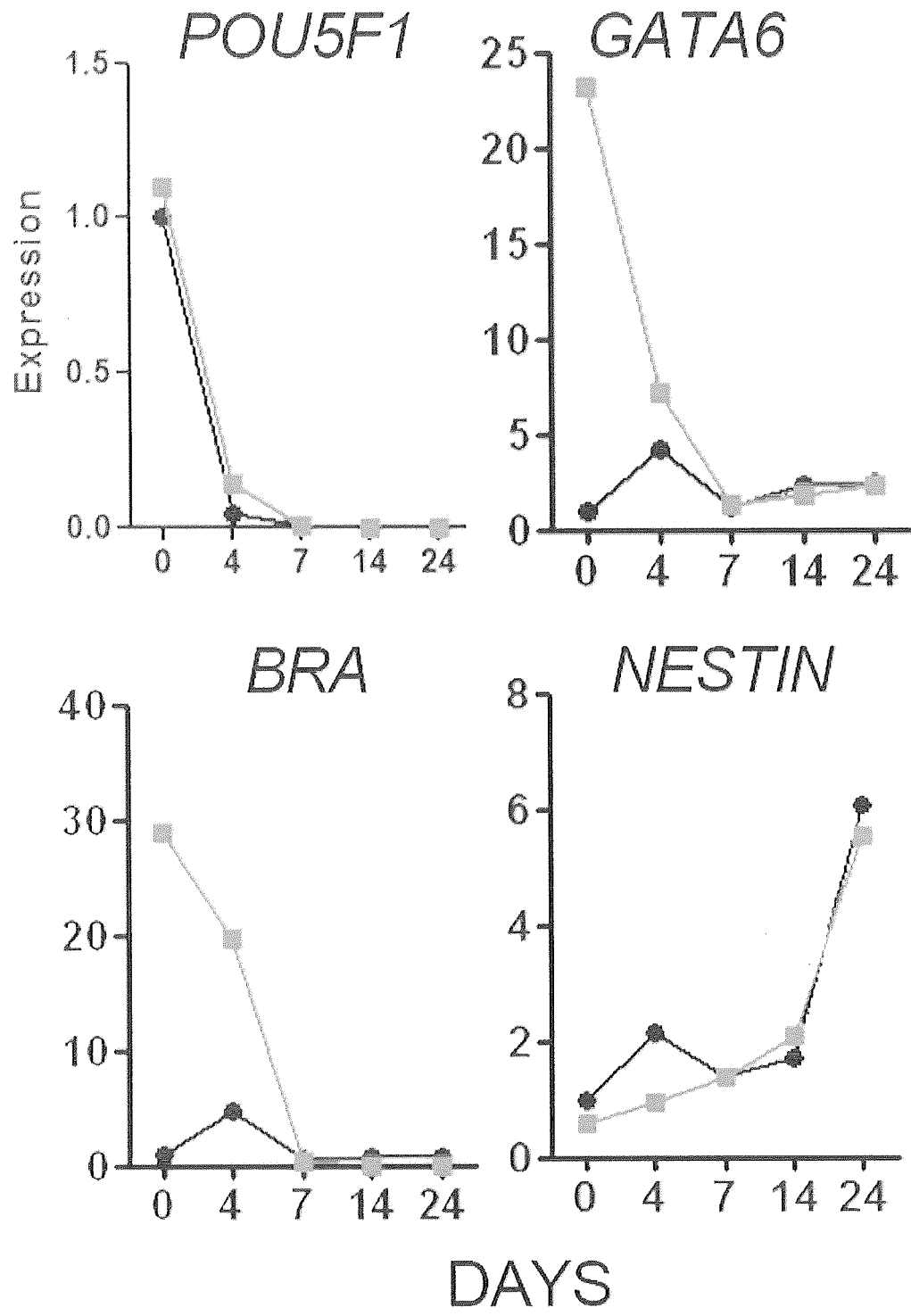
FIGURE 3K

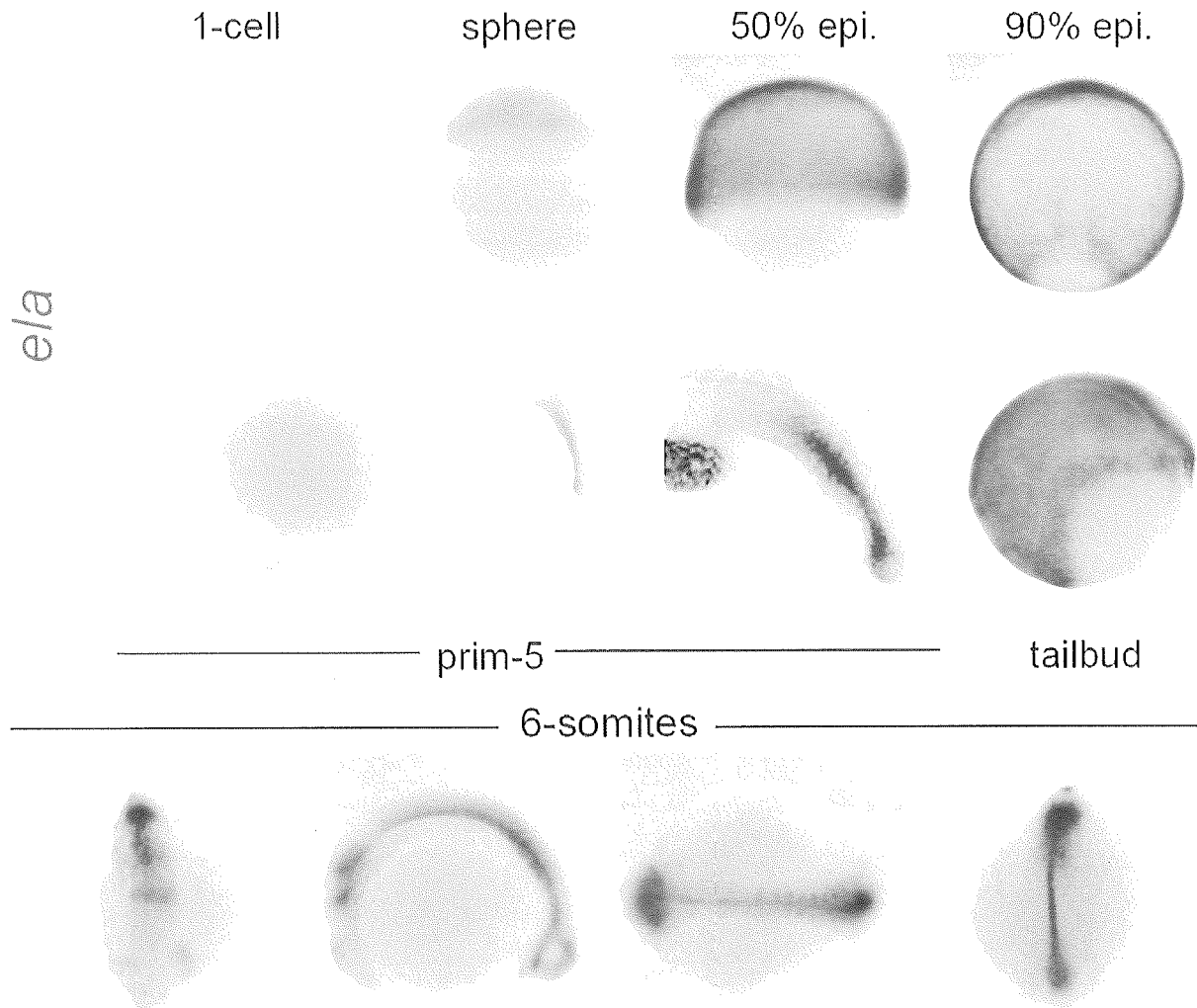
FIGURE 4A

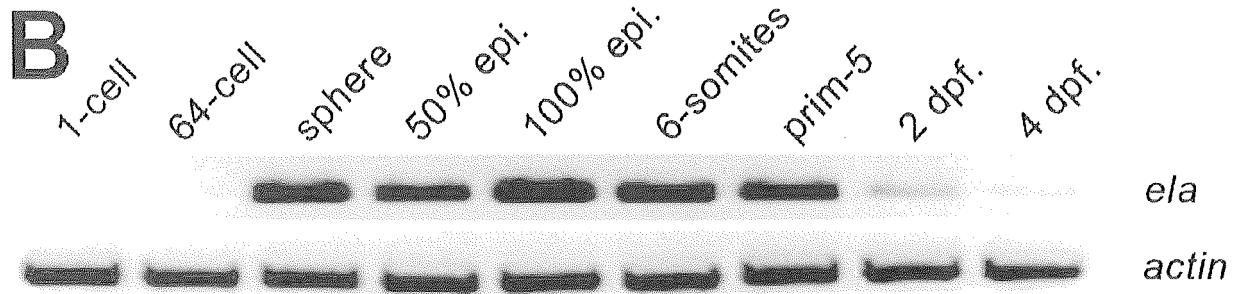
FIGURE 4B

FIGURE 4C AND FIGURE 4D

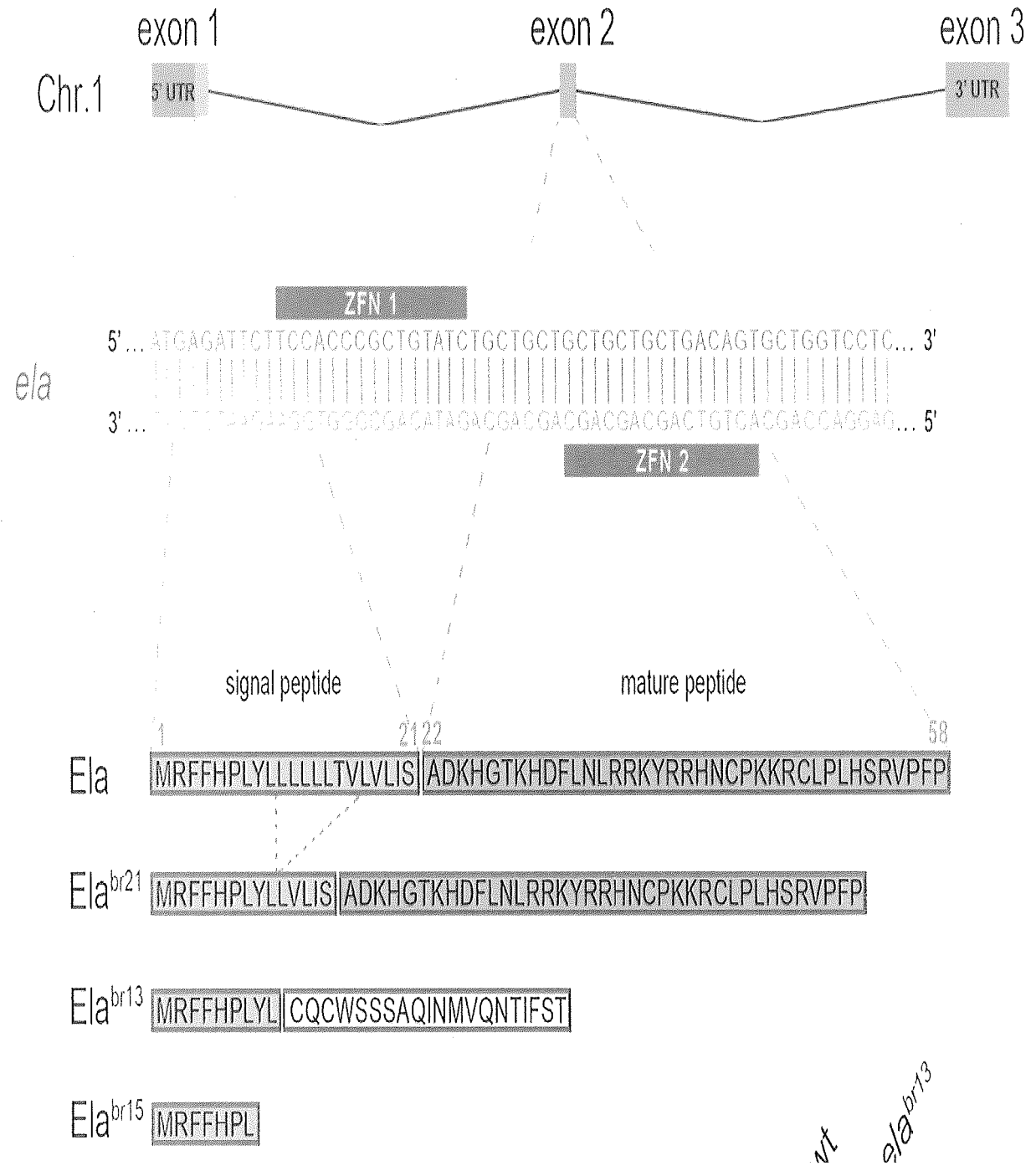


FIGURE 4E

wt



ela^{br13}



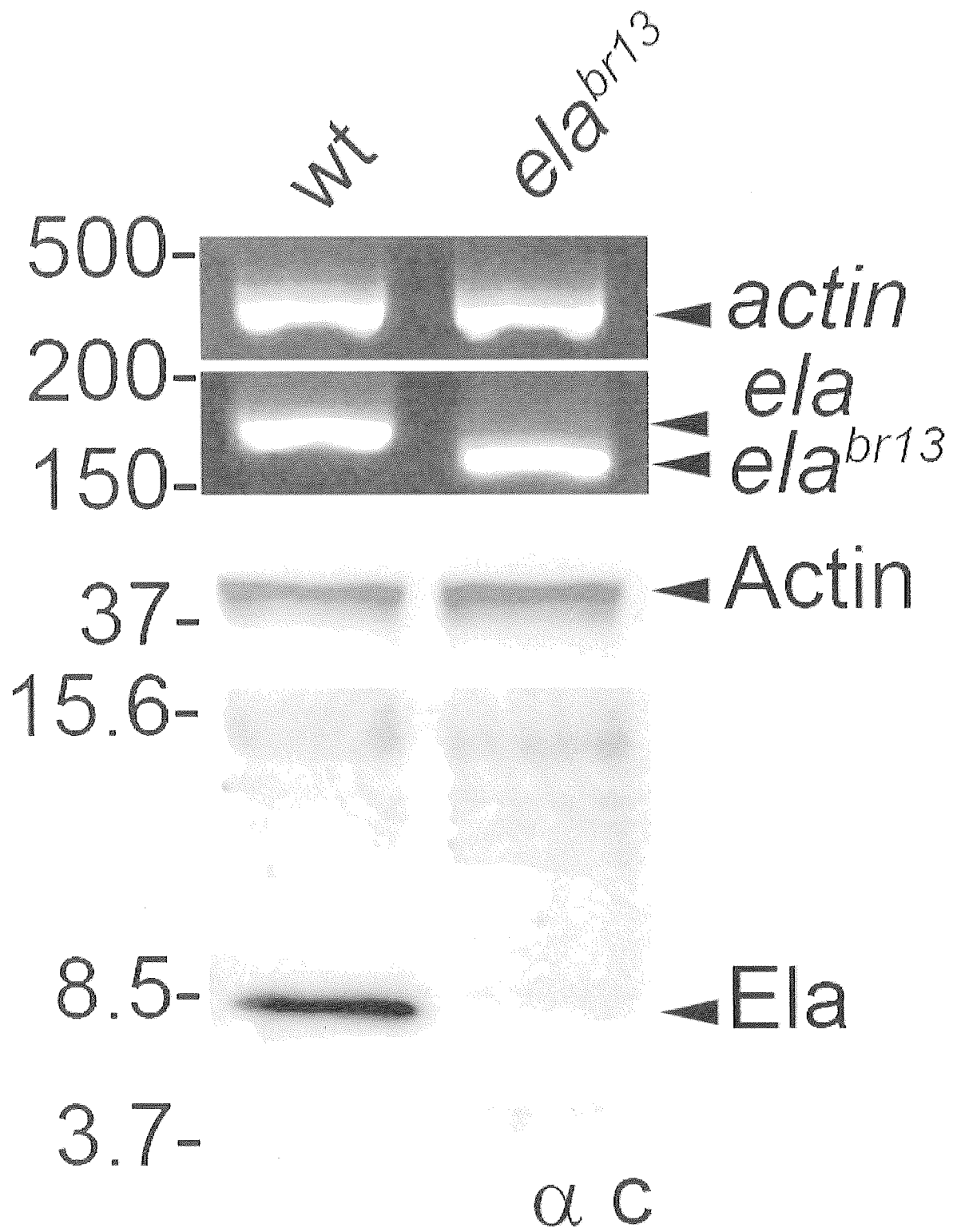
FIGURE 4F

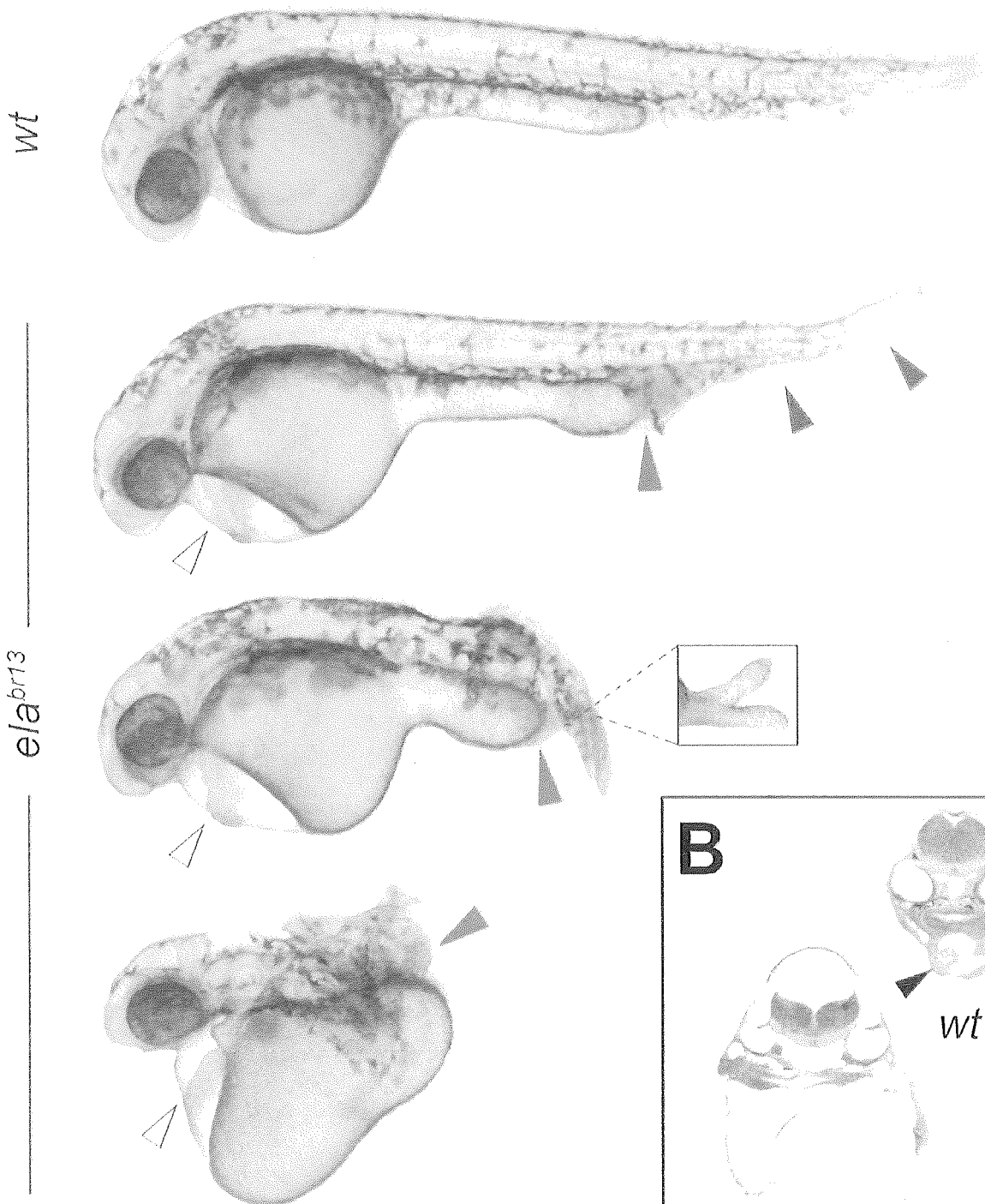
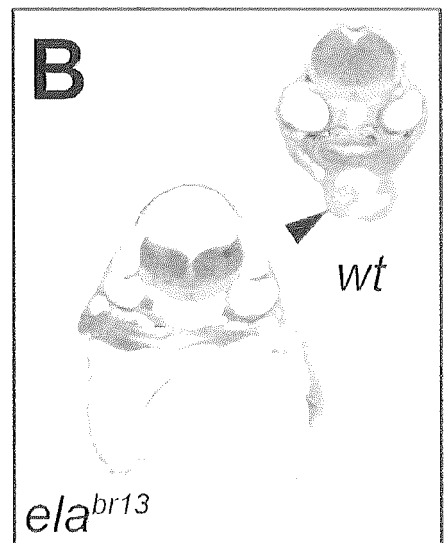
FIGURE 5A**A****B**

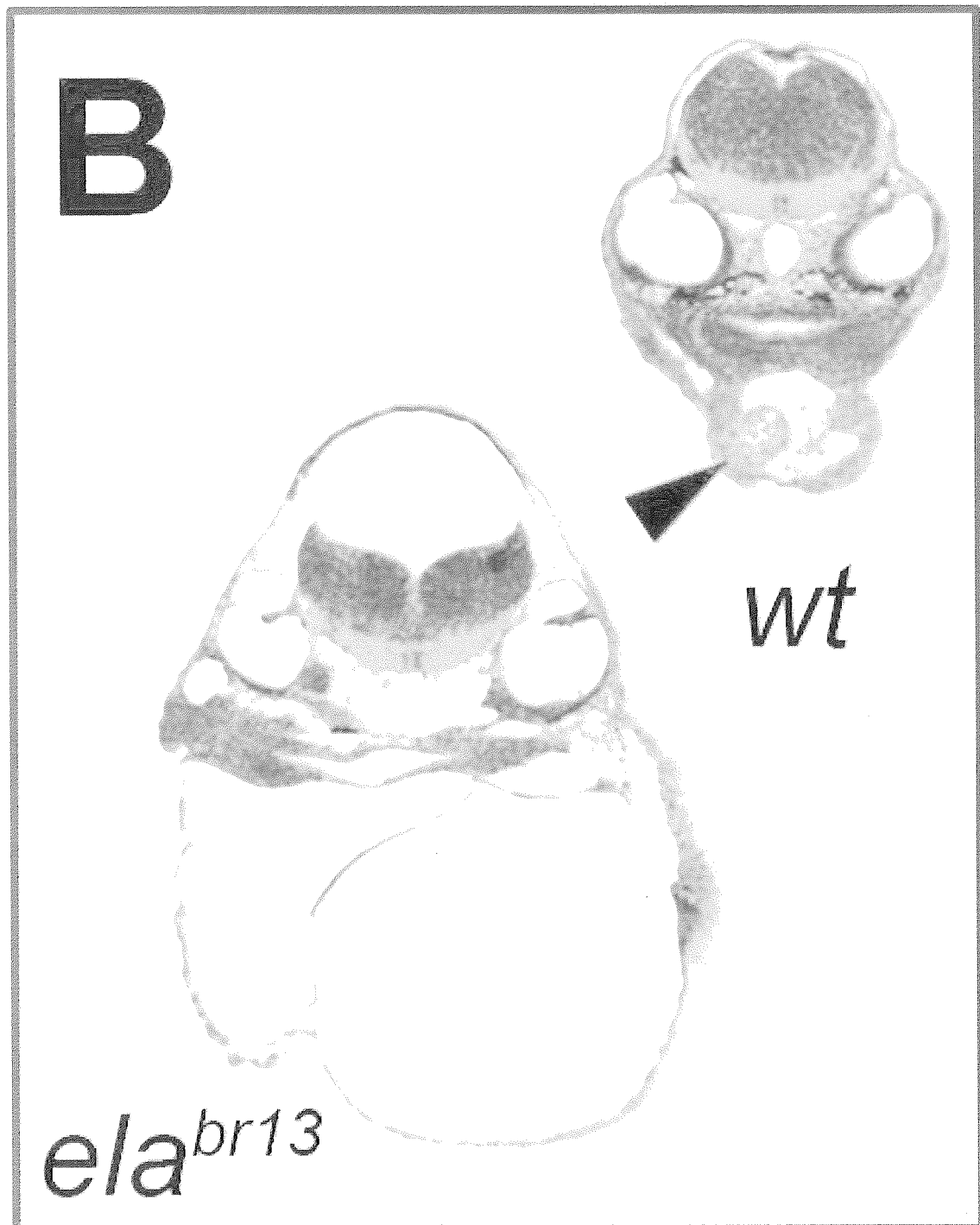
FIGURE 5B

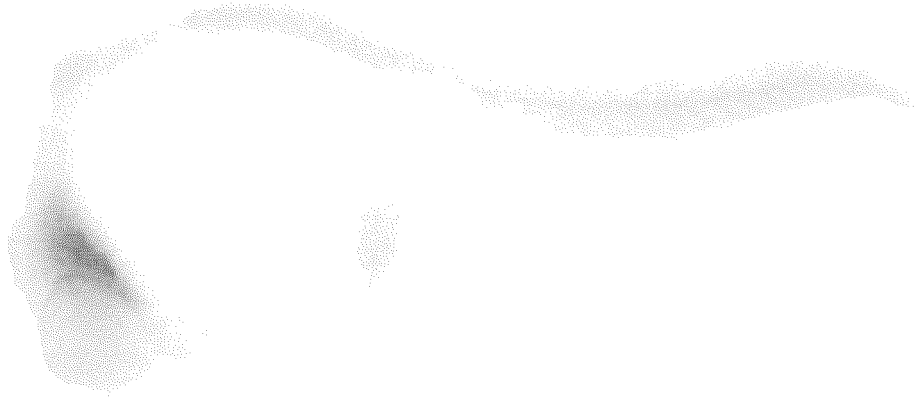
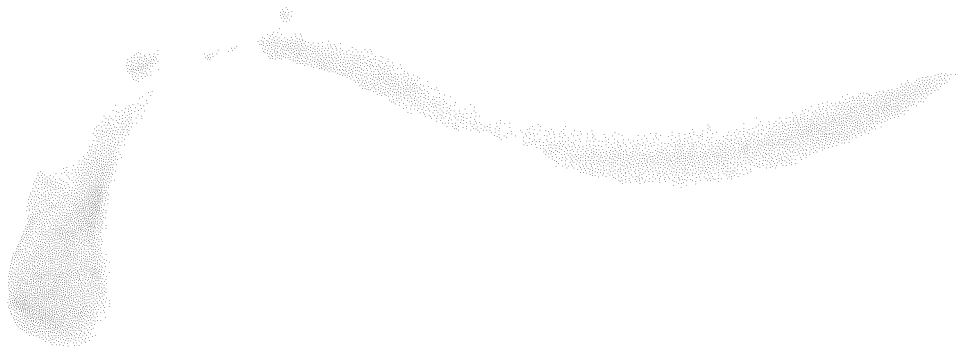
FIGURE 5C**C***cmlc1**wt**ela*^{*br13*}

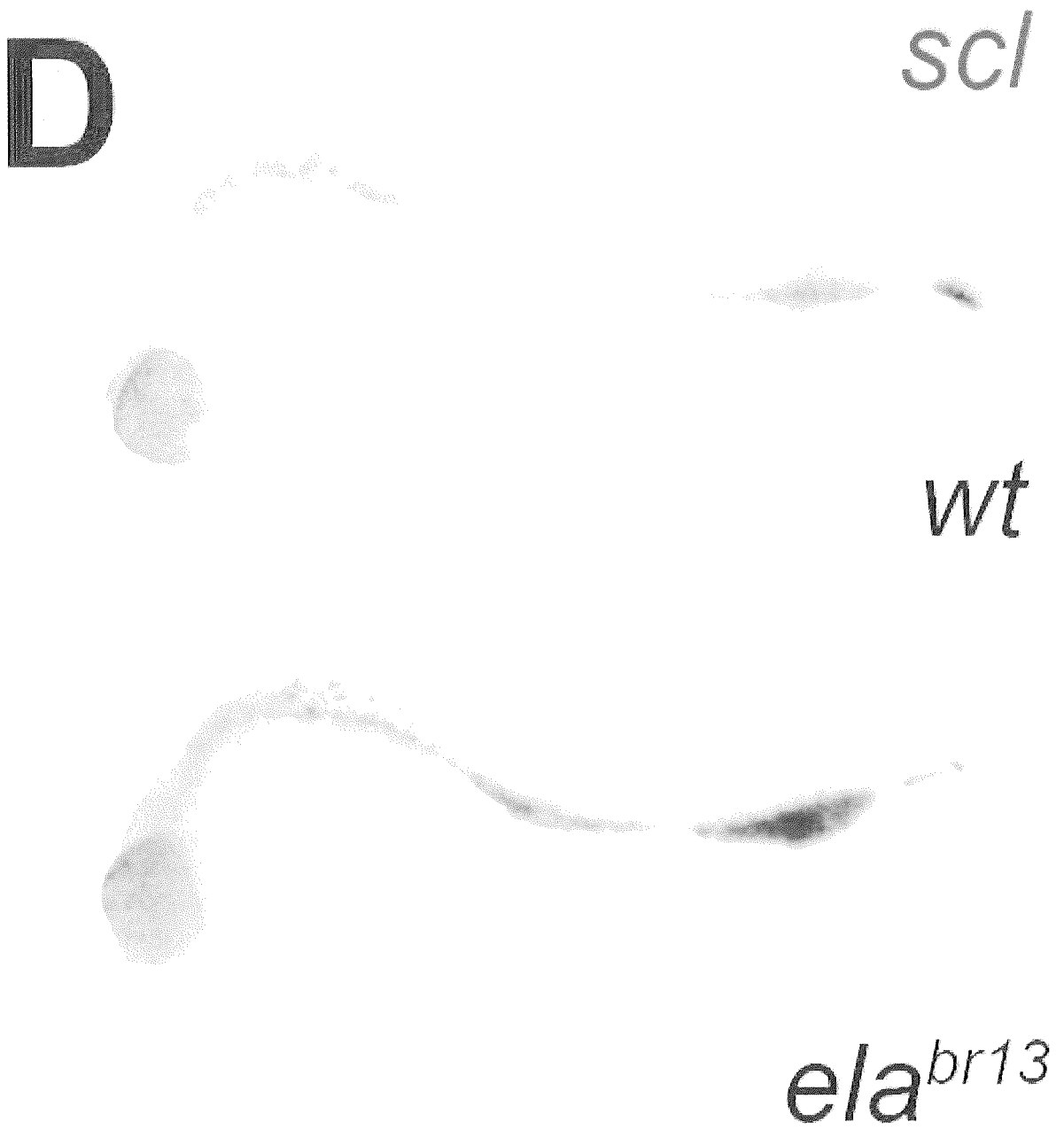
FIGURE 5D

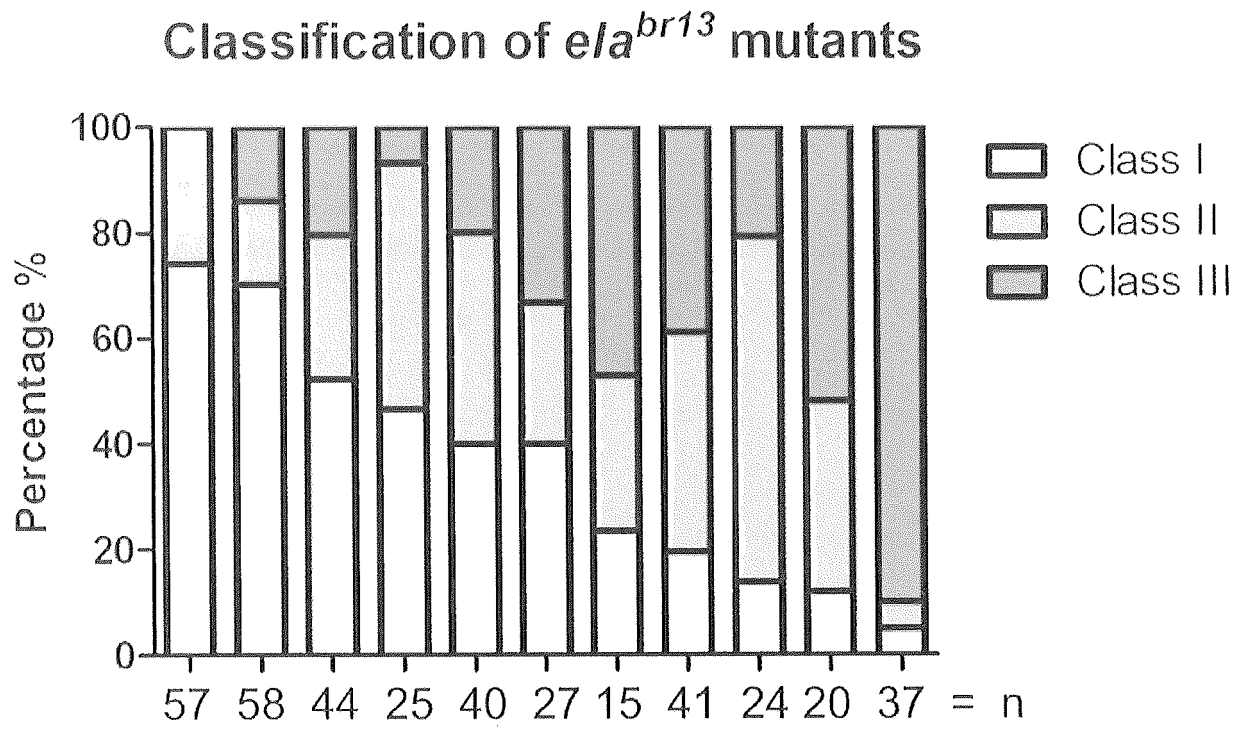
FIGURE 5E

FIGURE 5F

┐

	<i>ela</i> ^{br13}	<i>ela</i> ^{br15}	<i>ela</i> ^{br21}
mutant embryos	670	1087	1664
mutant adults	25	9	17
escapee %	3.7	0.8	1.0

