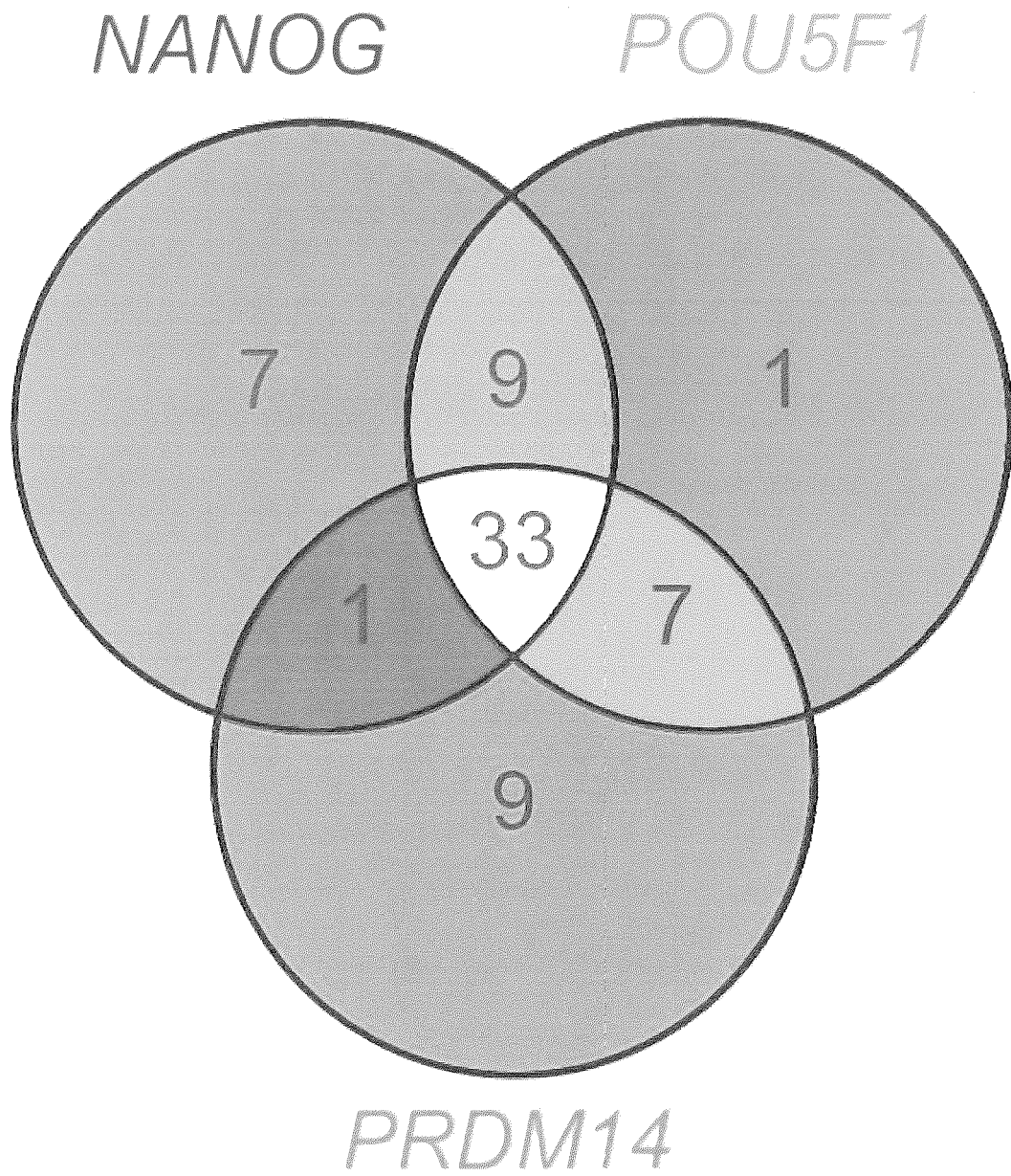


FIGURE 1A

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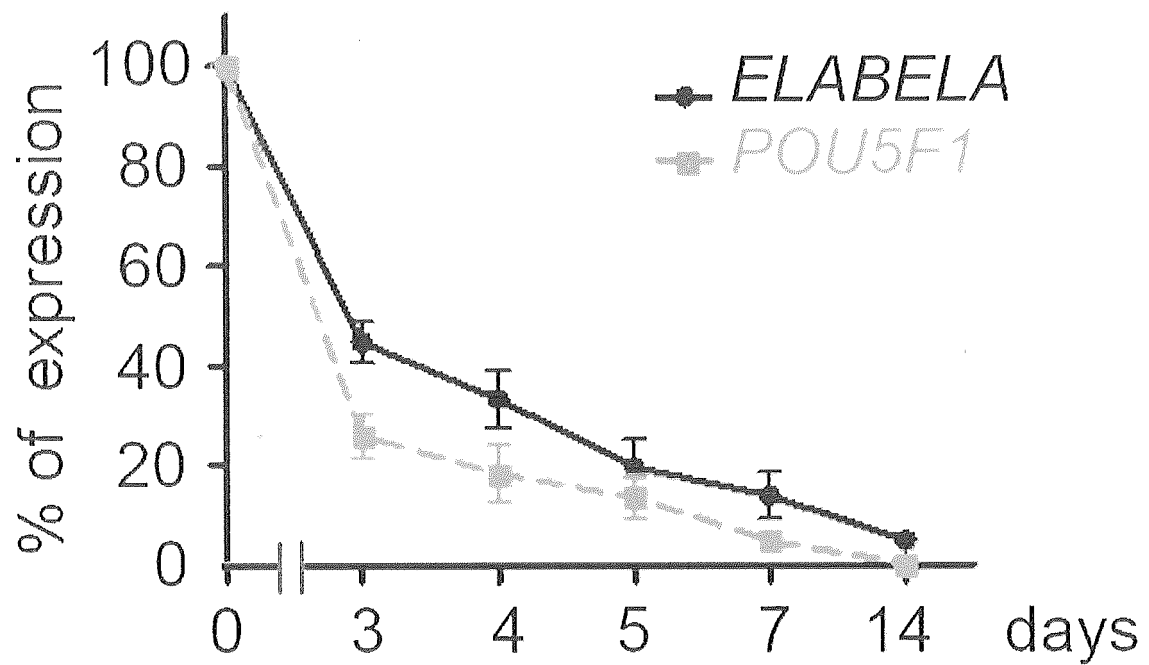
FIGURE 1B