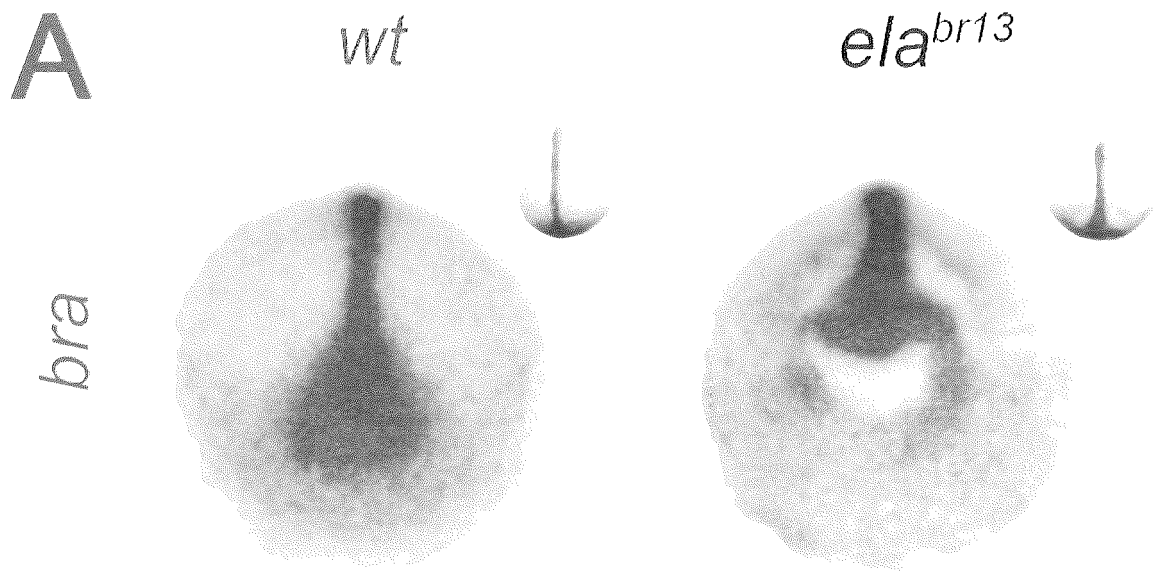
FIGURE 6A

FIGURE 6B

B

gata5

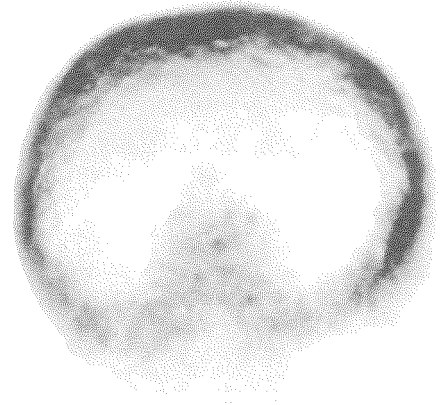
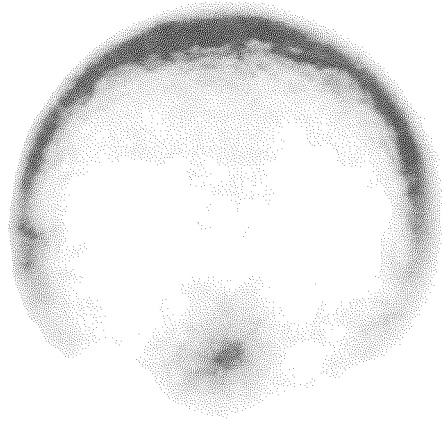


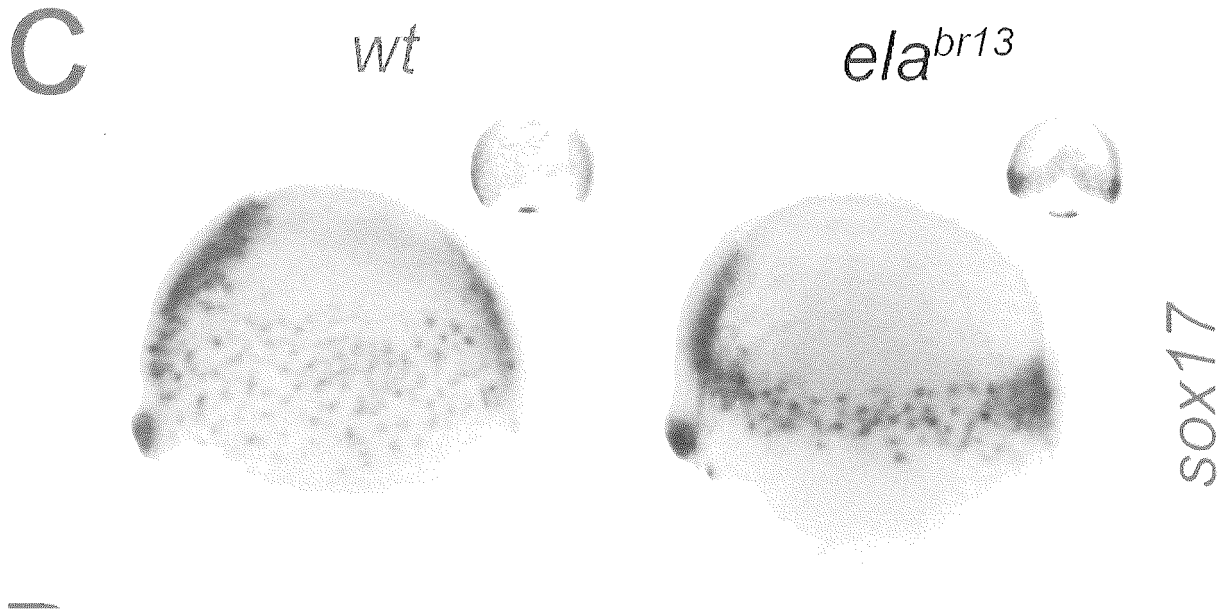
FIGURE 6C

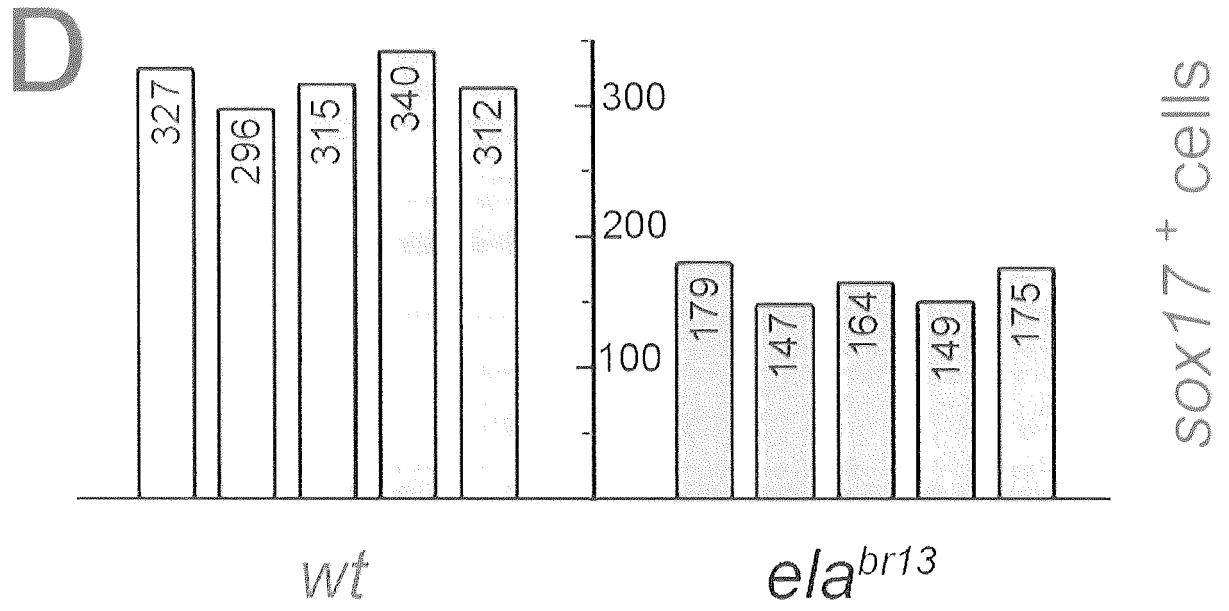
FIGURE 6D

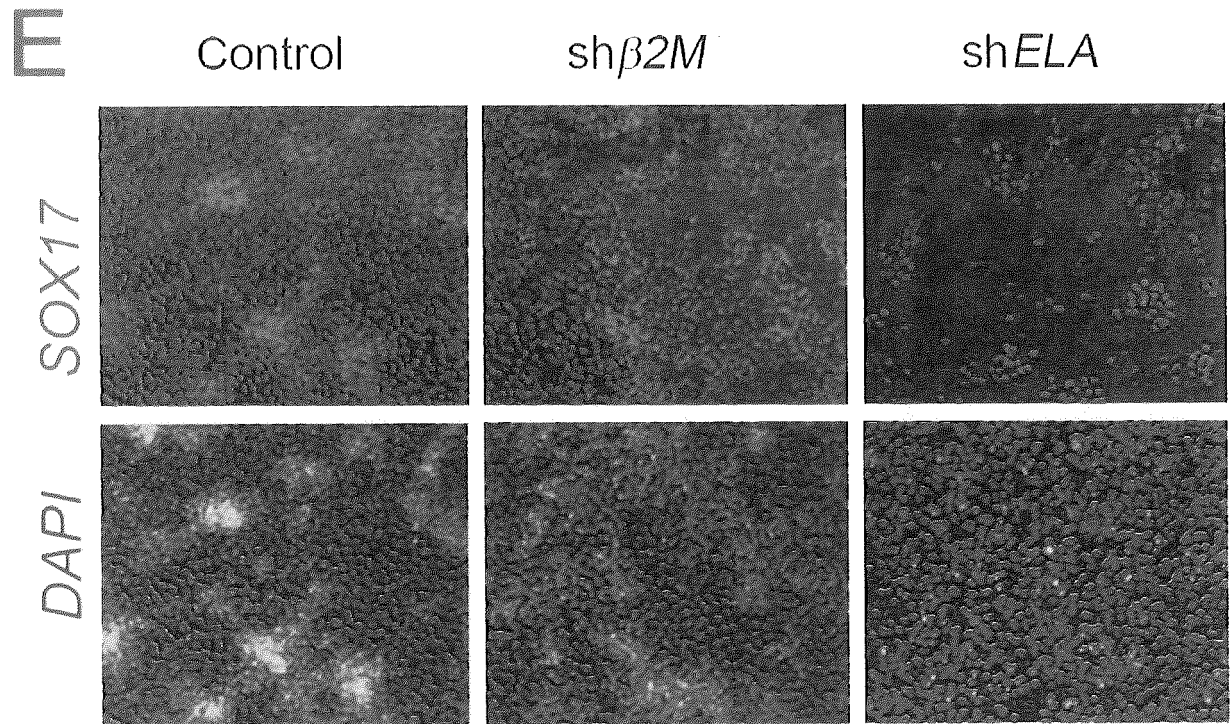
FIGURE 6E

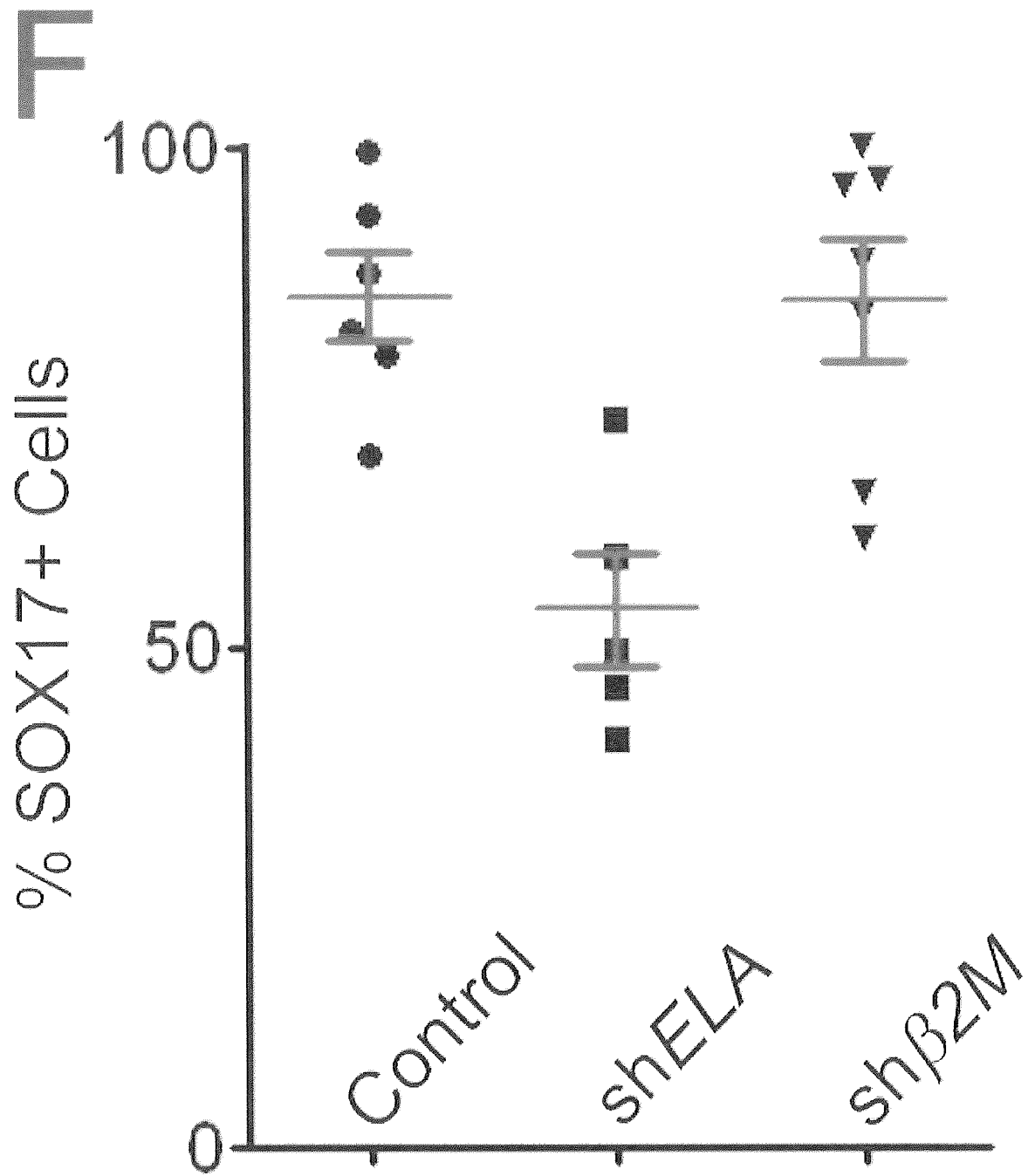
FIGURE 6F

FIGURE 7A

		Isoelectric Point
ELA	GQ R PVNLT M RRK L RKH NC LQ RR CM PL HS R VPFP	12.1
APLN	LVQ P R GS R NGPGPWQGG RRK F RR Q R P R L S HK GPMPF	12.8

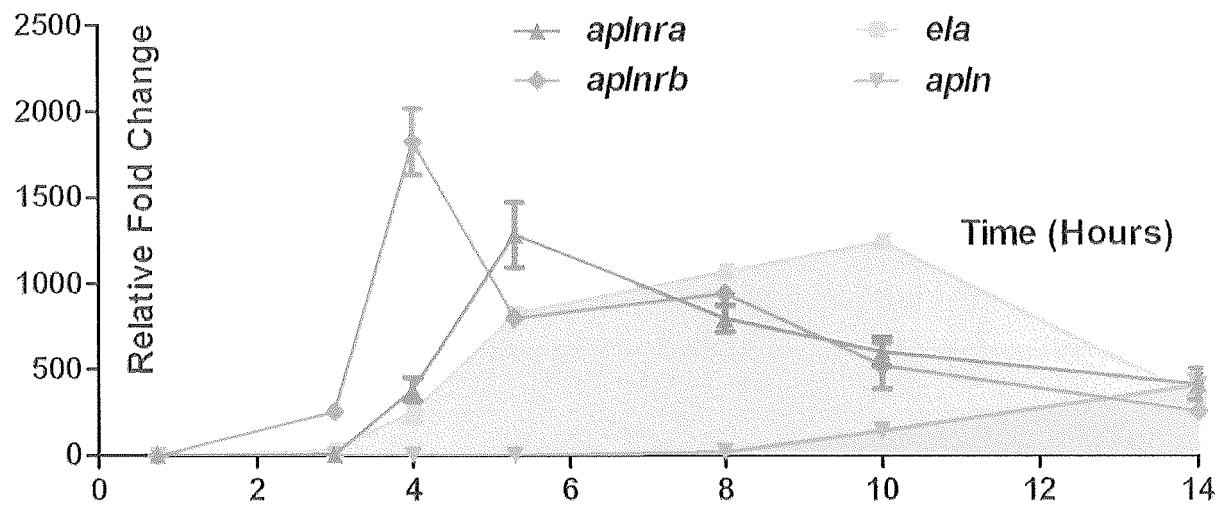
FIGURE 7B

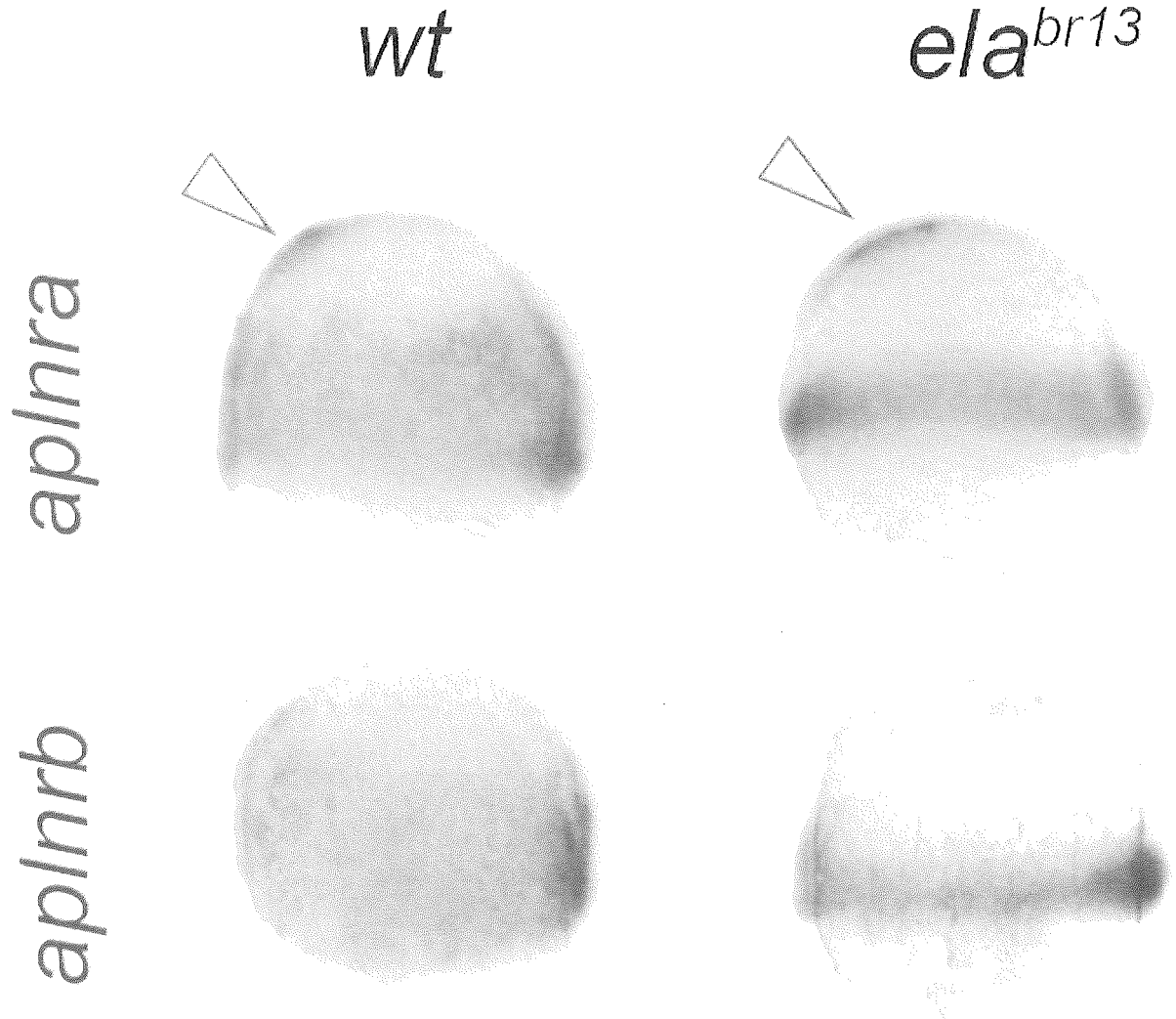
FIGURE 7C

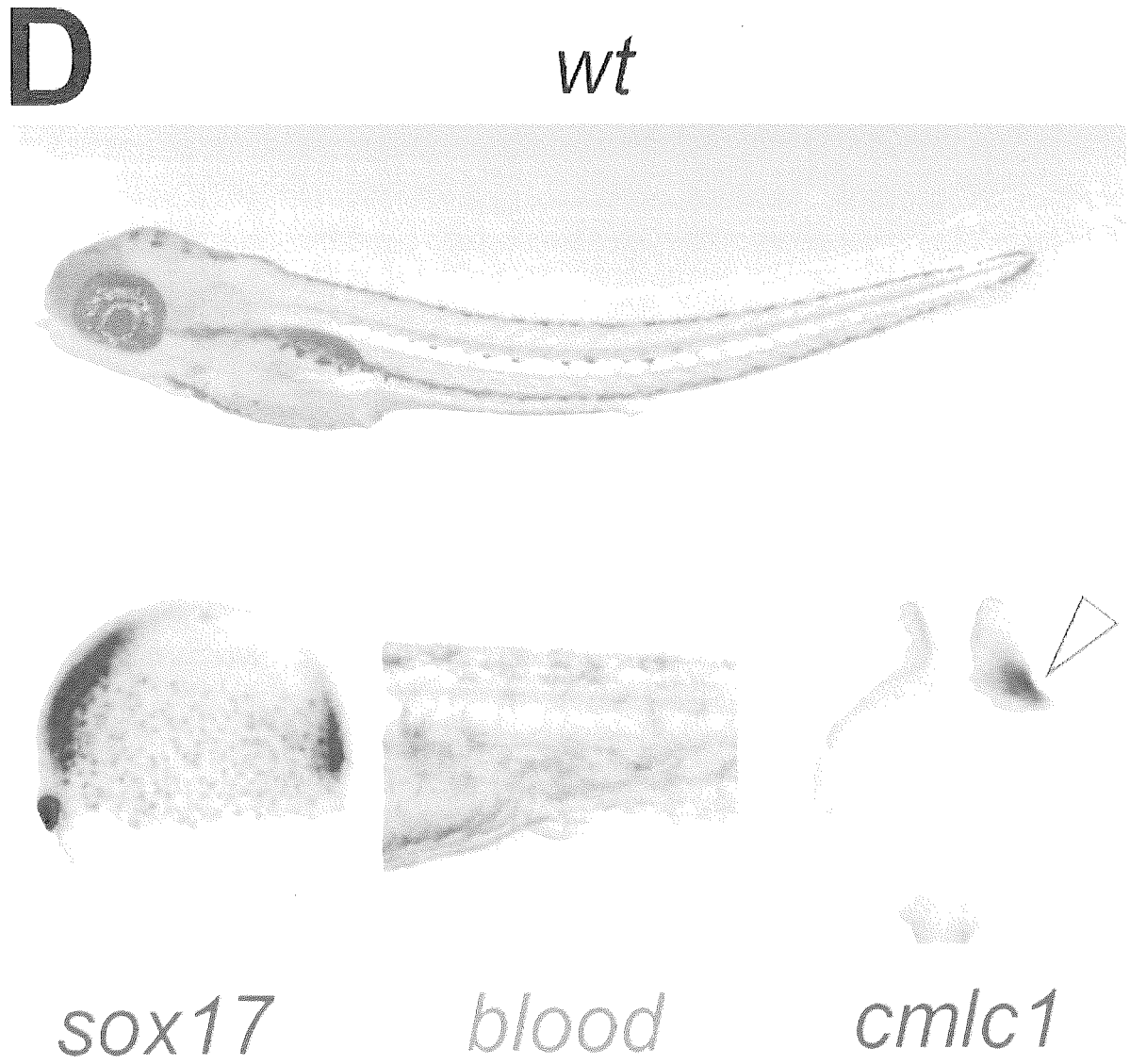
FIGURE 7D

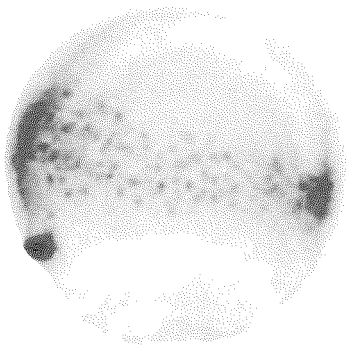
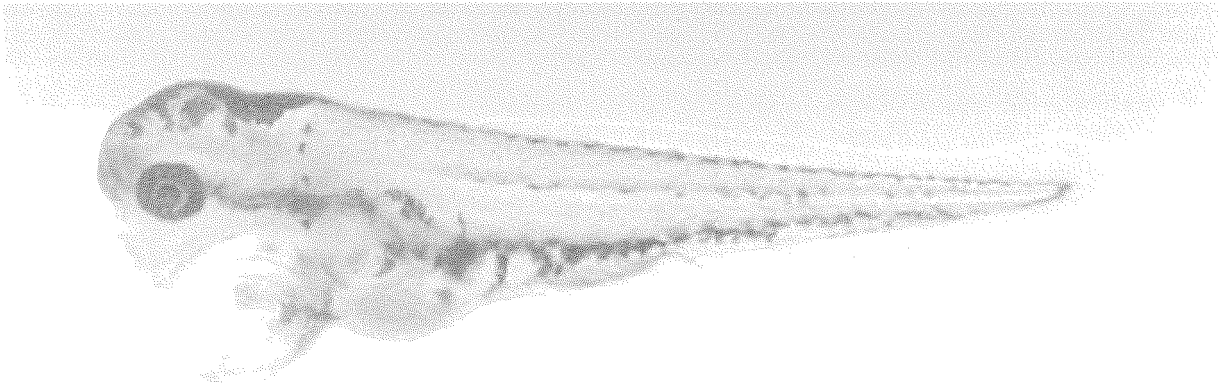
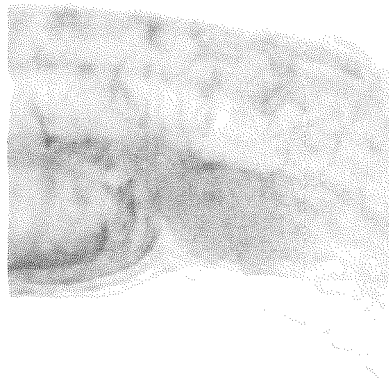
FIGURE 7E**E***aplnr* MOs*sox17**blood**cmlc1*

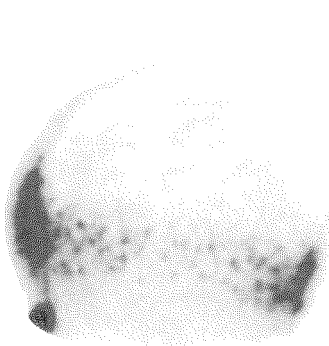
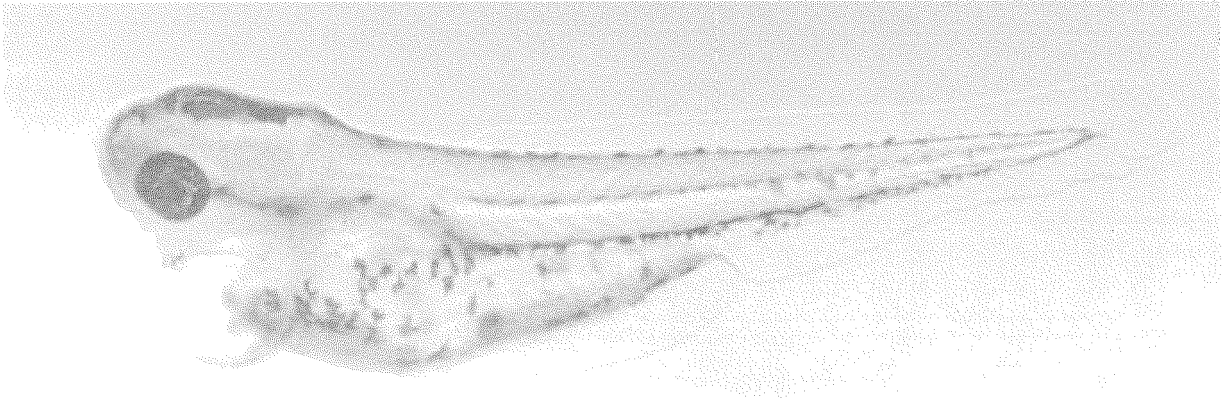
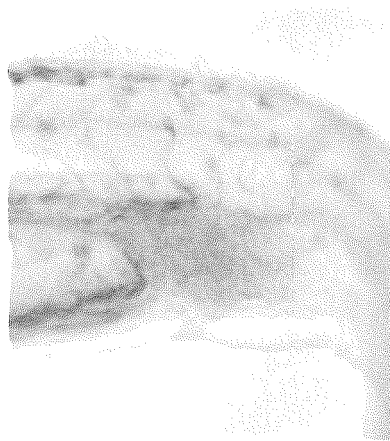
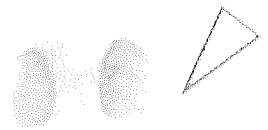
FIGURE 7F**F***ela*^{br13}*sox17**blood**cmlc1*