FIGURE 1C

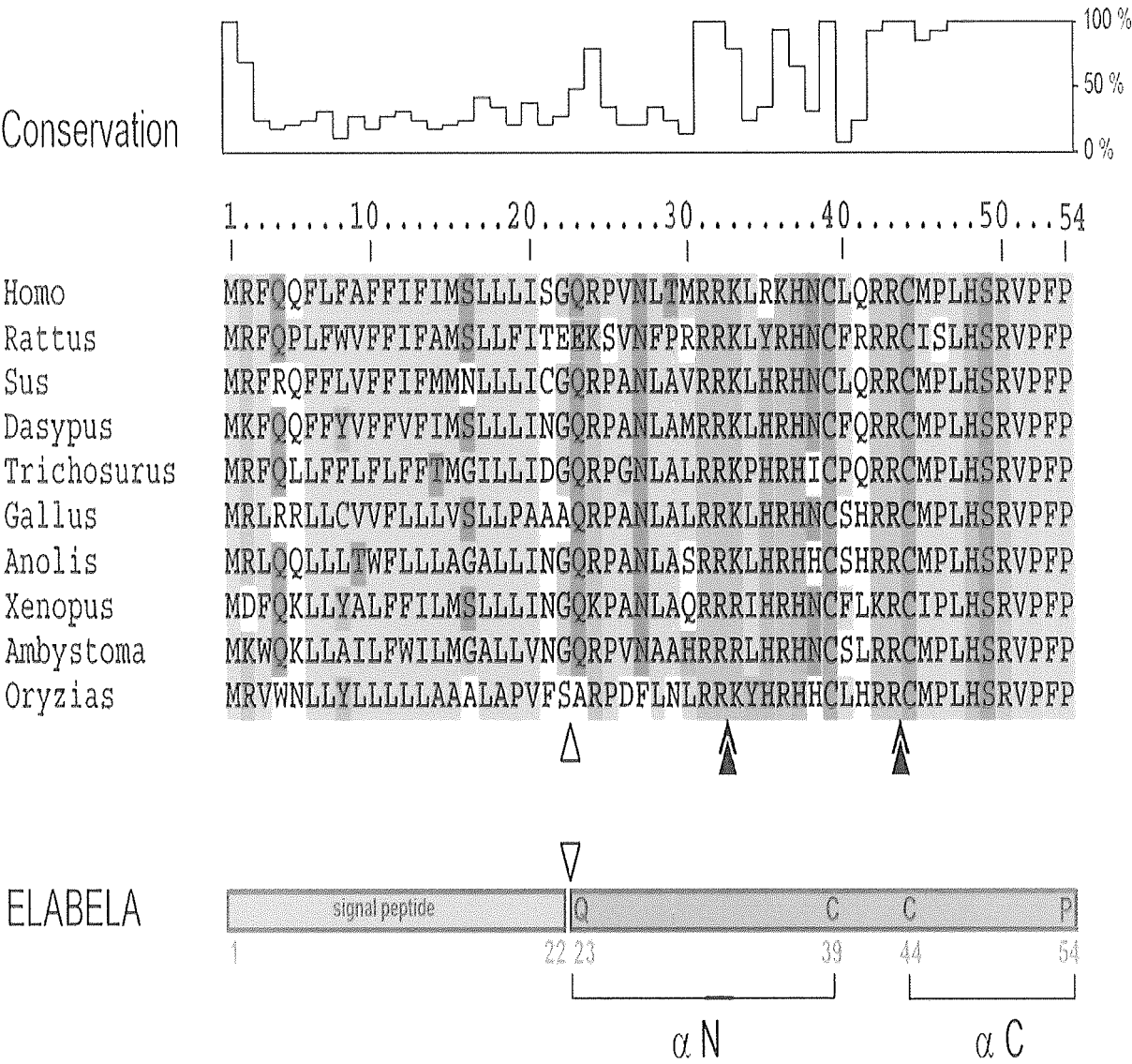


FIGURE 1D

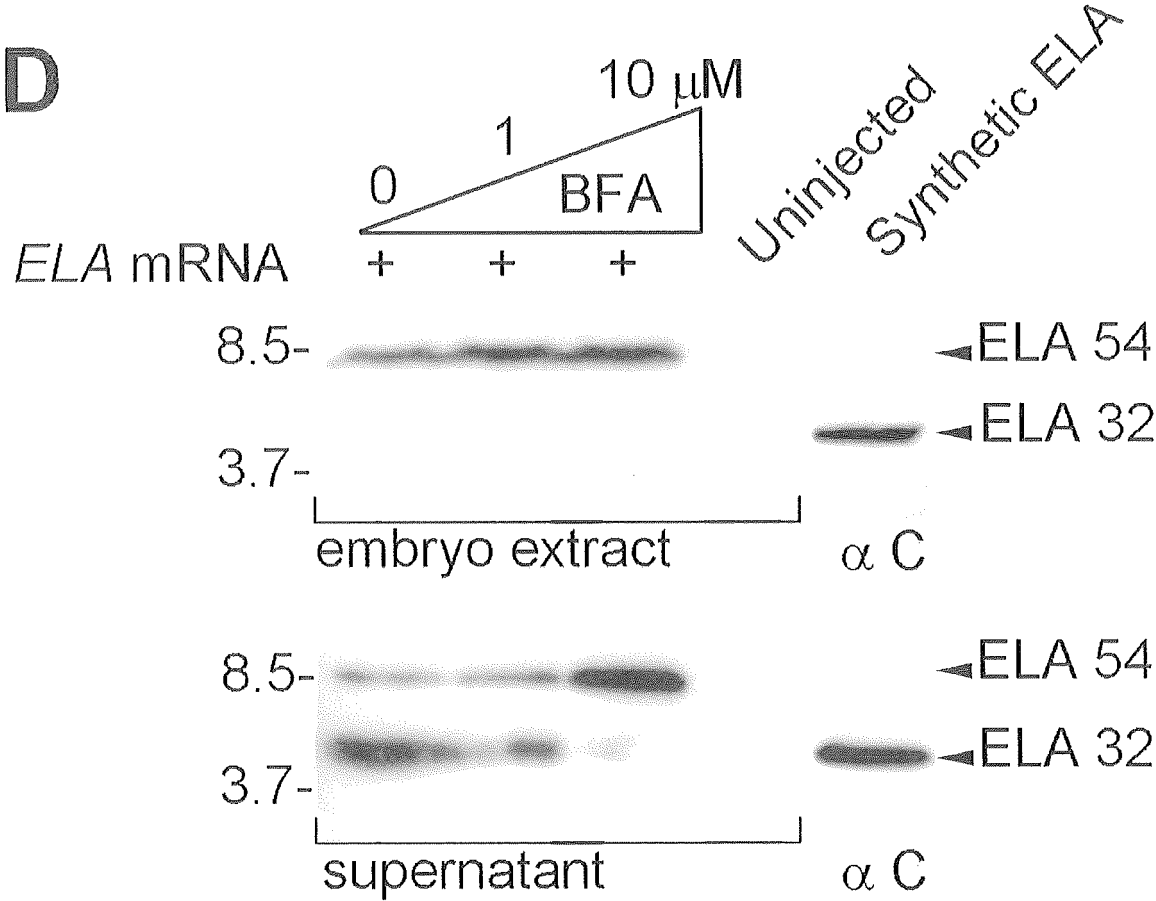


FIGURE 1E

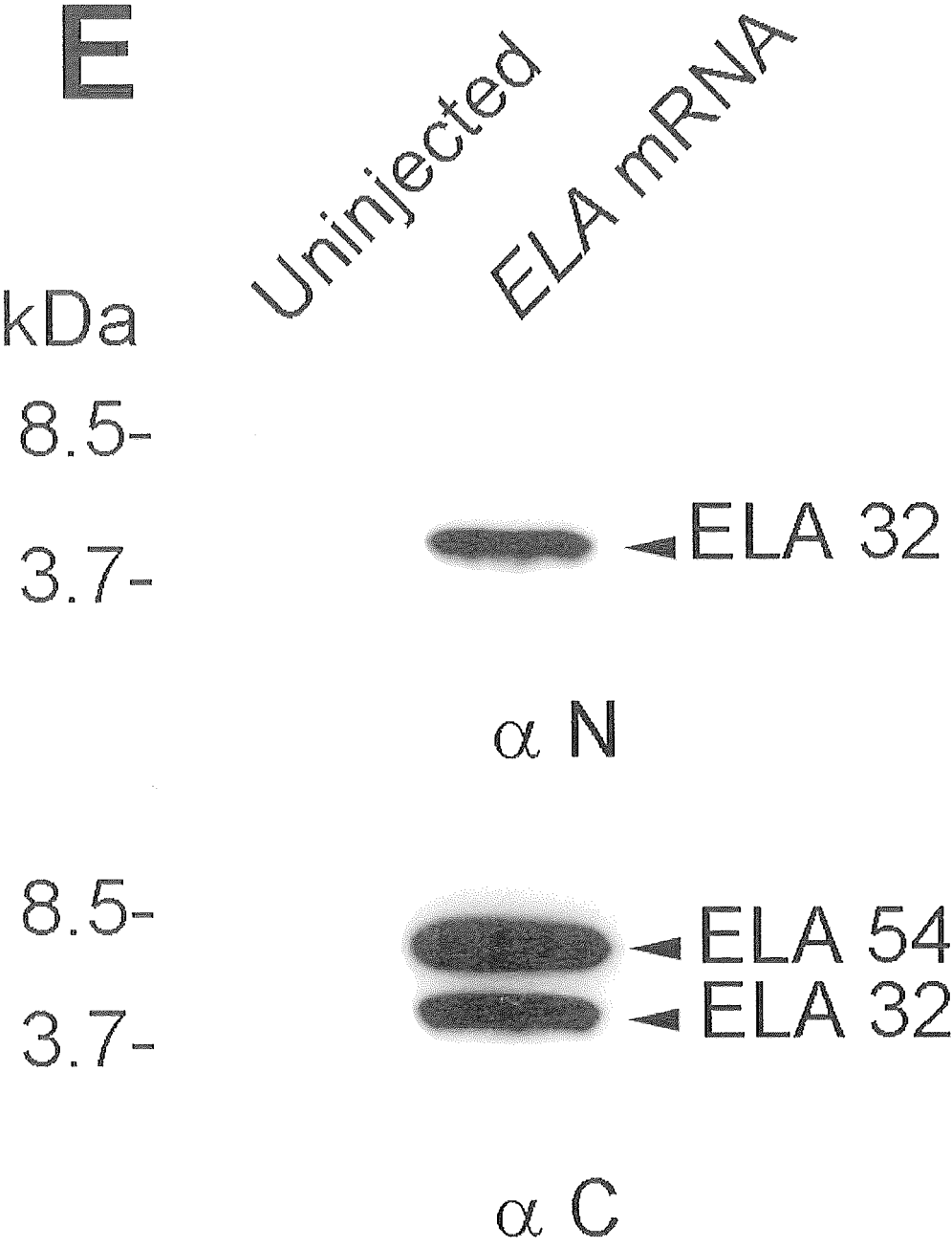


FIGURE 2A

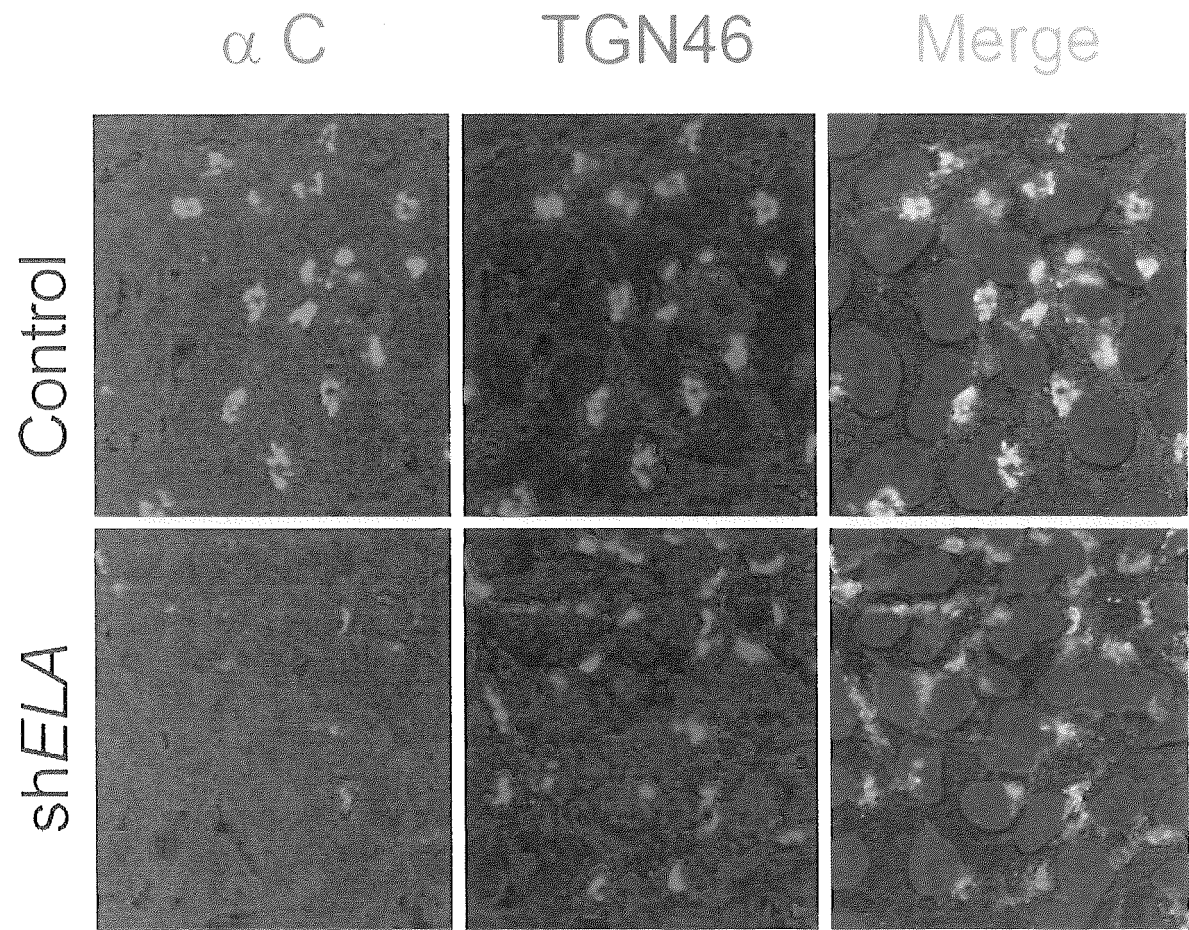


FIGURE 2B

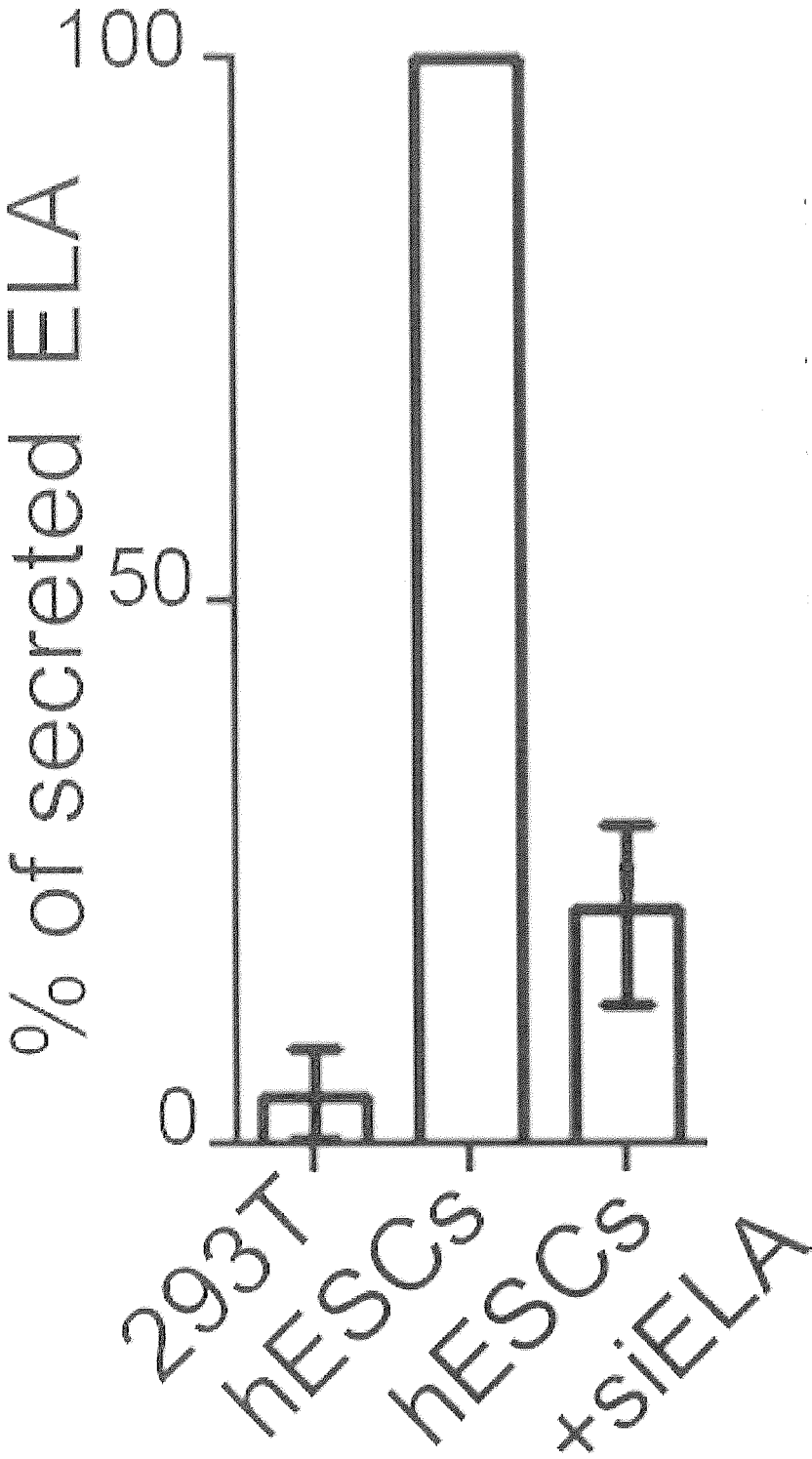


FIGURE 2C

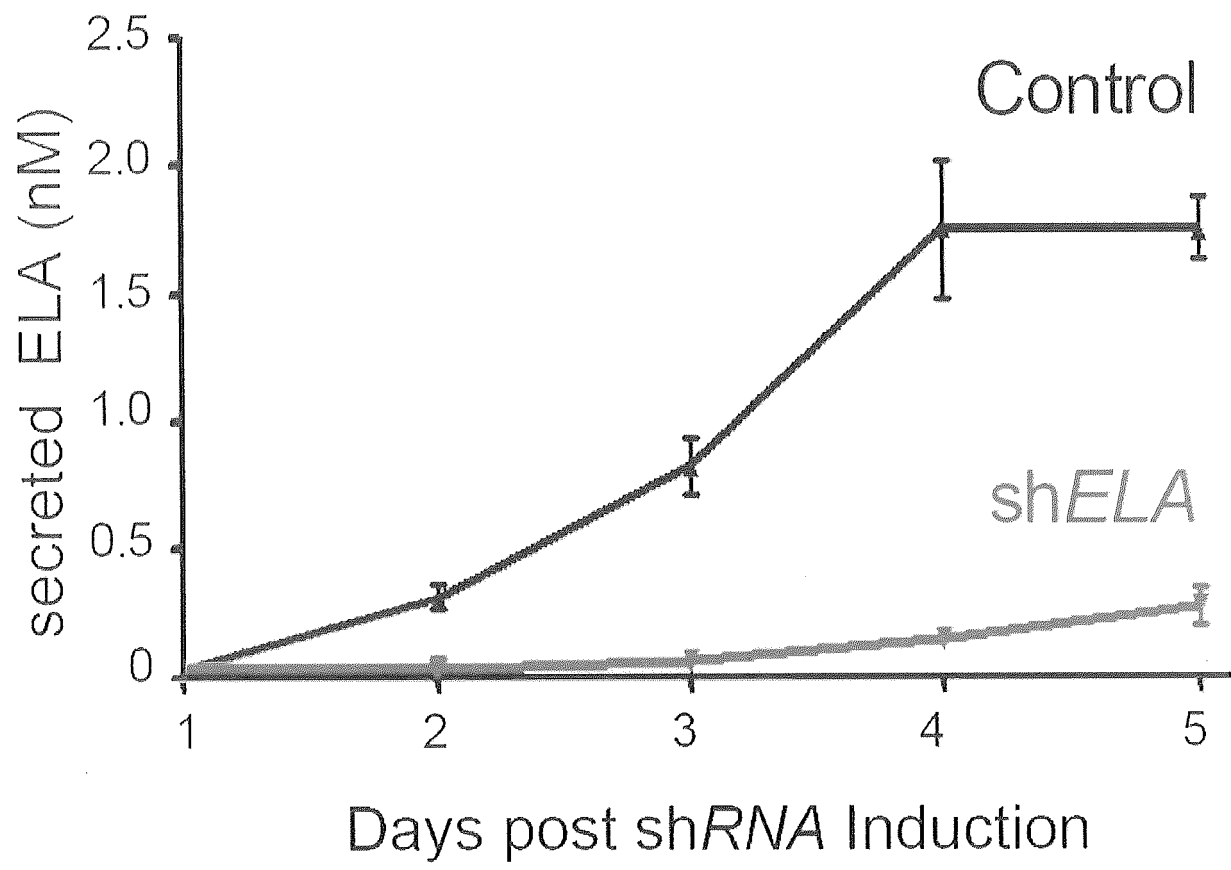


FIGURE 2D

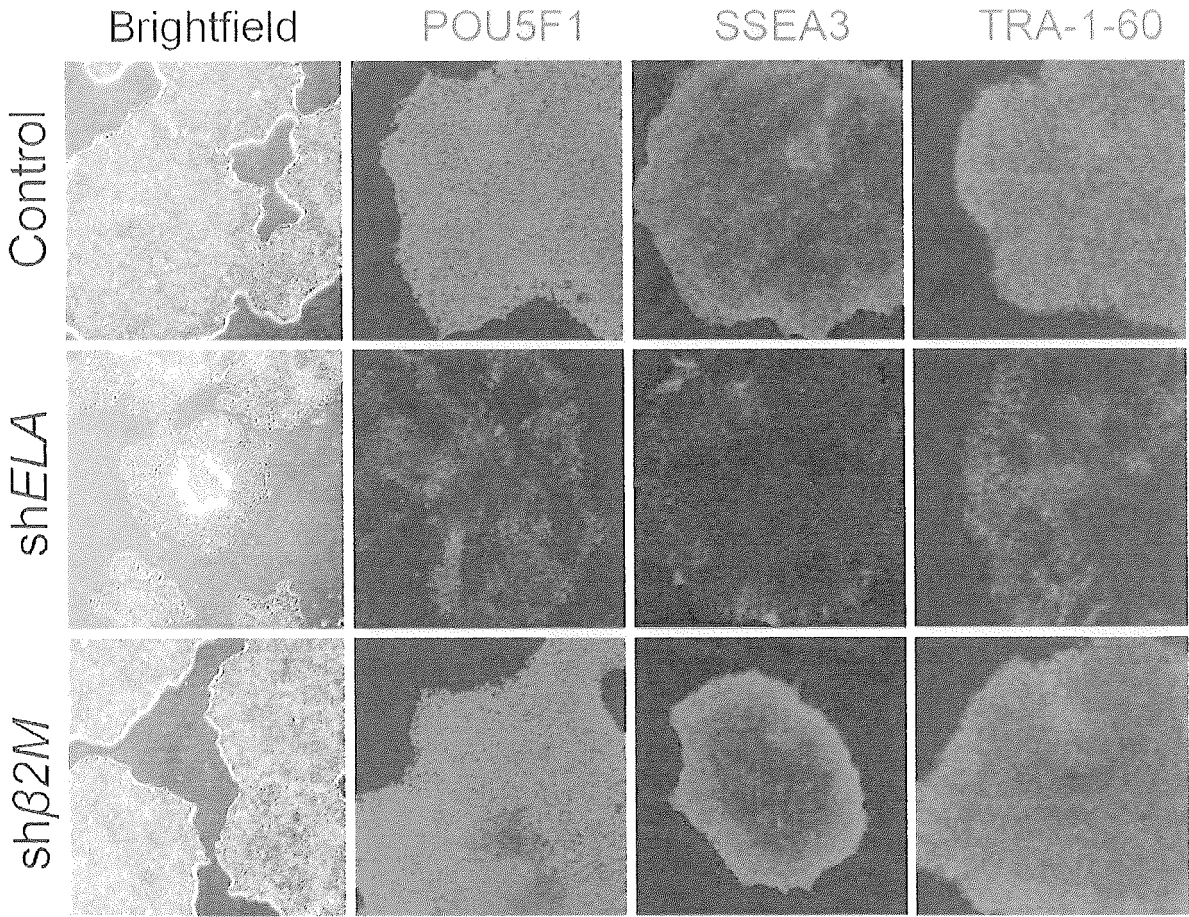


FIGURE 2E

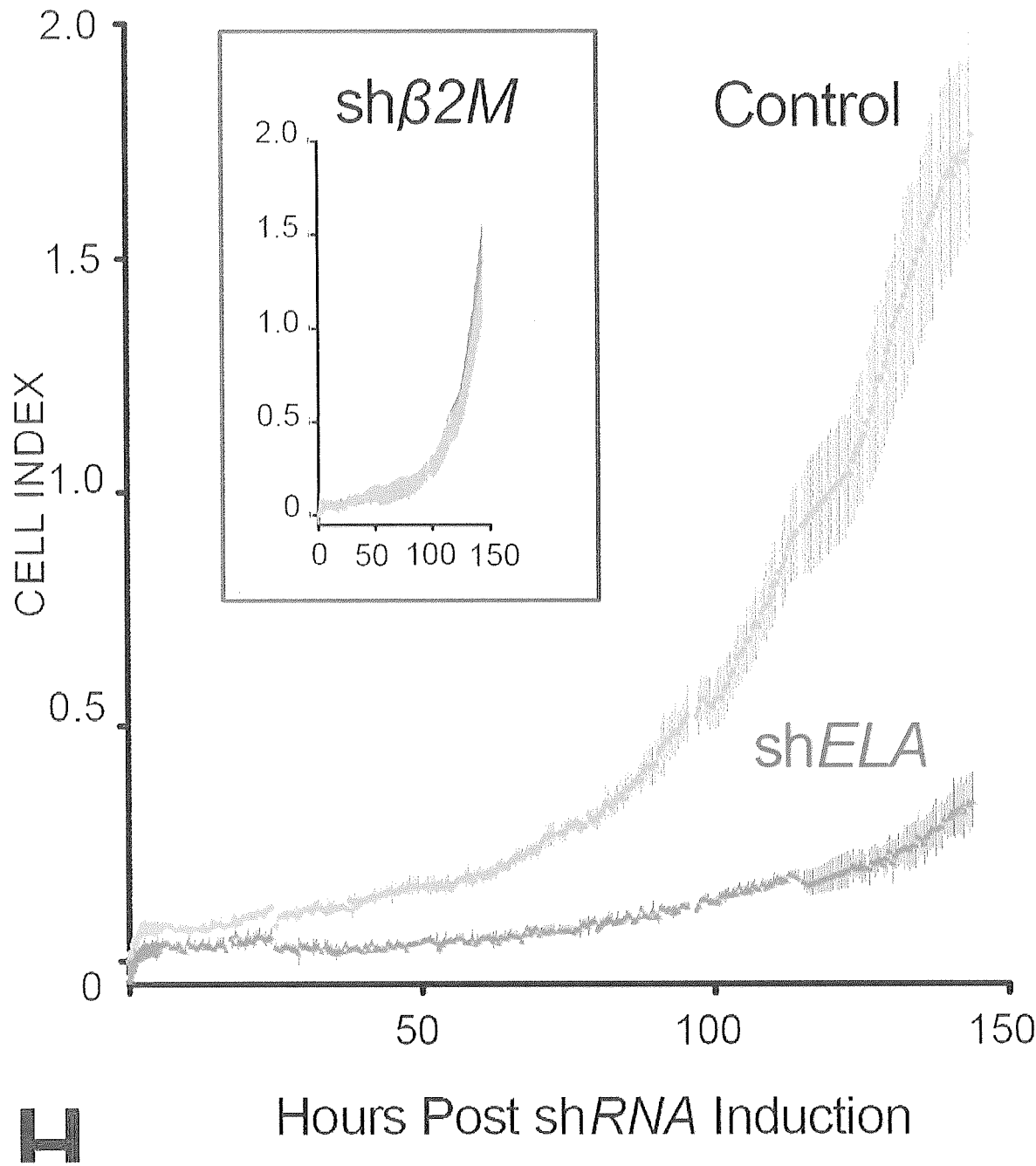


FIGURE 2F

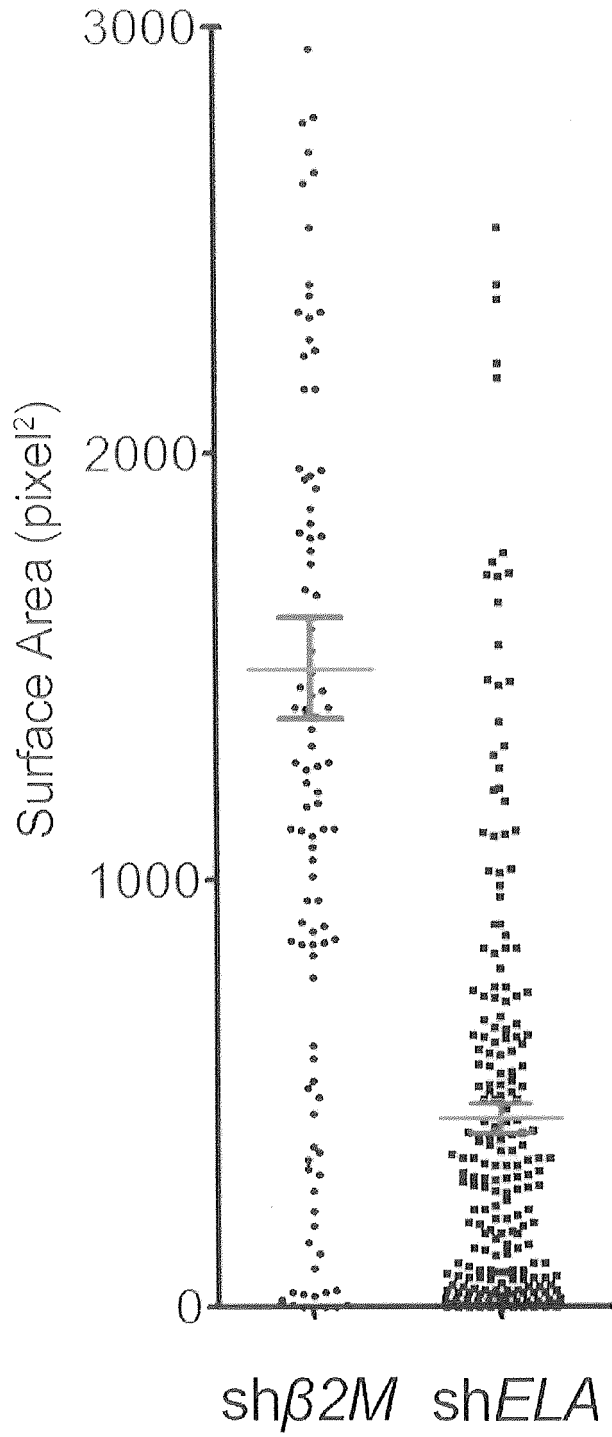


FIGURE 2G

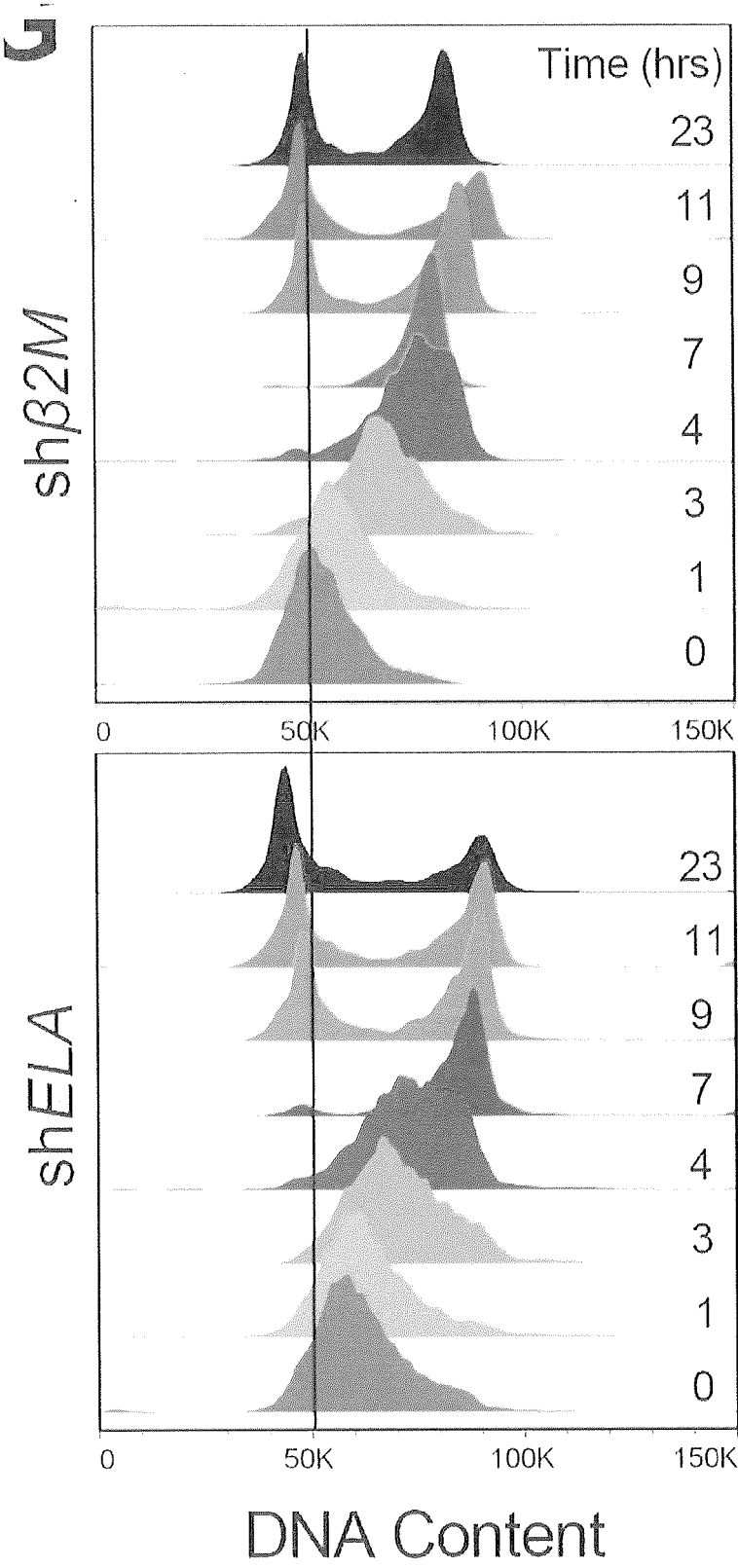


FIGURE 2H

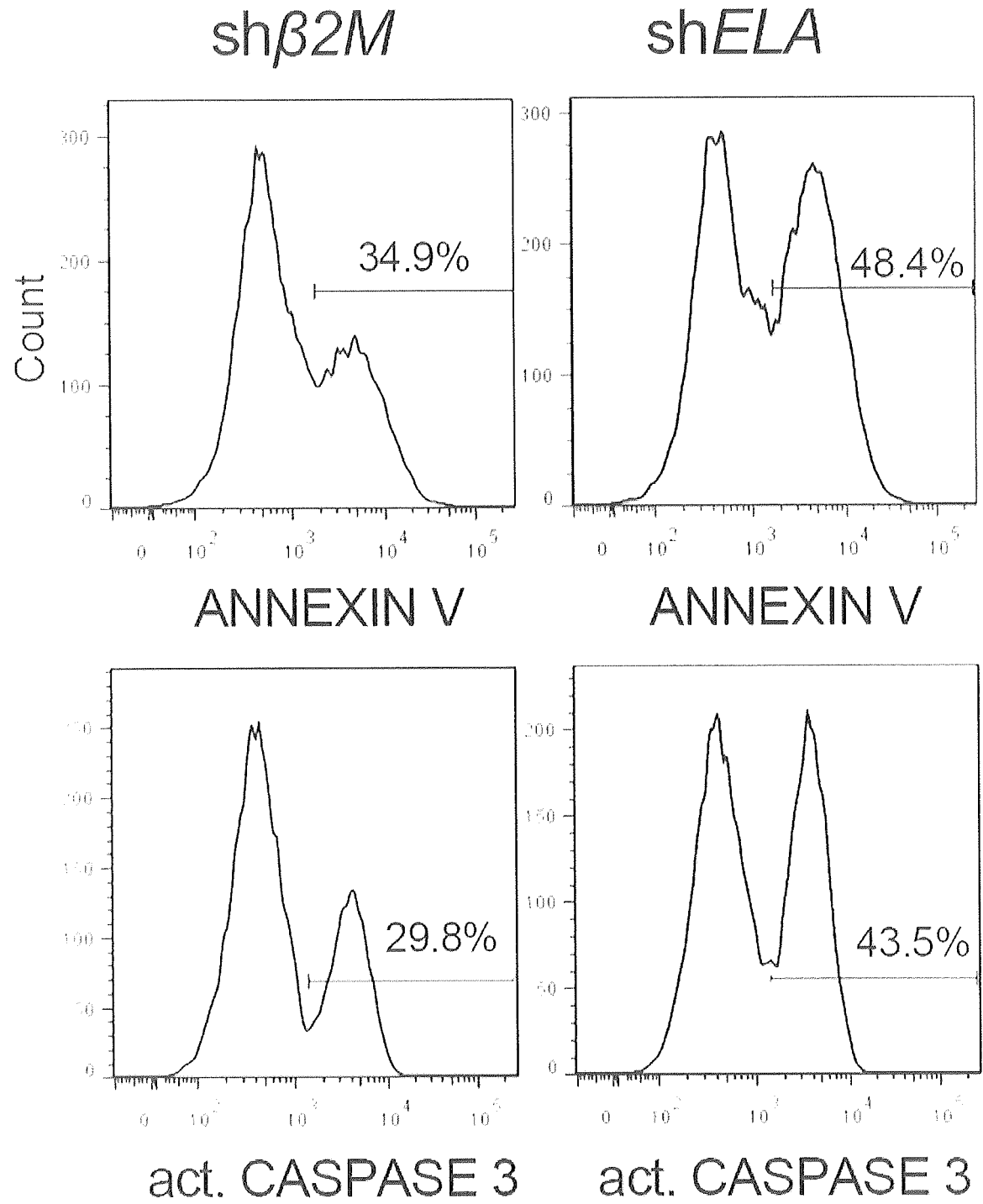


FIGURE 3A

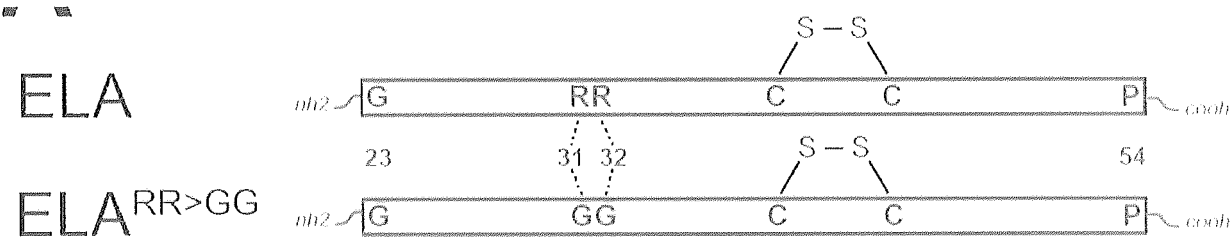


FIGURE 3B

ELARR>GG
ELA D

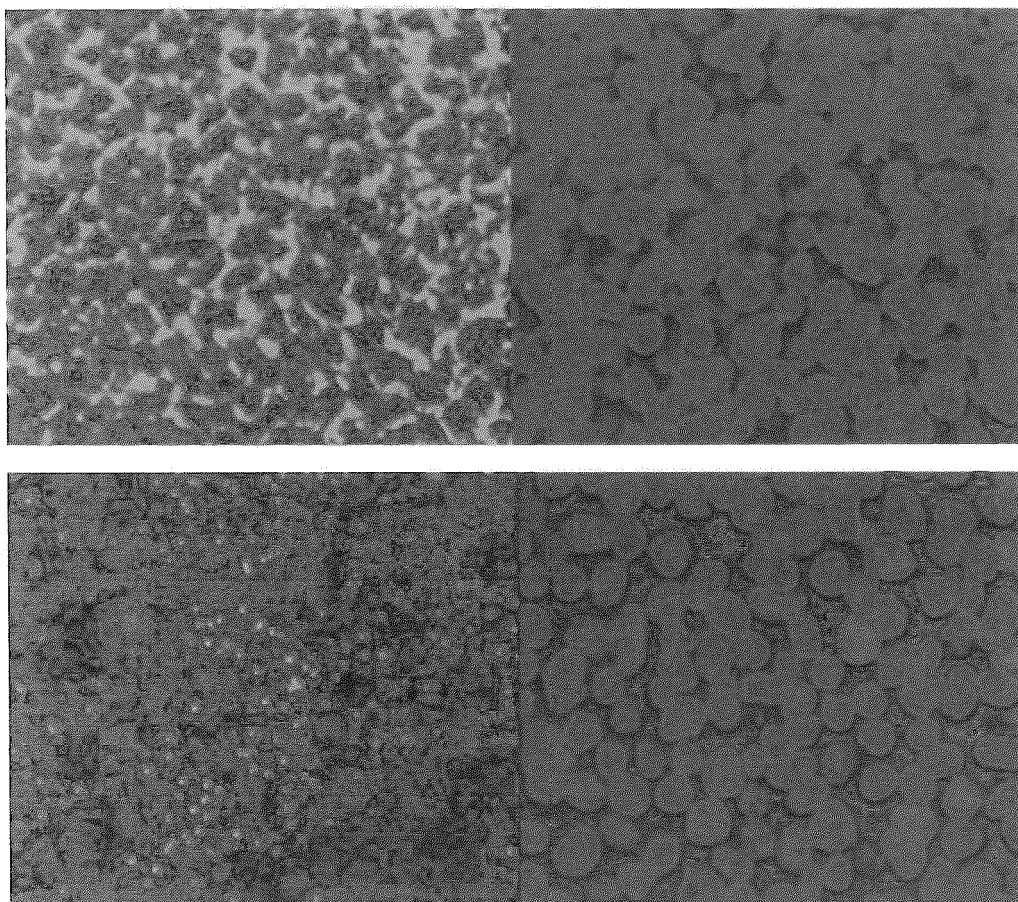
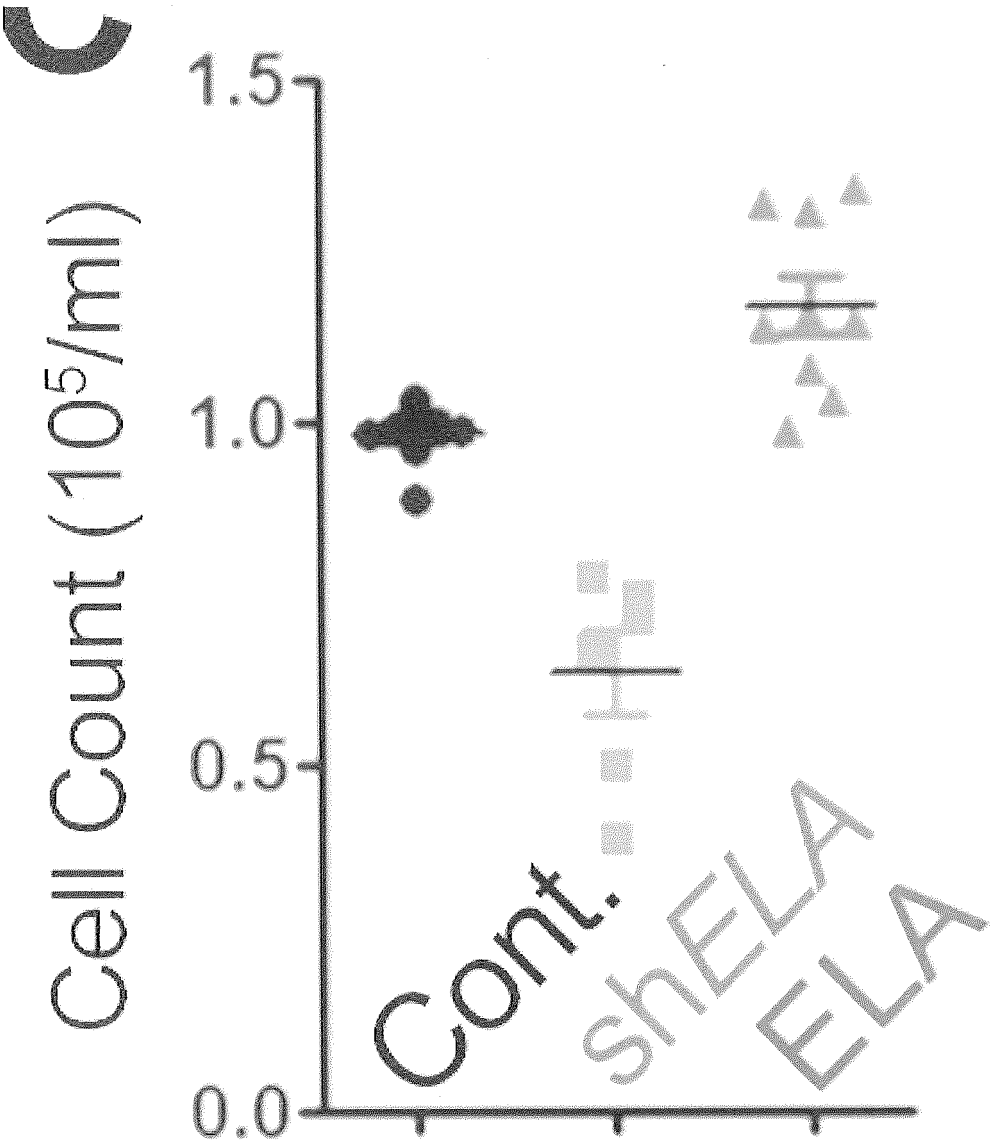


FIGURE 3C



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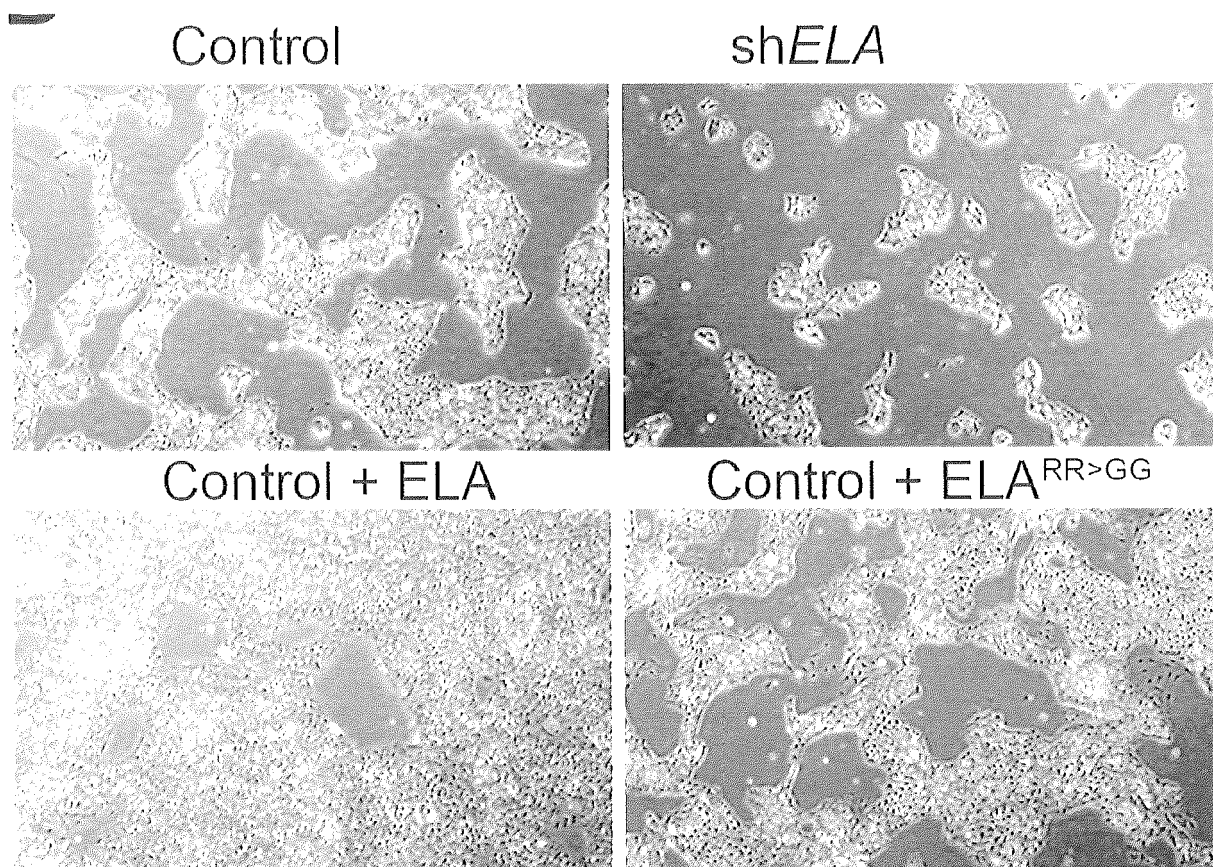
FIGURE 3D

FIGURE 3E

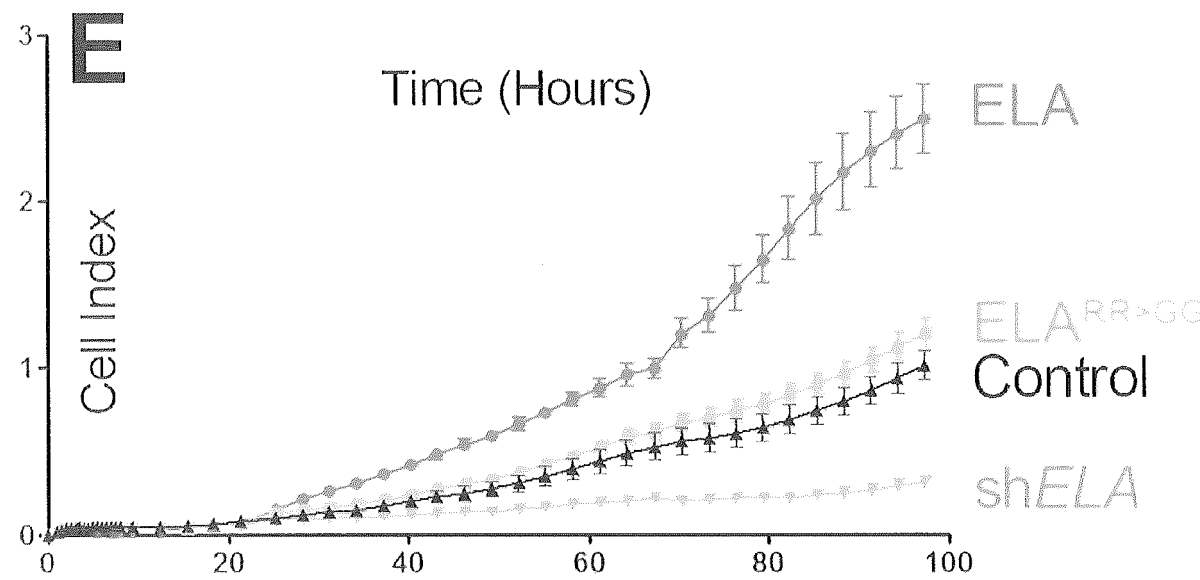
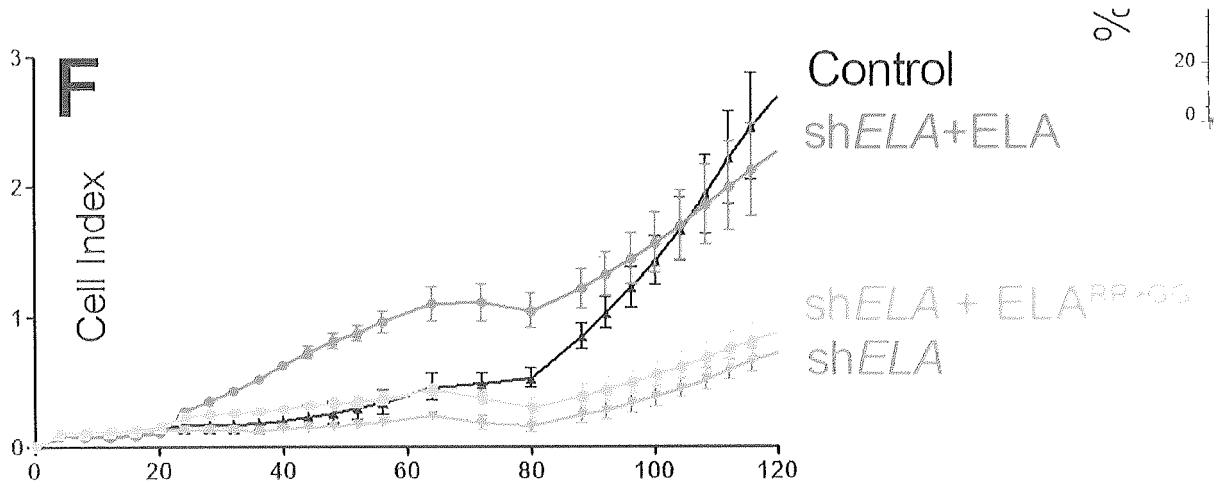


FIGURE 3F



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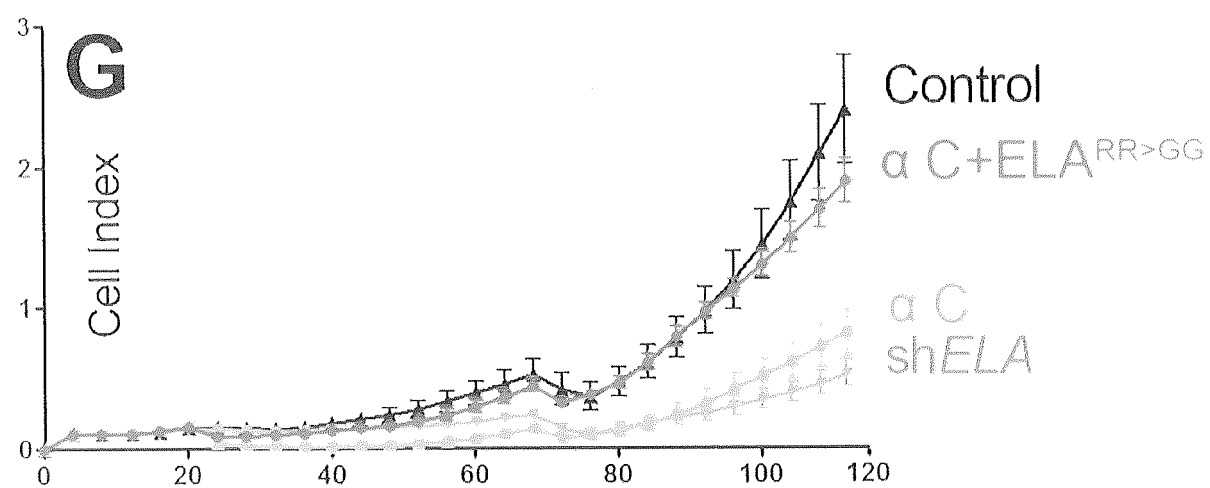
FIGURE 3G