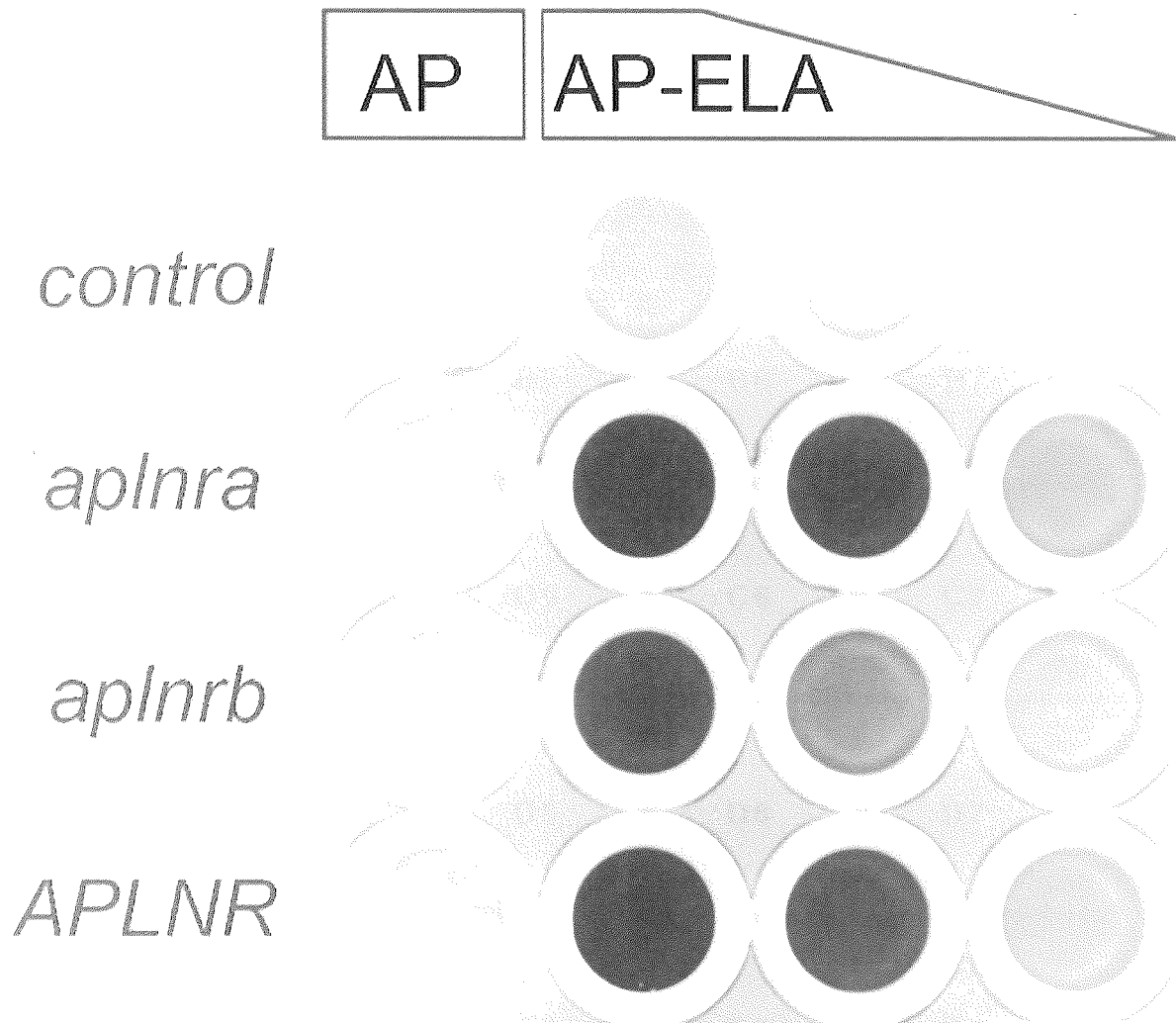
FIGURE 7G

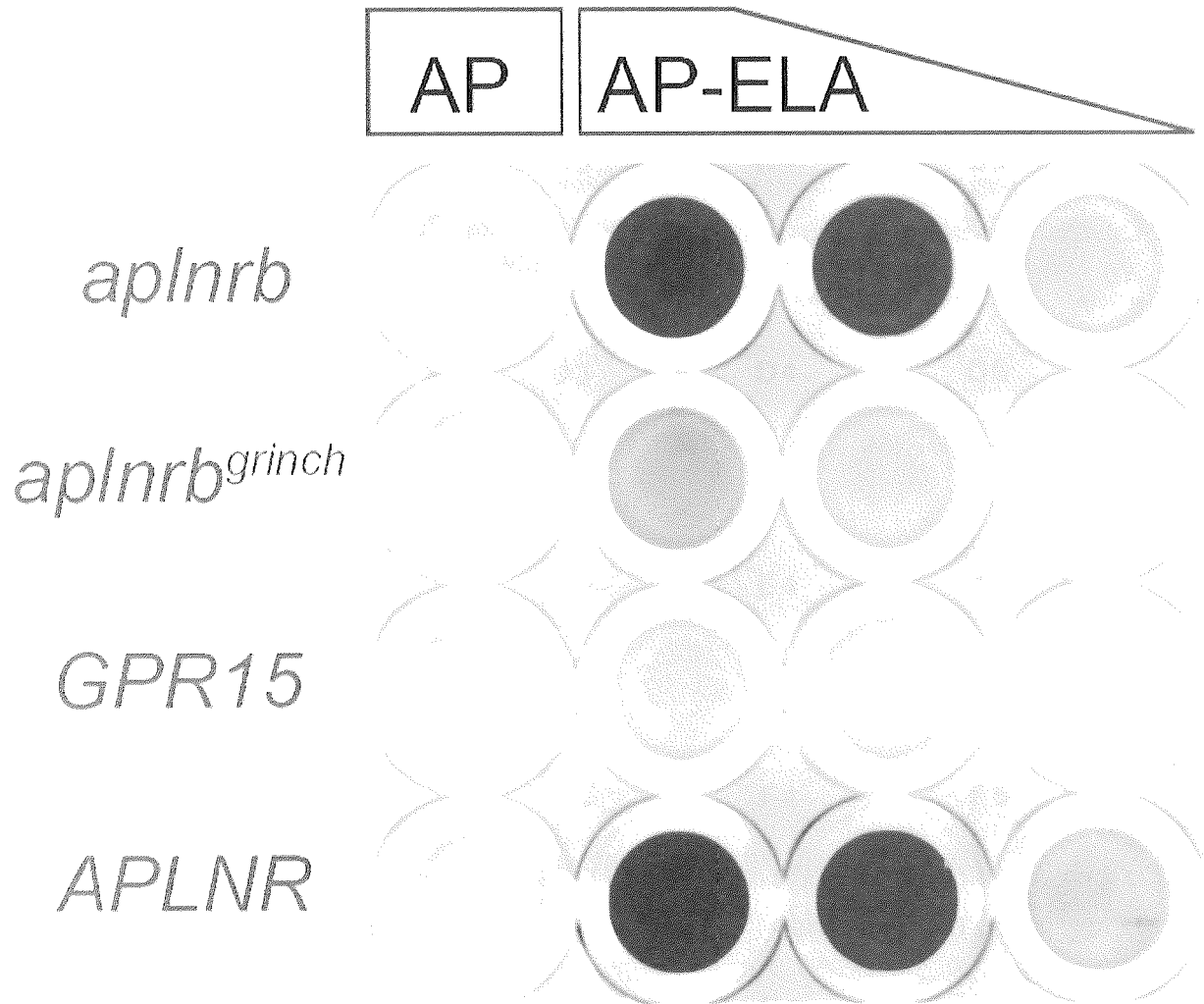
FIGURE 7H

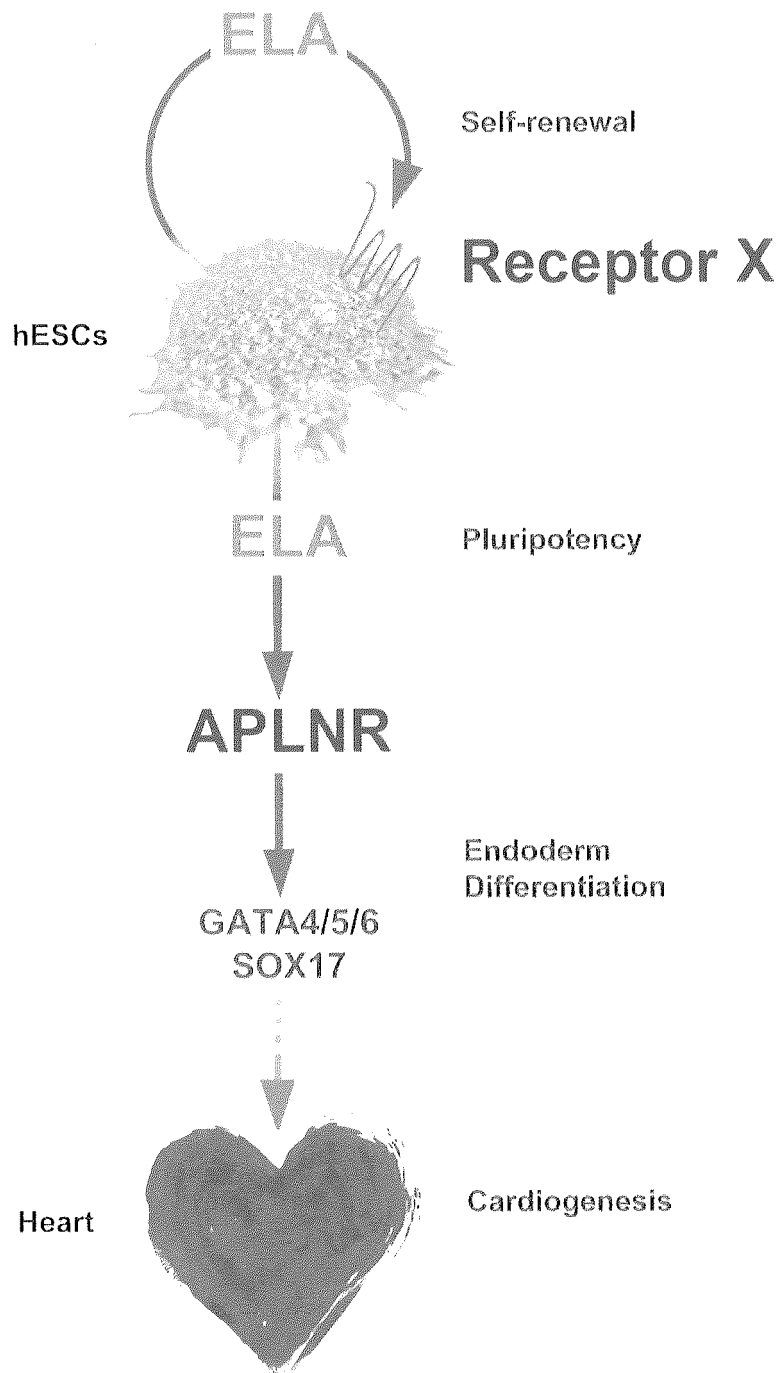
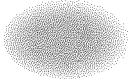
FIGURE 8

FIGURE 9A

Hs.105196 biaised towards blastocyst

embroid body	0		0 / 69969
--------------	---	--	-----------

blastocyst	97		6 / 61448
------------	----	--	-----------

fetus	1		1 / 556978
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neonate	0		0 / 31070
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FIGURE 9B

Hs.105196 GEO pre-implantation profile

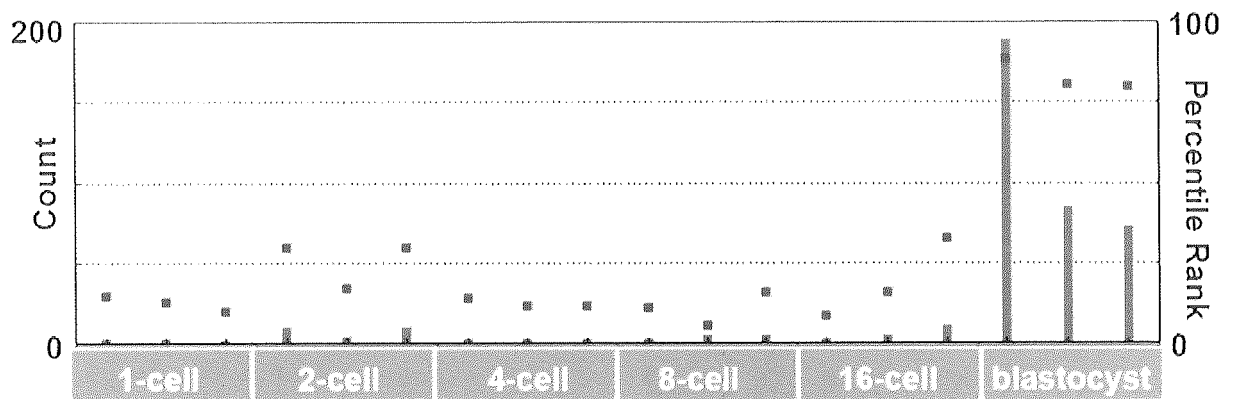


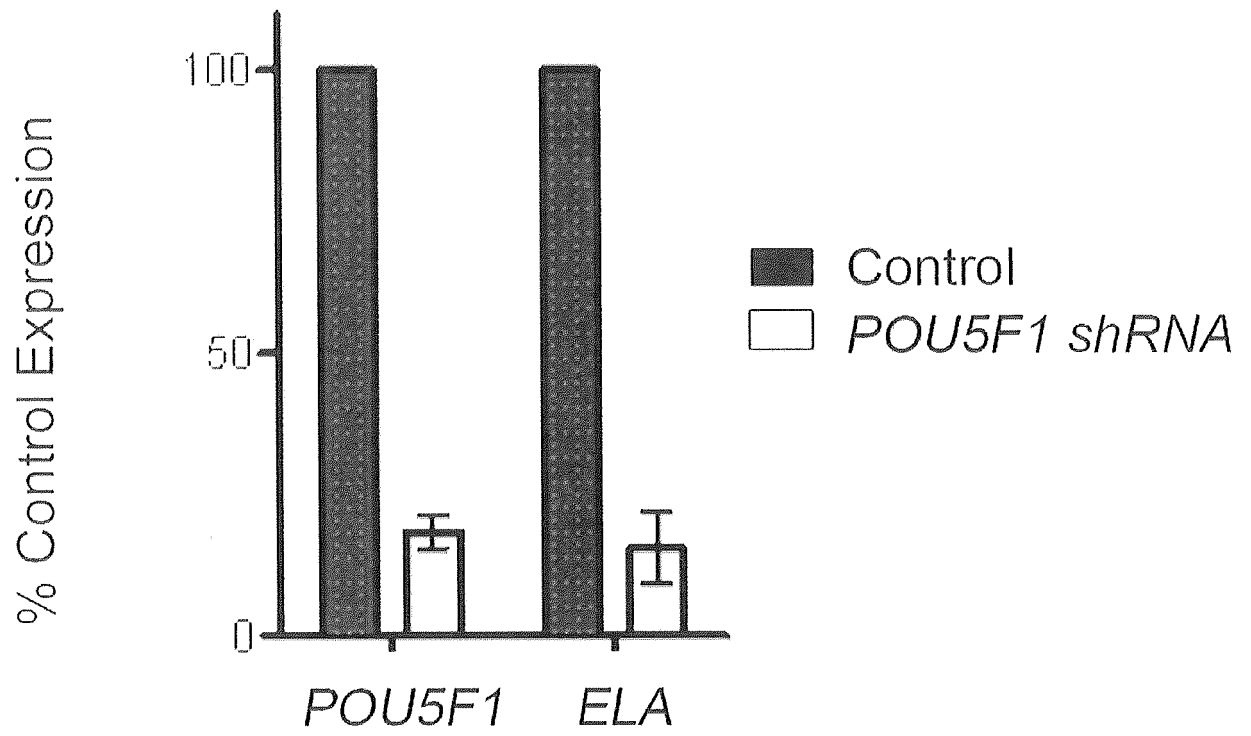
FIGURE 9C

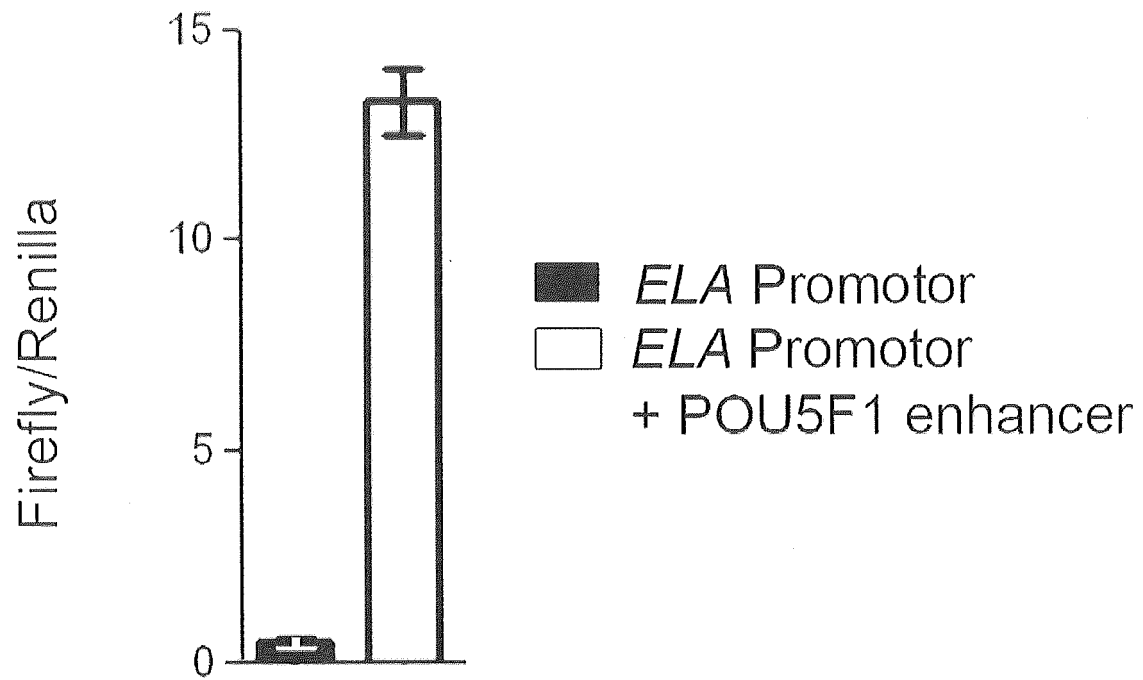
FIGURE 9D

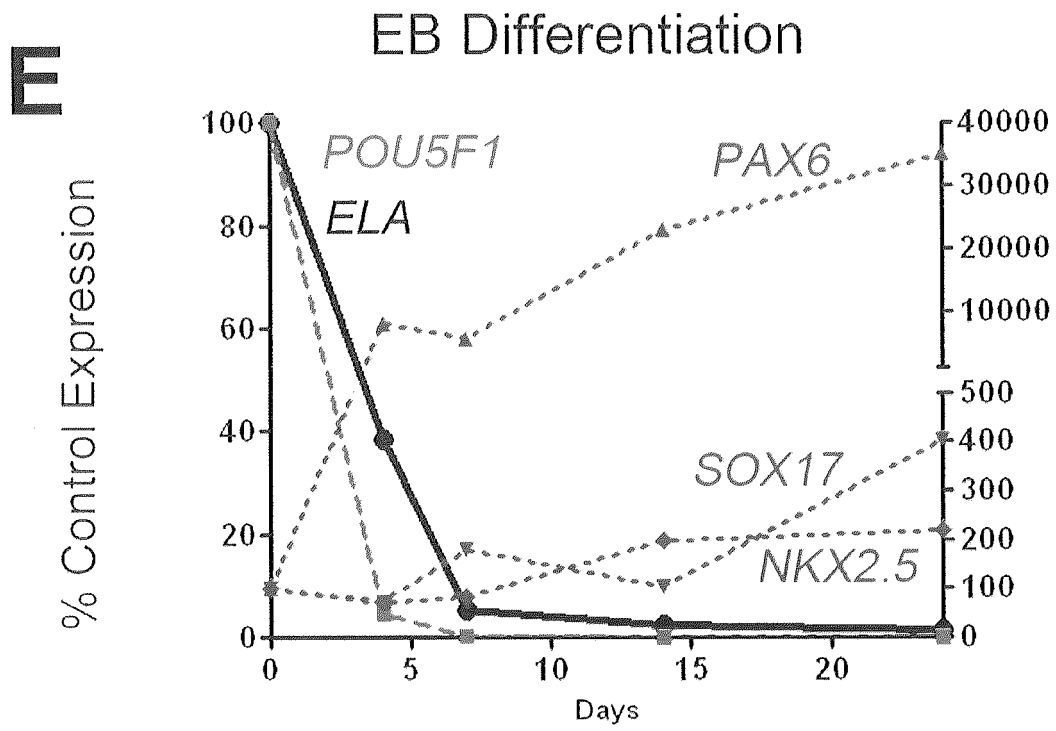
FIGURE 9E

FIGURE 9F

Endoderm Differentiation

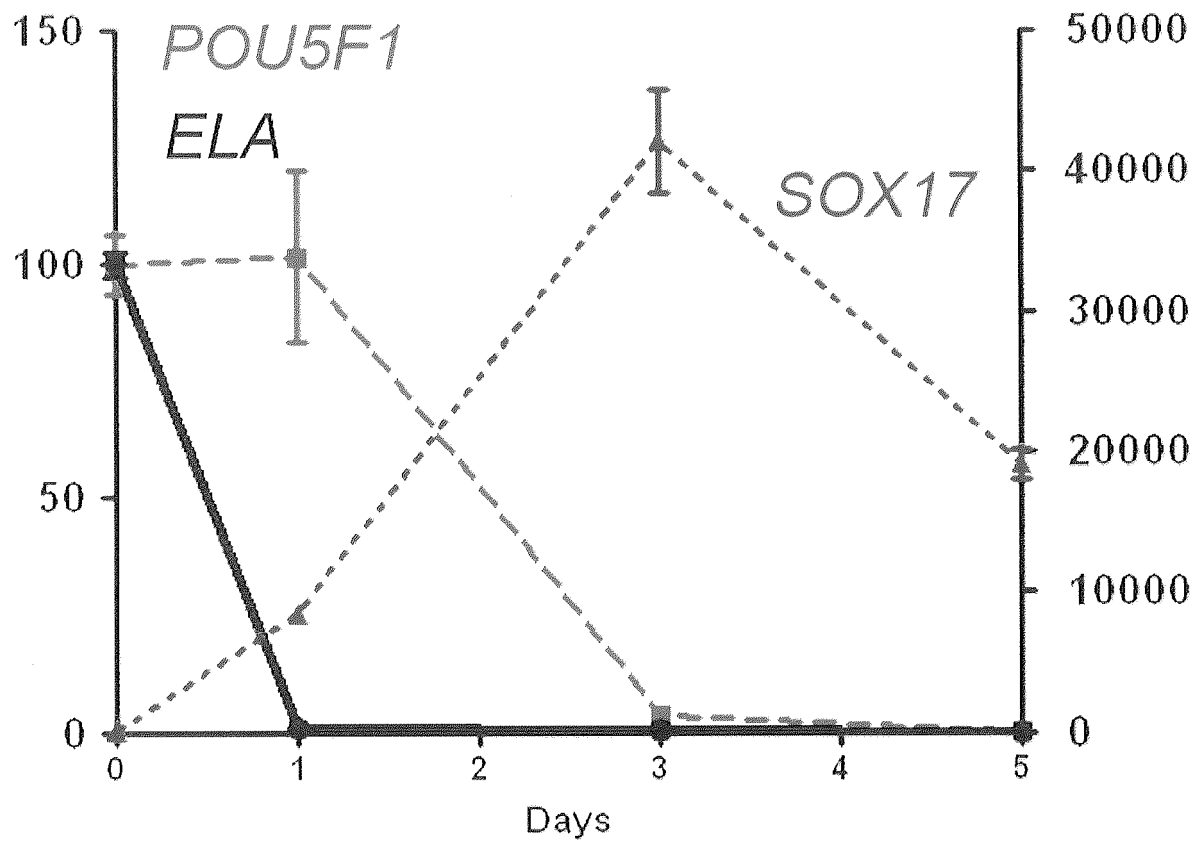
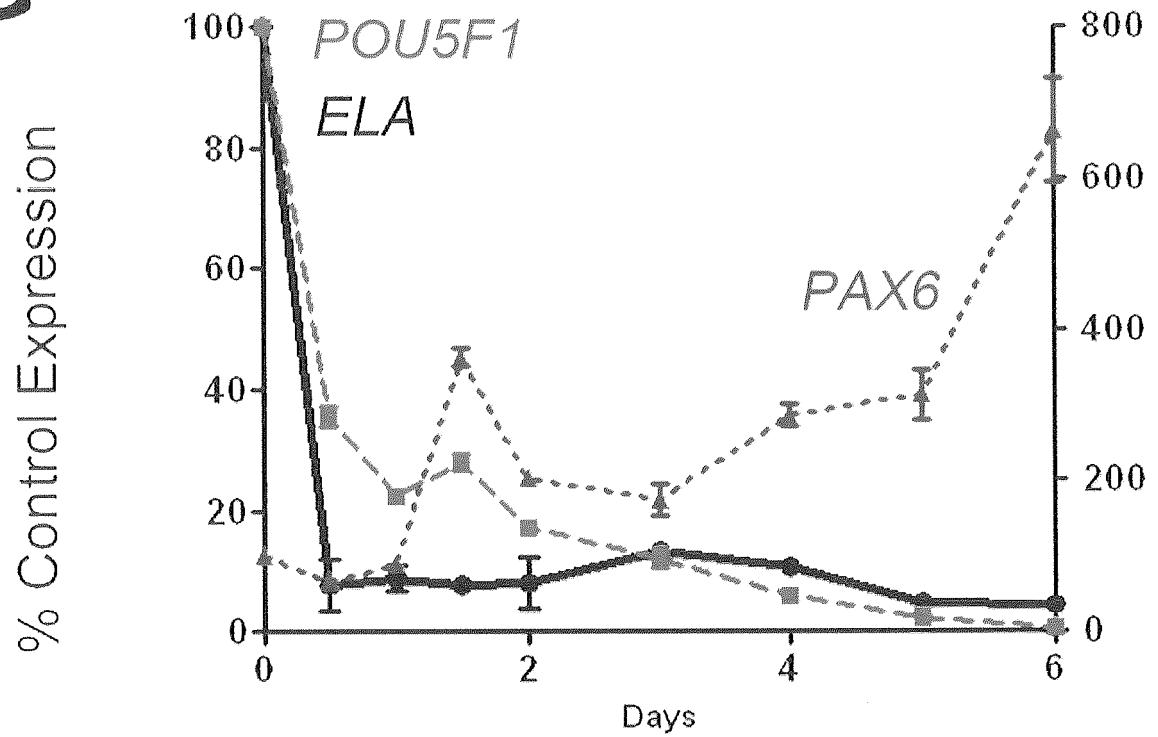
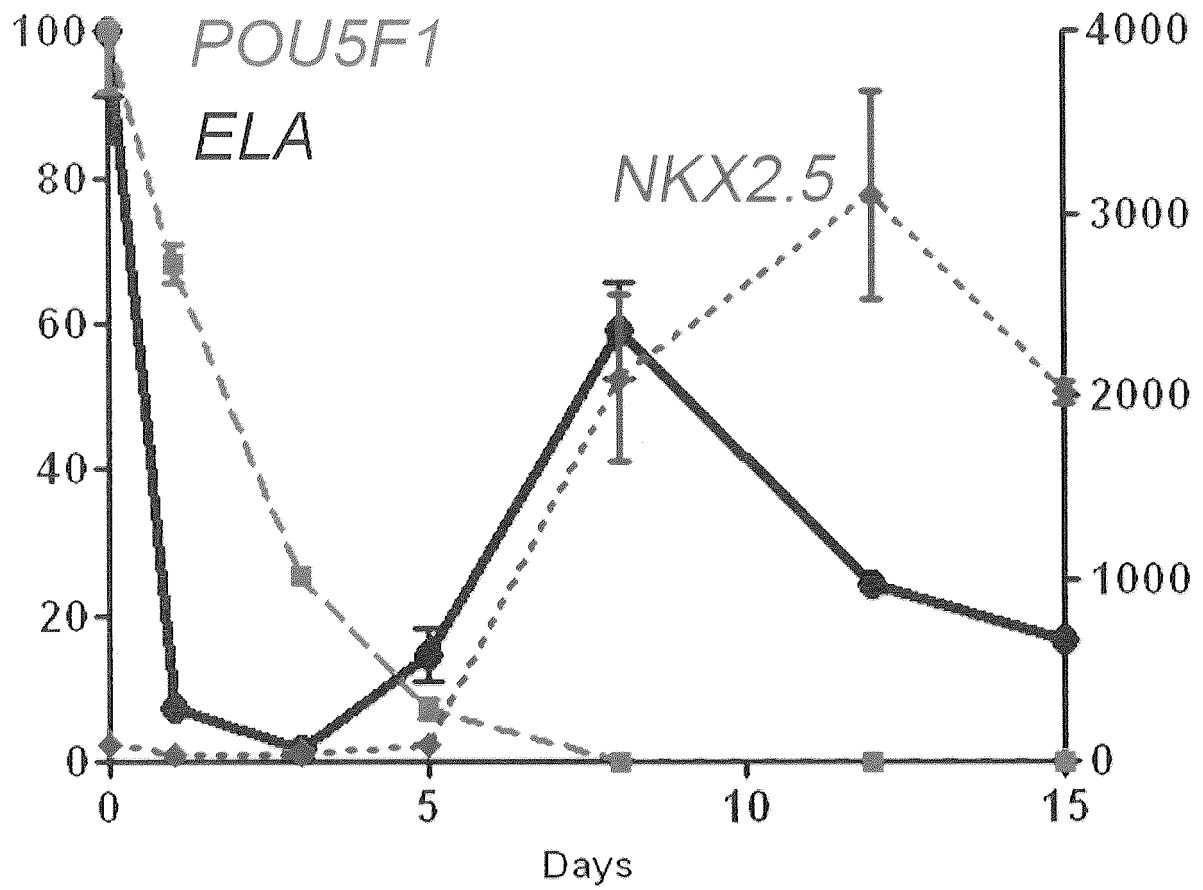