FIGURE 3H

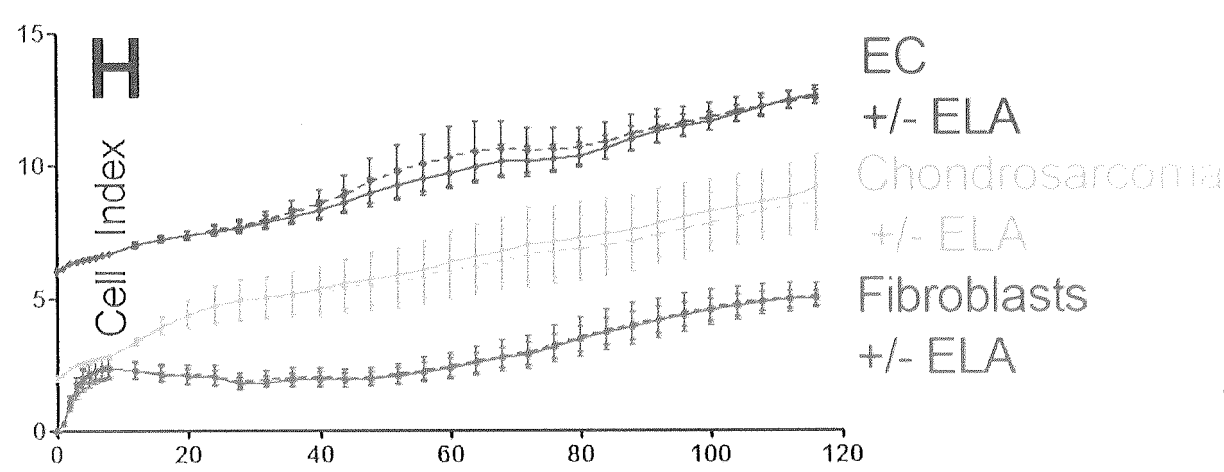


FIGURE 3I

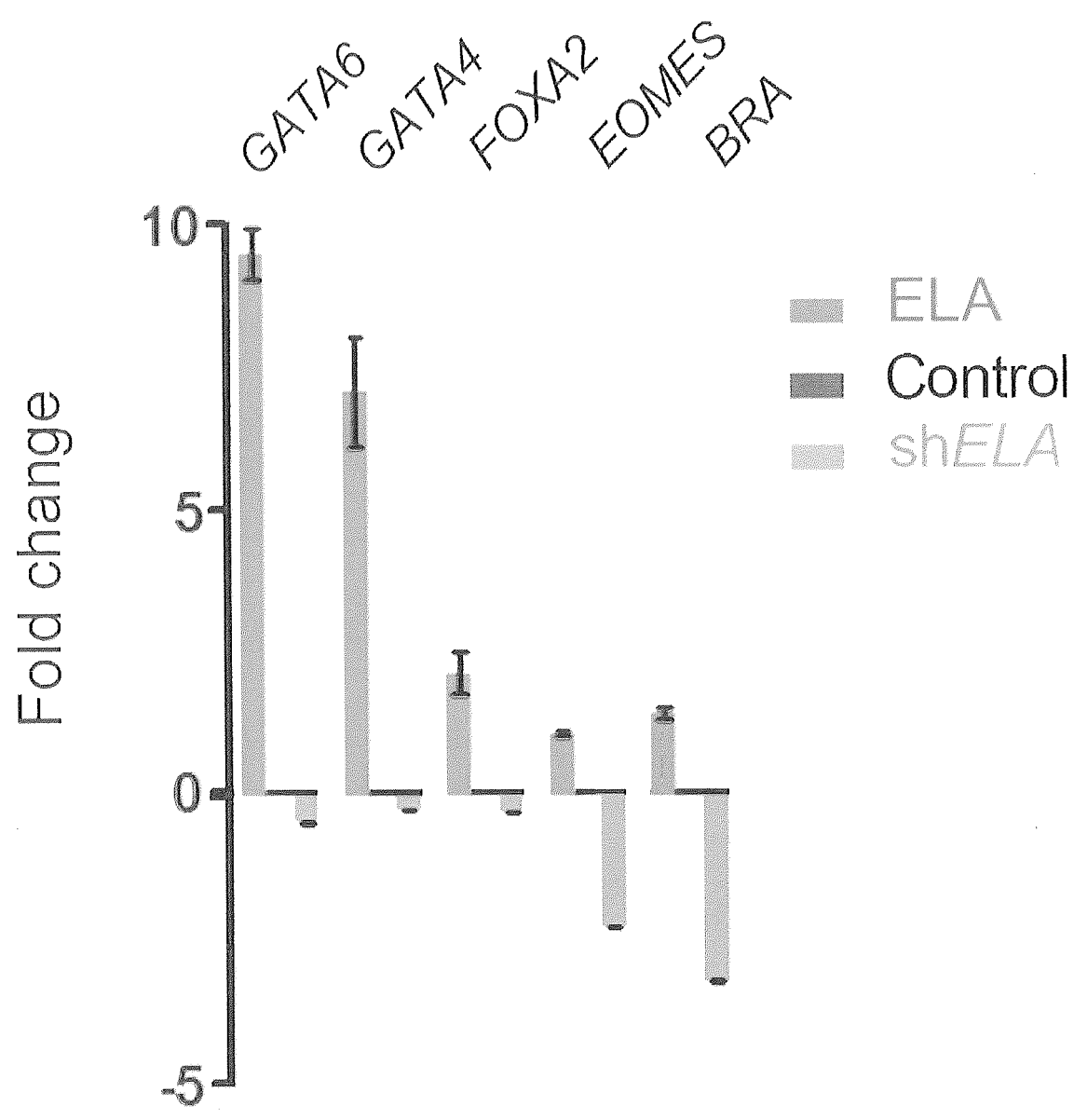


FIGURE 3J

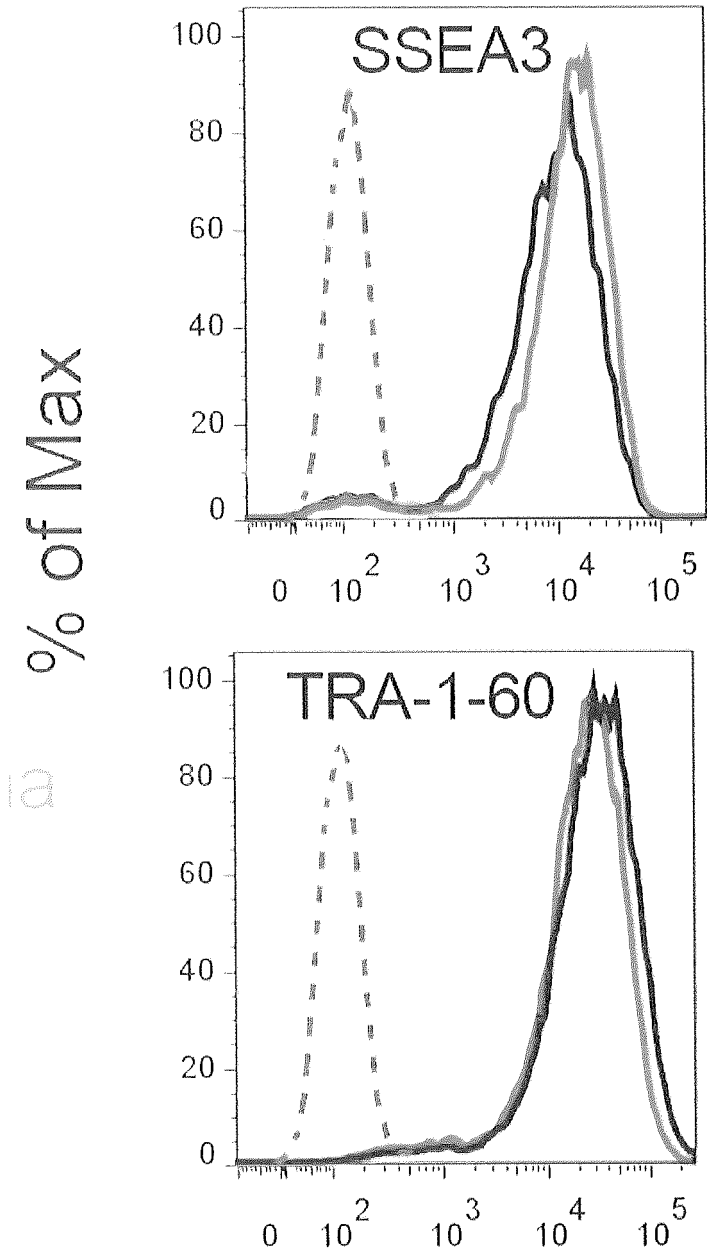


FIGURE 3K

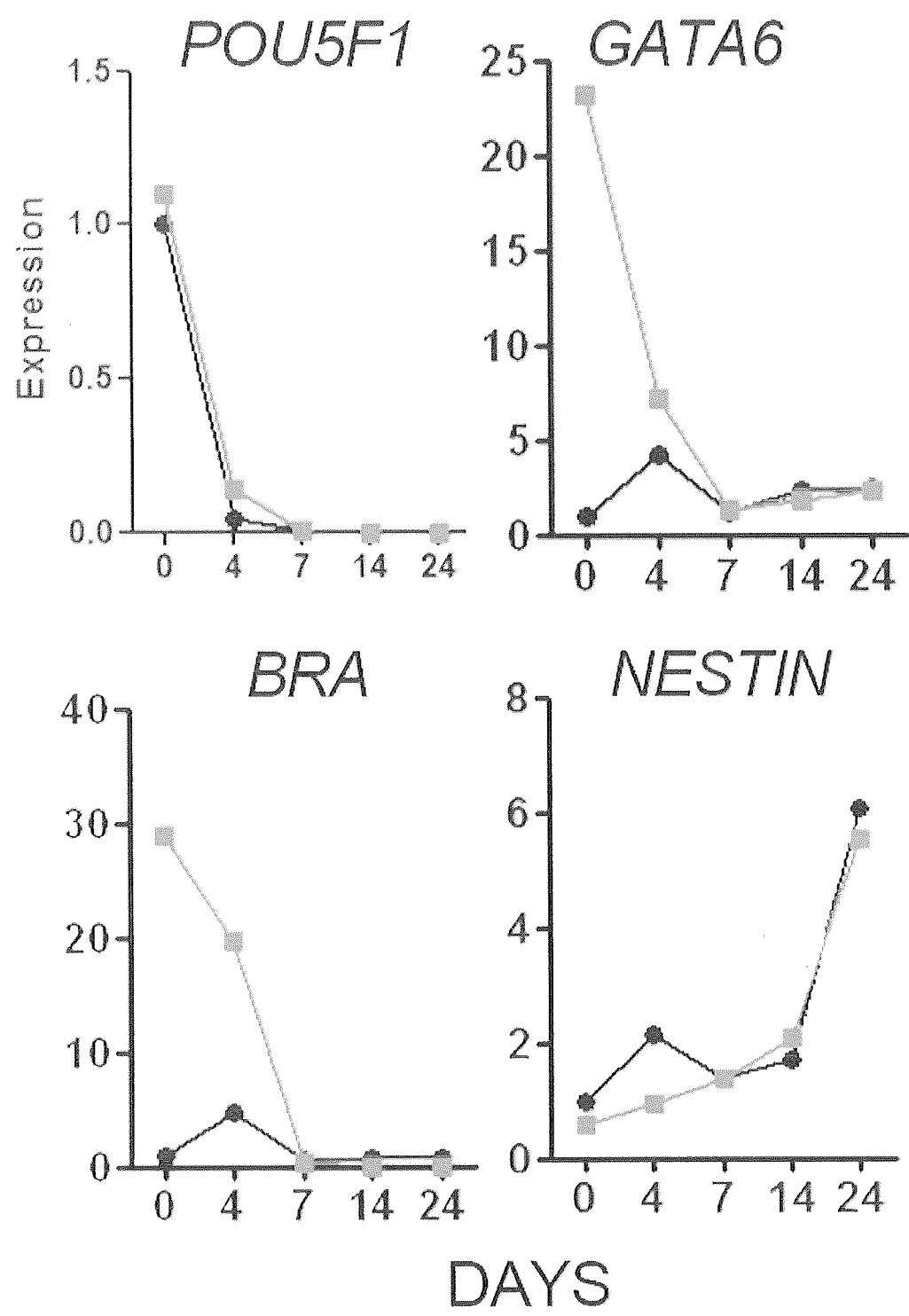


FIGURE 4A

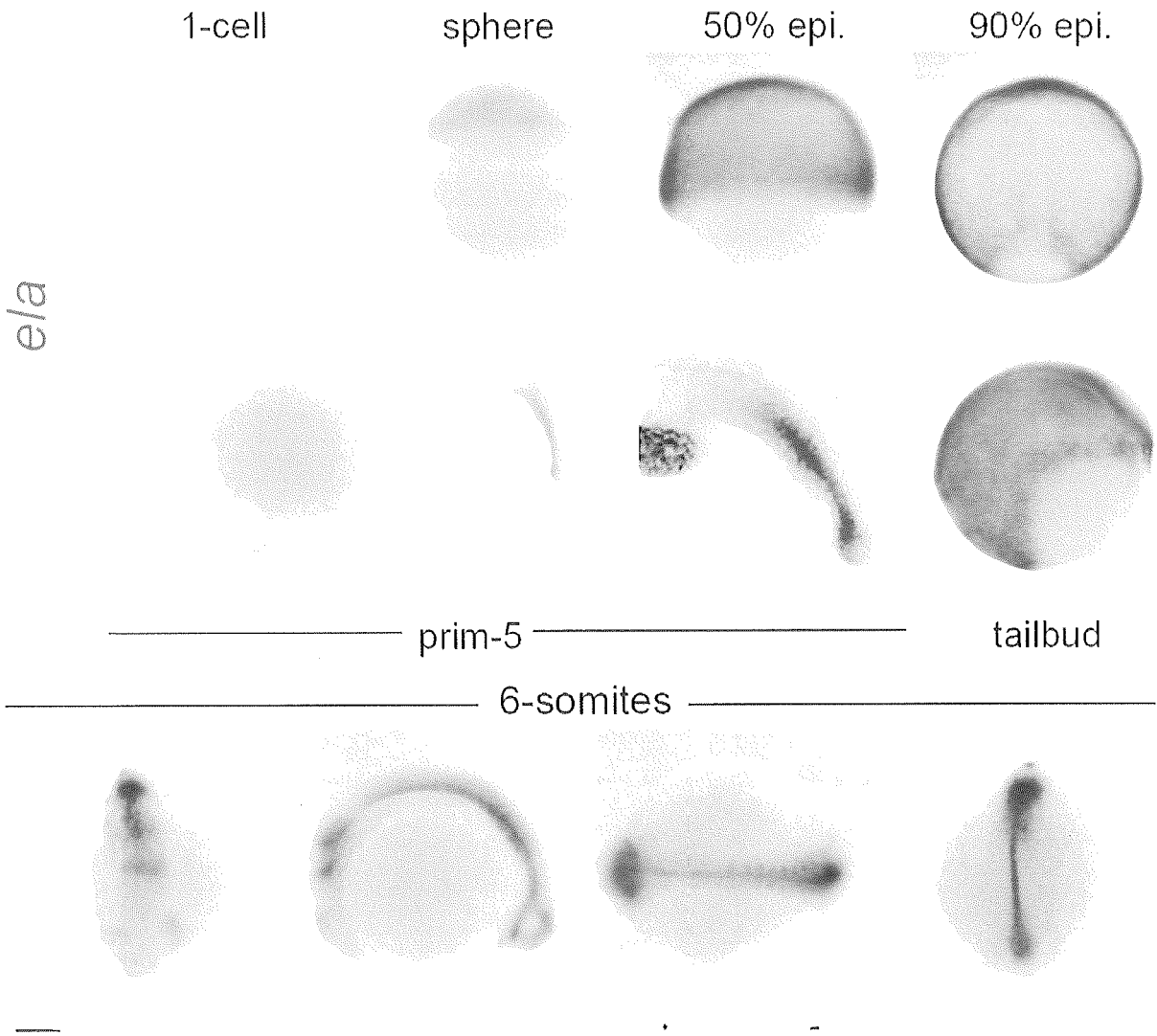


FIGURE 4B

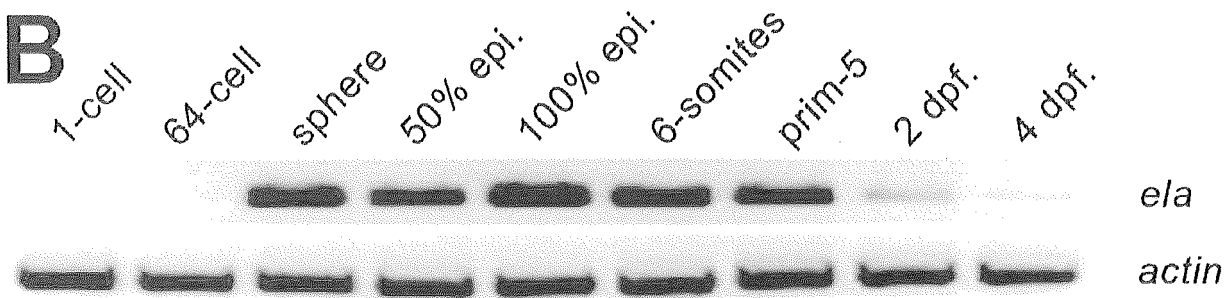
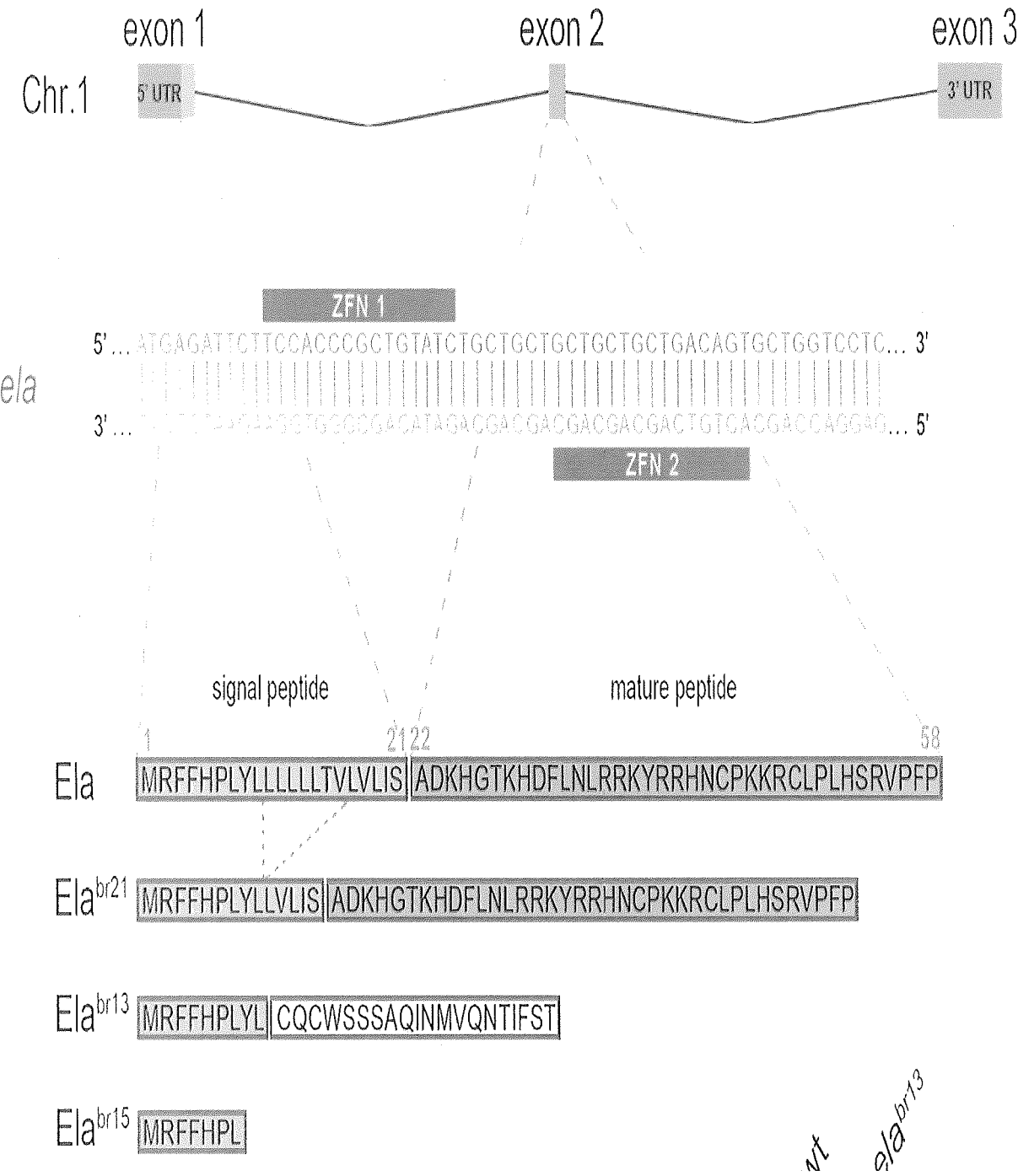