FIGURE 9G**G**

Neuroectoderm Differentiation

FIGURE 9H

Cardiac Differentiation

FIGURE 10A

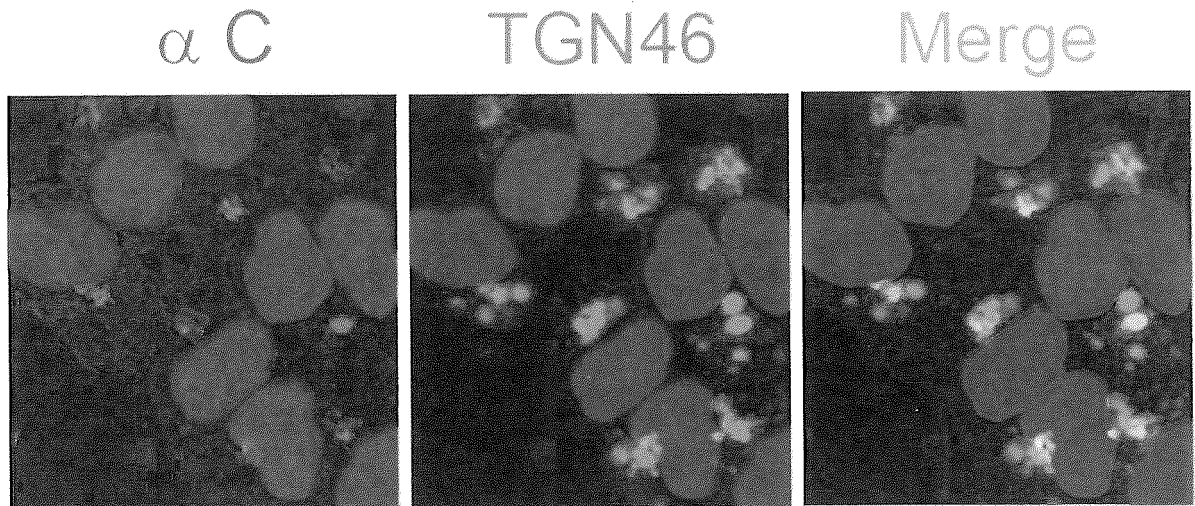


FIGURE 10B

α N

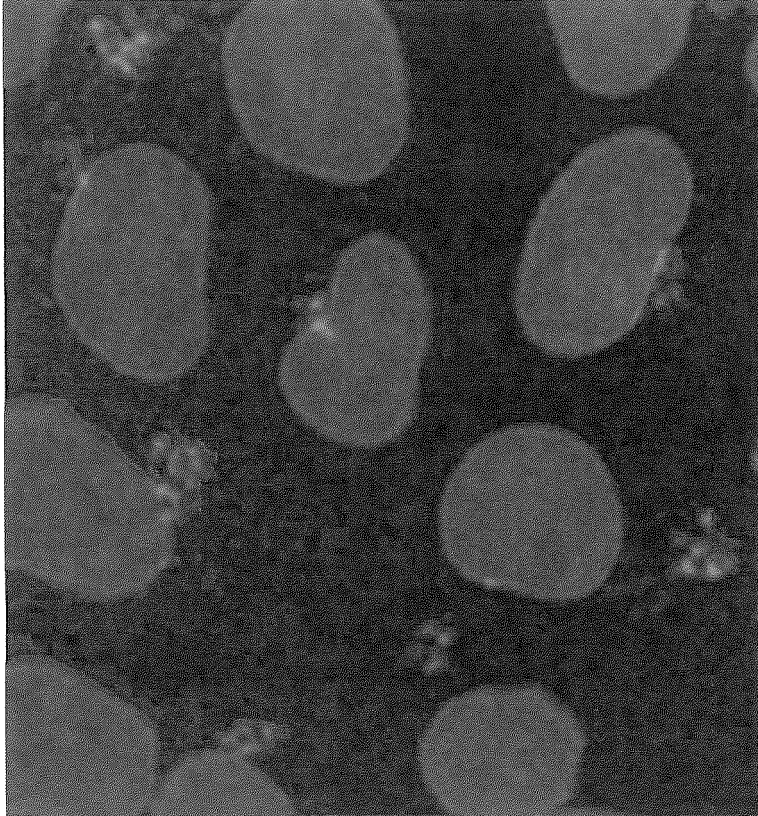


FIGURE 10C

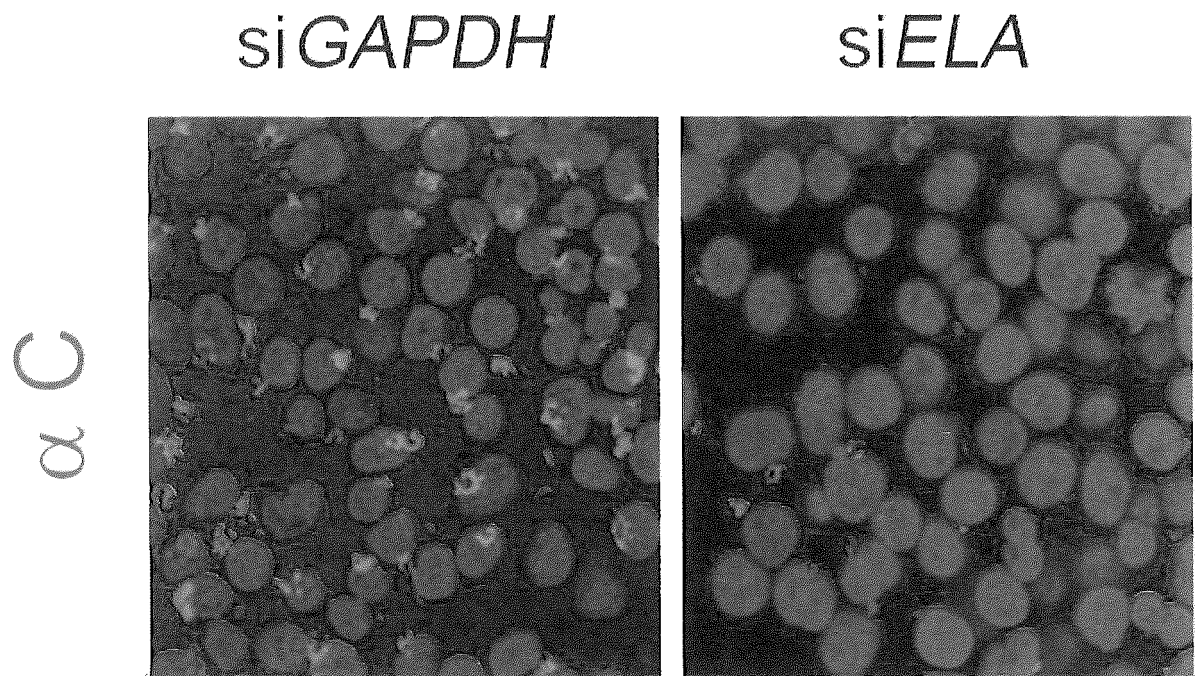


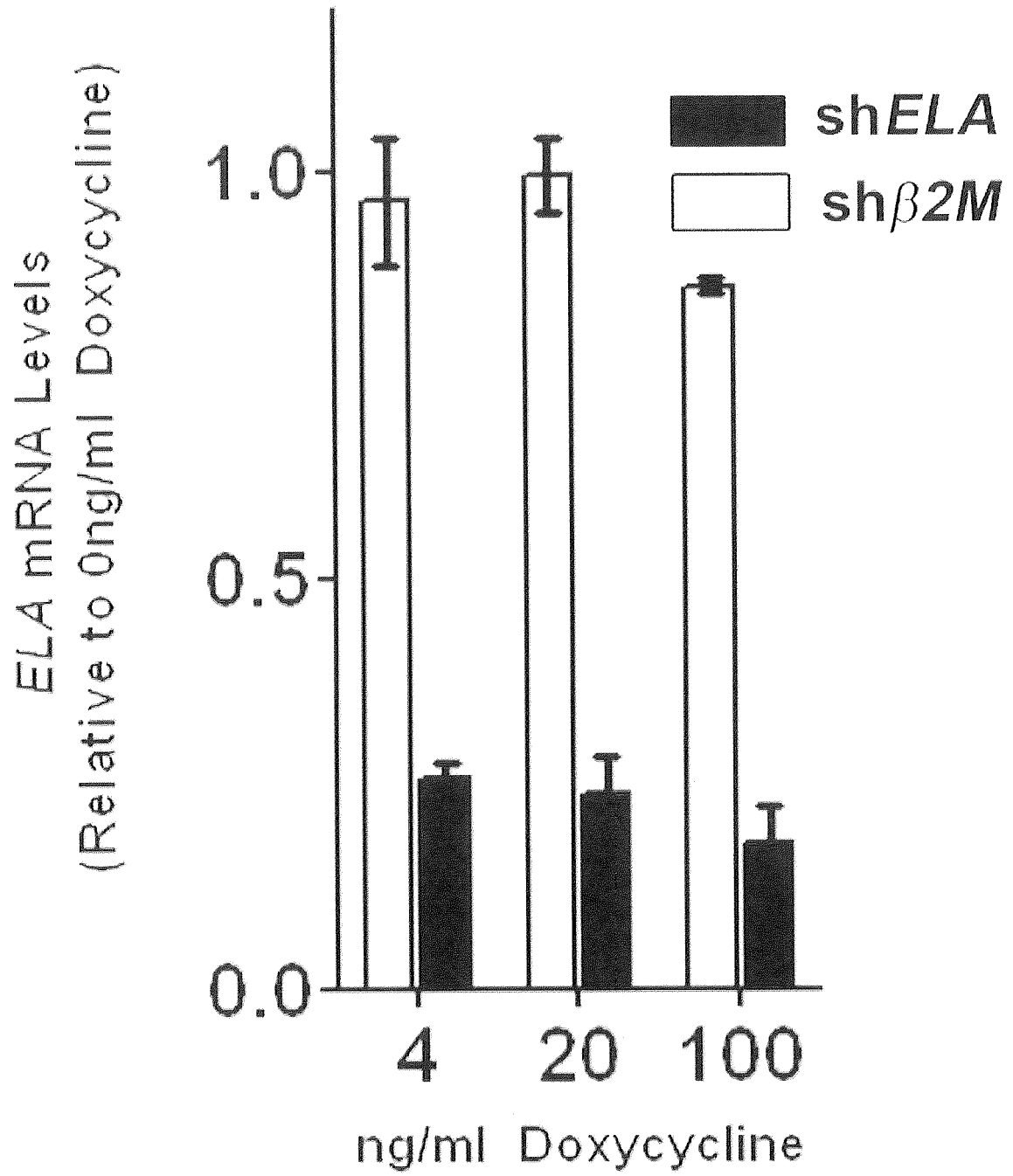
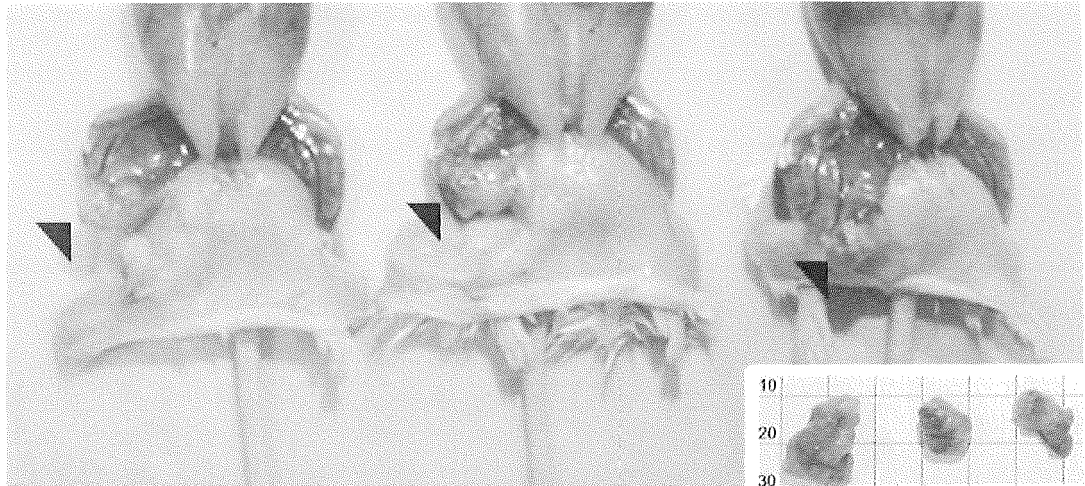
FIGURE 10D