FIGURE 4C AND FIGURE 4D



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FIGURE 4E

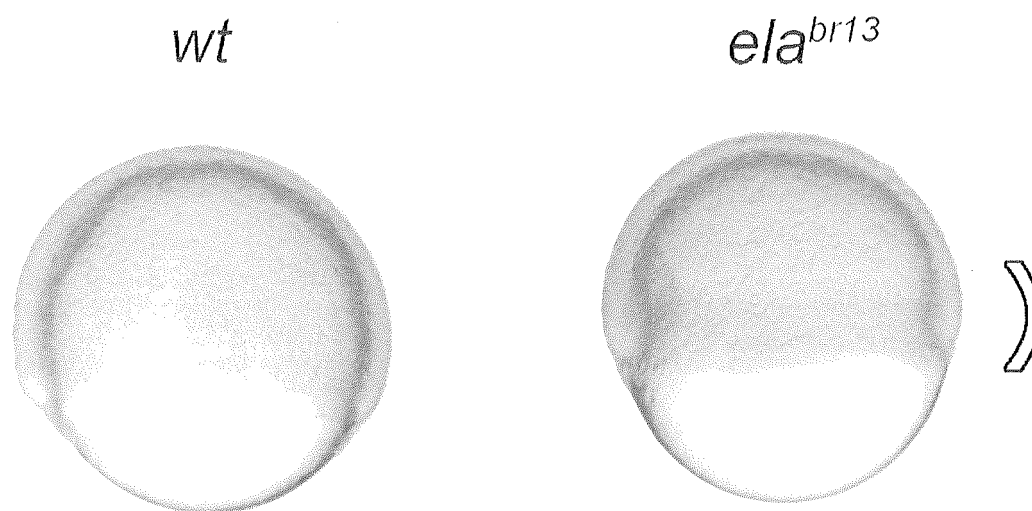


FIGURE 4F

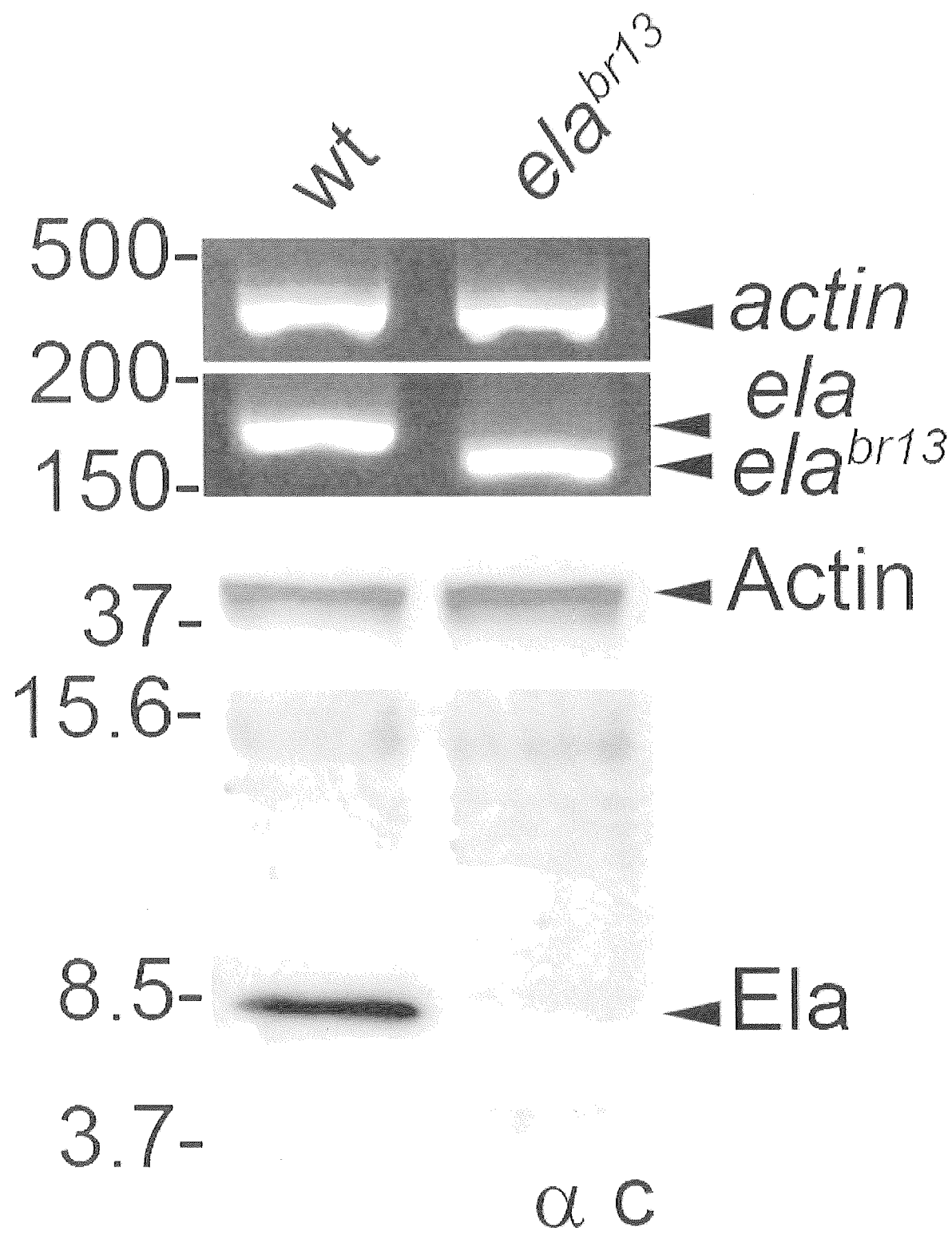
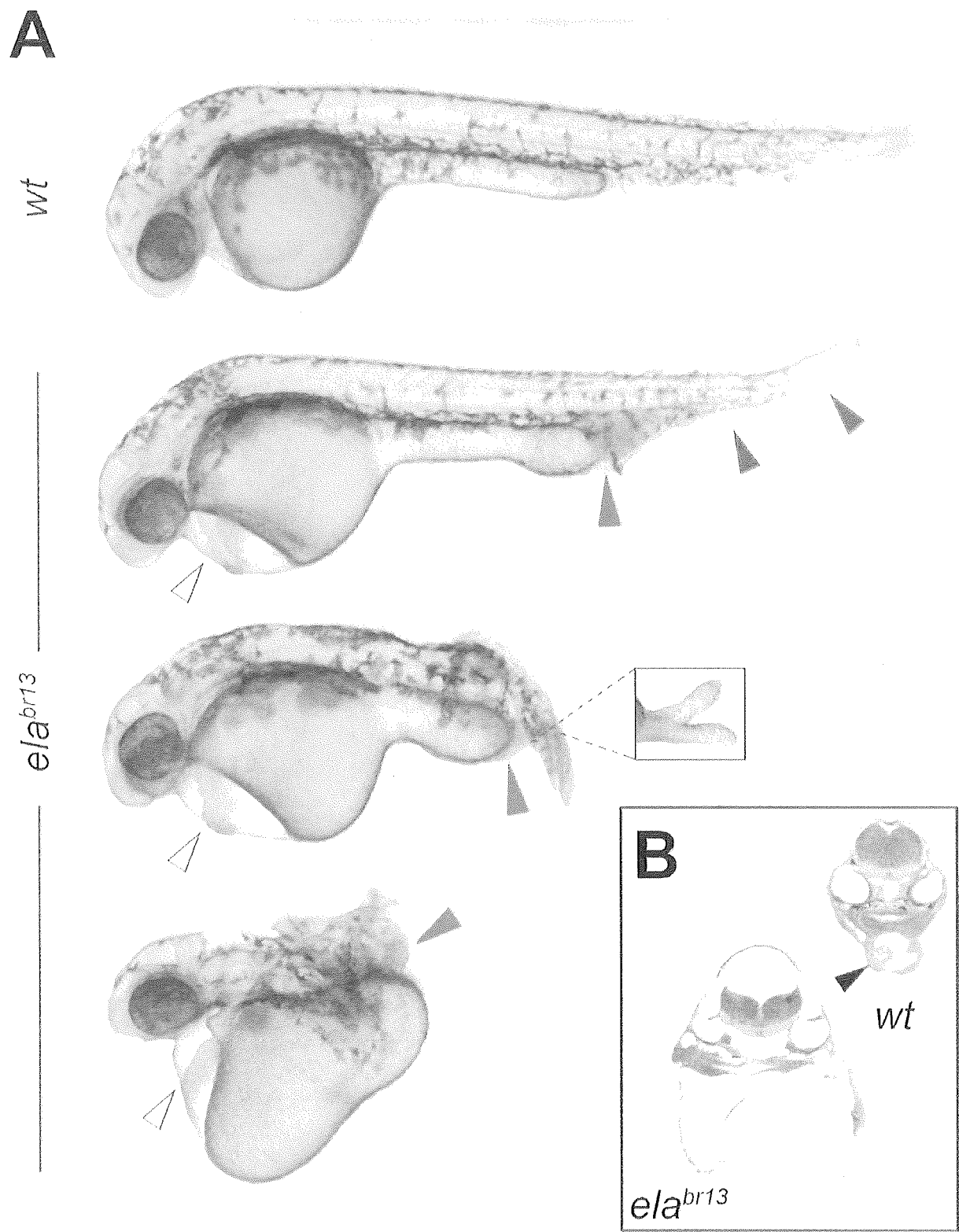
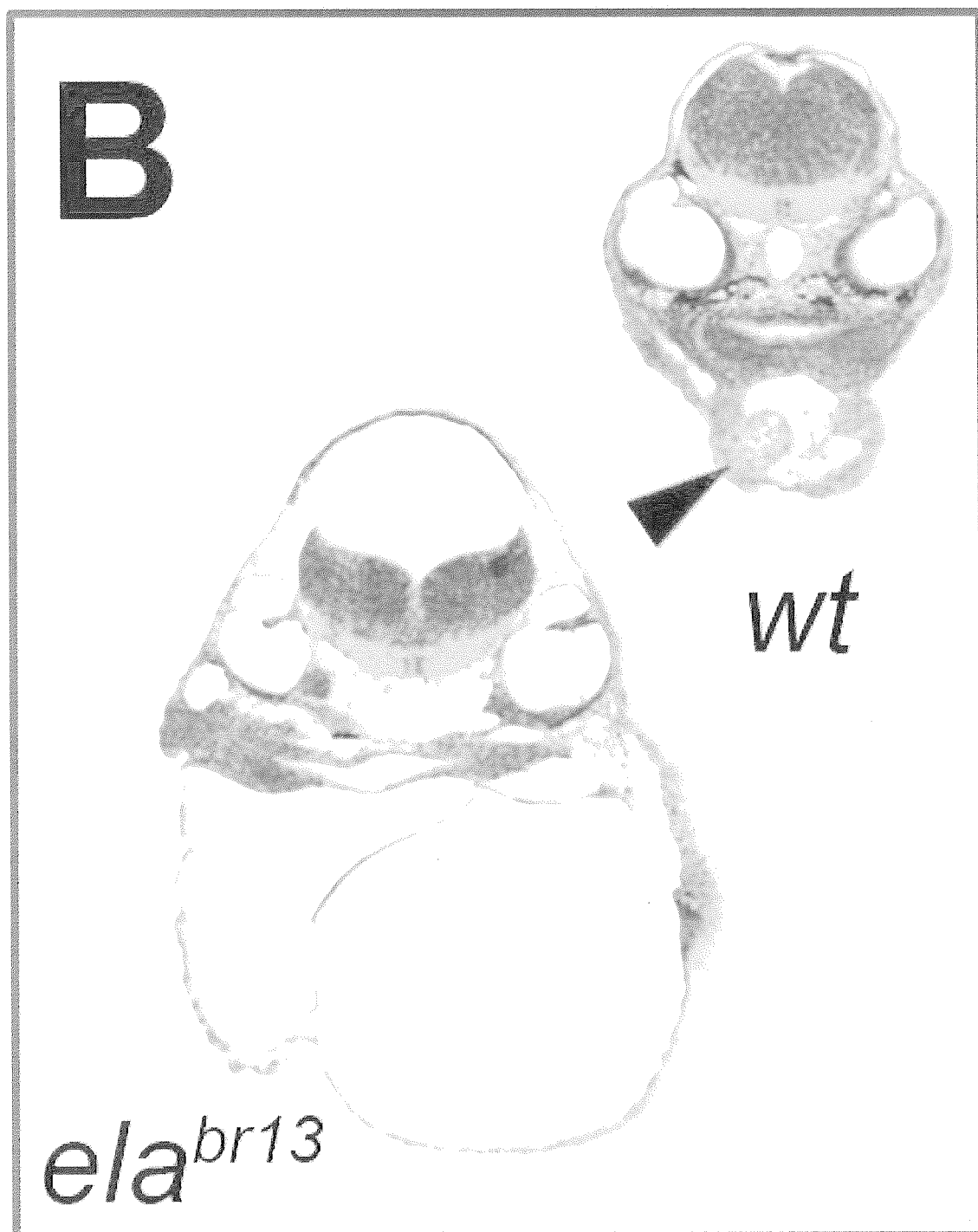


FIGURE 5A



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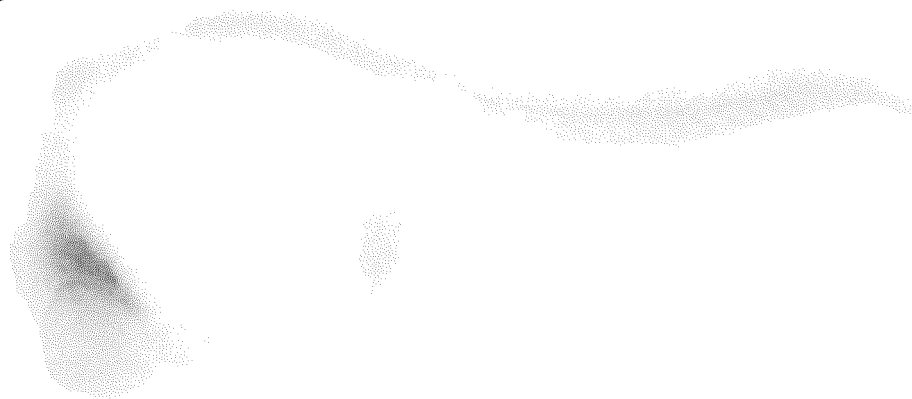
FIGURE 5B

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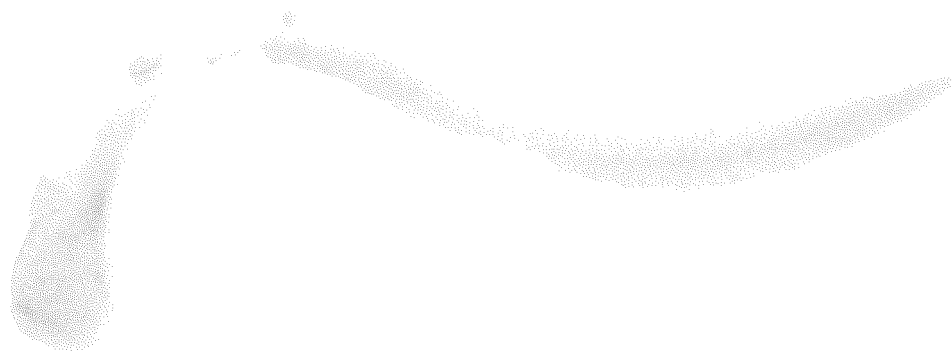
FIGURE 5C

C

cmlc1



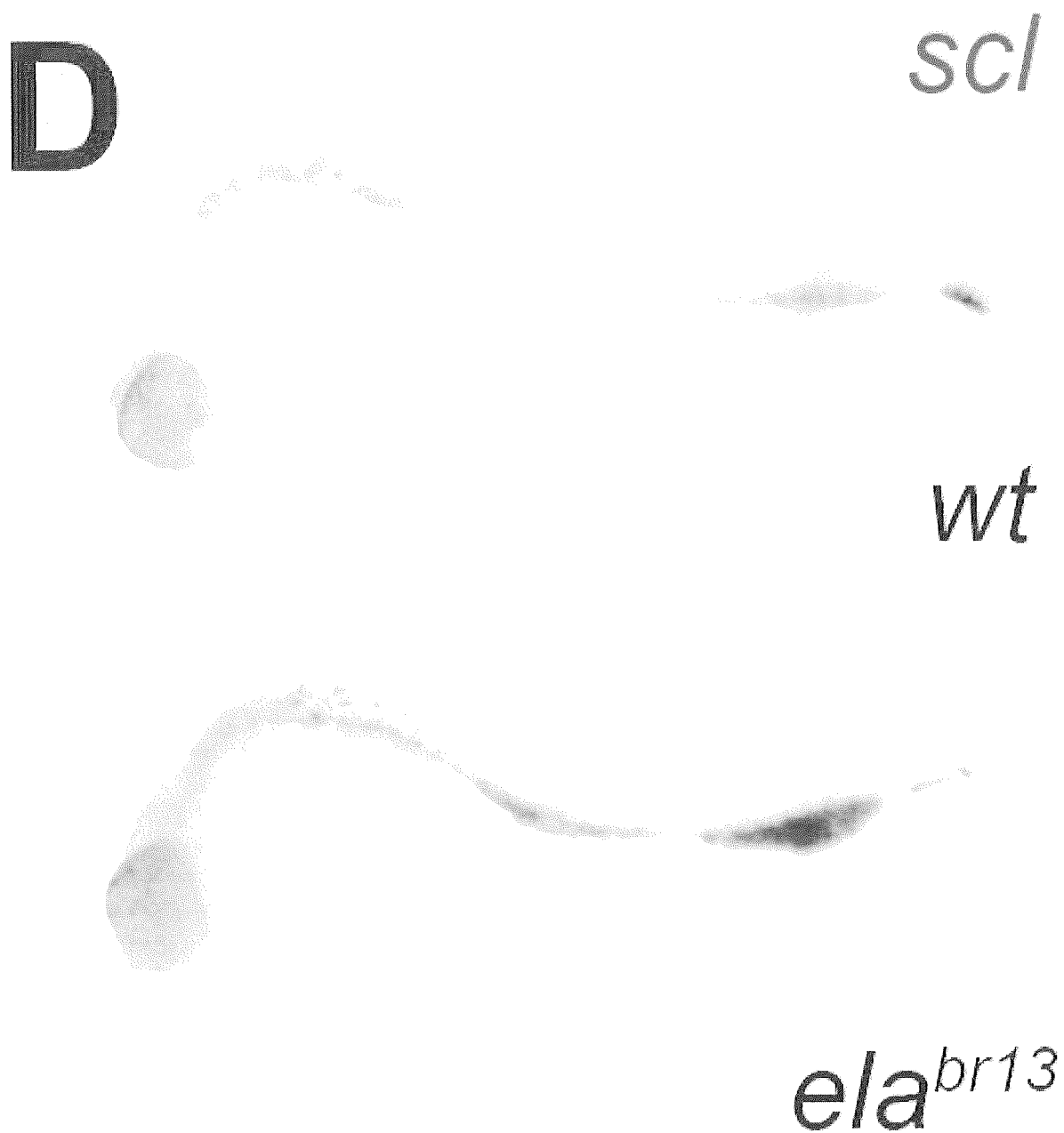
wt



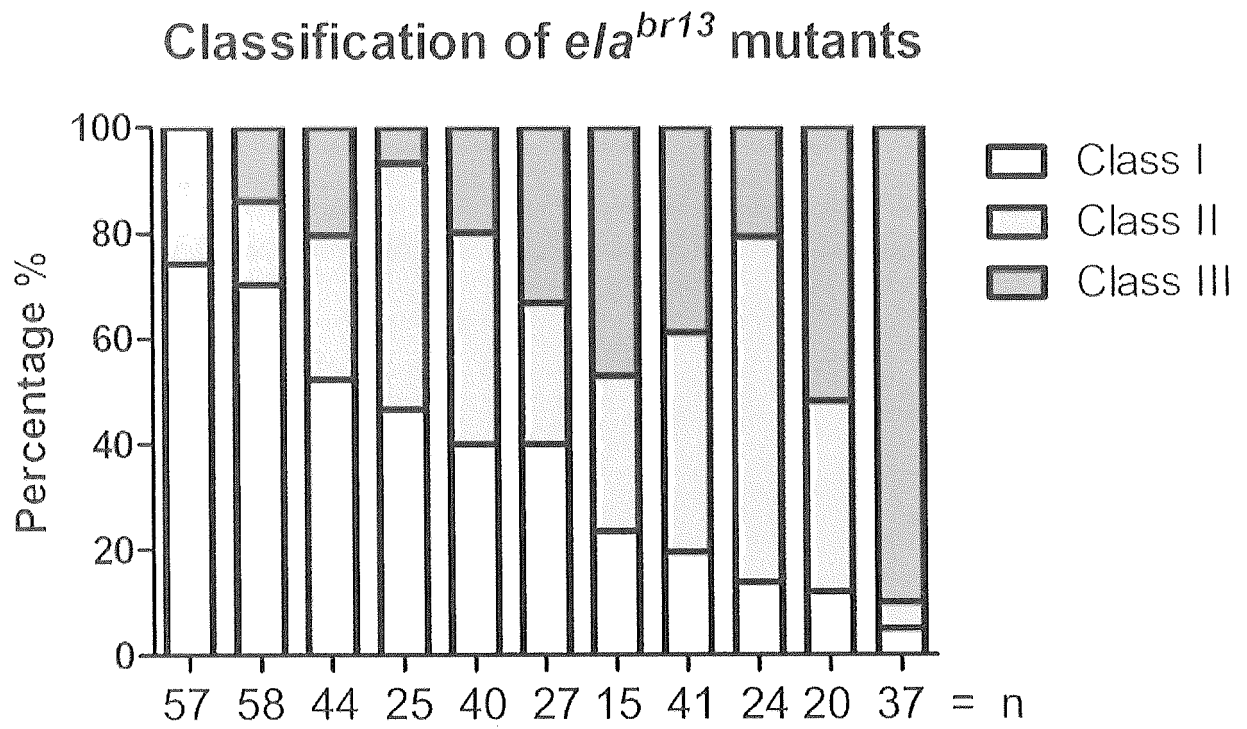
ela^{*br13*}

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FIGURE 5D



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FIGURE 5E

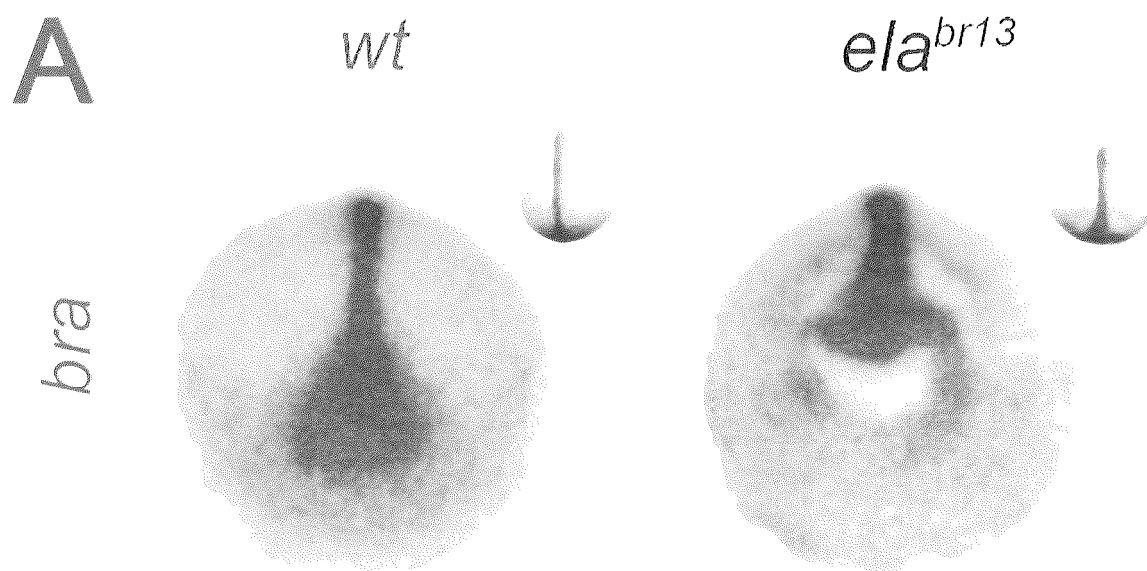
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FIGURE 5F

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	<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

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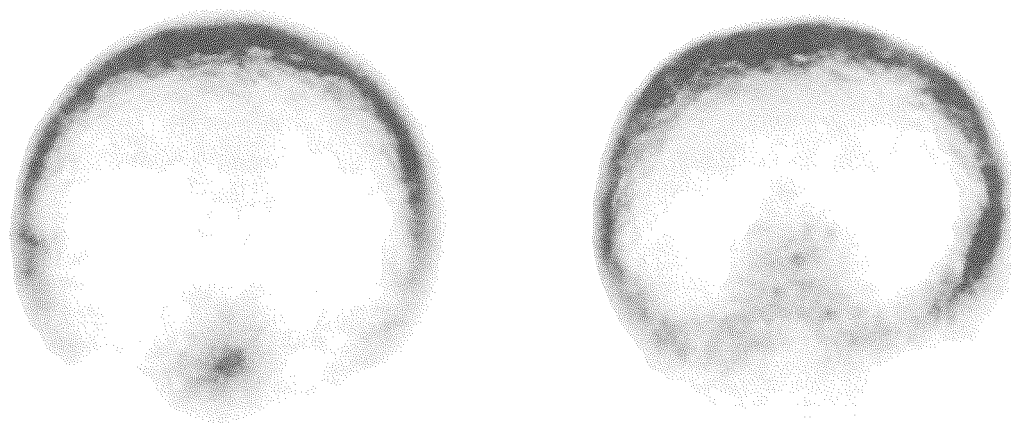
FIGURE 6A