FIGURE 10E

Teratomas

Control hESCs



shELA hESCs

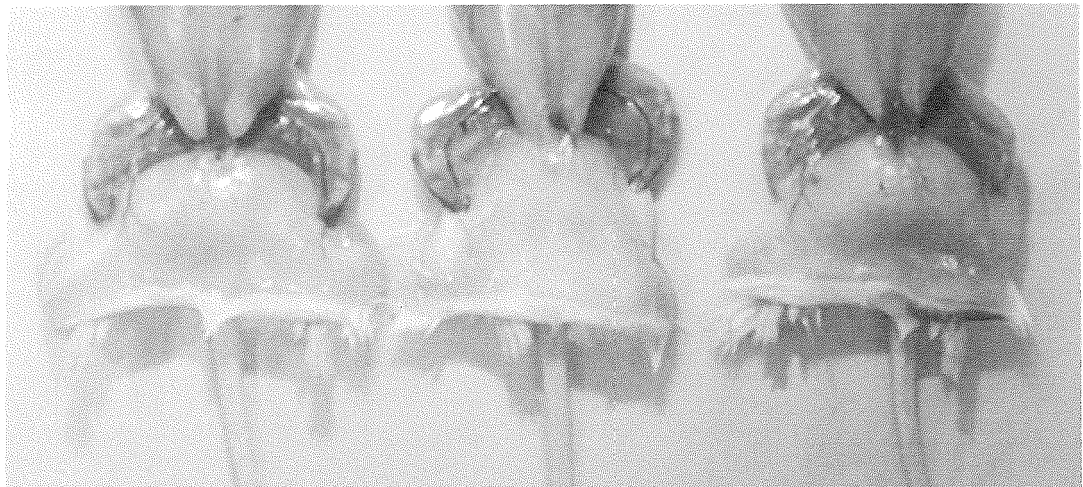


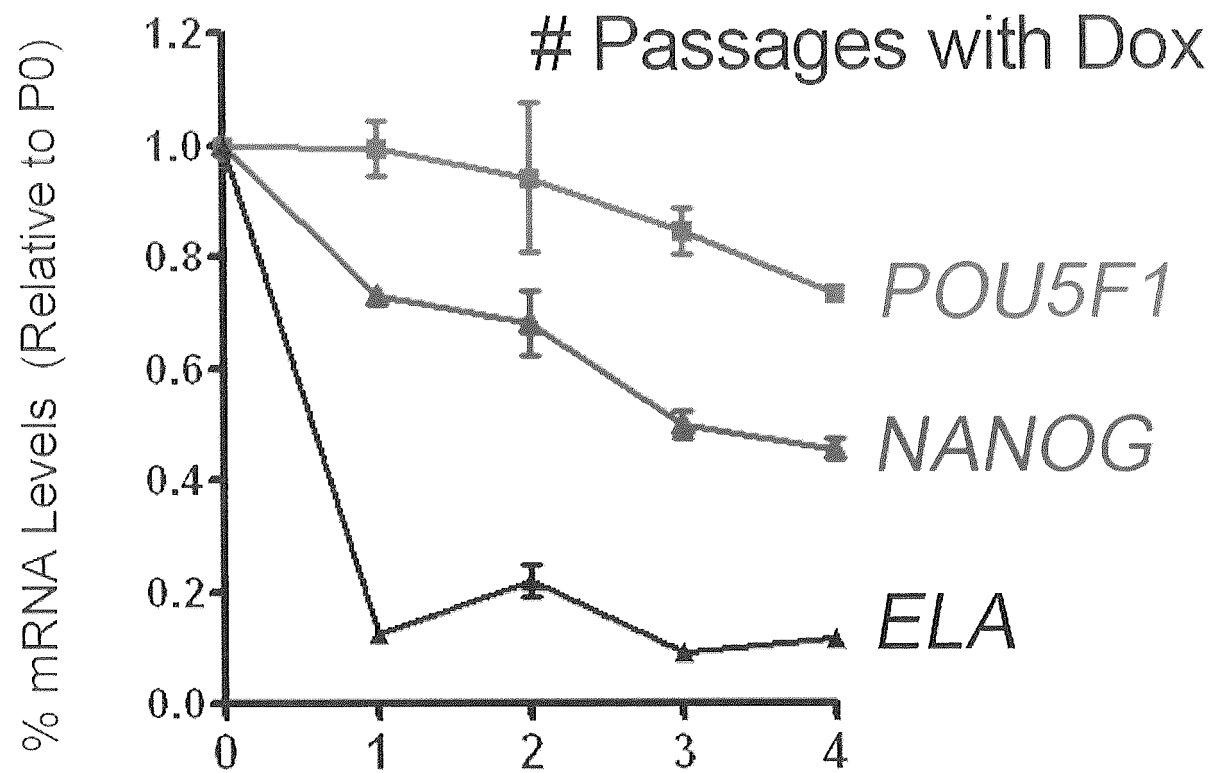
FIGURE 10F

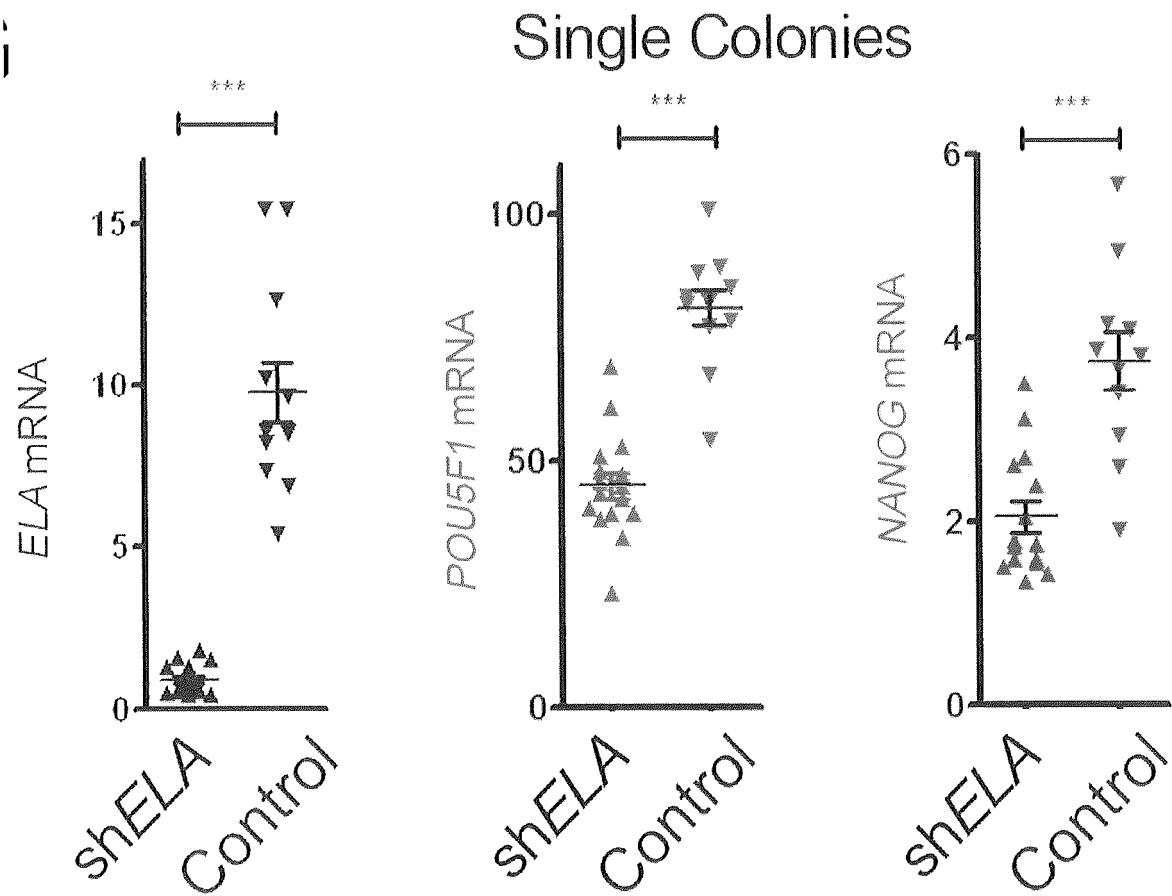
FIGURE 10G

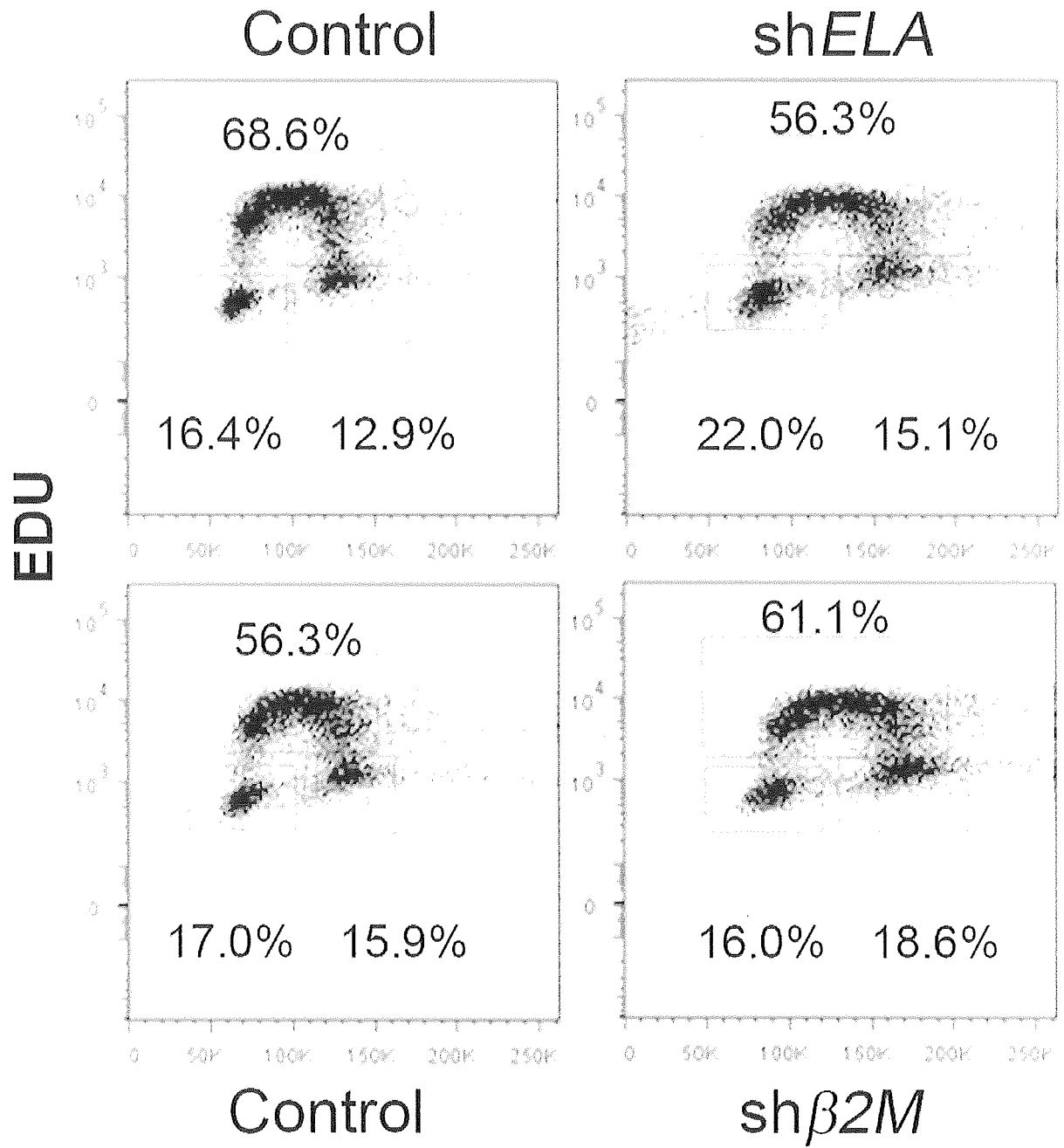
FIGURE 10H

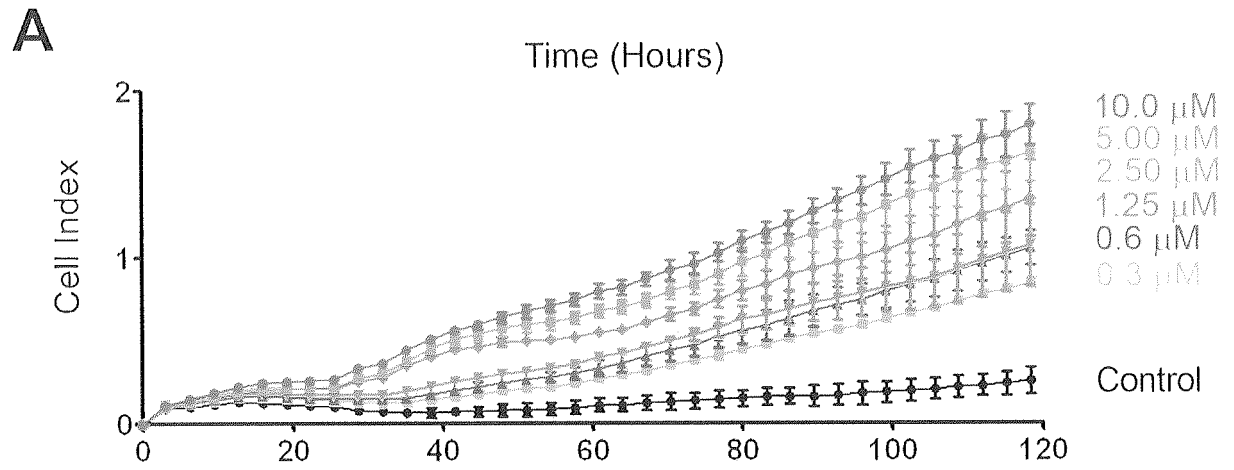
FIGURE 11A

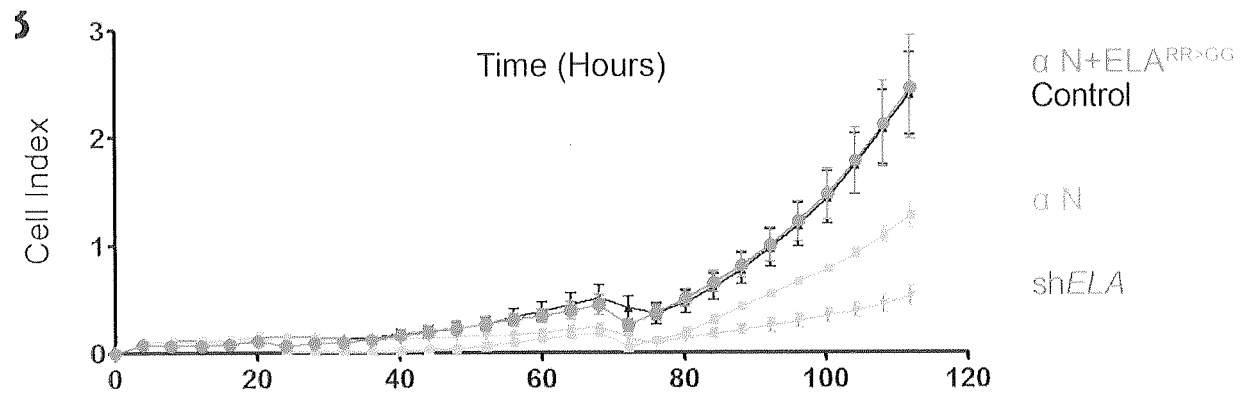
FIGURE 11B

FIGURE 12A

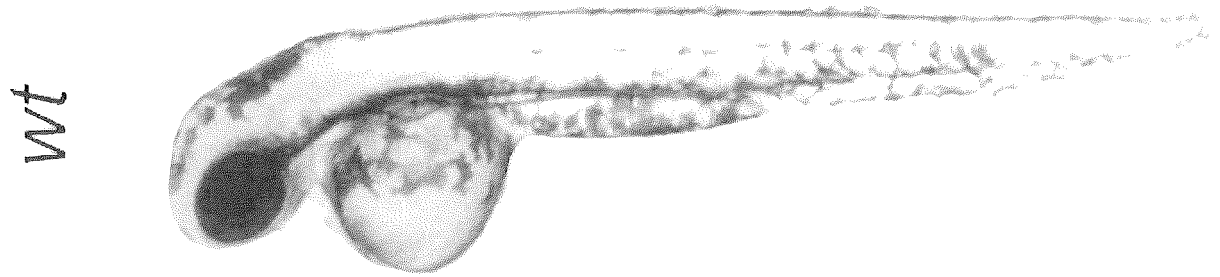


FIGURE 12B

ela^{br21}

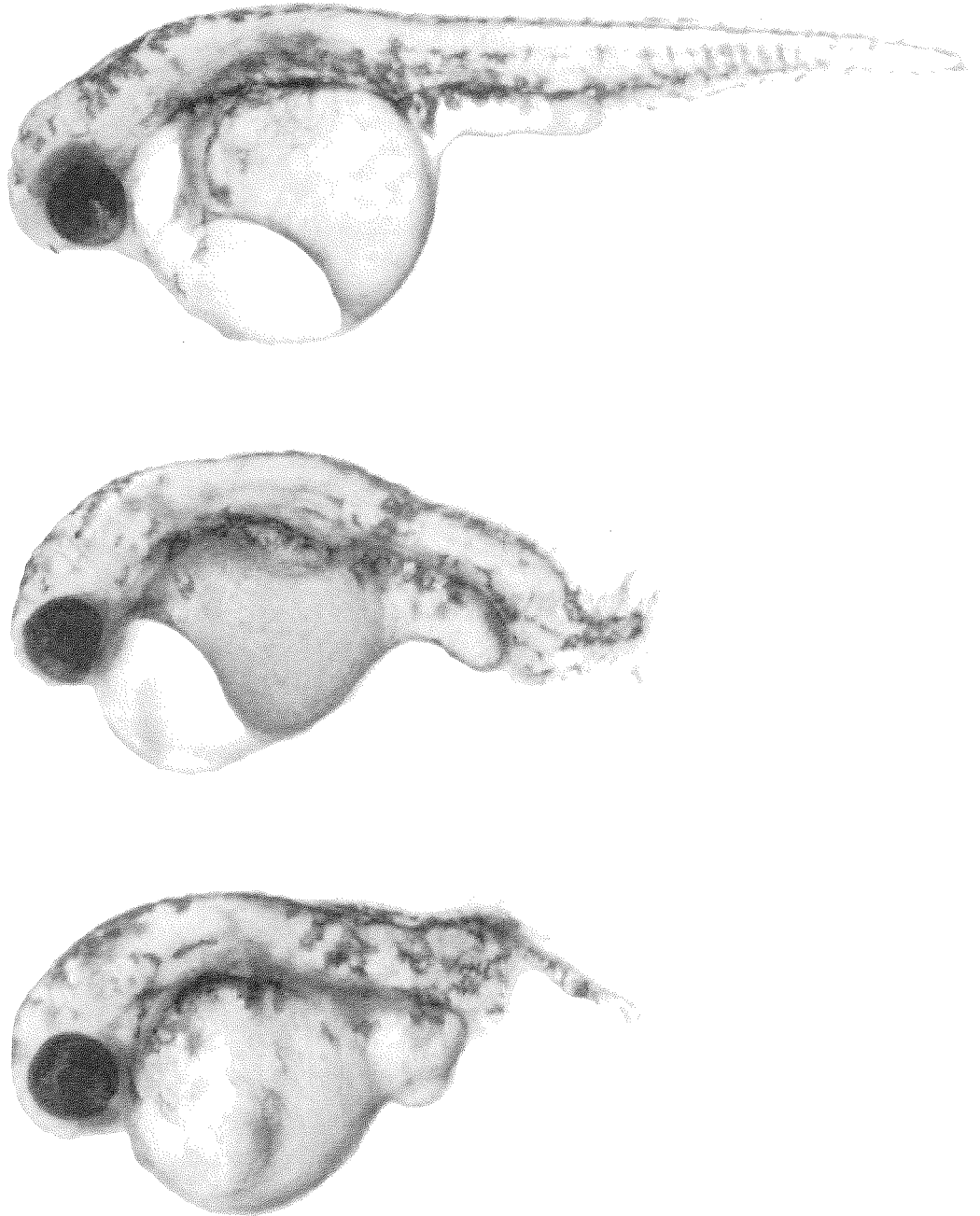


FIGURE 12C

ela^{br15}

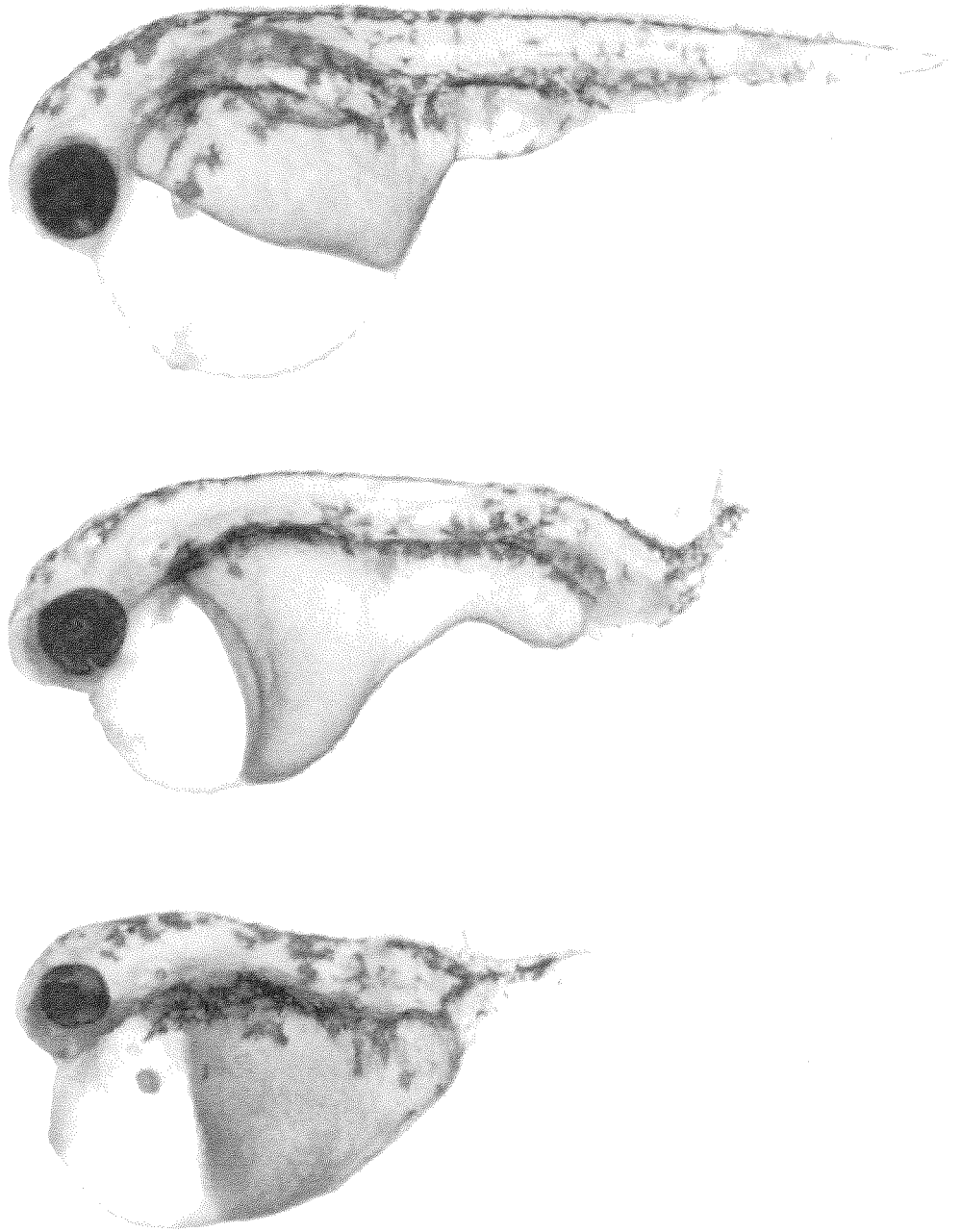


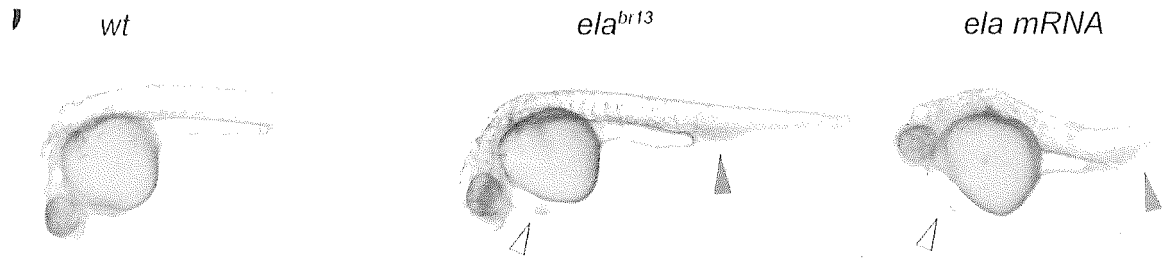
FIGURE 12D

FIGURE 13A

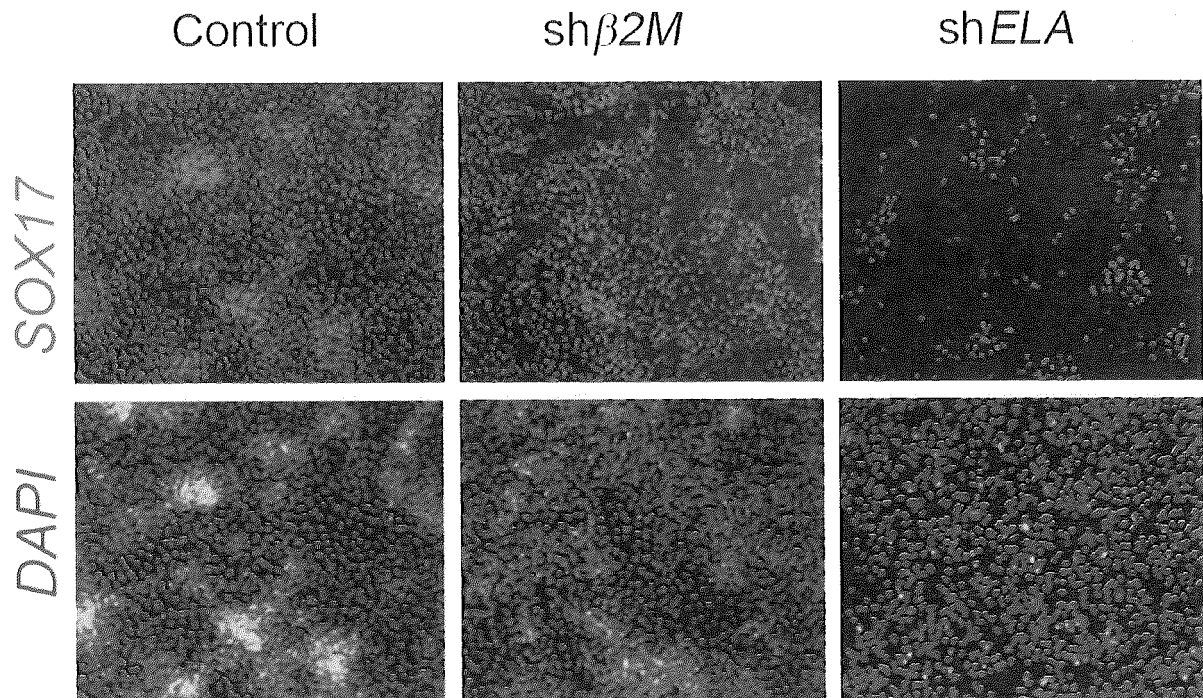
FIGURE 13B

FIGURE 13C

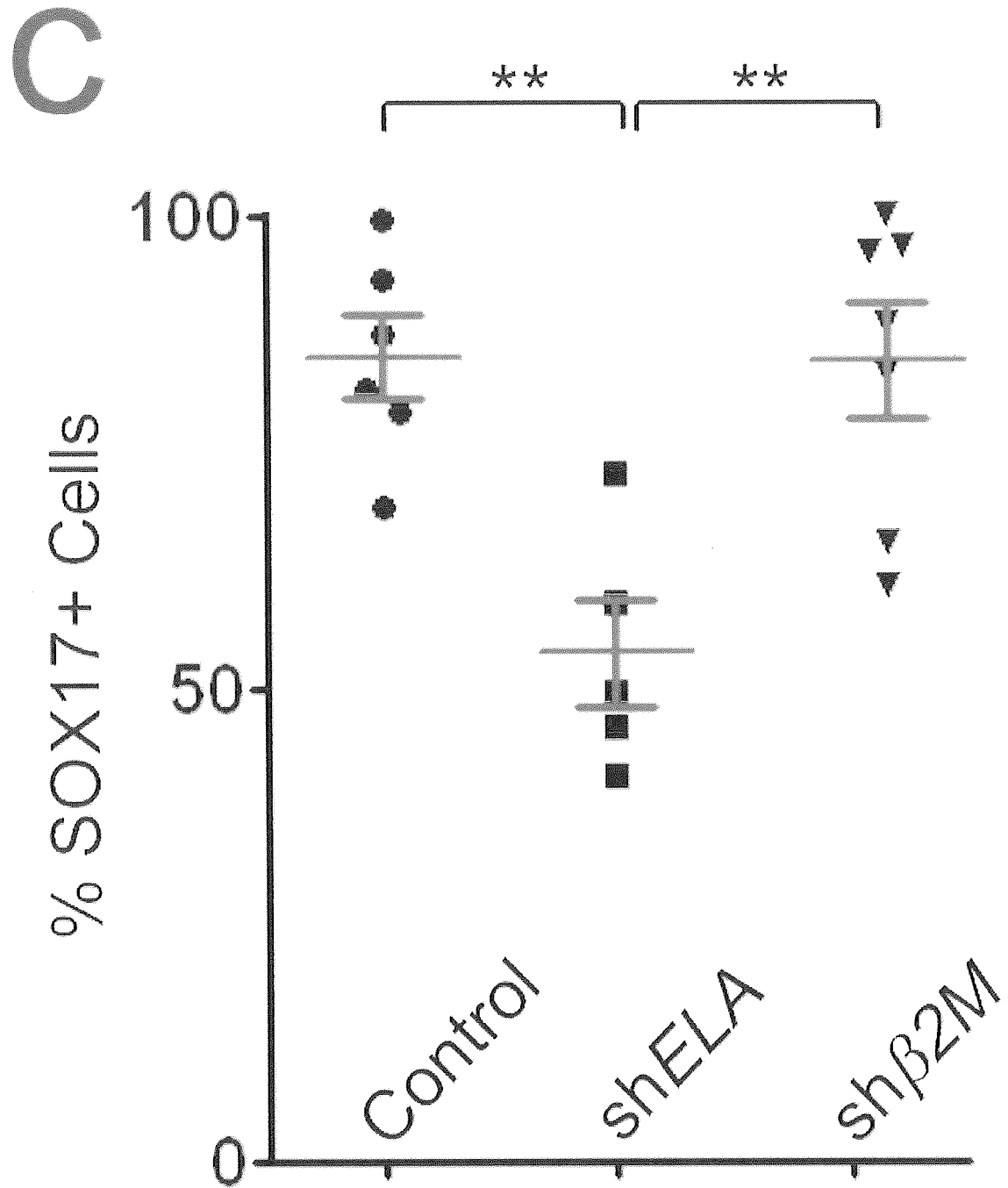


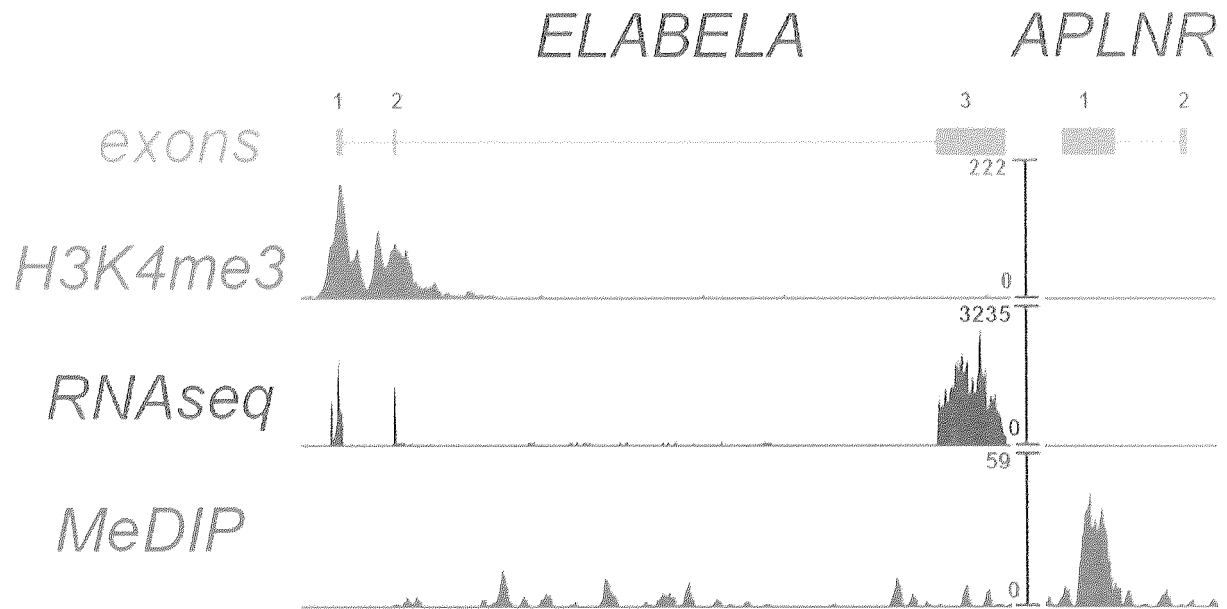
FIGURE 14A

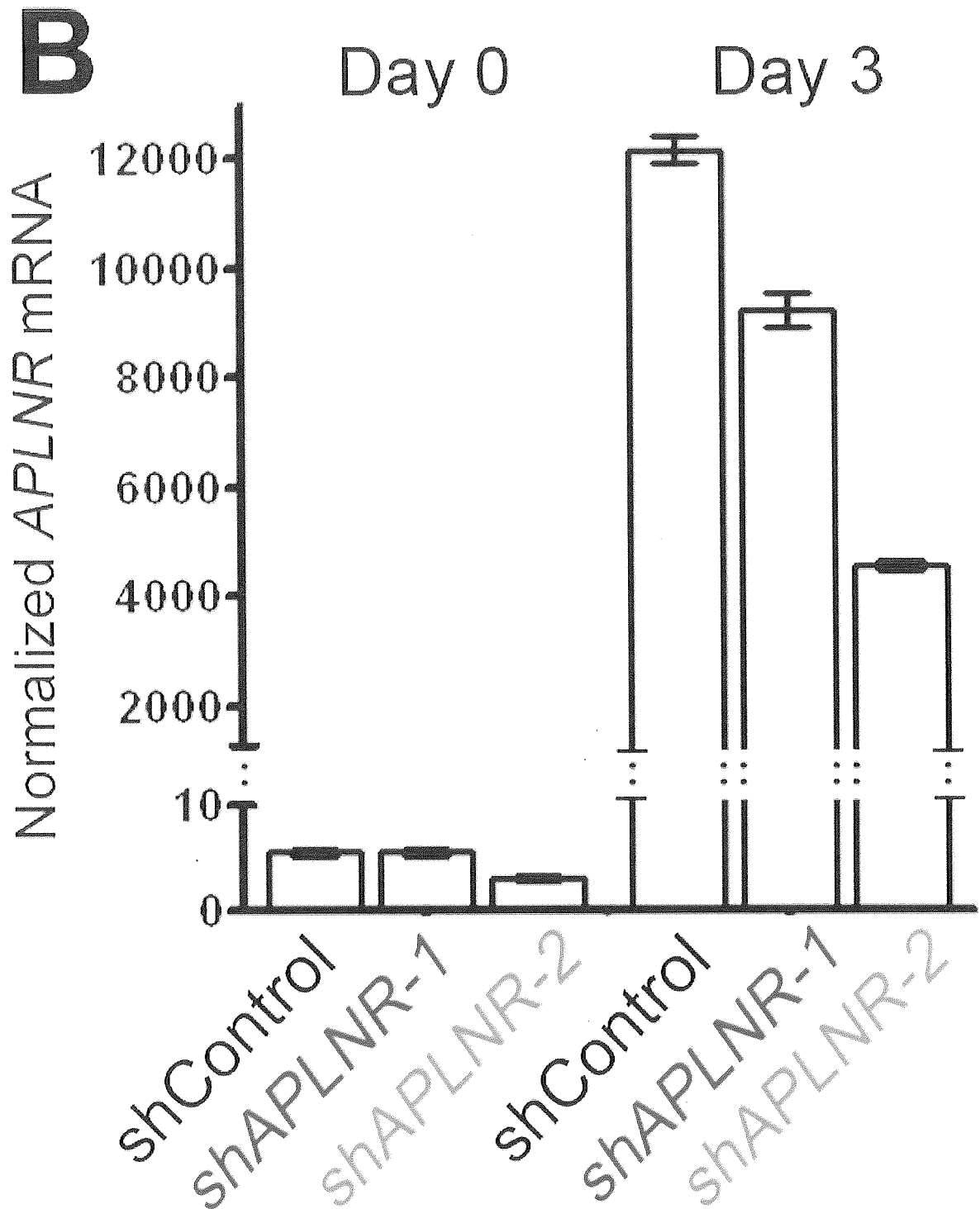
FIGURE 14B

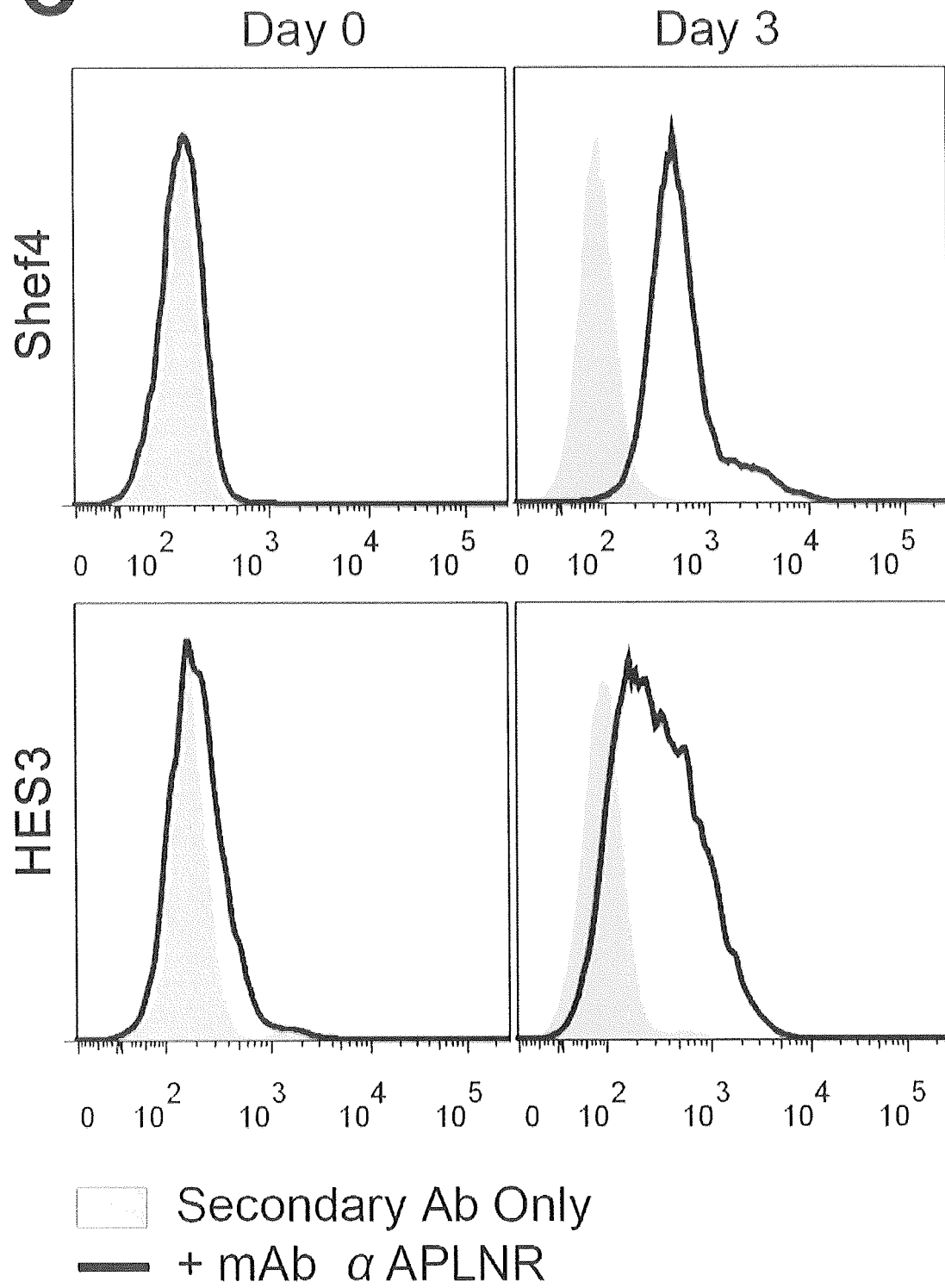
FIGURE 14C

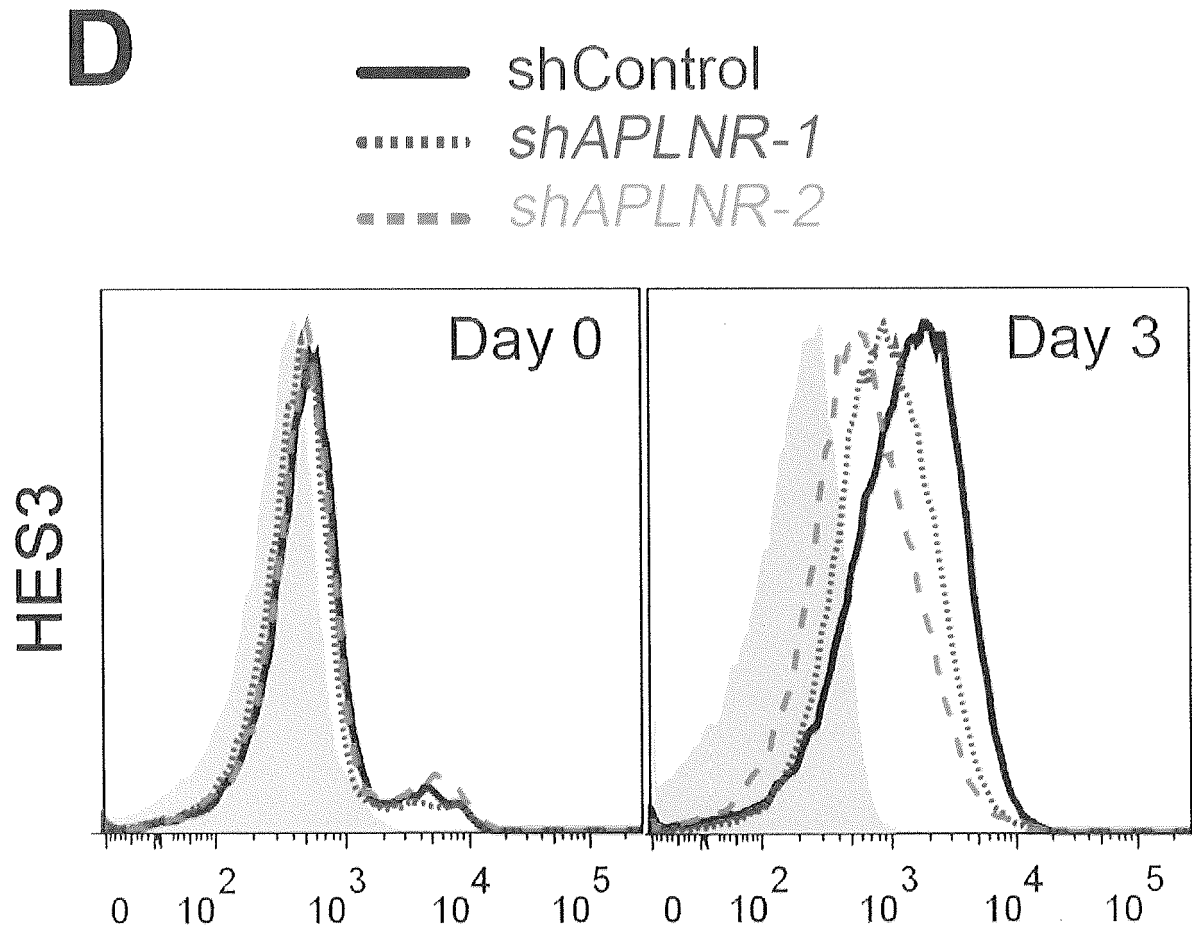
FIGURE 14D