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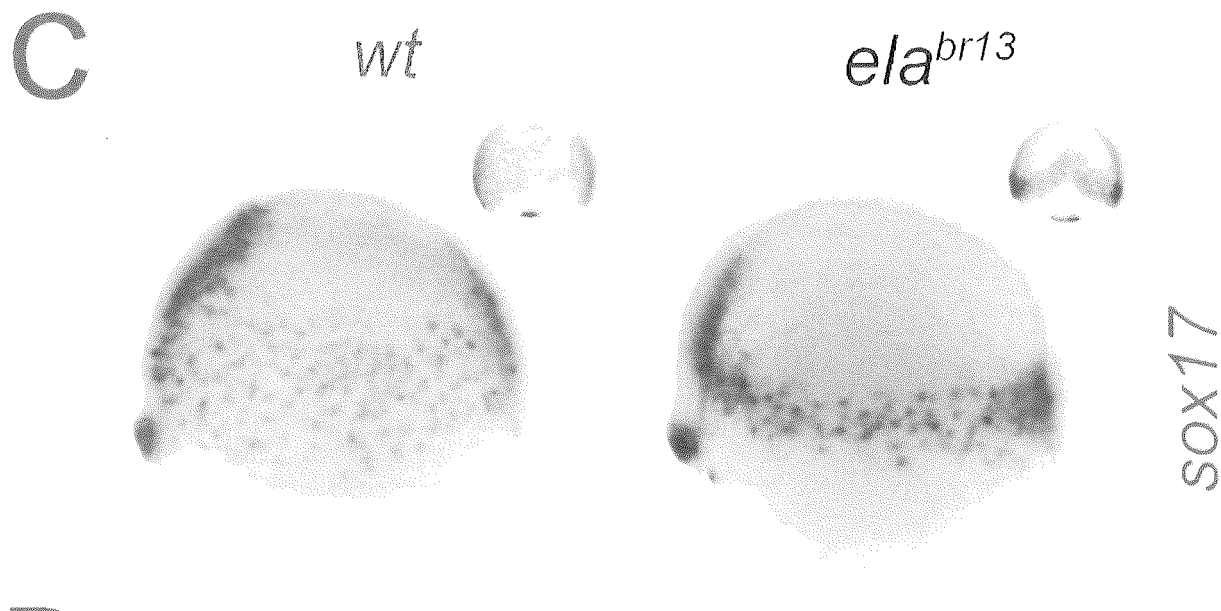
FIGURE 6B

B

gata5



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FIGURE 6C

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FIGURE 6D

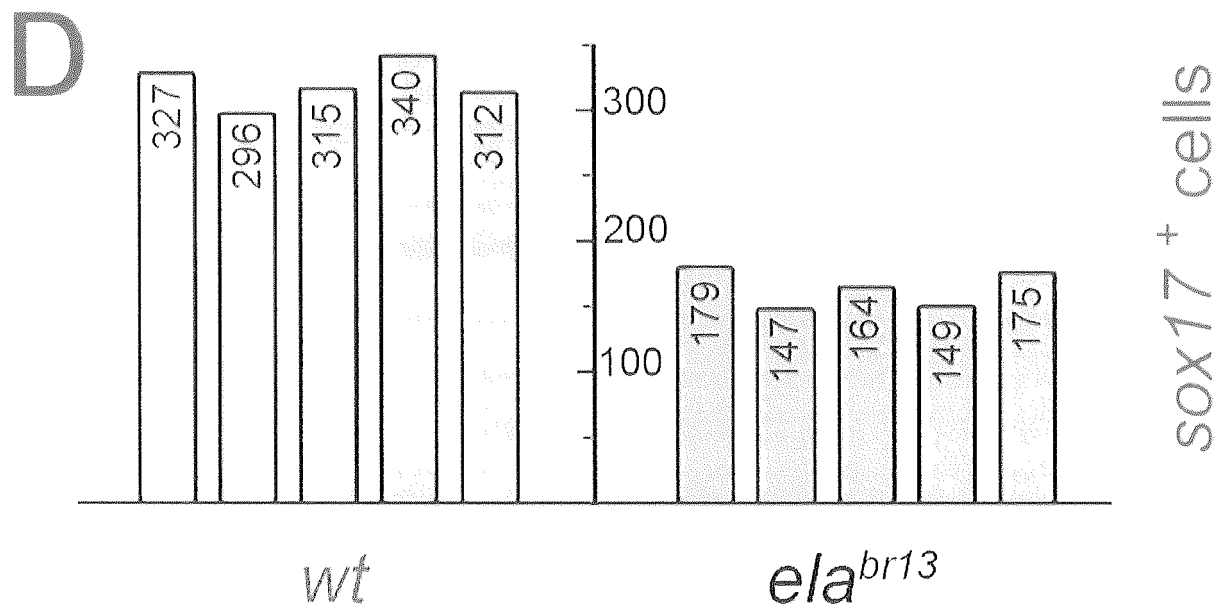


FIGURE 6E

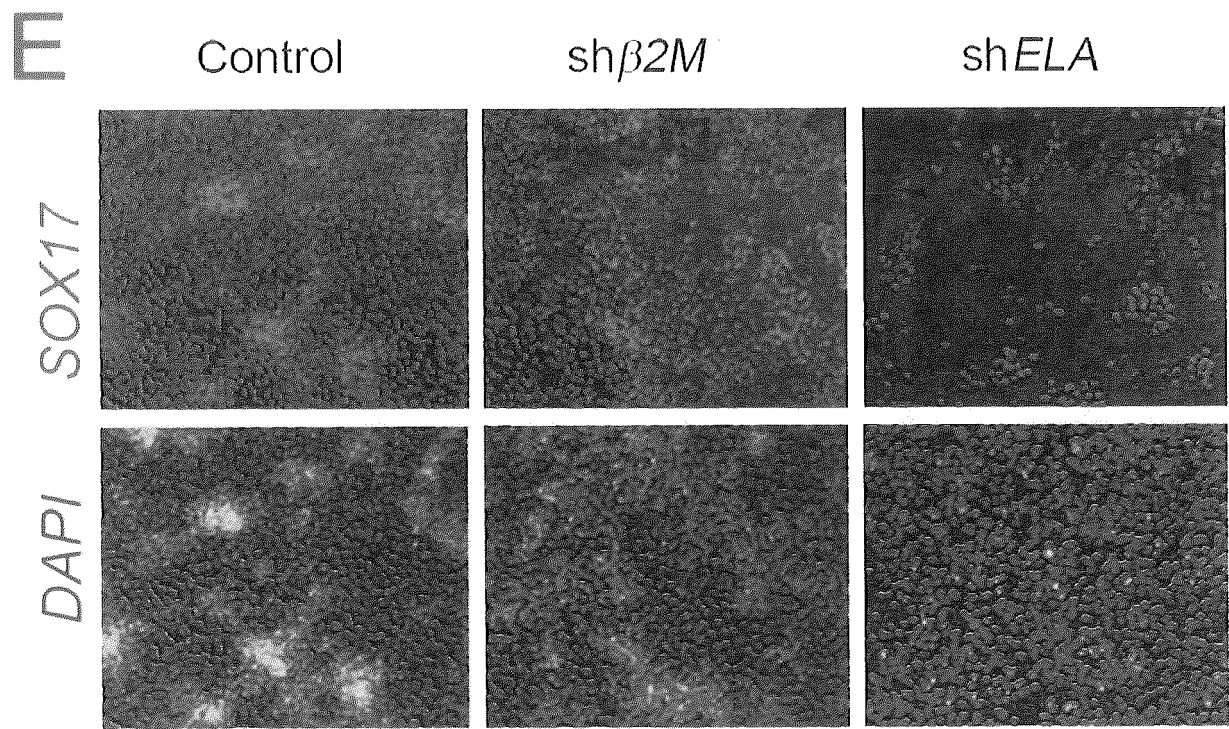
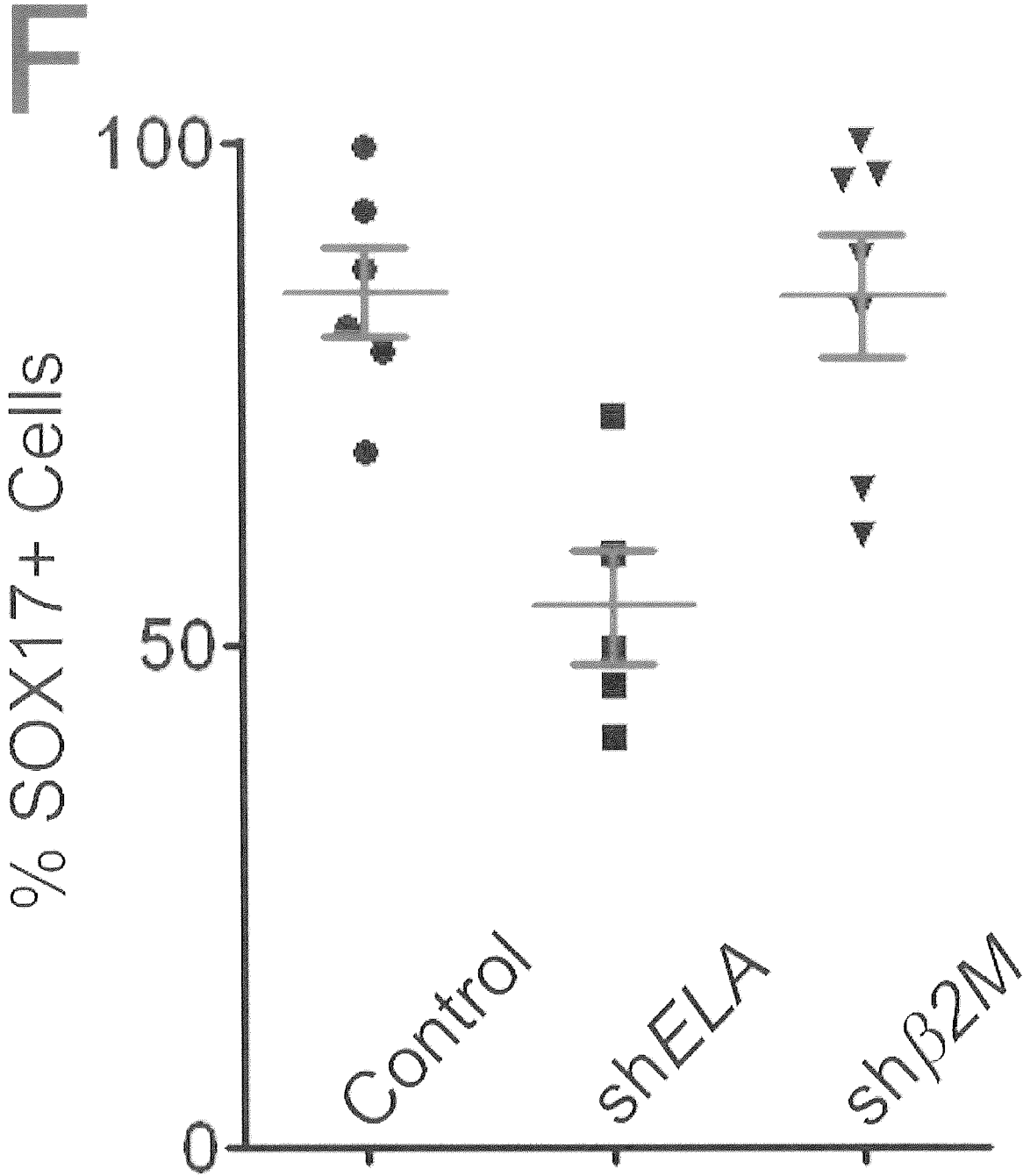


FIGURE 6F

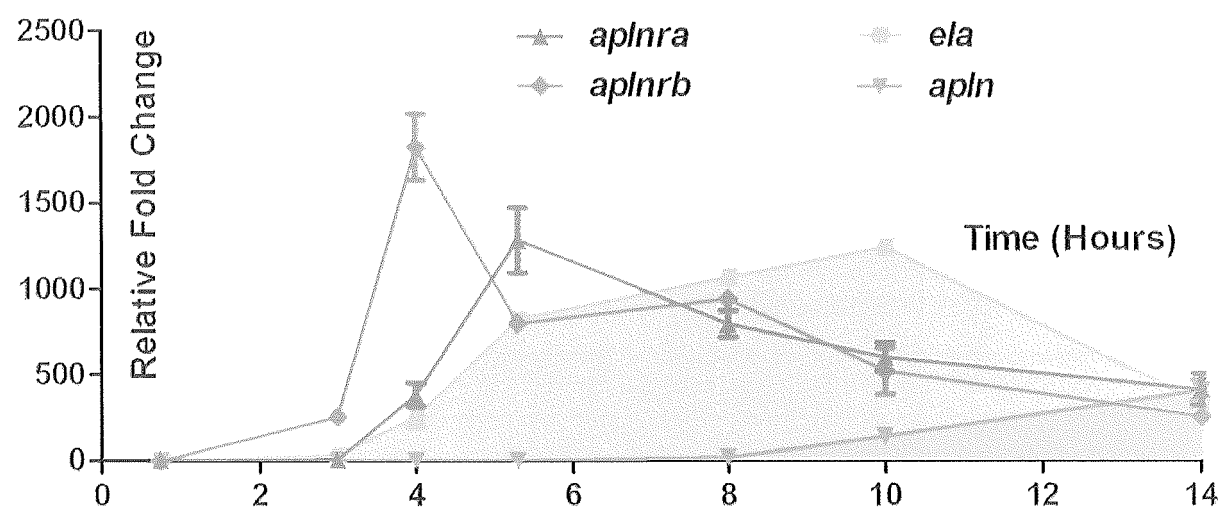


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FIGURE 7A

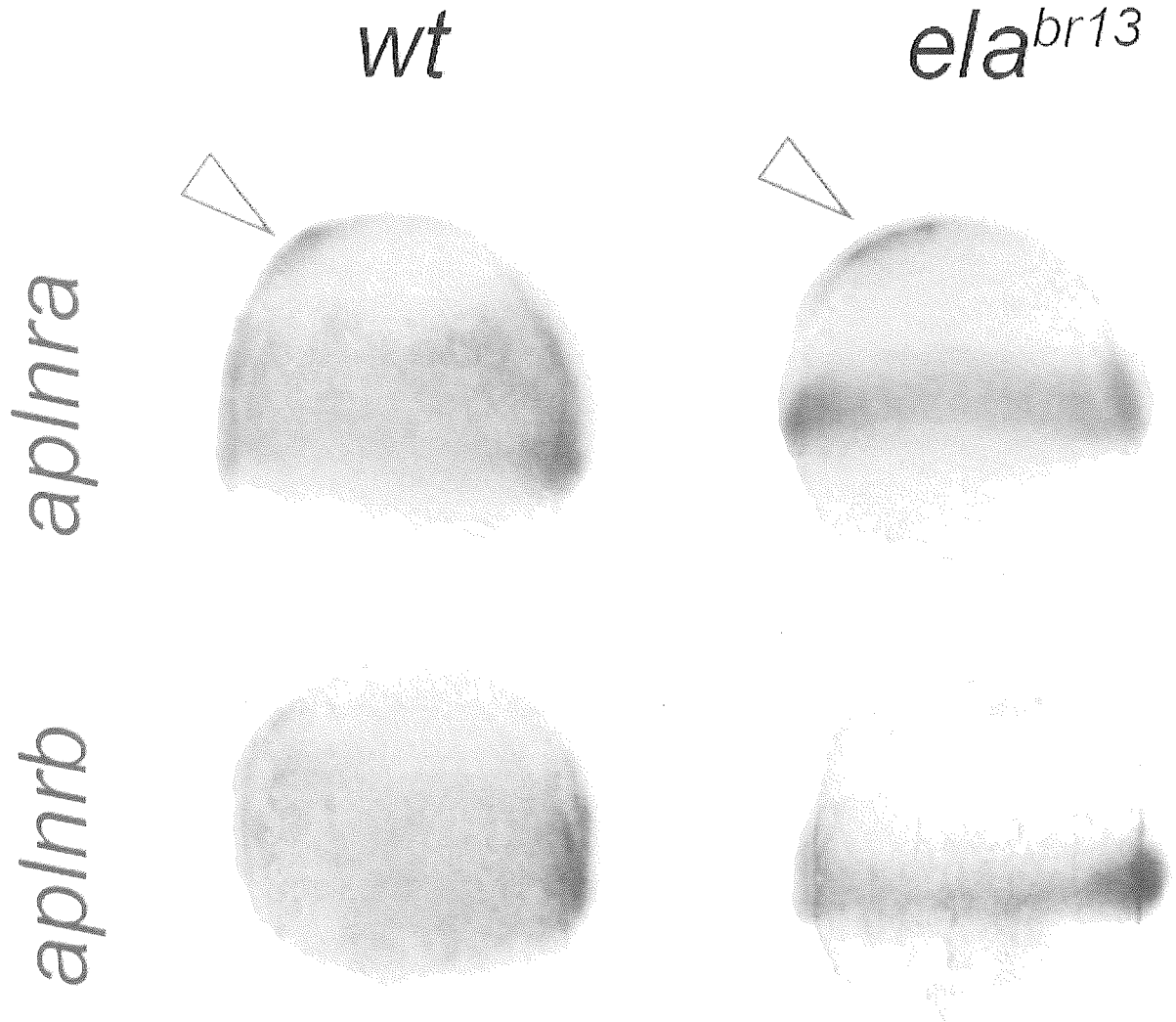
		Isoelectric Point
ELA	GQ R PVNLTM RRK L RKH NCLO RR CMPL H S R VPFP	12.1
APLN	LVQP R GS R NGPGPWQGG RRK F RR Q R P R LS HK GPMPF	12.8

FIGURE 7B

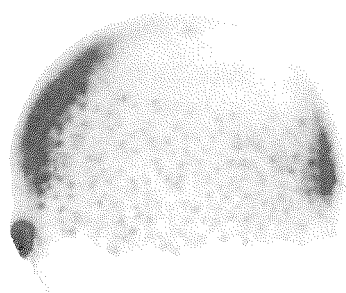
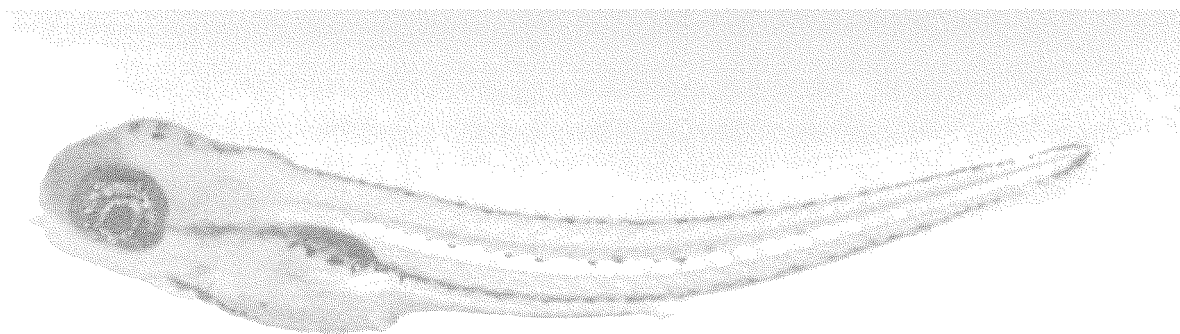
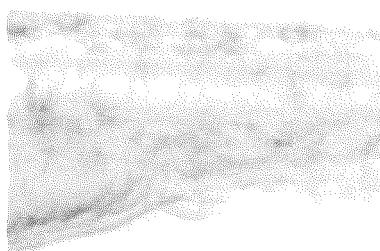


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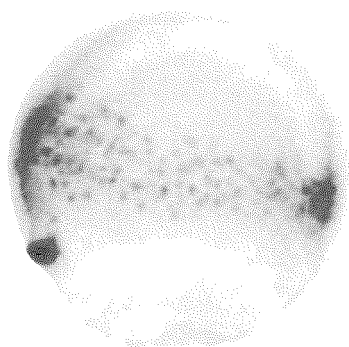
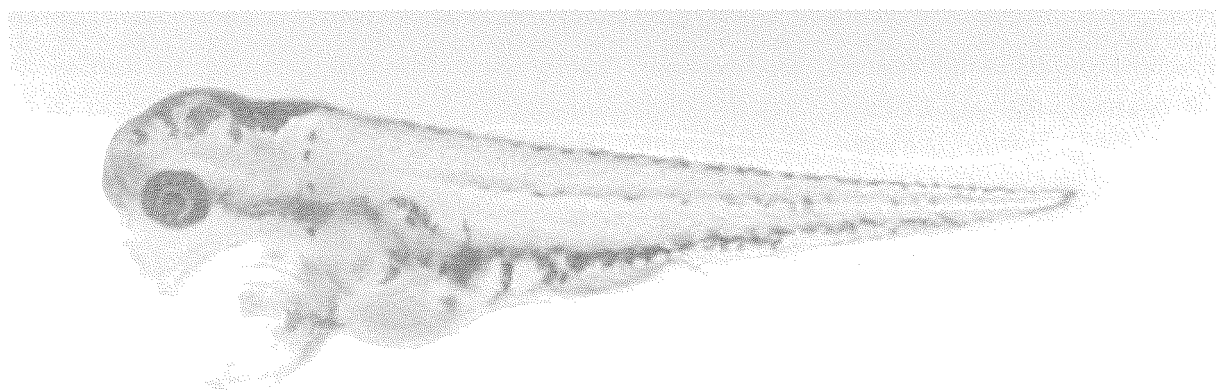
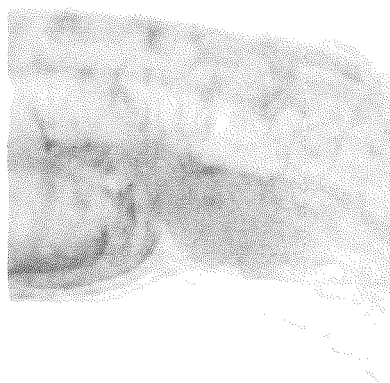
FIGURE 7C



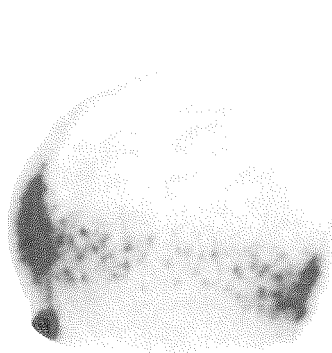
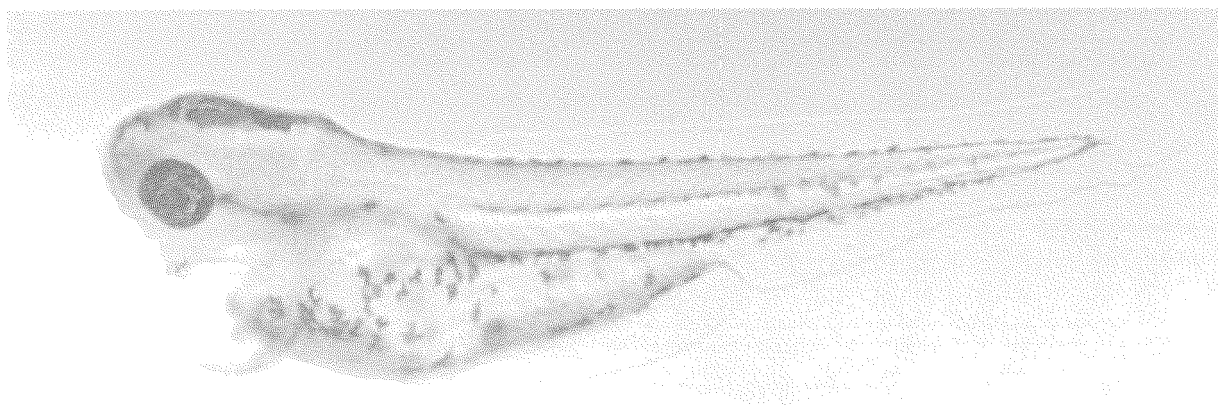
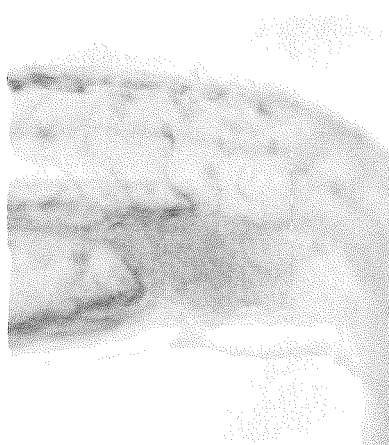
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FIGURE 7D**D***wt**sox17**blood**cmlc1*

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

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

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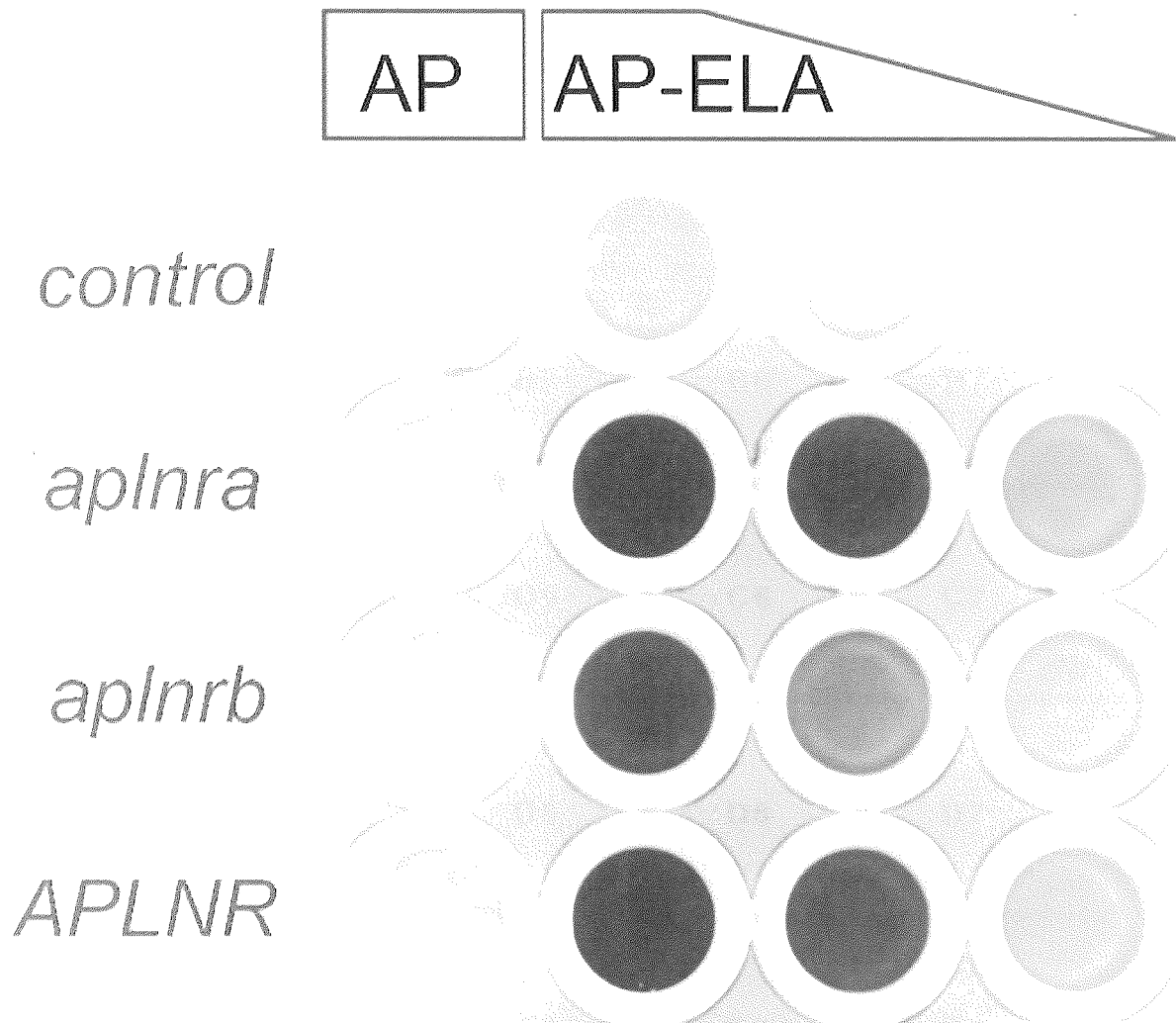
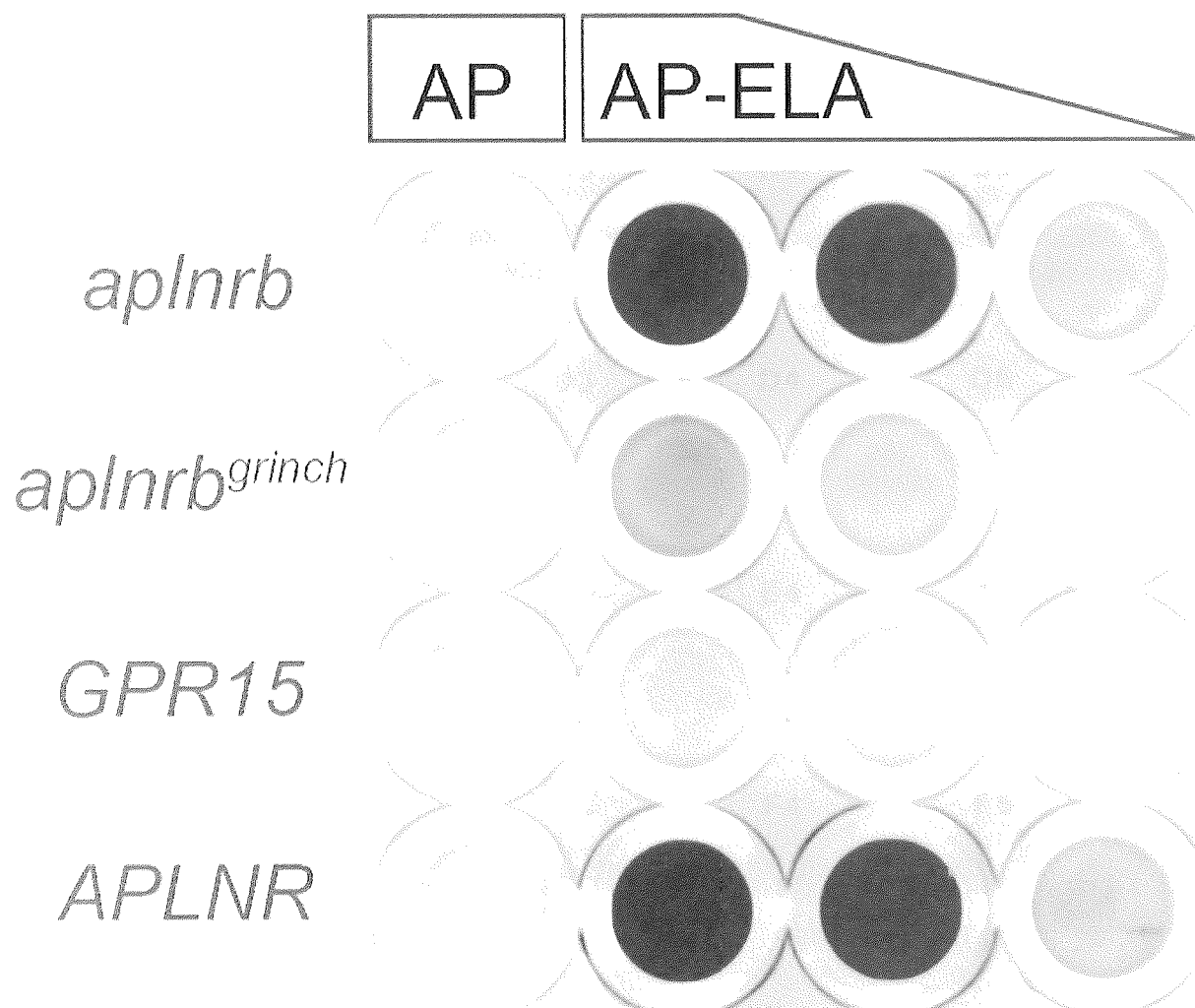
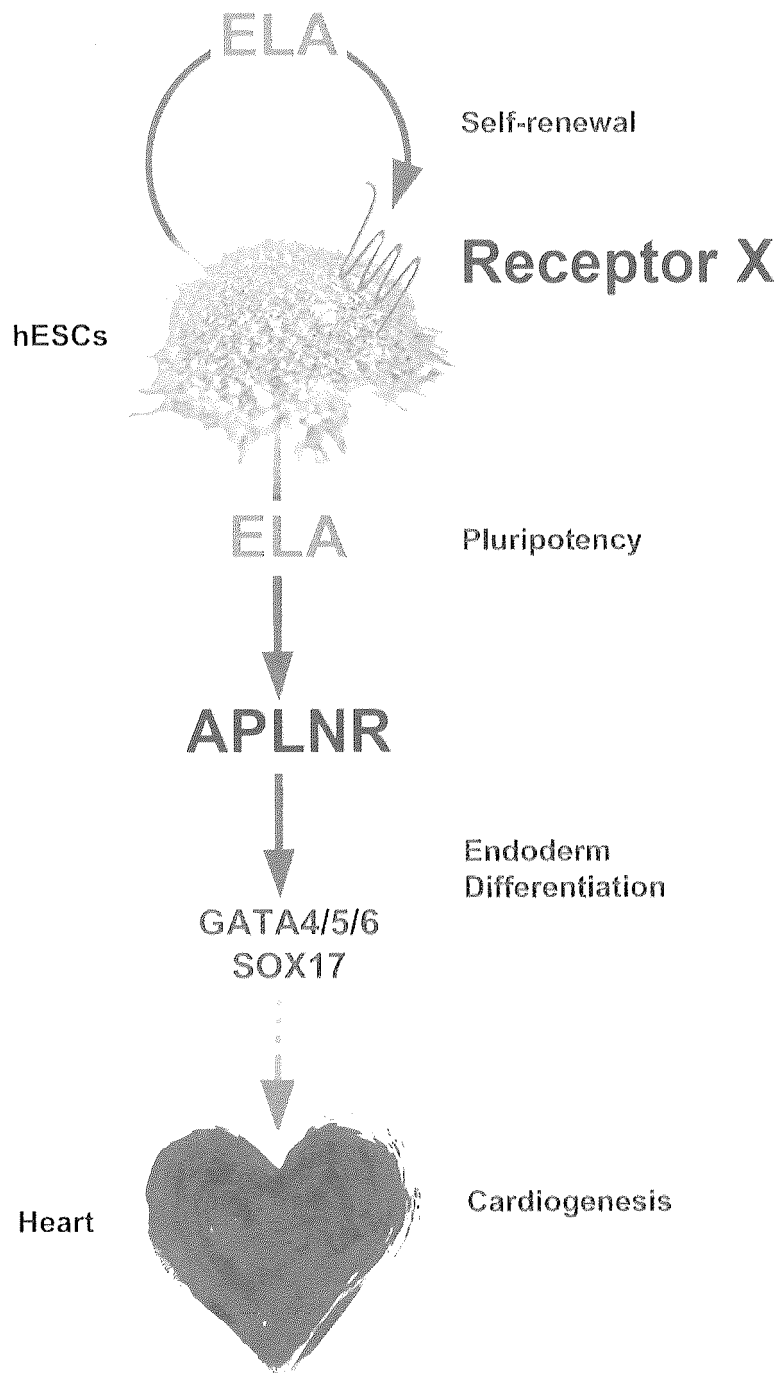
FIGURE 7G

FIGURE 7H



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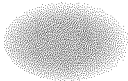
FIGURE 8

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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
---------	---	--	-----------

FIGURE 9B

Hs.105196 GEO pre-implantation profile

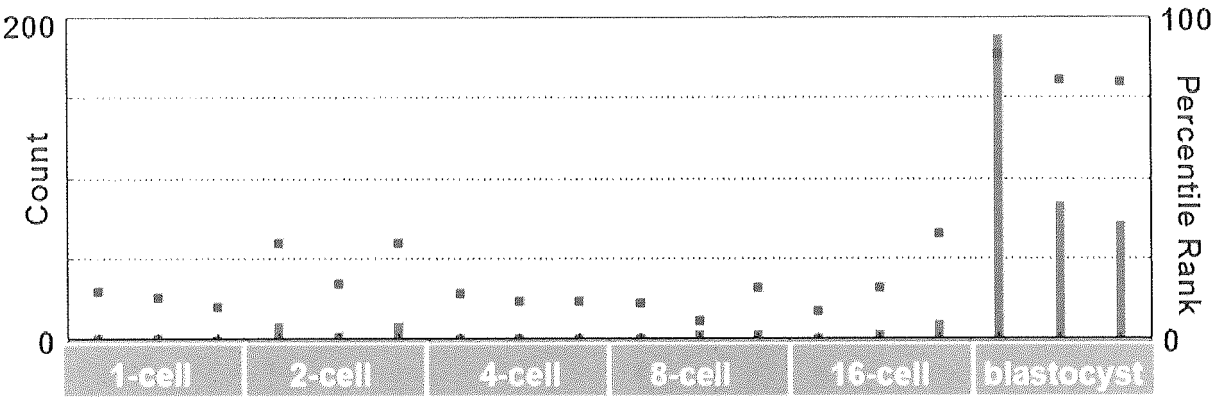
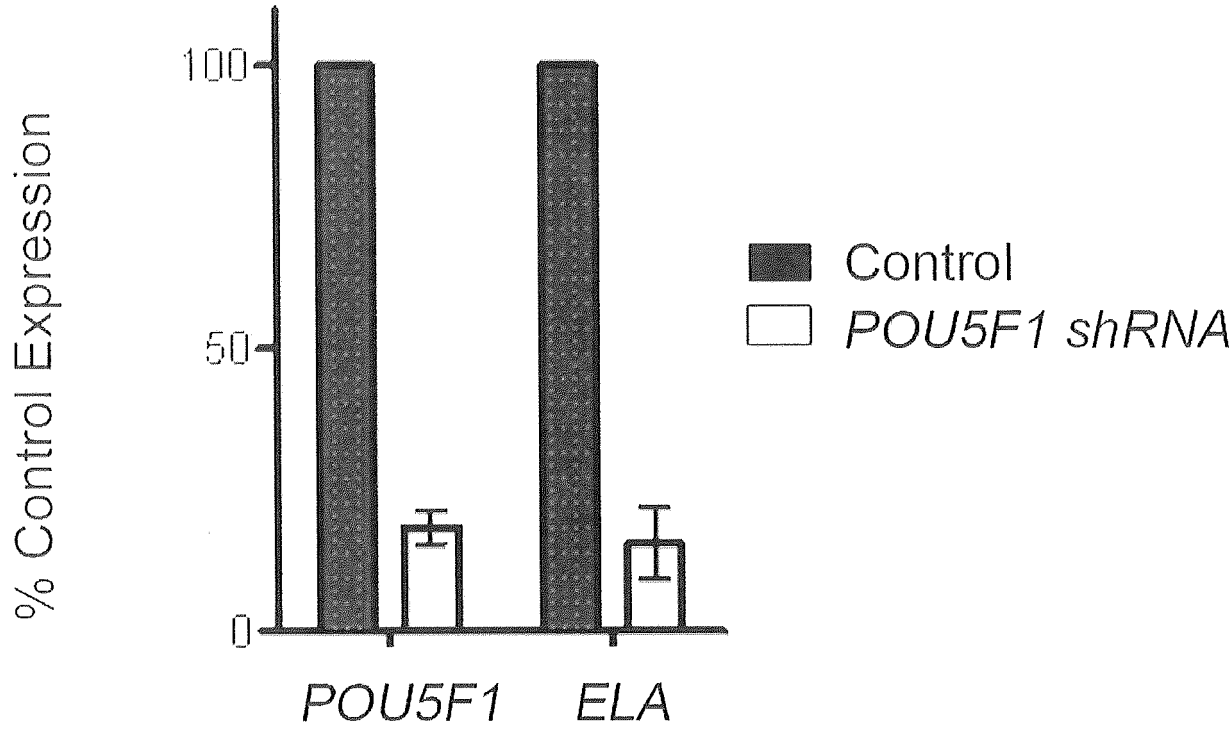


FIGURE 9C



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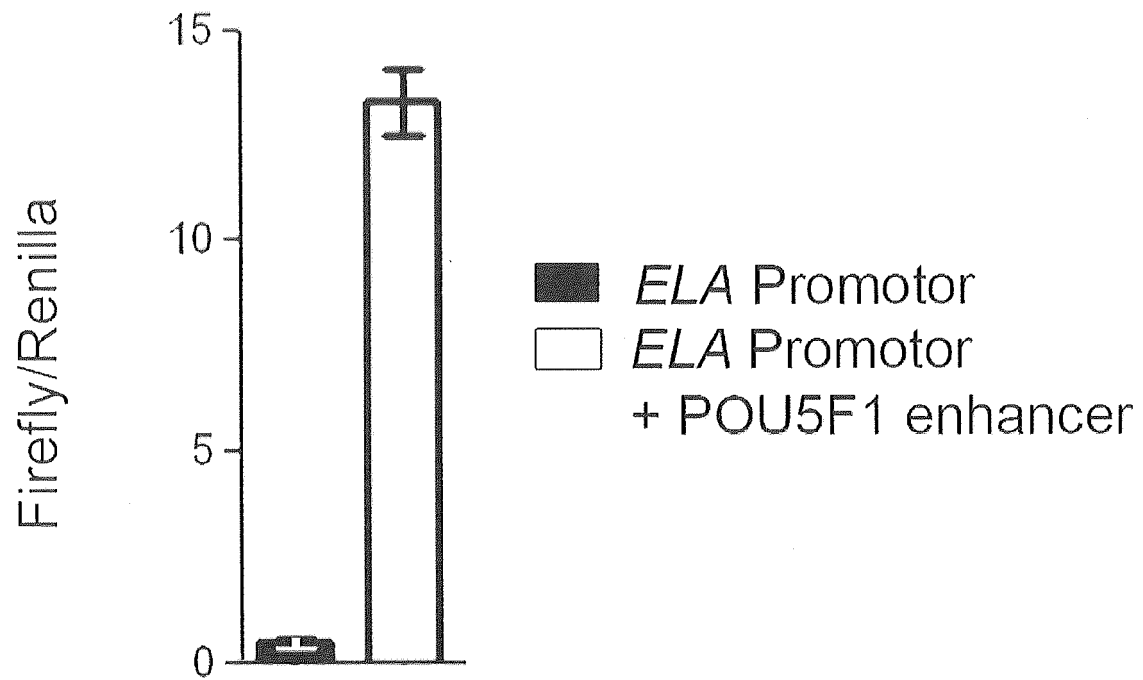
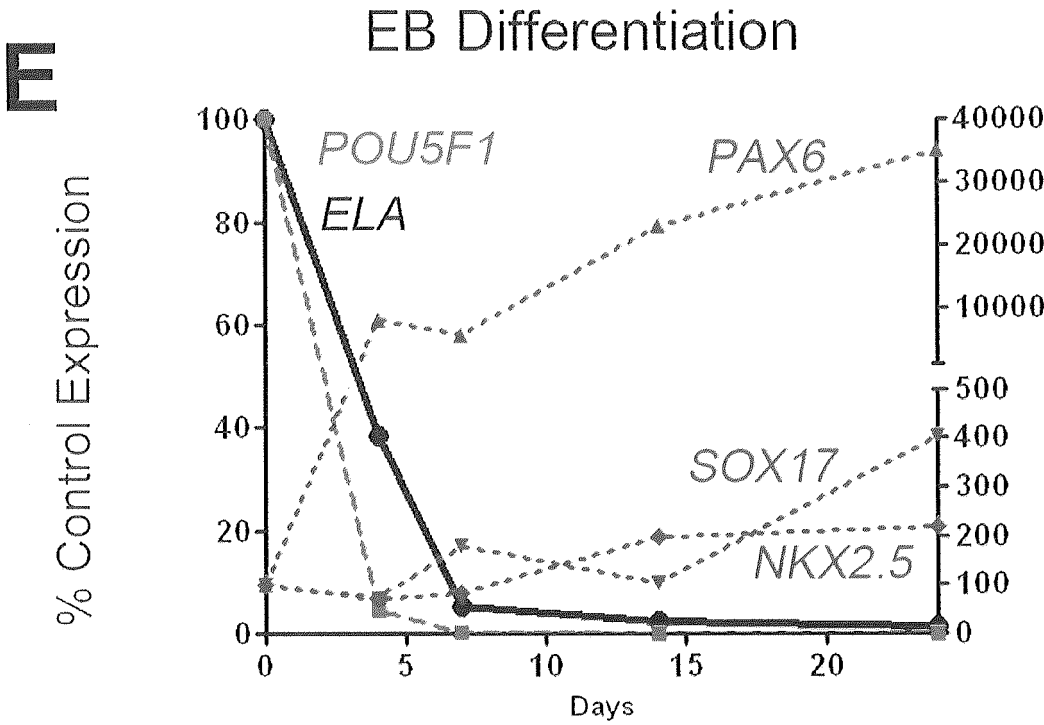
FIGURE 9D