FIGURE 14E

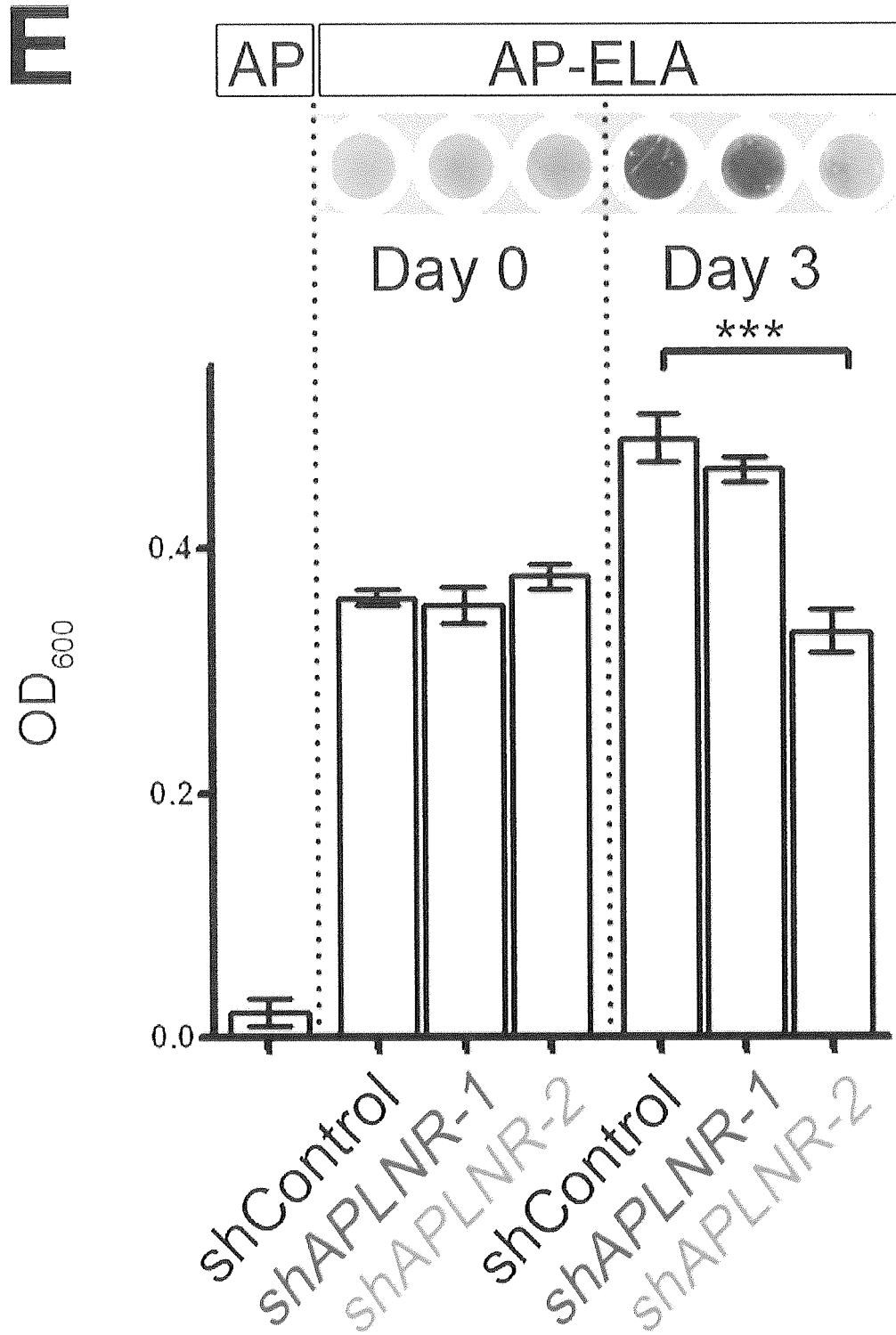


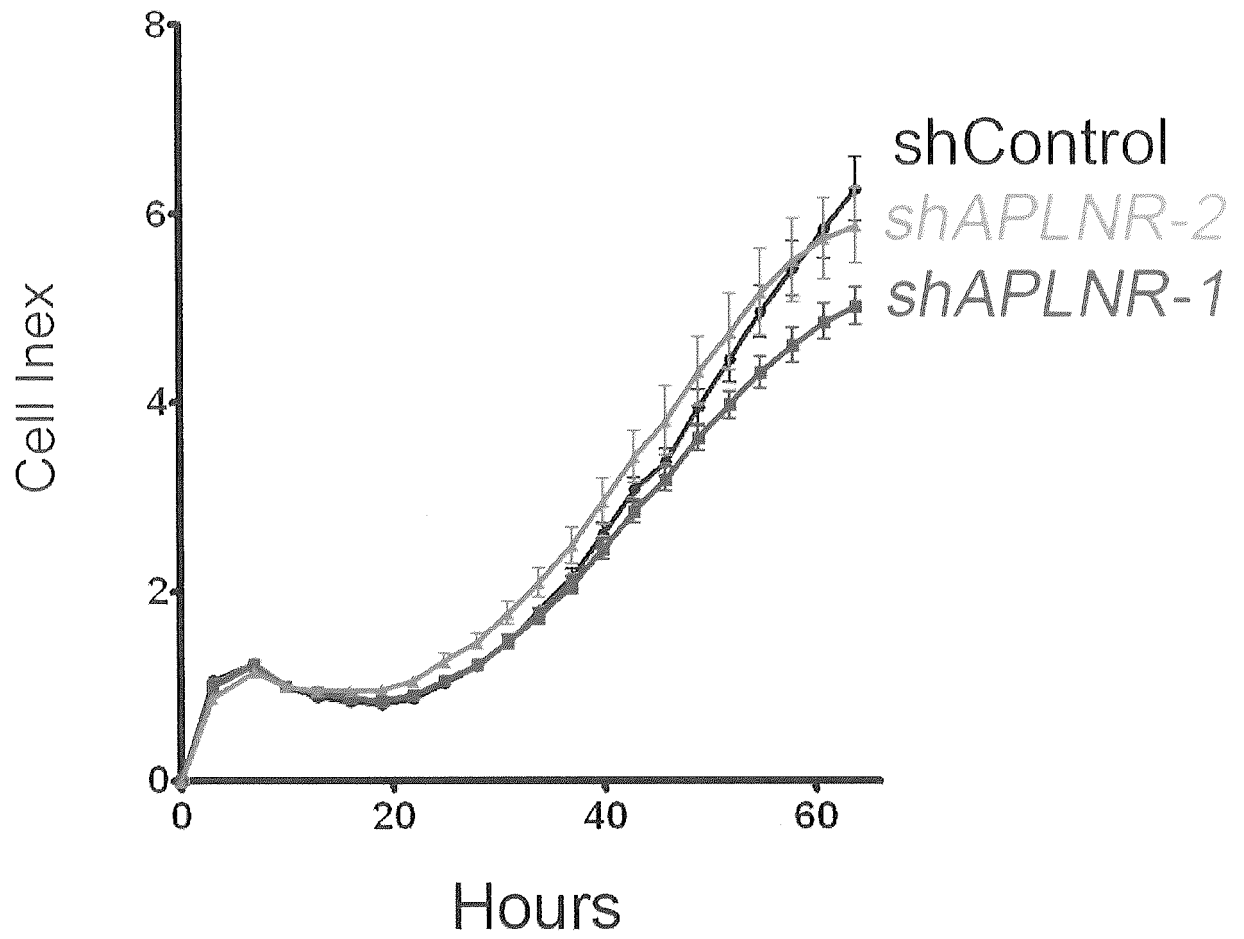
FIGURE 14F

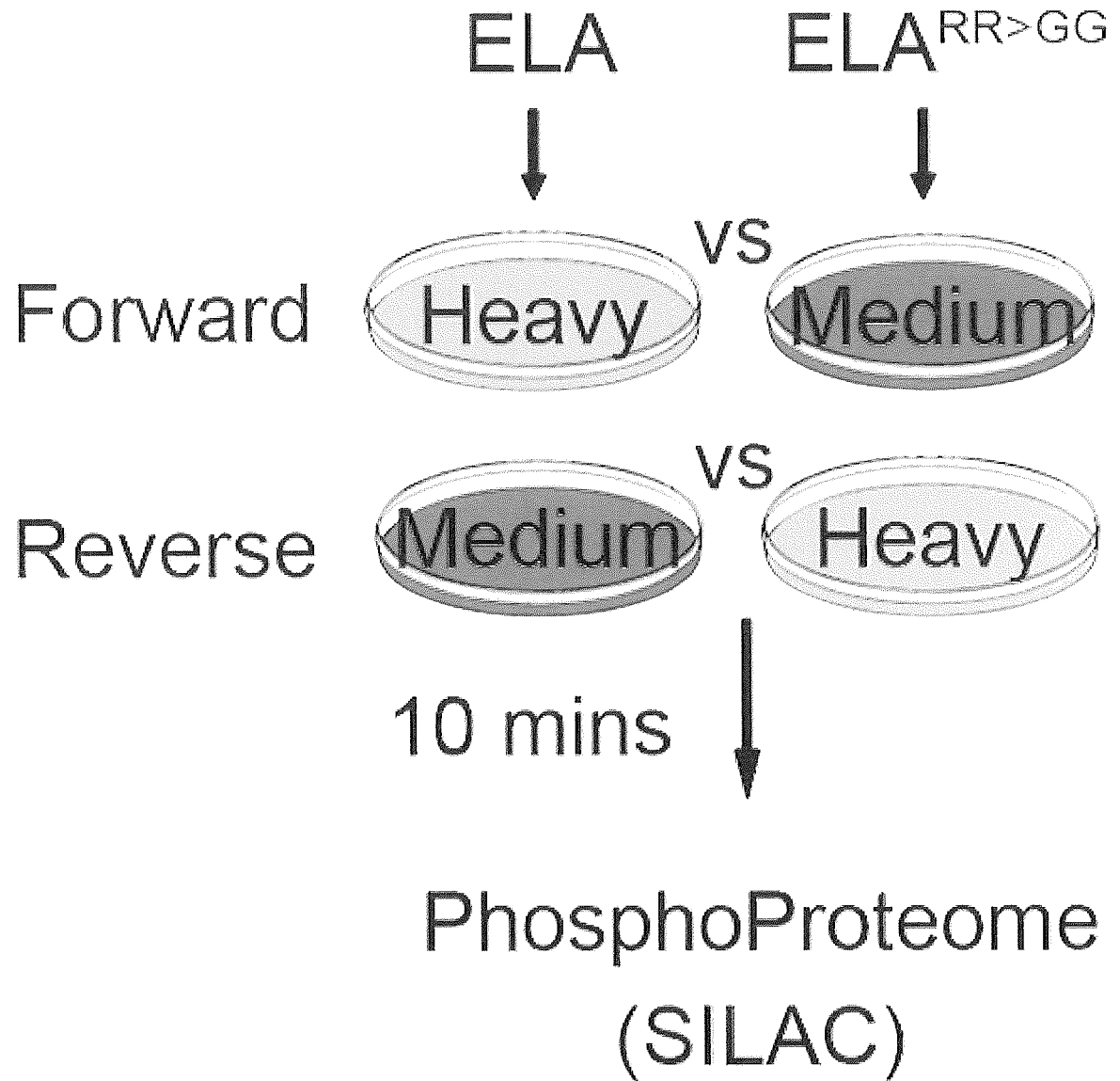
FIGURE 15A

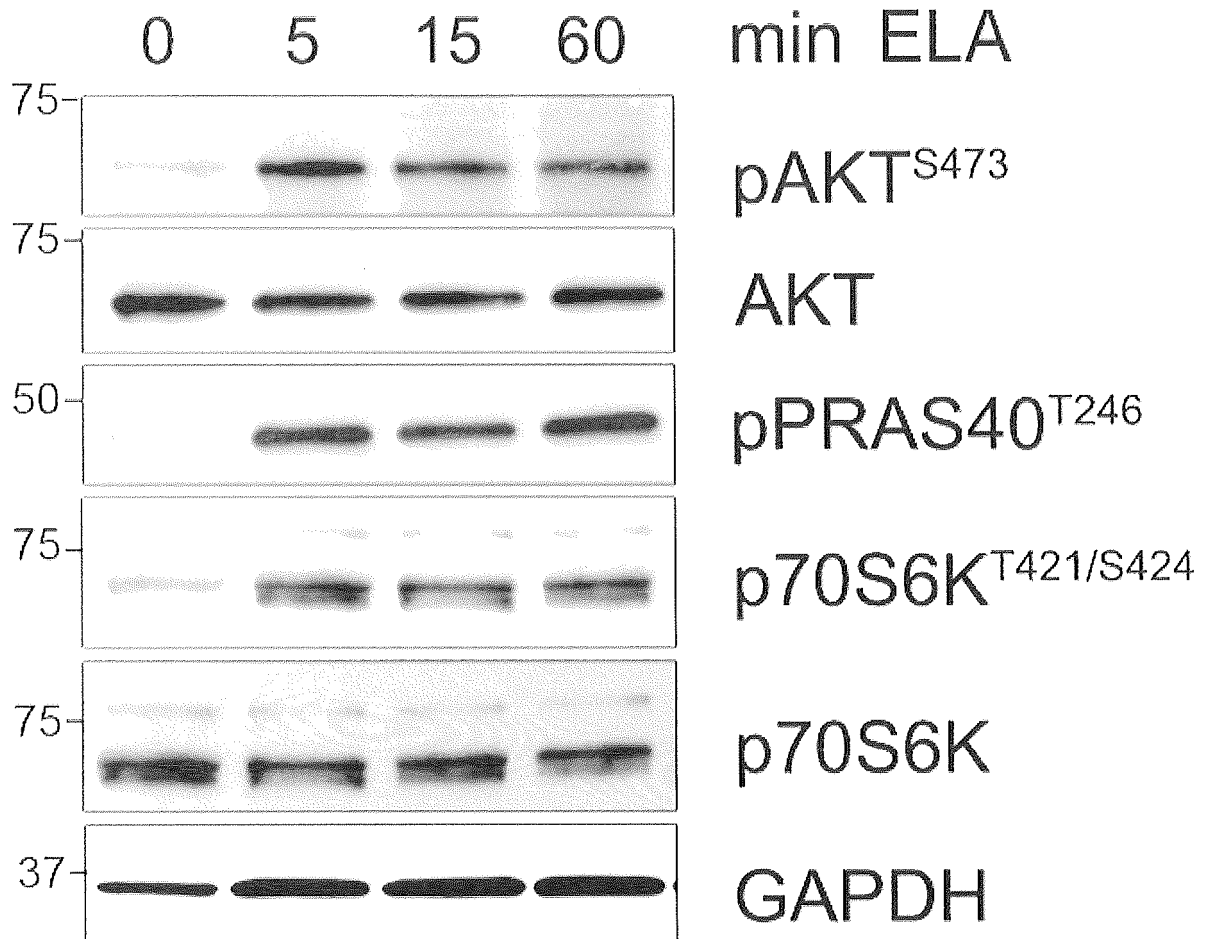
FIGURE 15C

FIGURE 15D

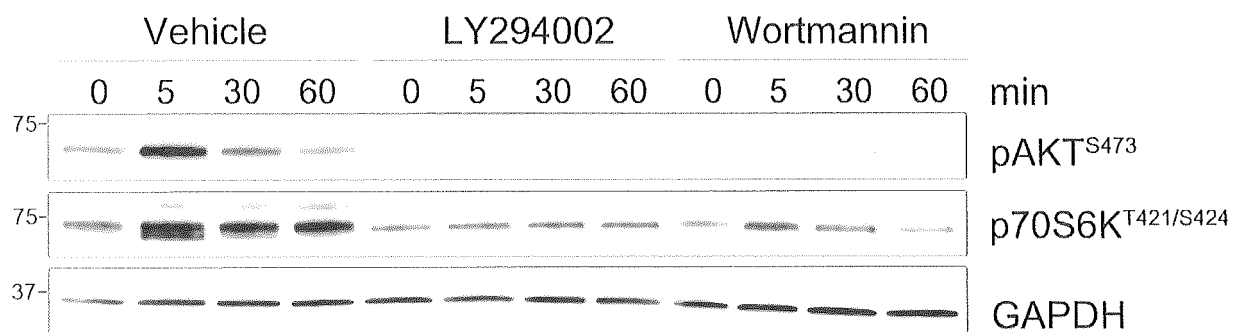


FIGURE 15E

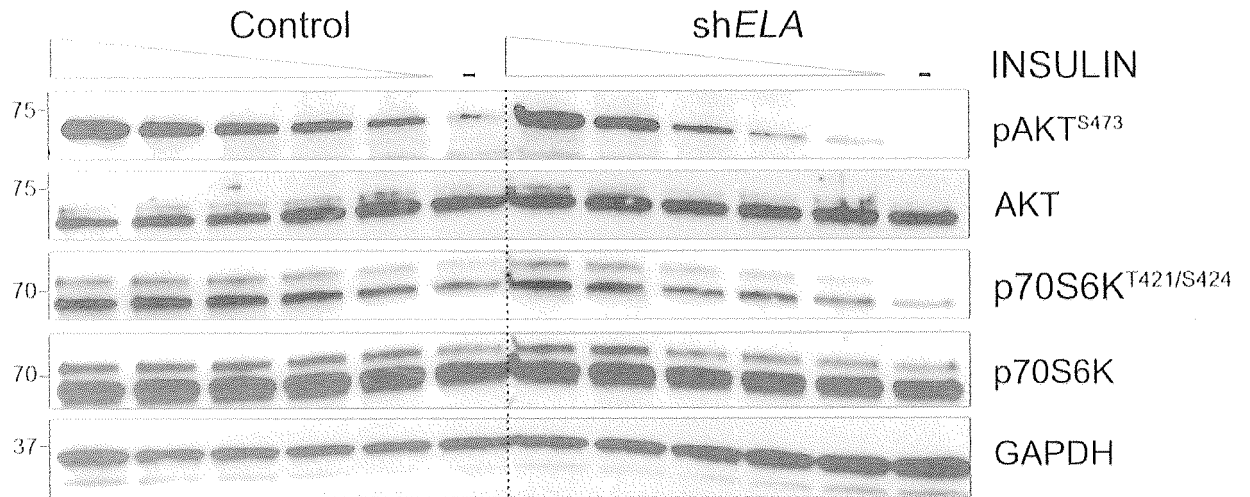


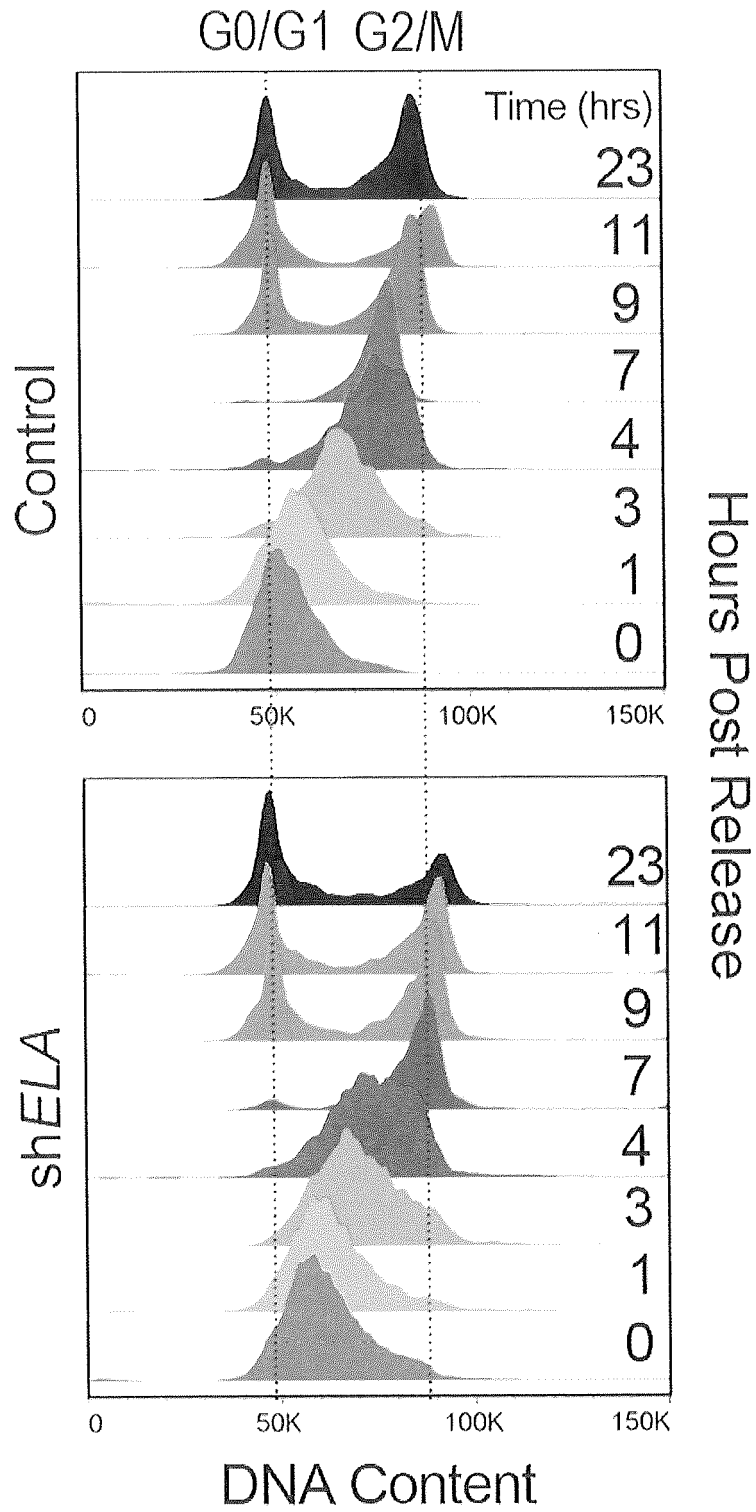
FIGURE 15F

FIGURE 16A

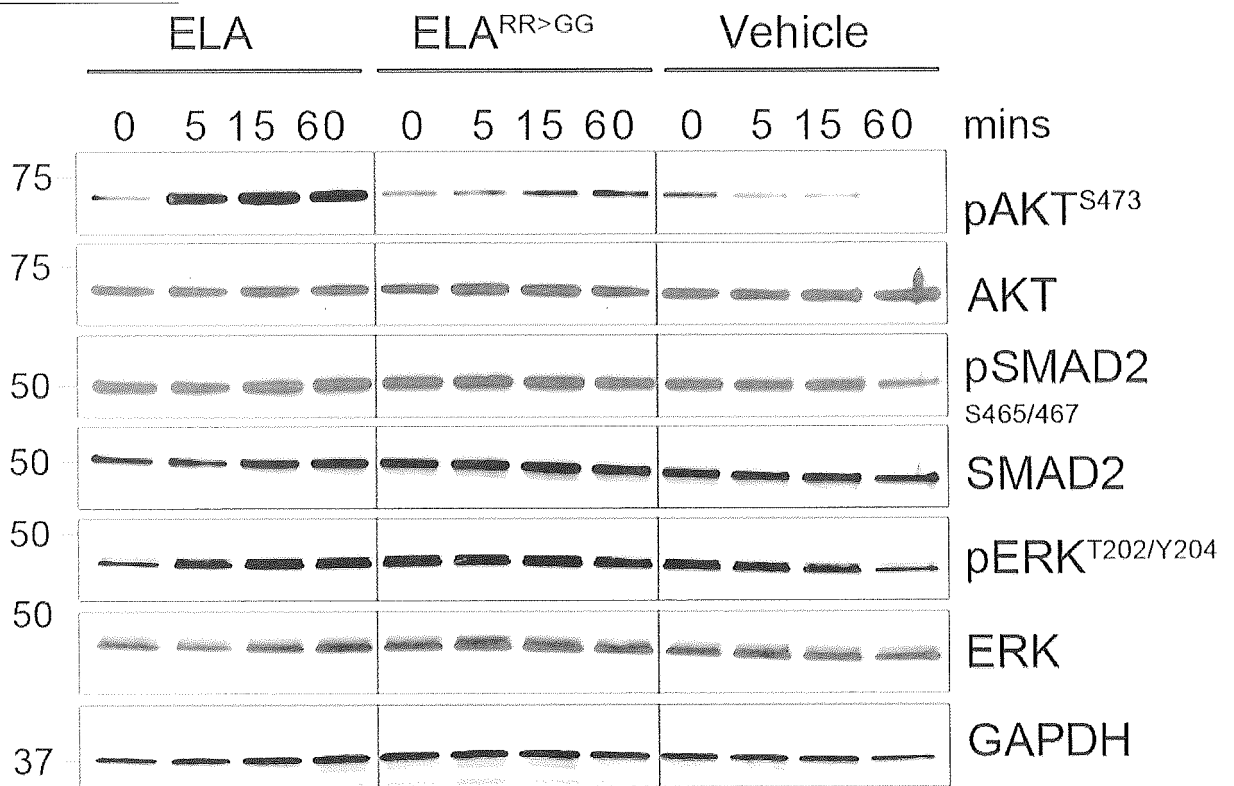


FIGURE 16B

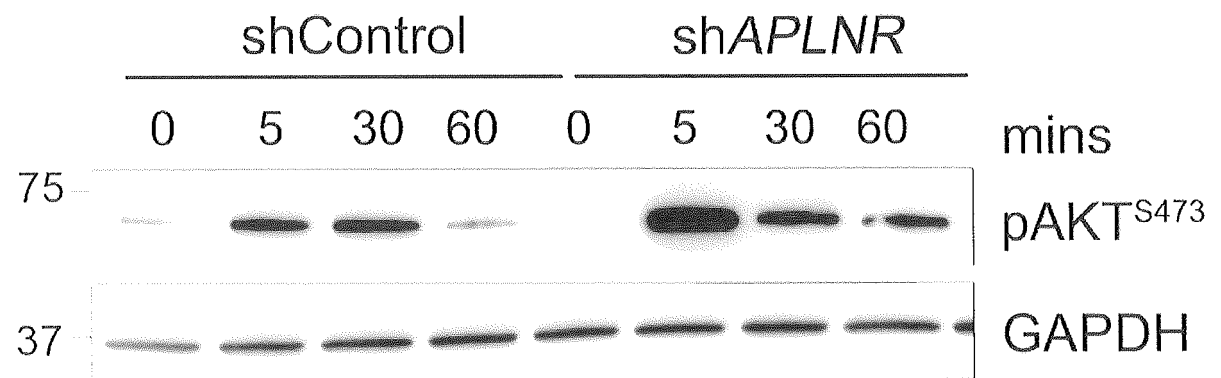


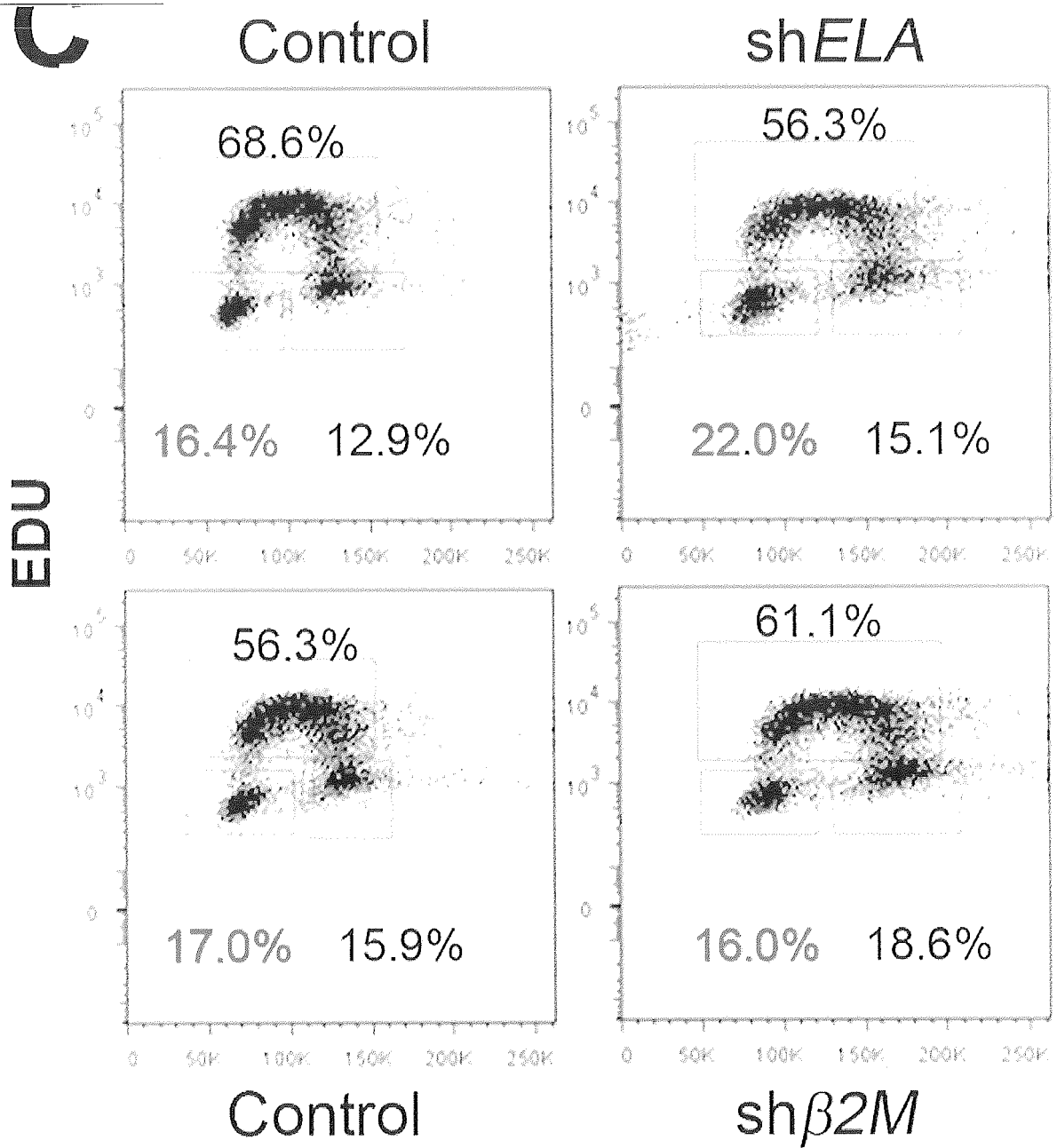
FIGURE 16C

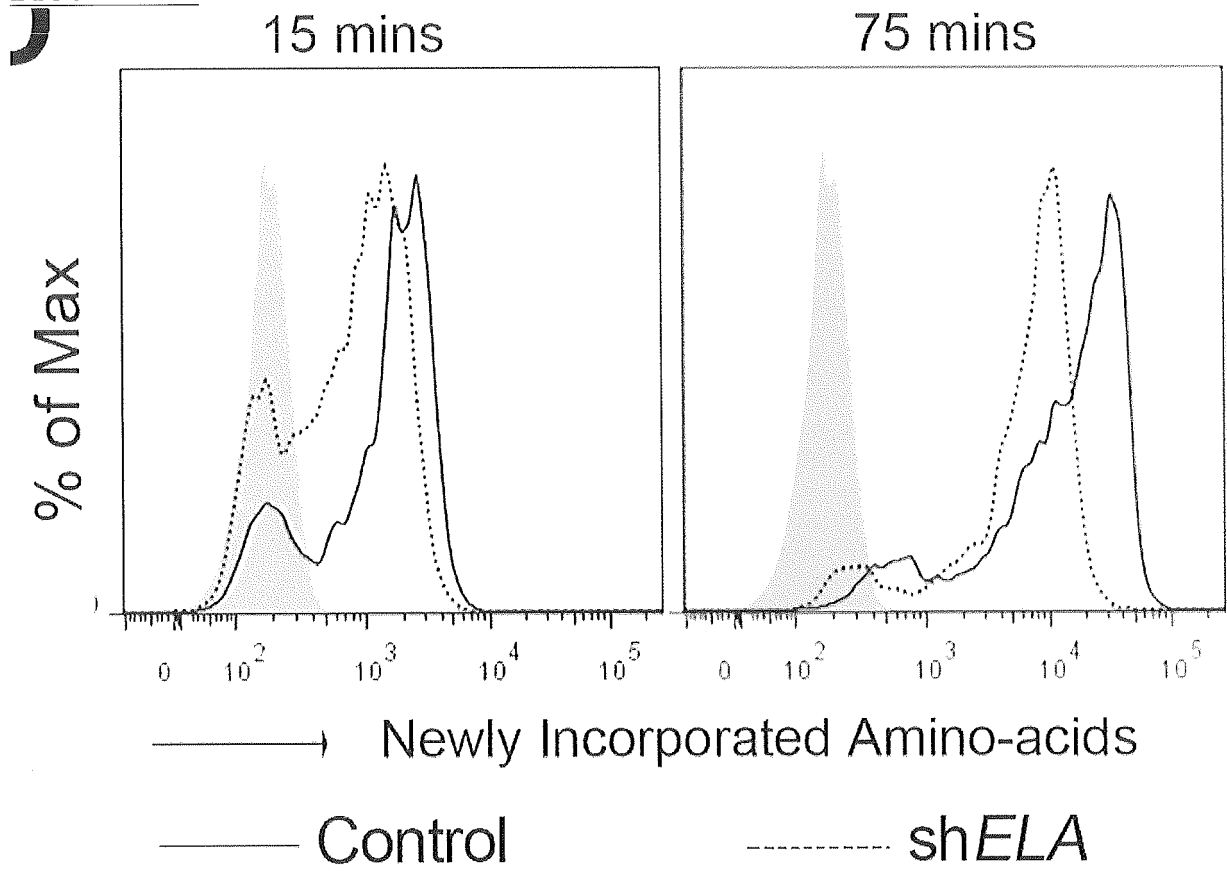
FIGURE 16D

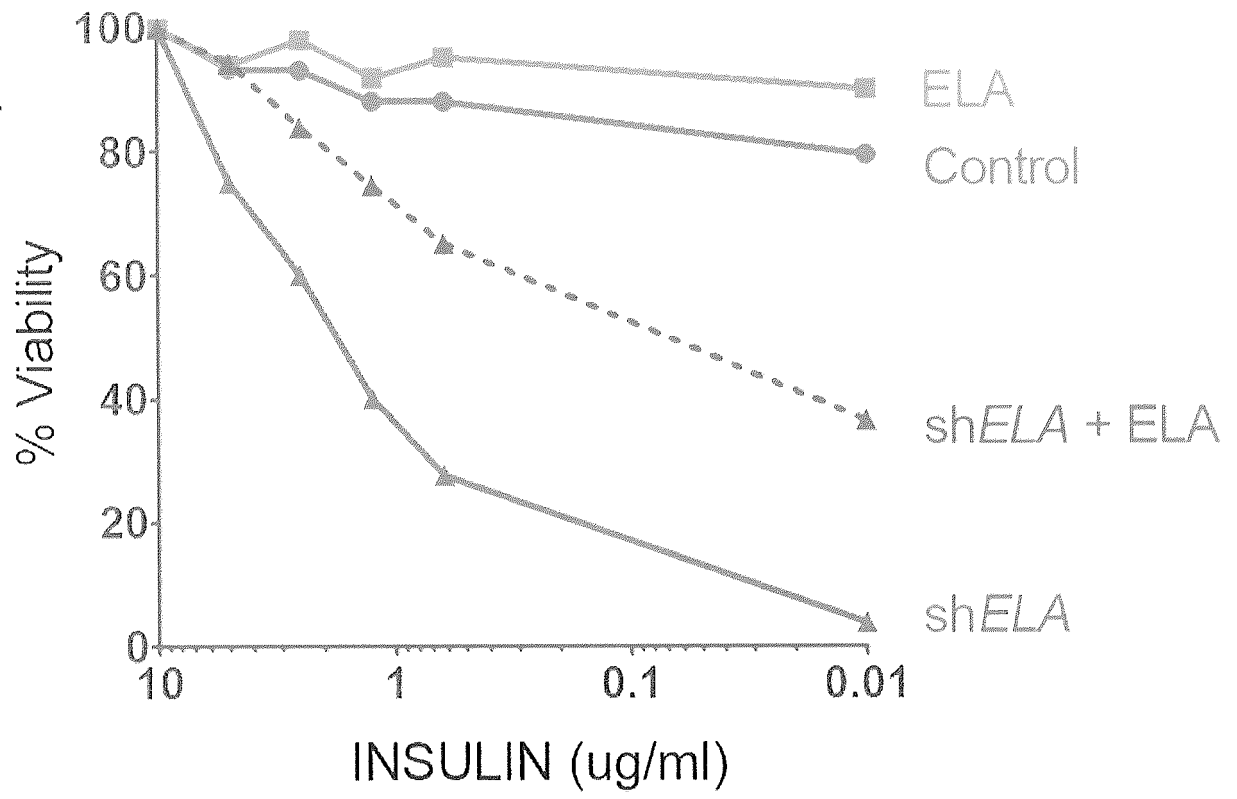
FIGURE 17A

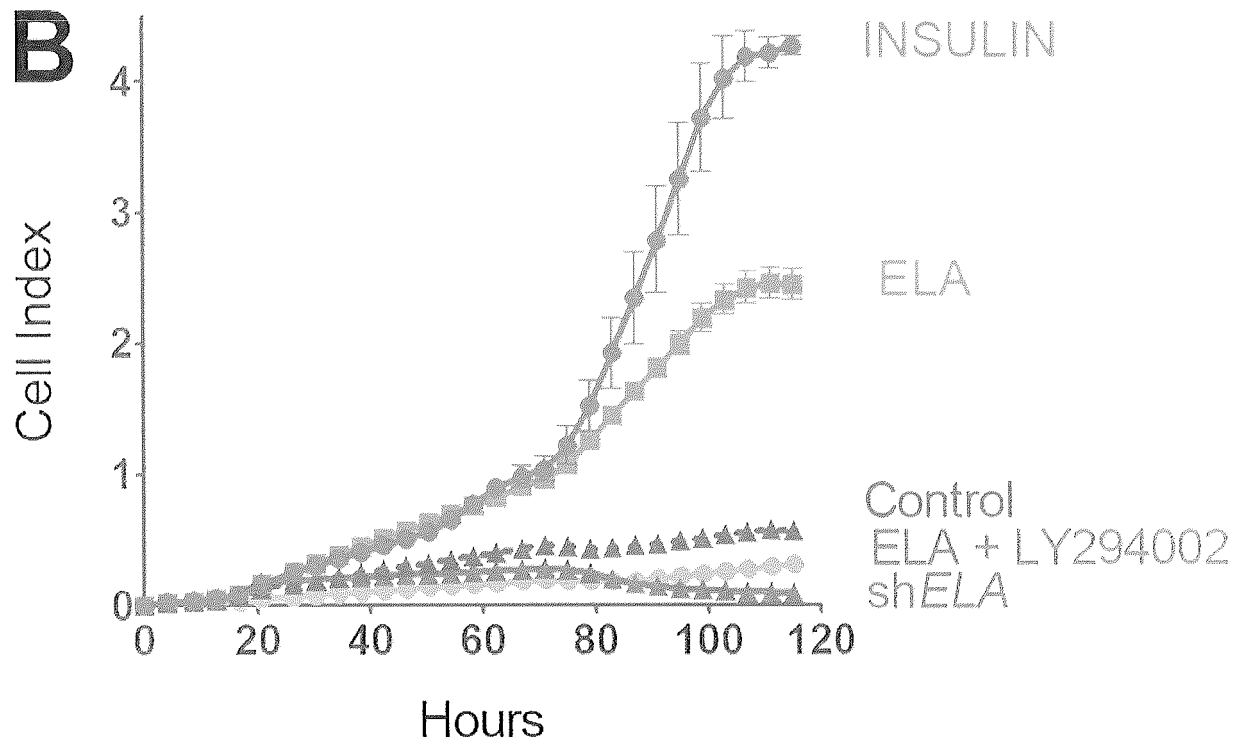
FIGURE 17B

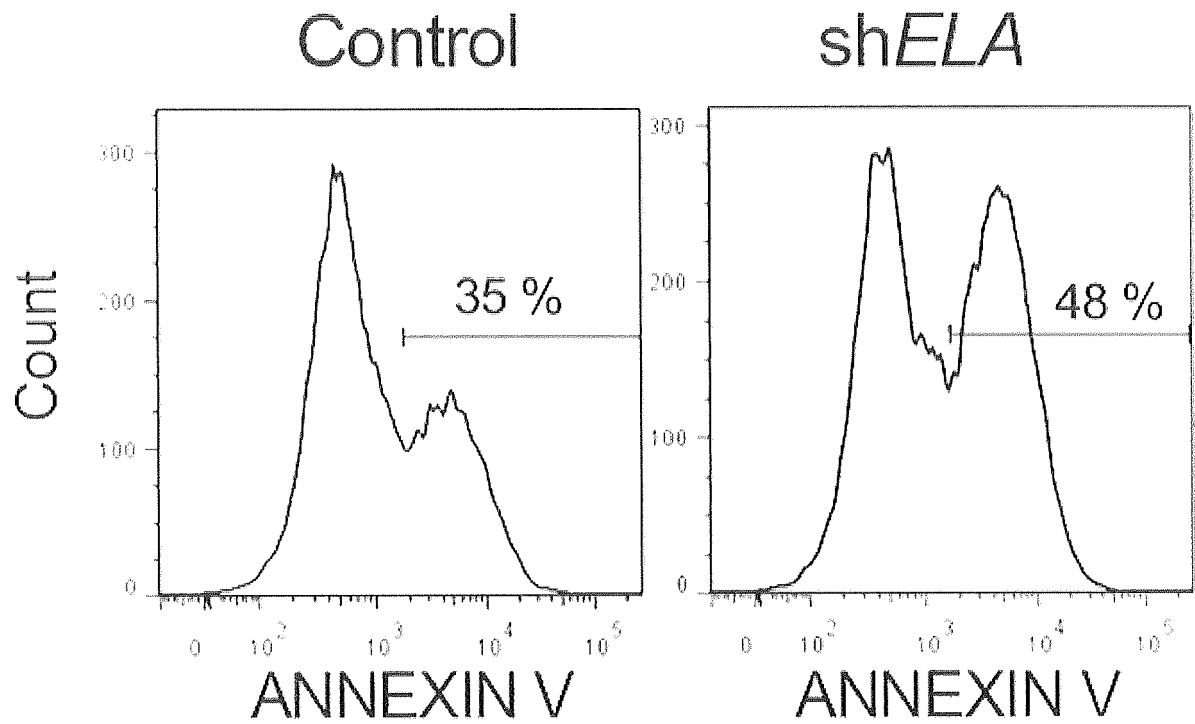
FIGURE 17C

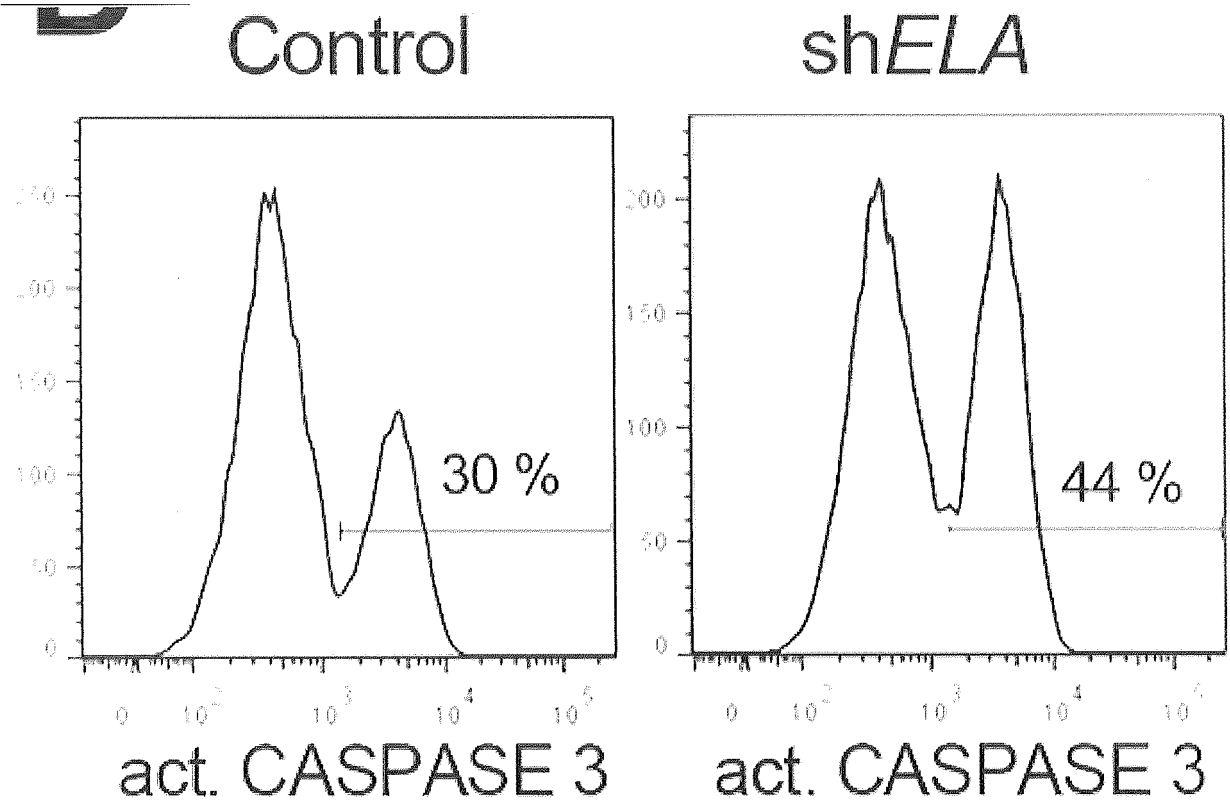
FIGURE 17D

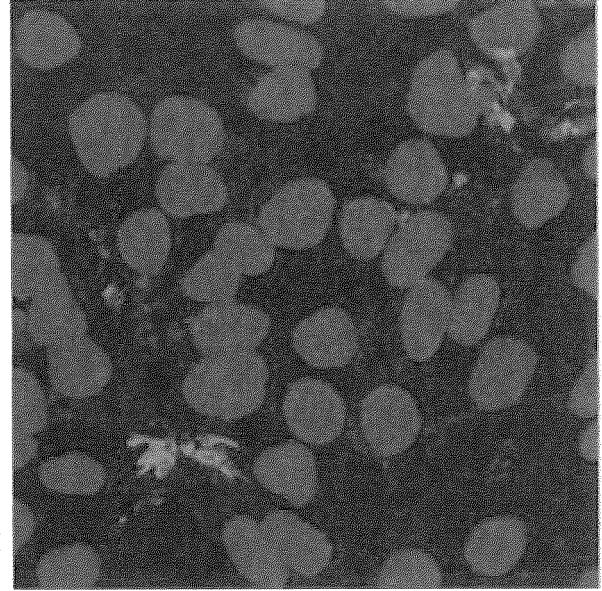
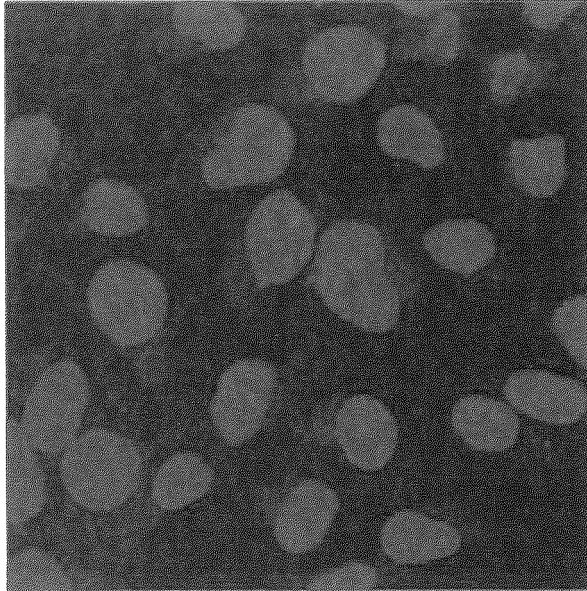
FIGURE 17E**Control****sh*ELA*****act CASPASE 3 DAPI**

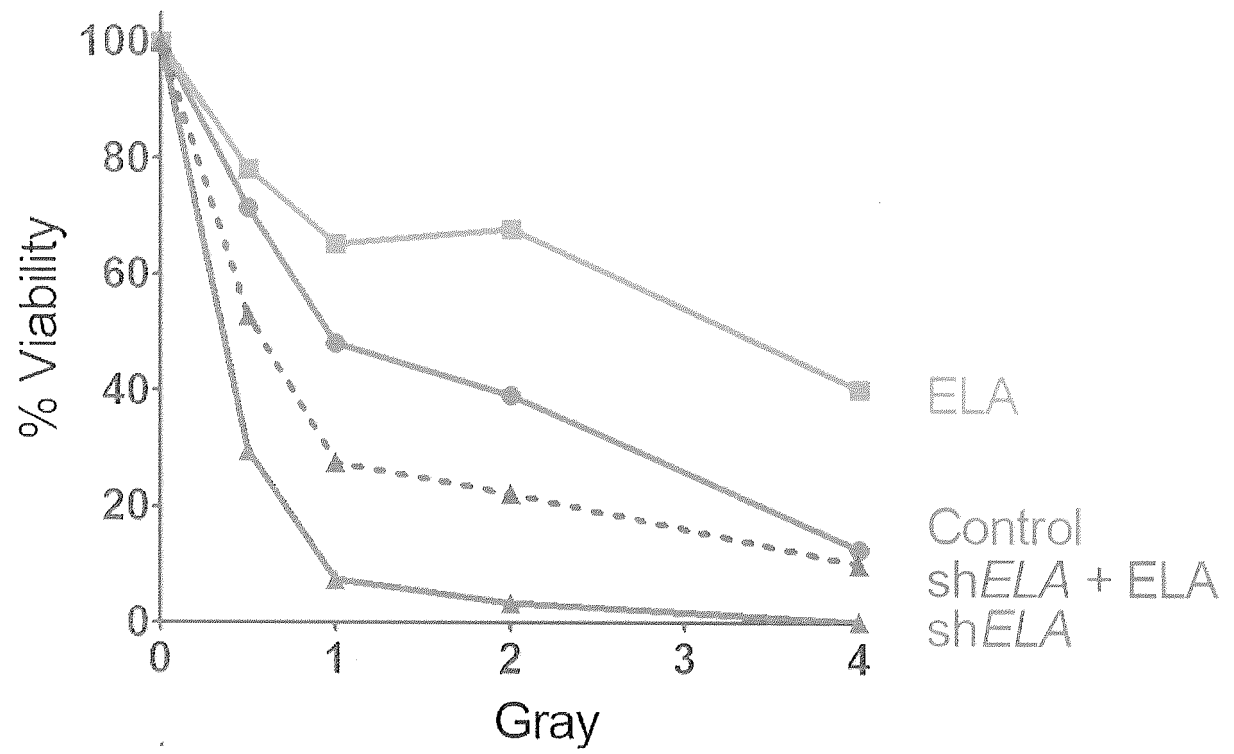
FIGURE 17F

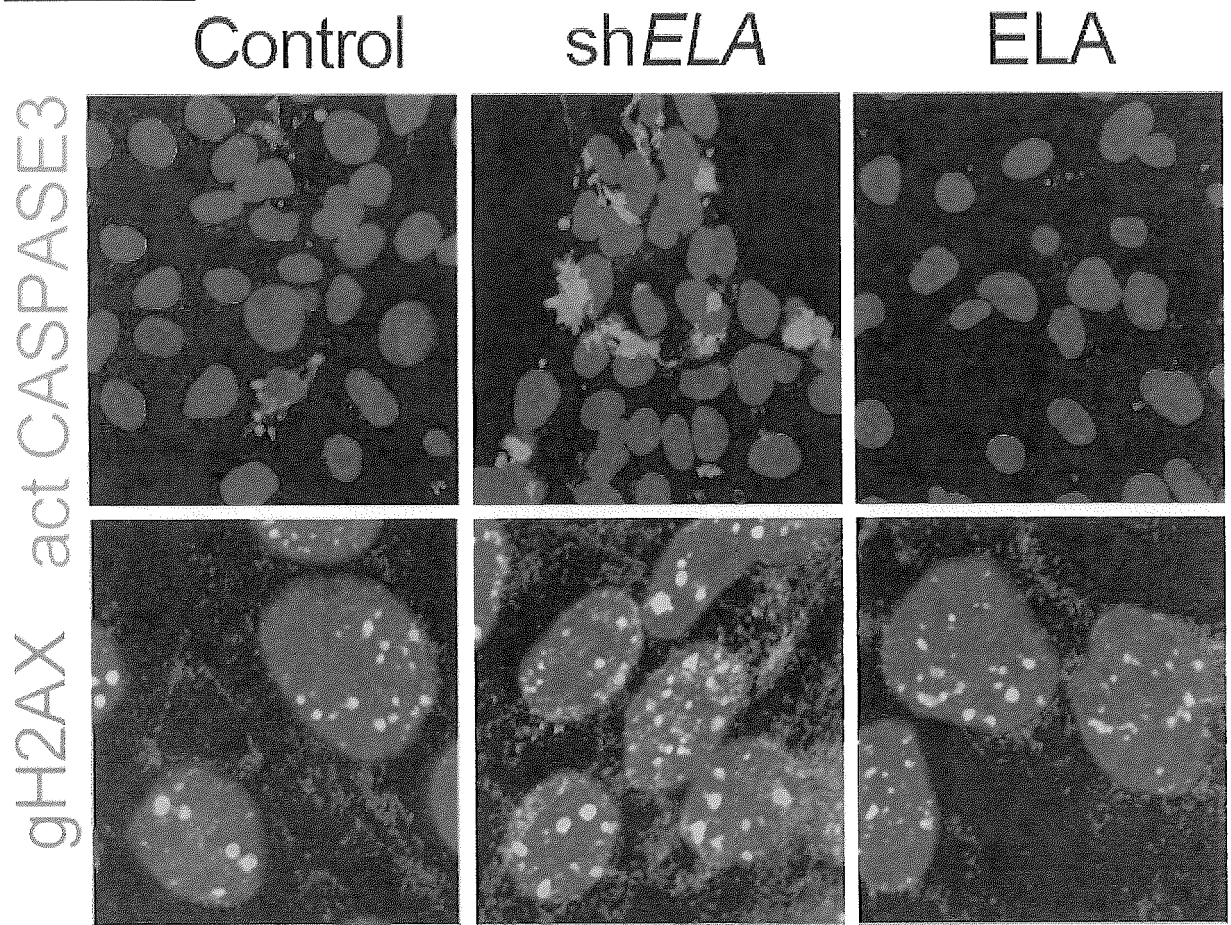
FIGURE 17G

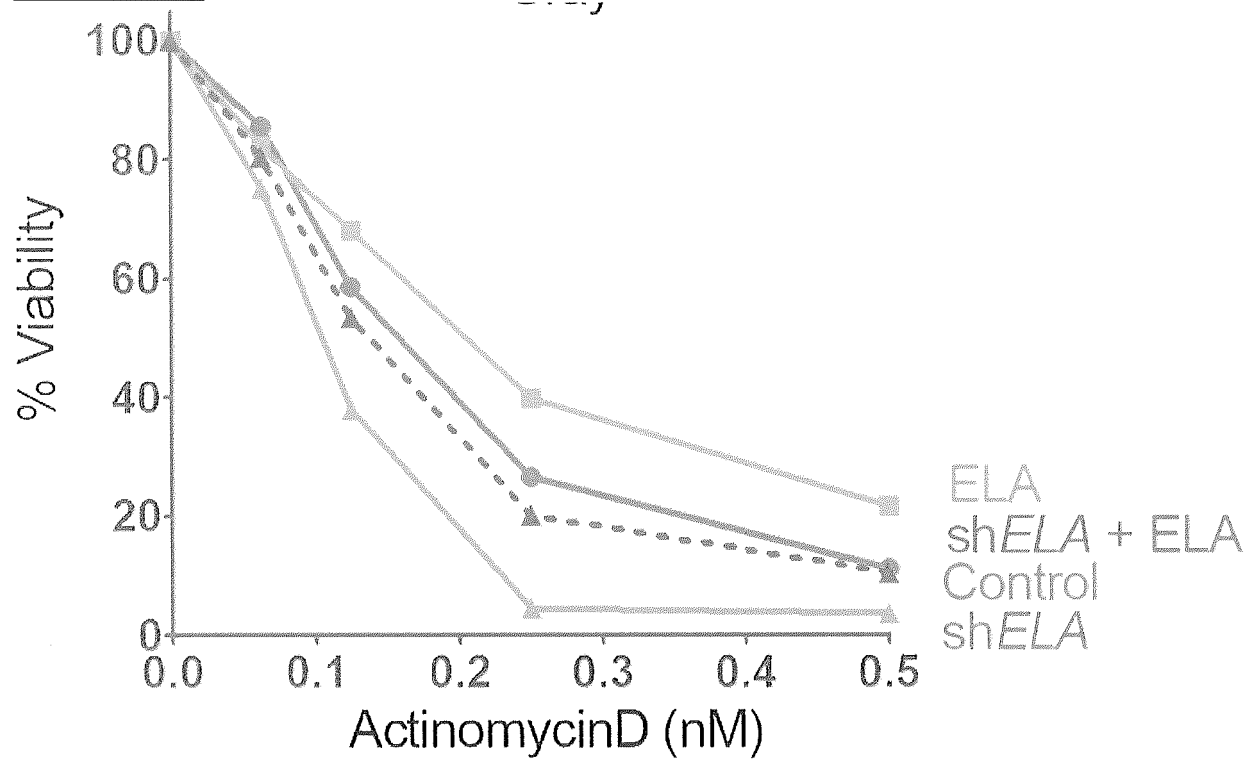
FIGURE 17H

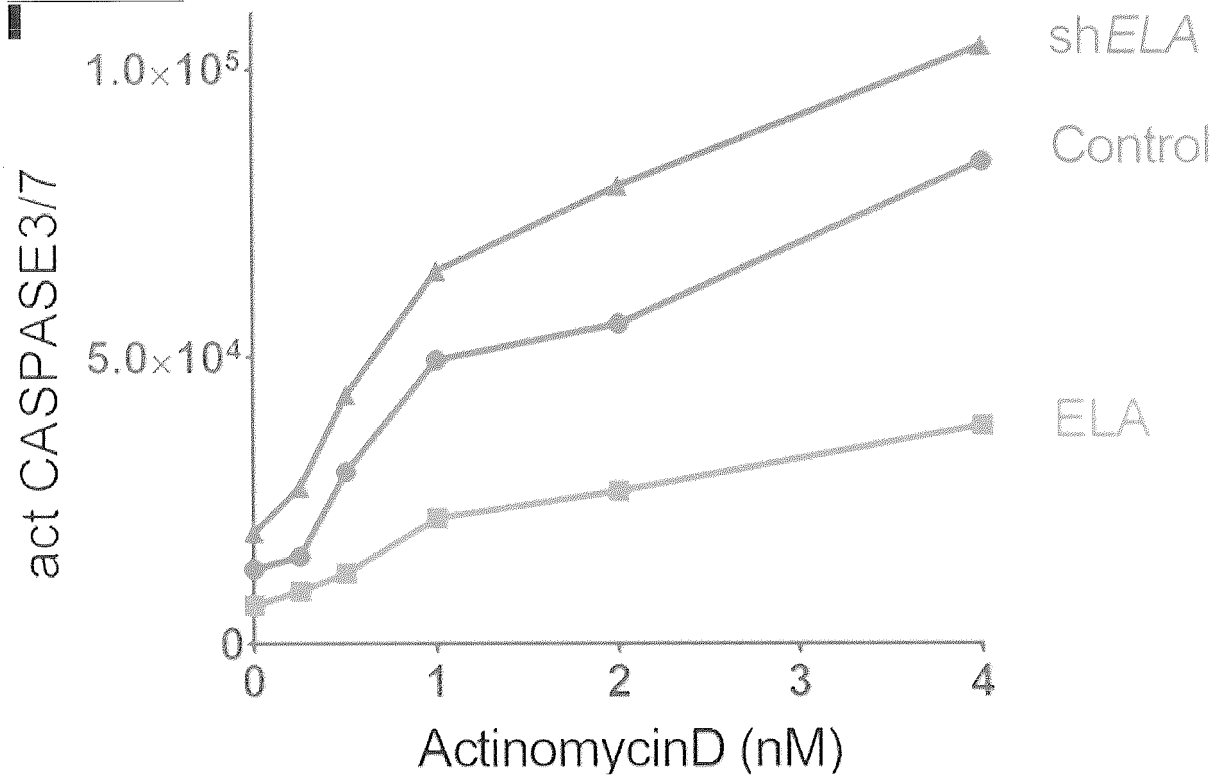
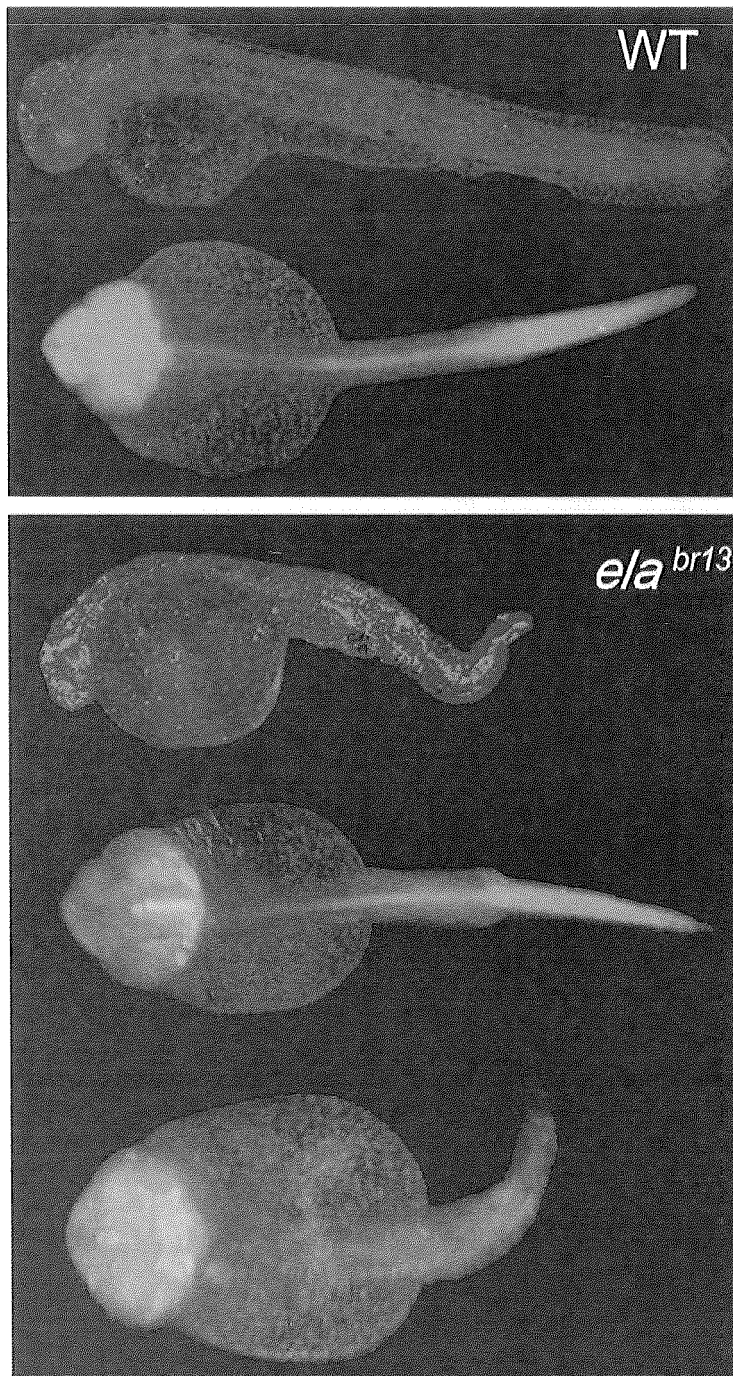
FIGURE 17I

FIGURE 17J



act Caspase 3
DAPI/DAPI

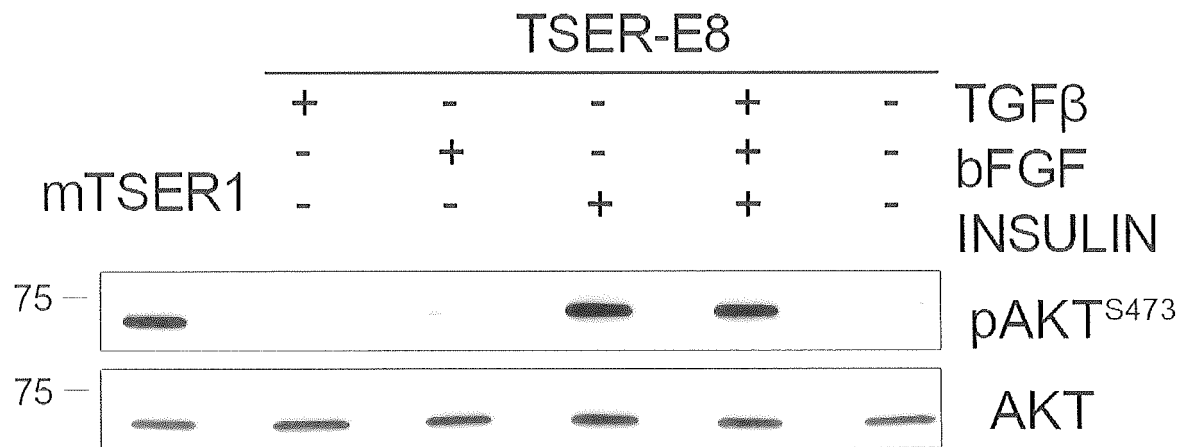
FIGURE 18A

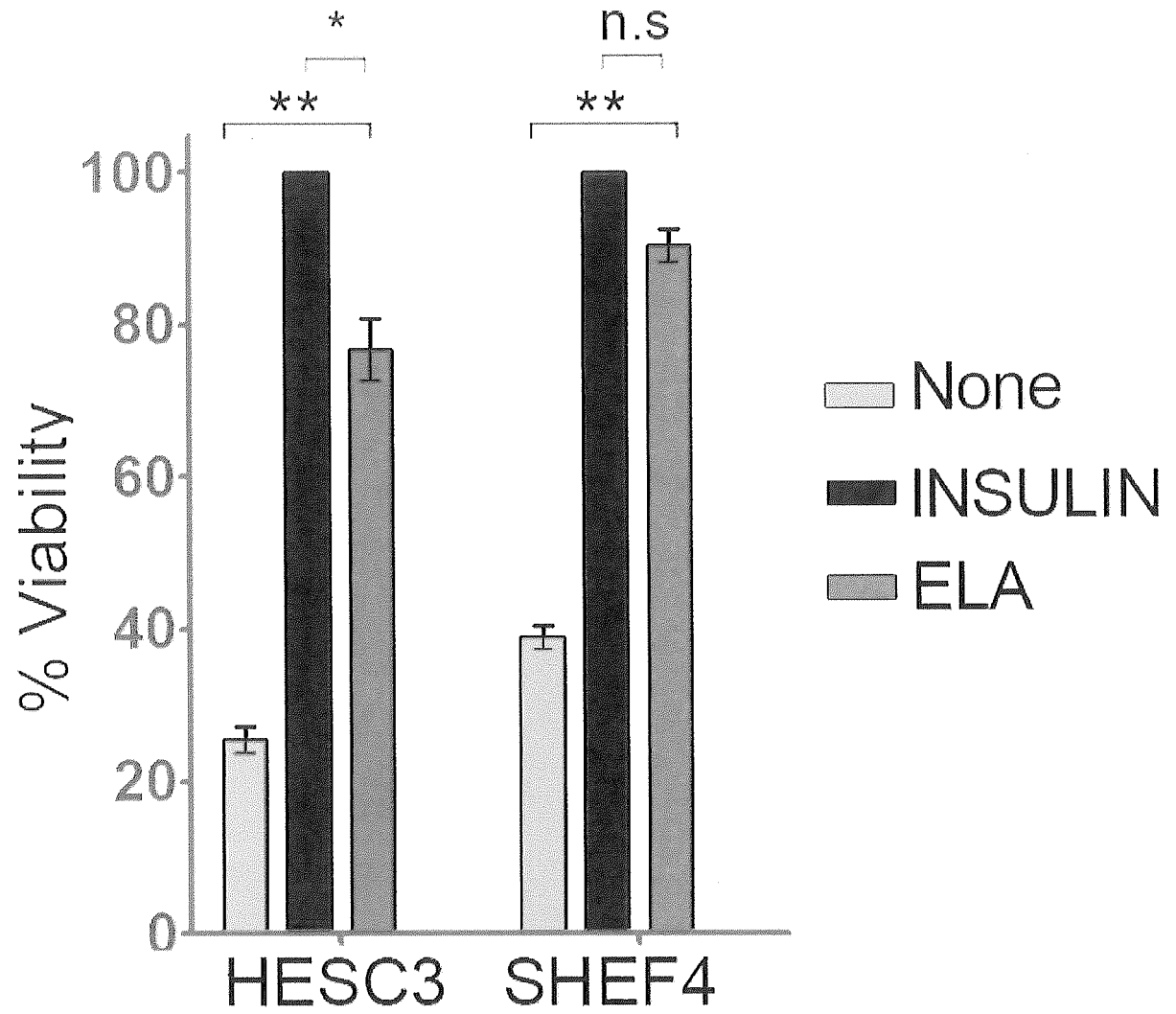
FIGURE 18B

FIGURE 18C

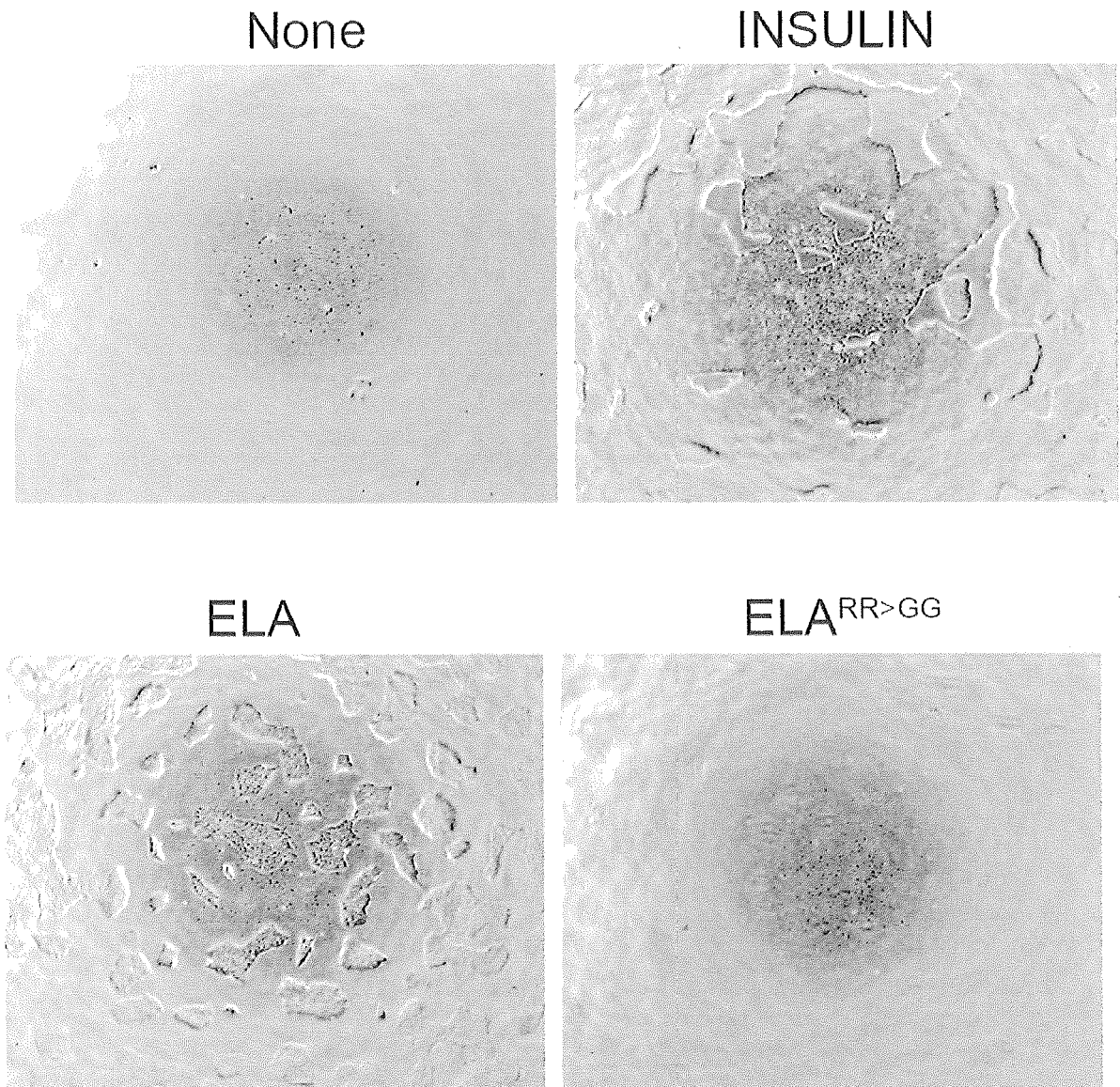


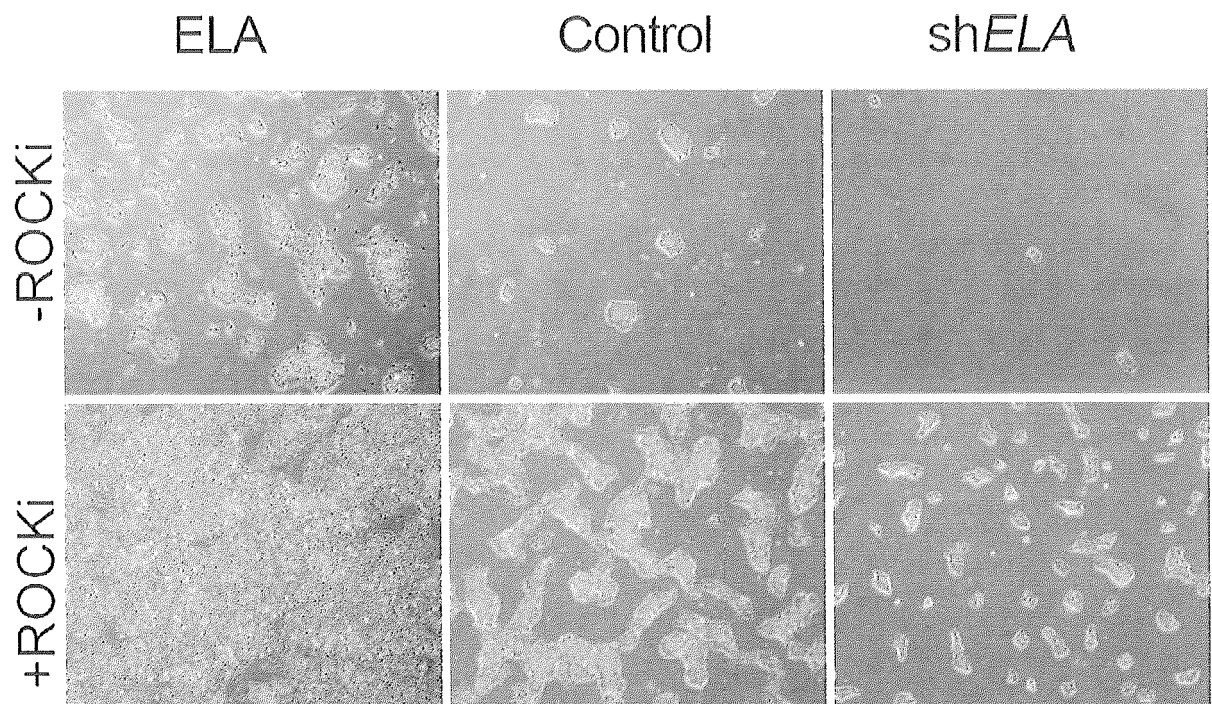
FIGURE 18D

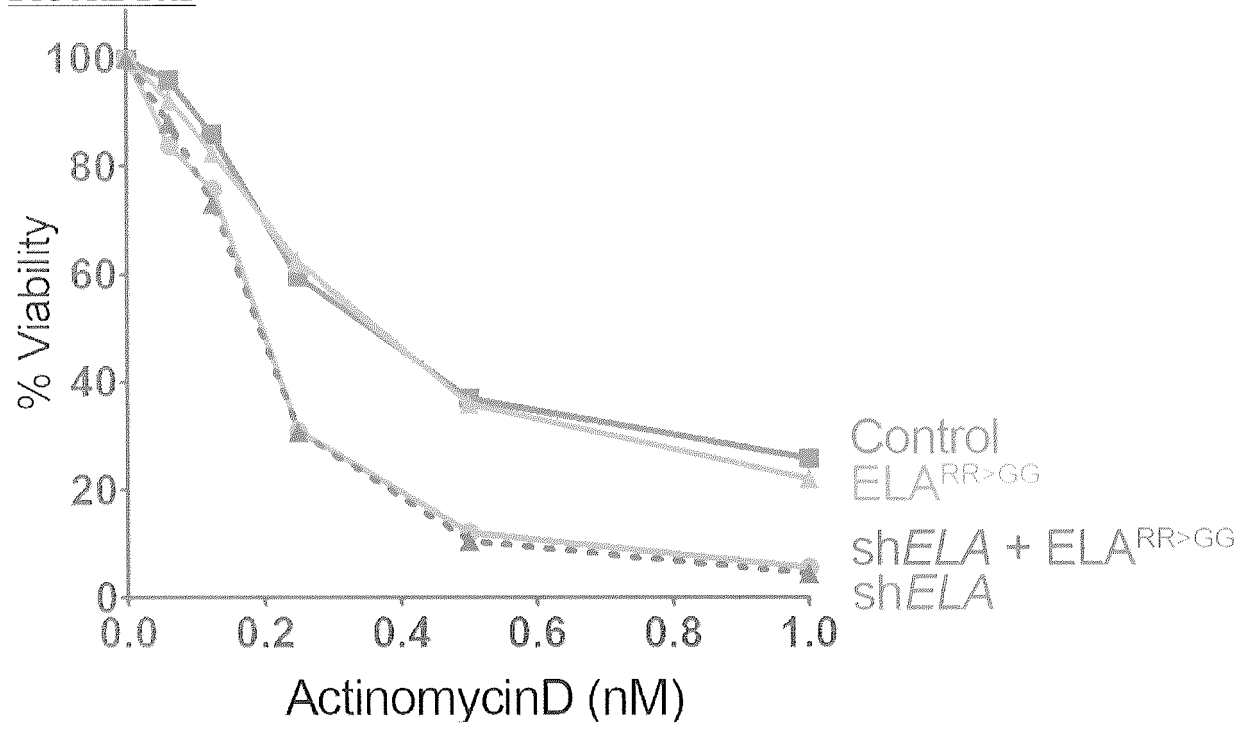
FIGURE 18E

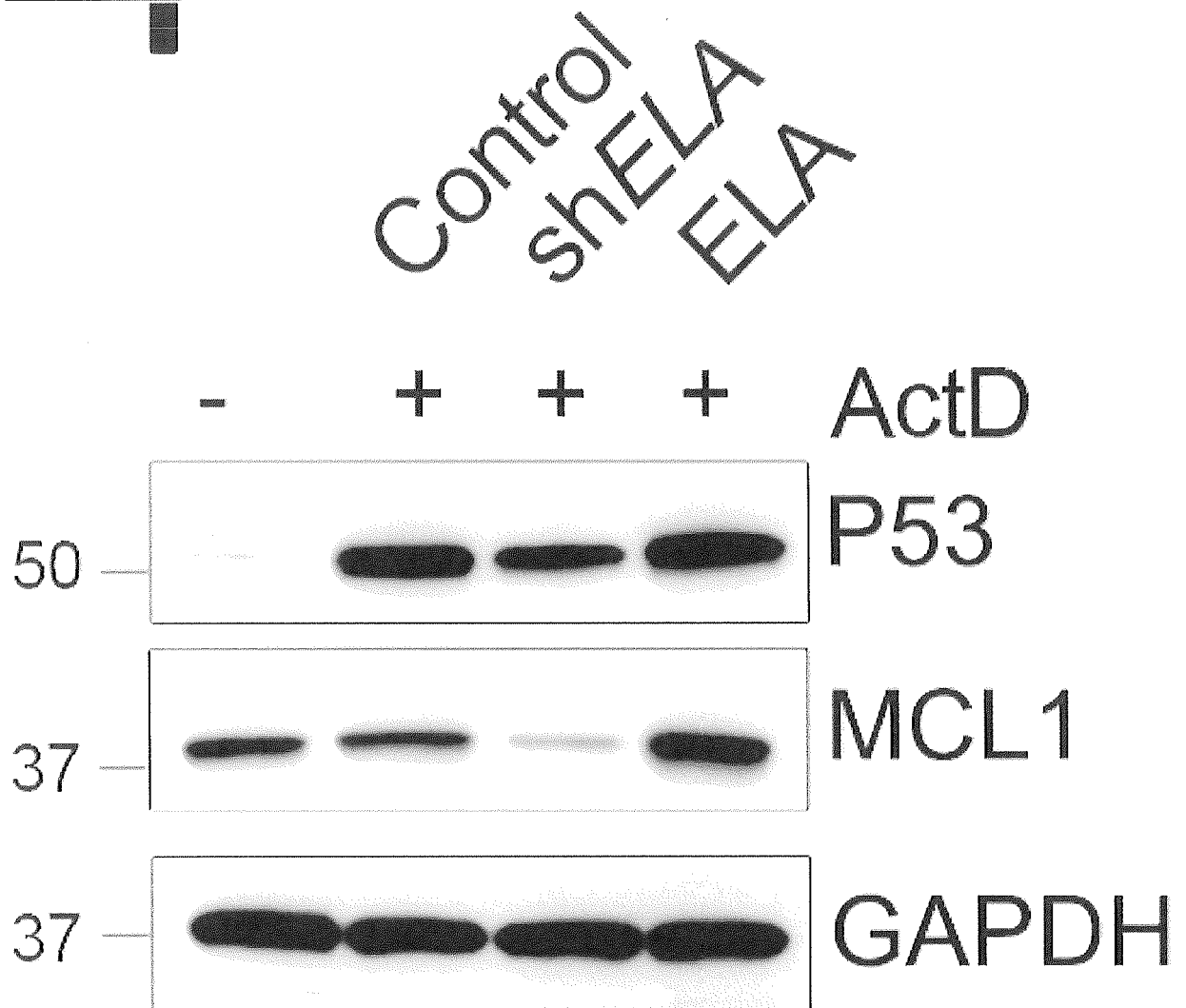
FIGURE 18F

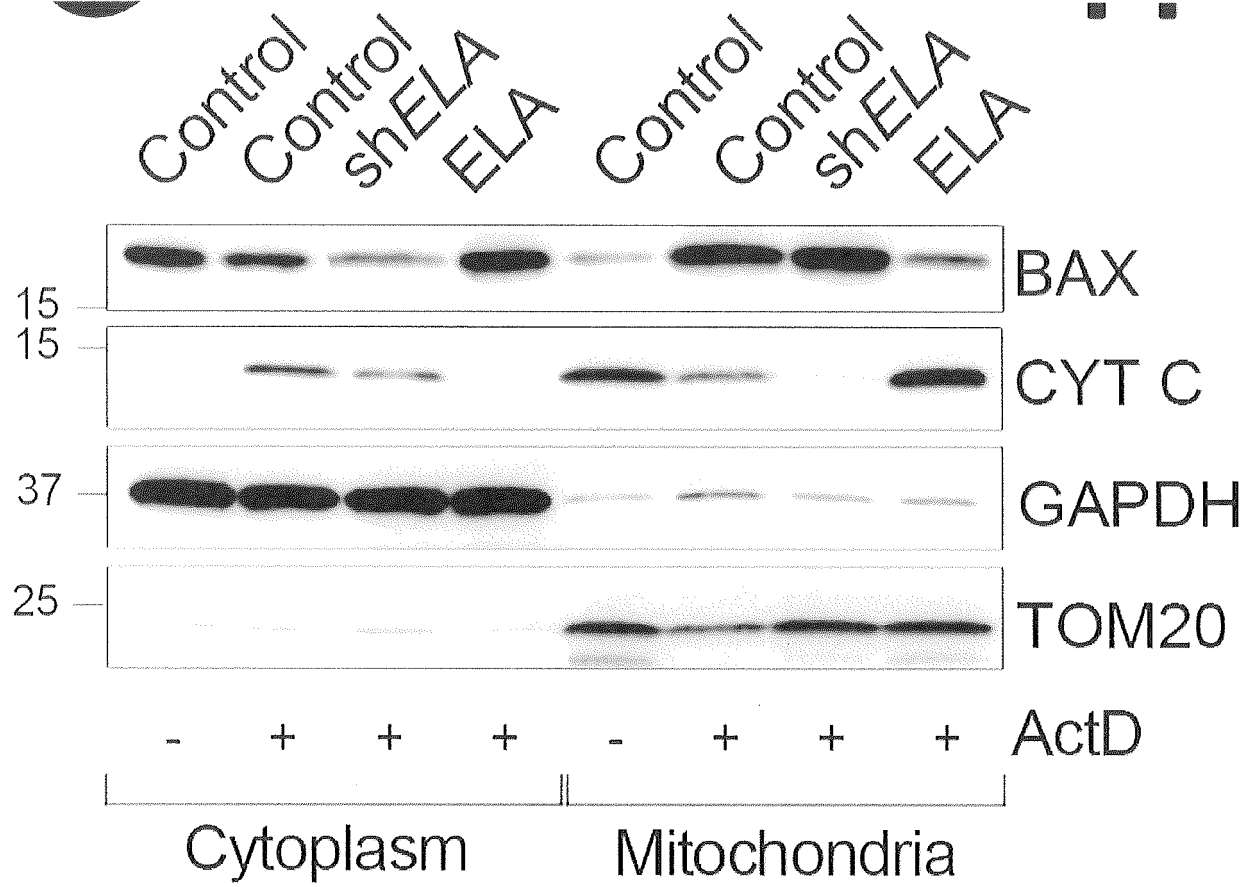
FIGURE 18G

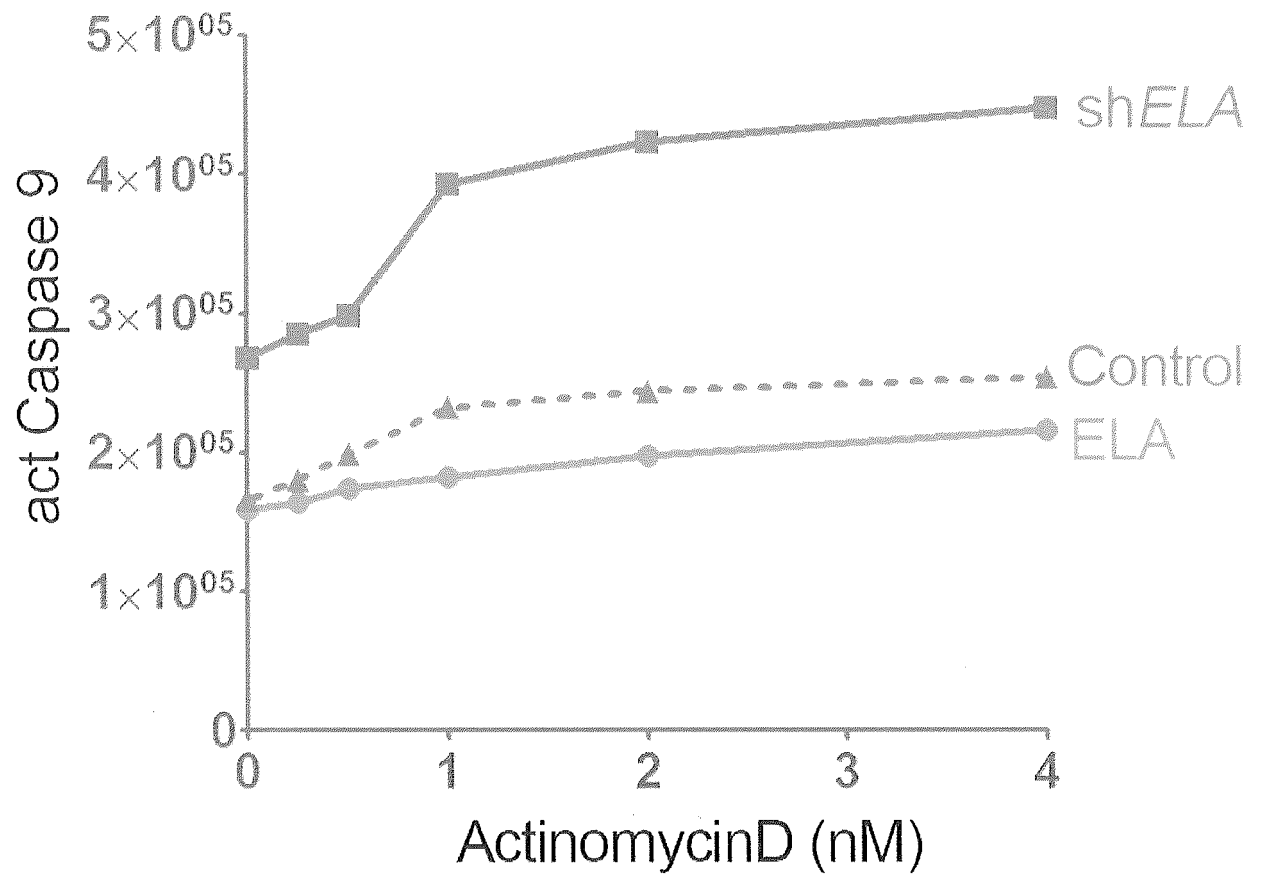
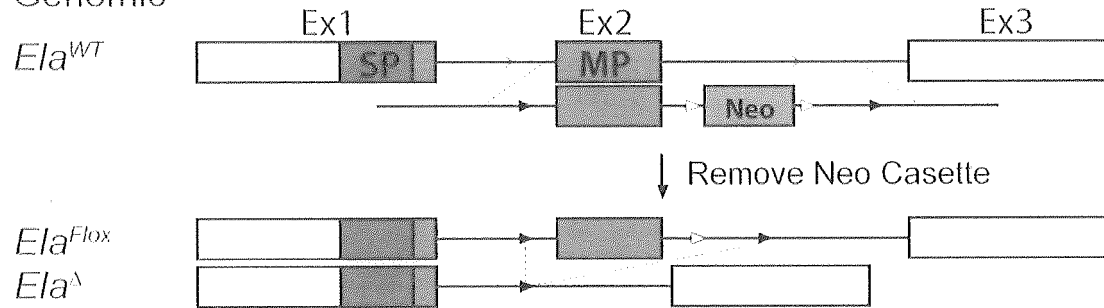
FIGURE 18H

FIGURE 19A

Genomic



Protein

Elav^{WT} MRFQPLFWVFFIFAMSLLFISEQKPVNFPRRRKLYRHNCFRRRCIPLHSRVFPF.

Elav^Δ MRFQPLFWVFFIFAMSLLFISEQKPENL.

FIGURE 19B

♀ $Ela^{\Delta/+}$ x ♂ $Ela^{\Delta/+}$

	$Ela^{+/+}$	$Ela^{\Delta/+}$	$Ela^{\Delta/\Delta}$
Weaning	31	65	18

$Ela^{\Delta/\Delta}$ underrepresented ($\chi^2 = 0.074$)

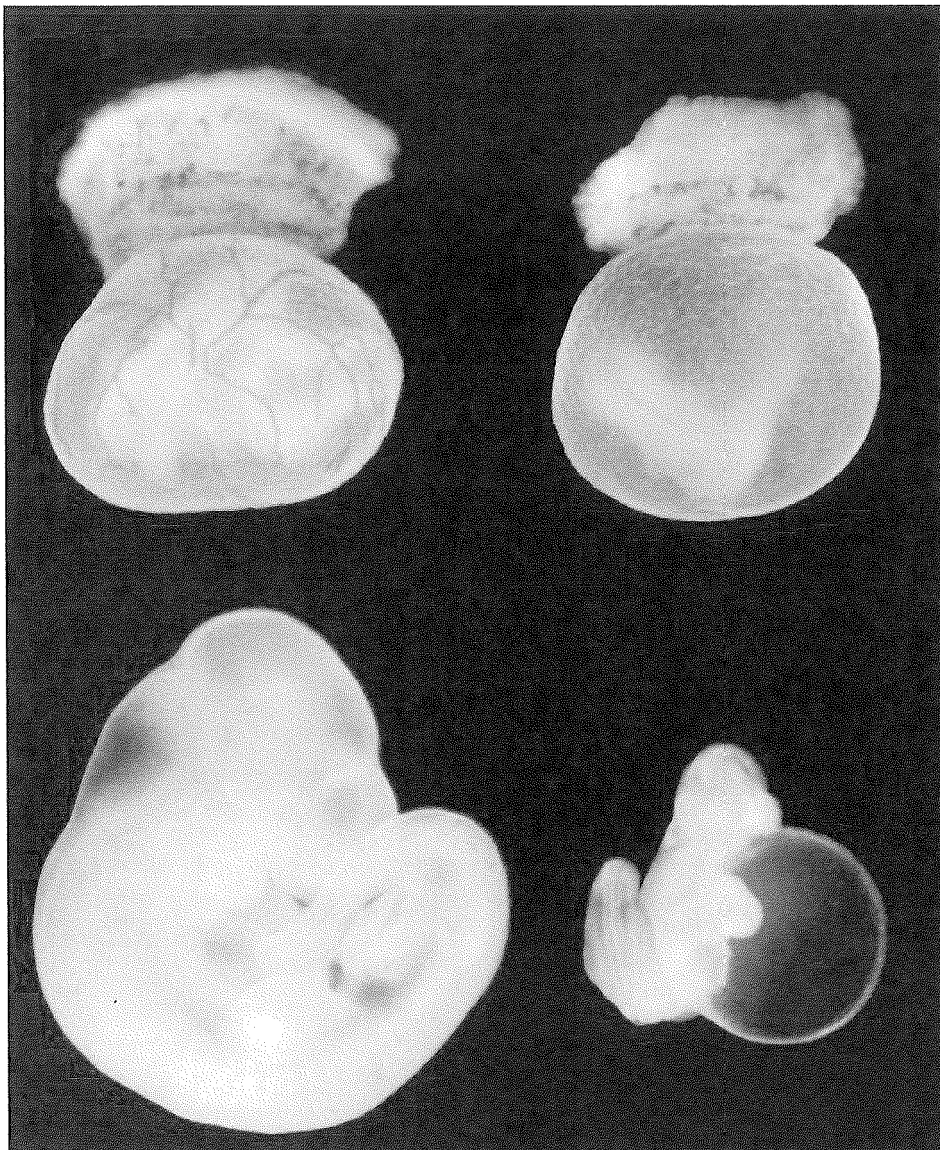
FIGURE 19C*Ela*^{Δ/+}*Ela*^{Δ/Δ}

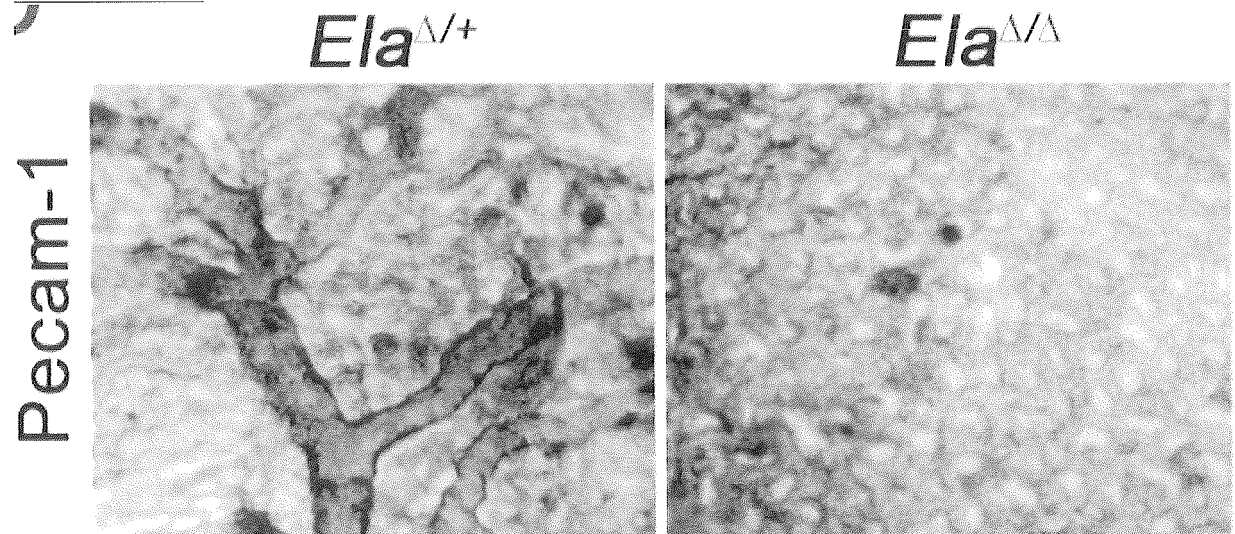
FIGURE 19D

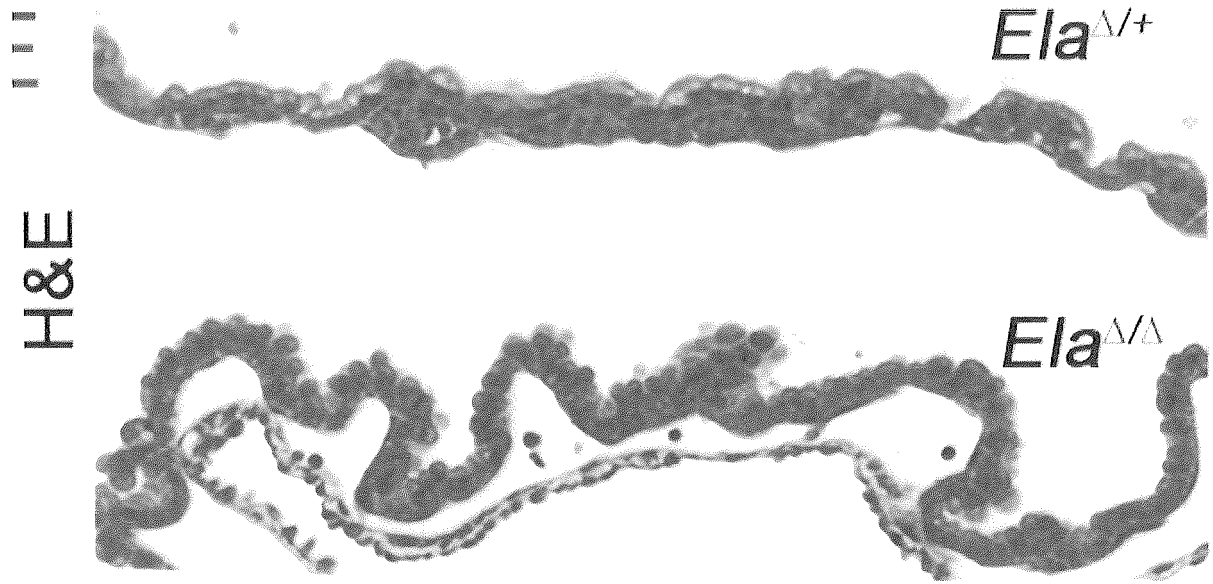
FIGURE 19E

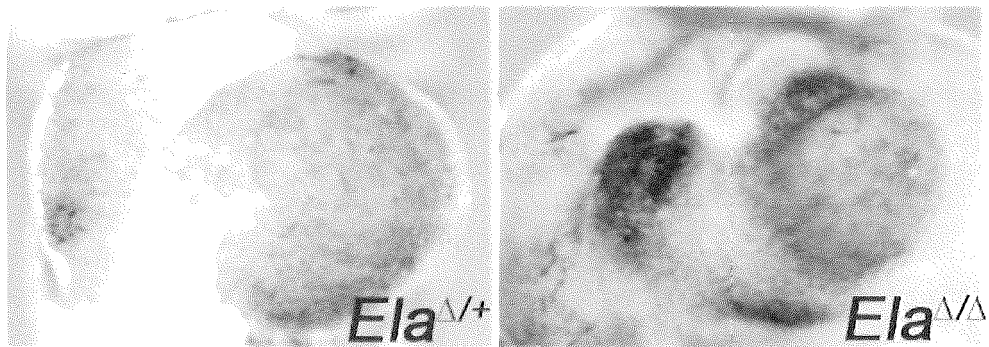
FIGURE 19F

FIGURE 19G

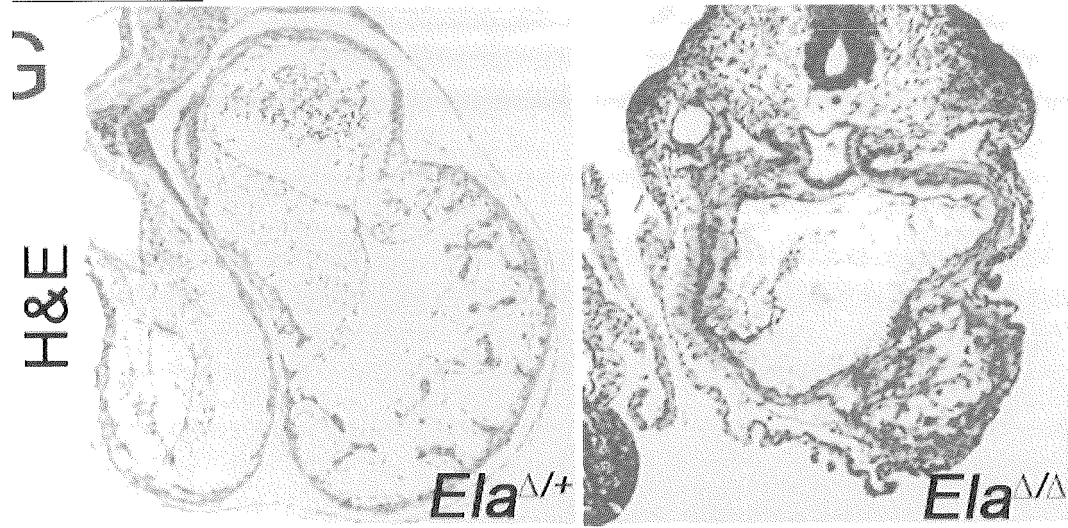


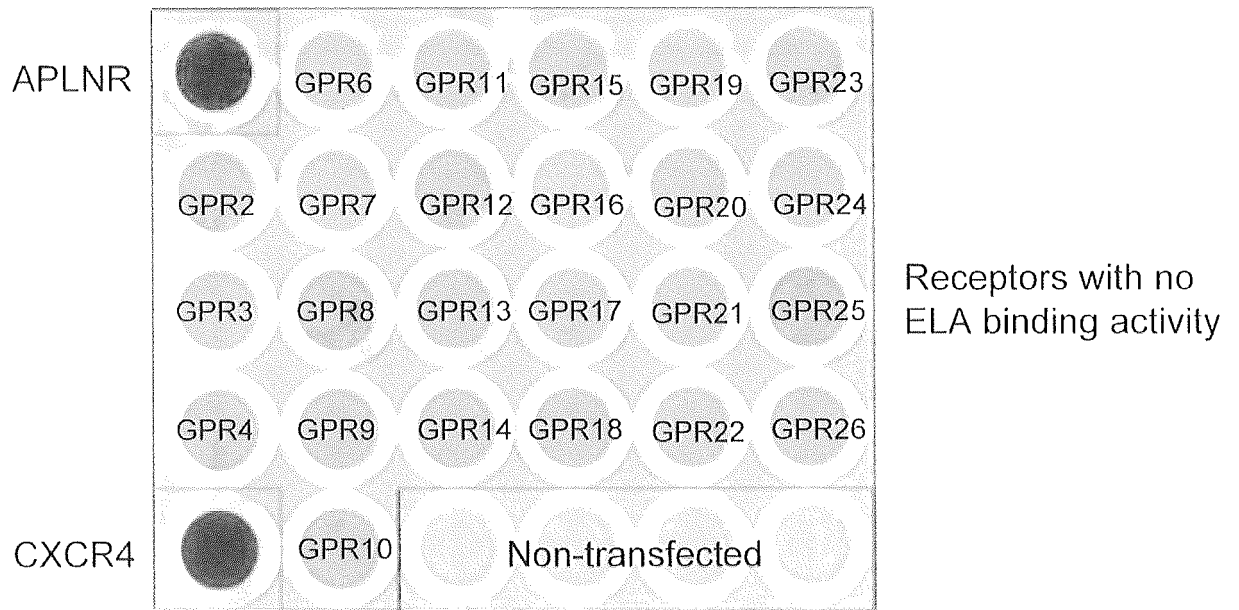
FIGURE 20A

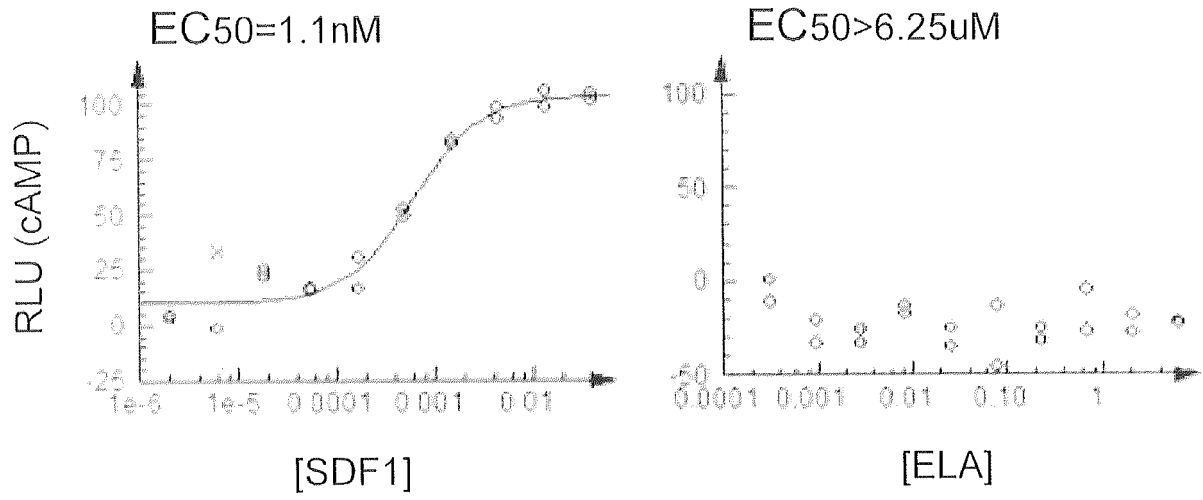
FIGURE 20B

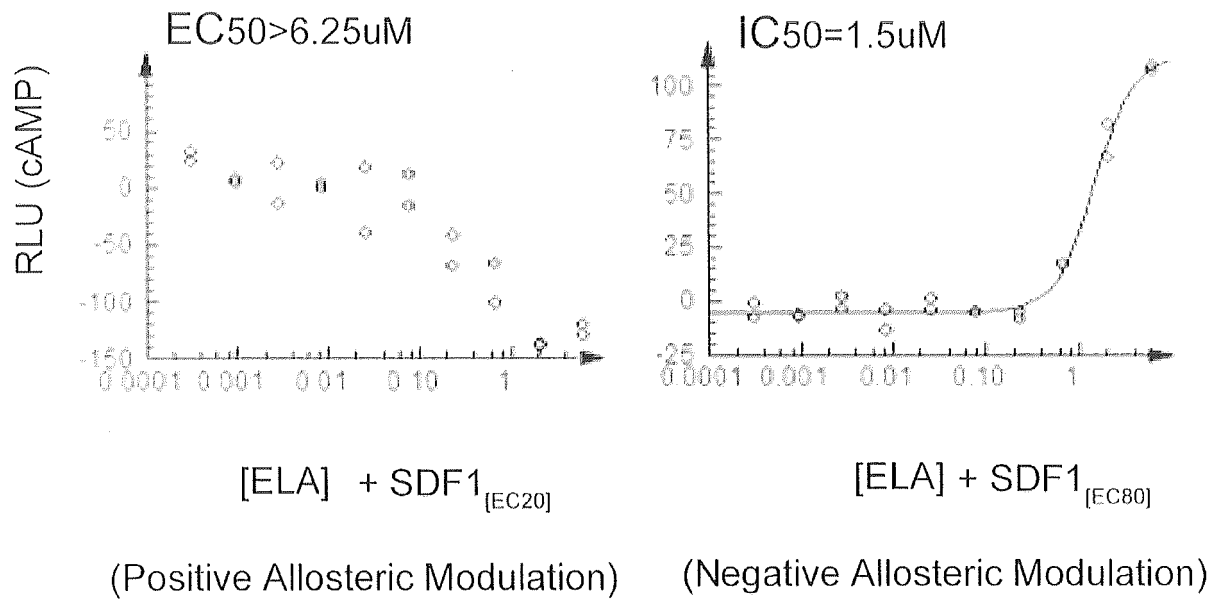
FIGURE 20C

FIGURE 20D