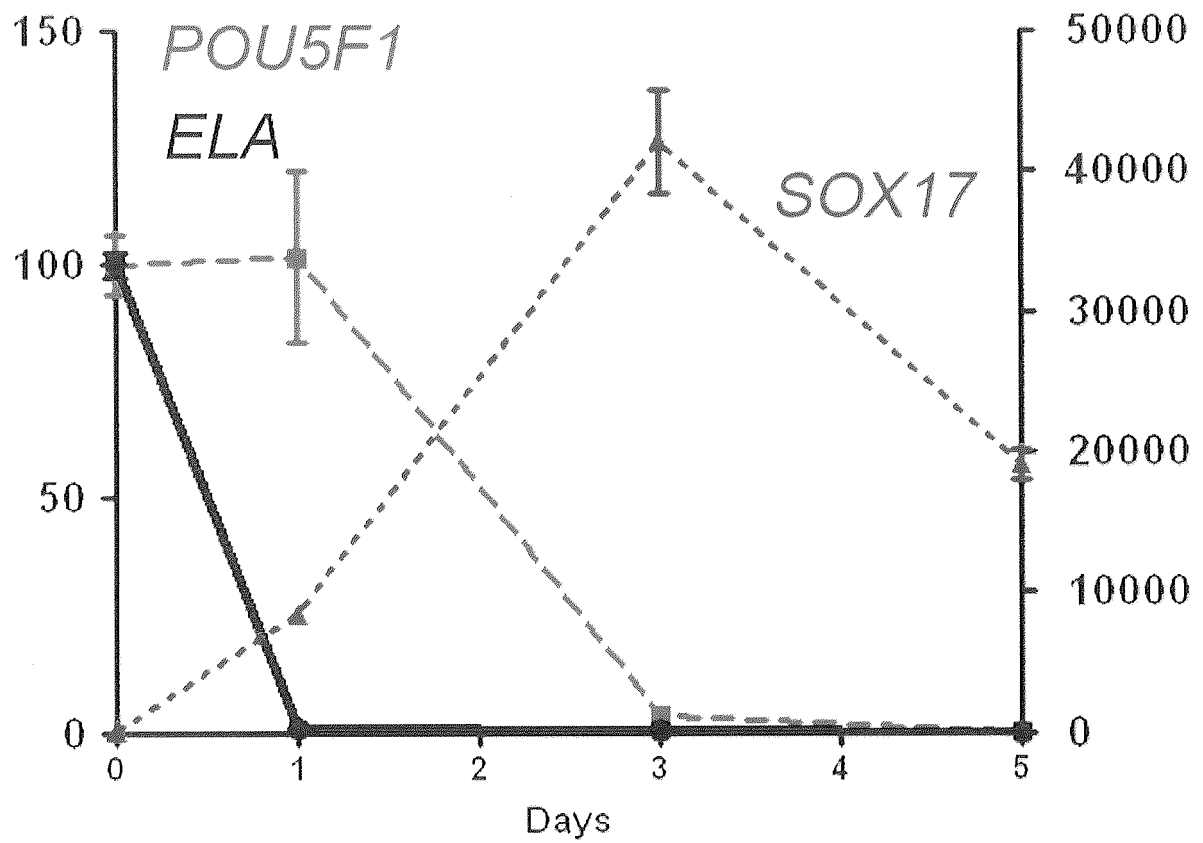
FIGURE 9E



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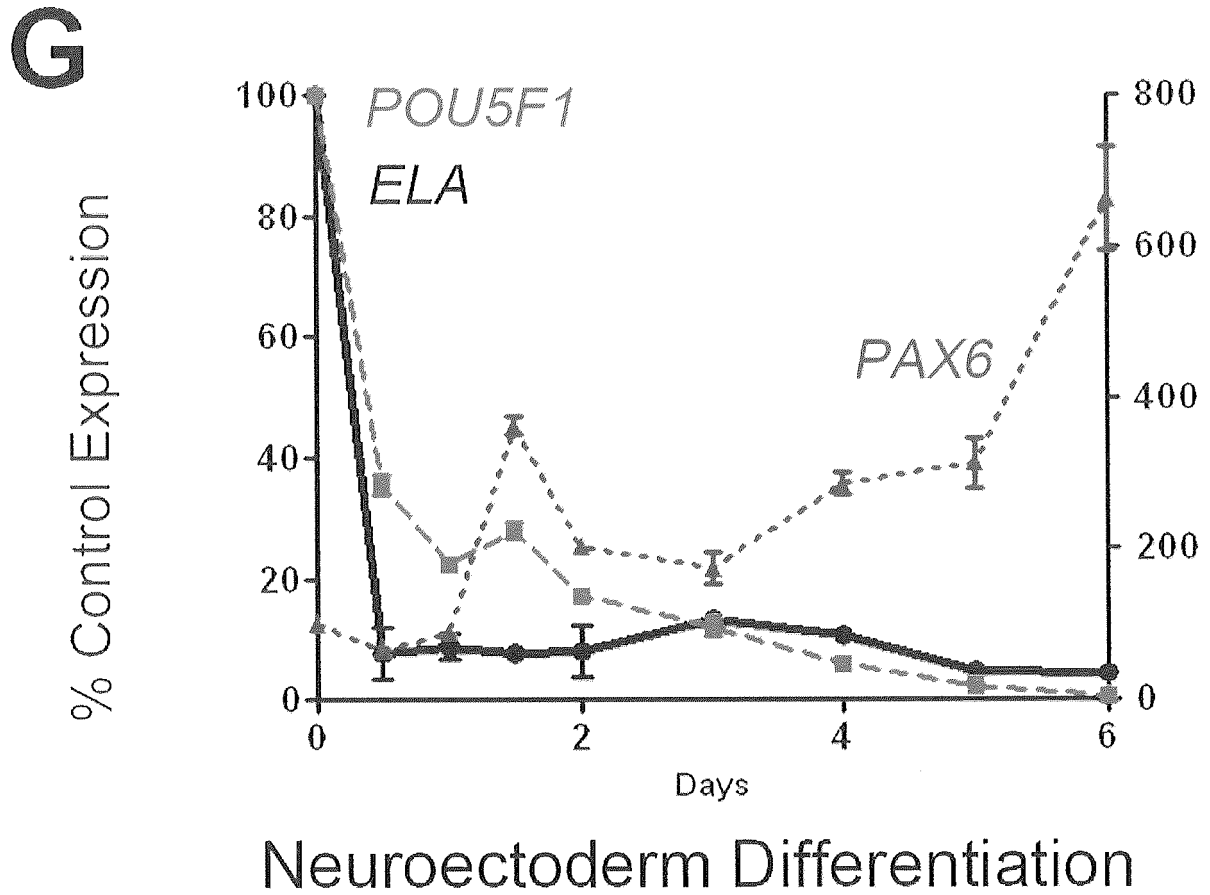
FIGURE 9F

Endoderm Differentiation

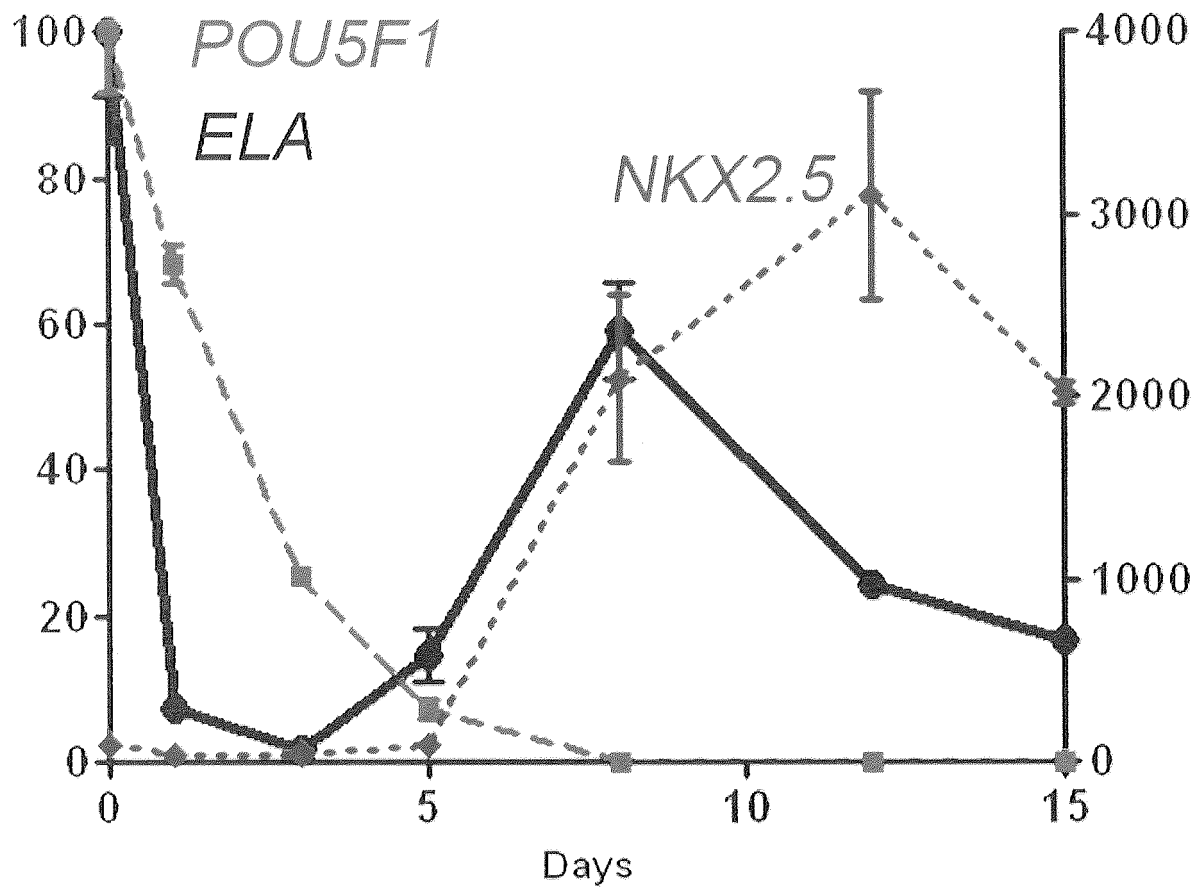


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FIGURE 9G

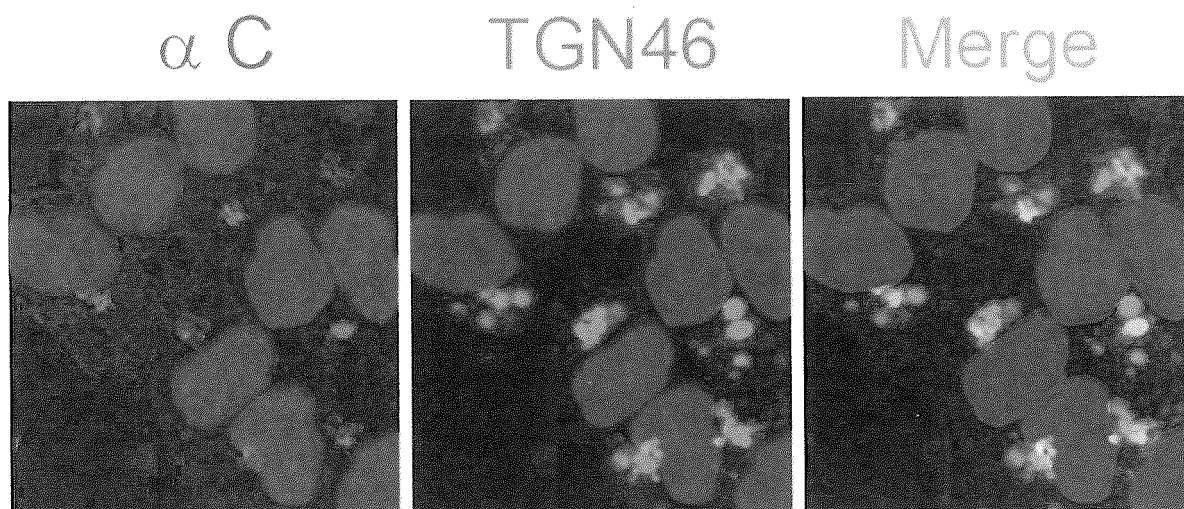


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FIGURE 9H

Cardiac Differentiation

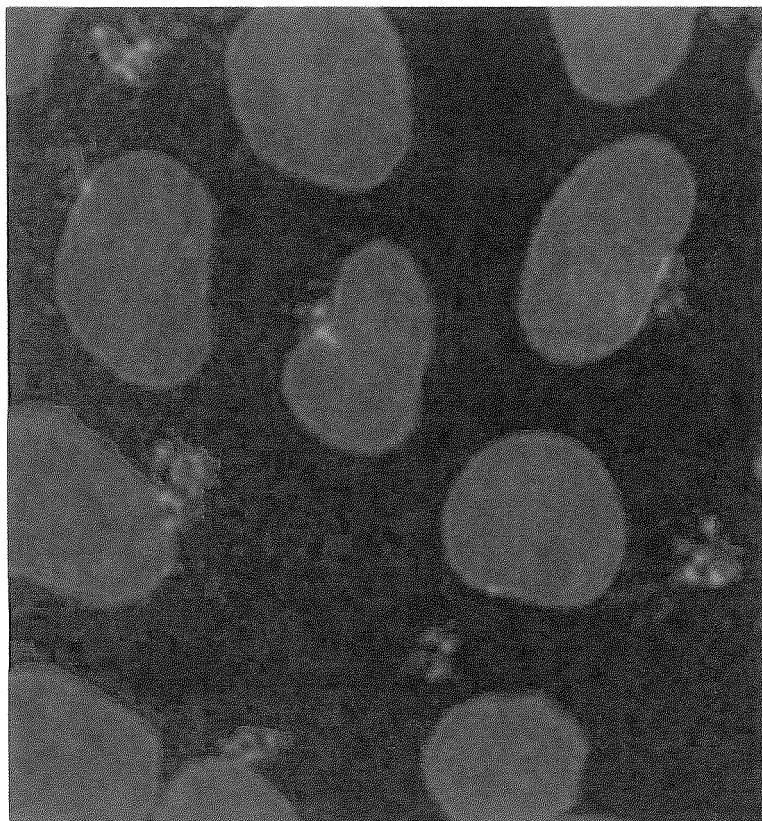
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FIGURE 10A

60/120

FIGURE 10B

α N



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FIGURE 10C

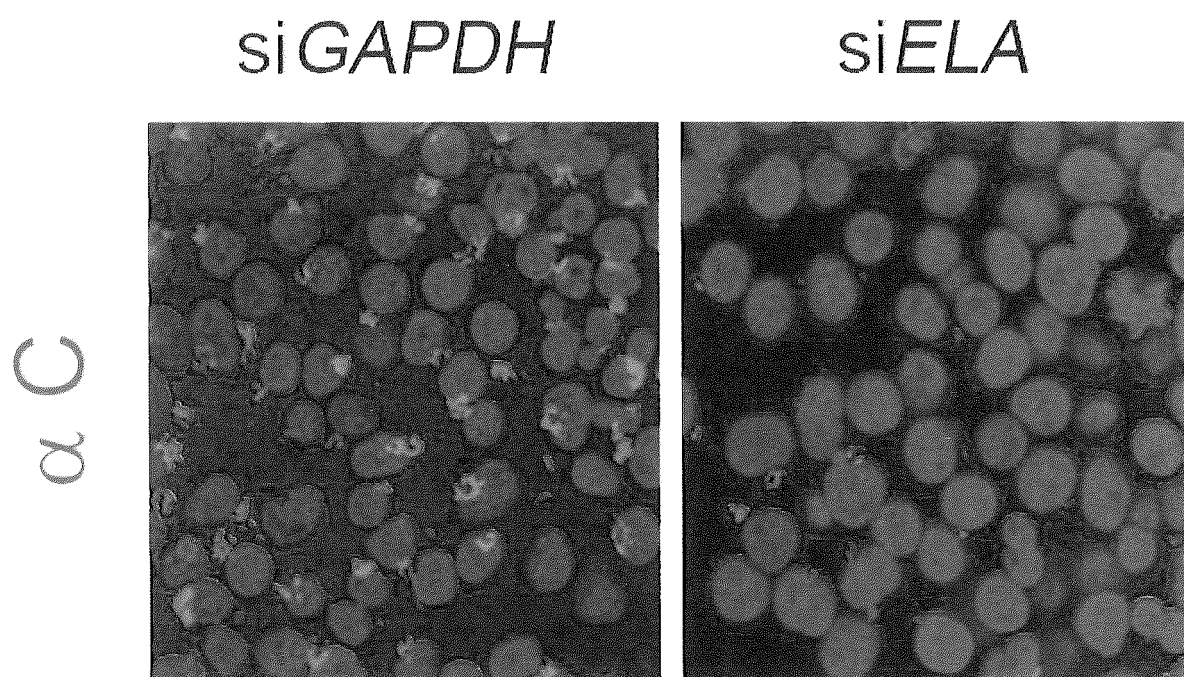


FIGURE 10D

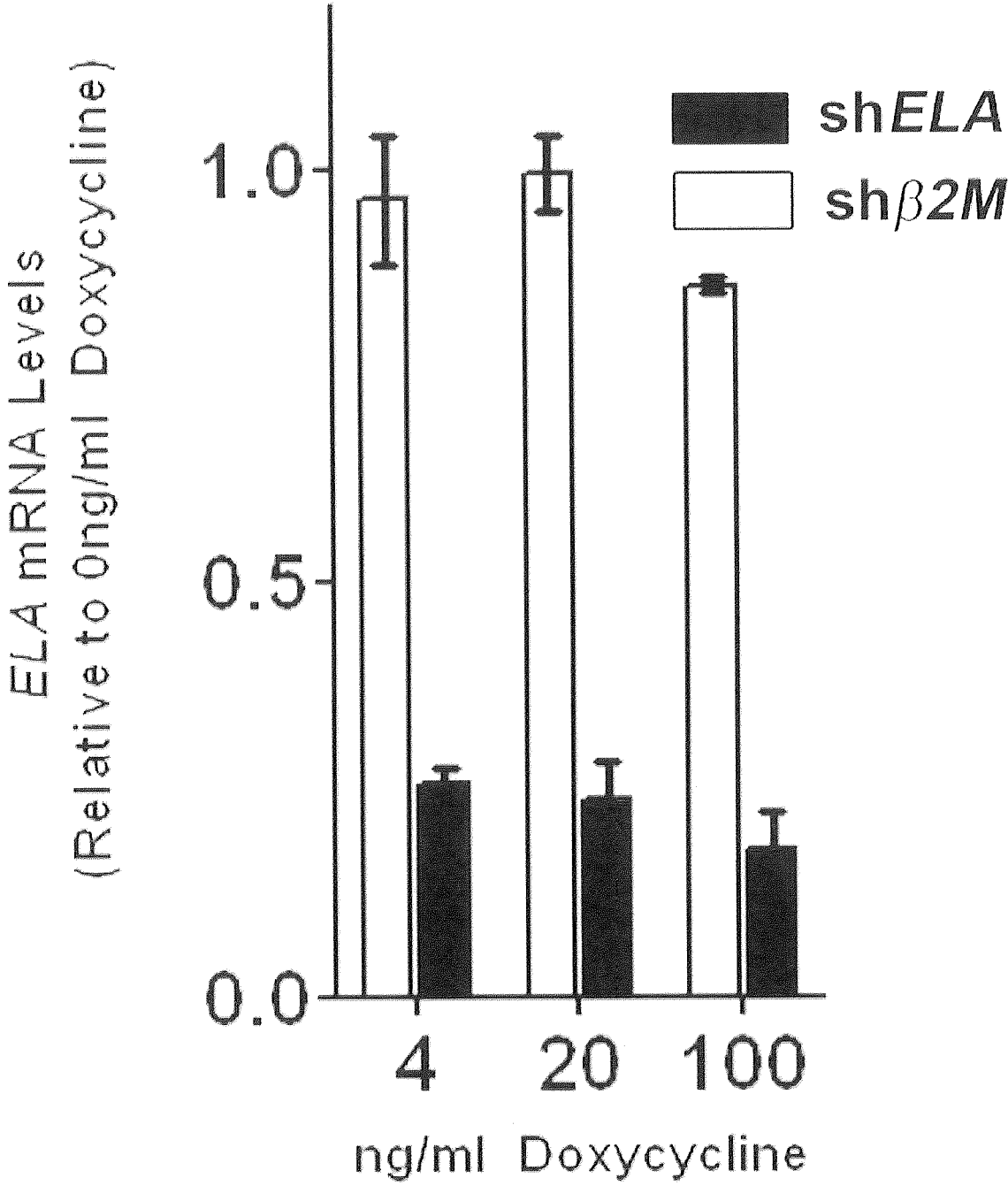
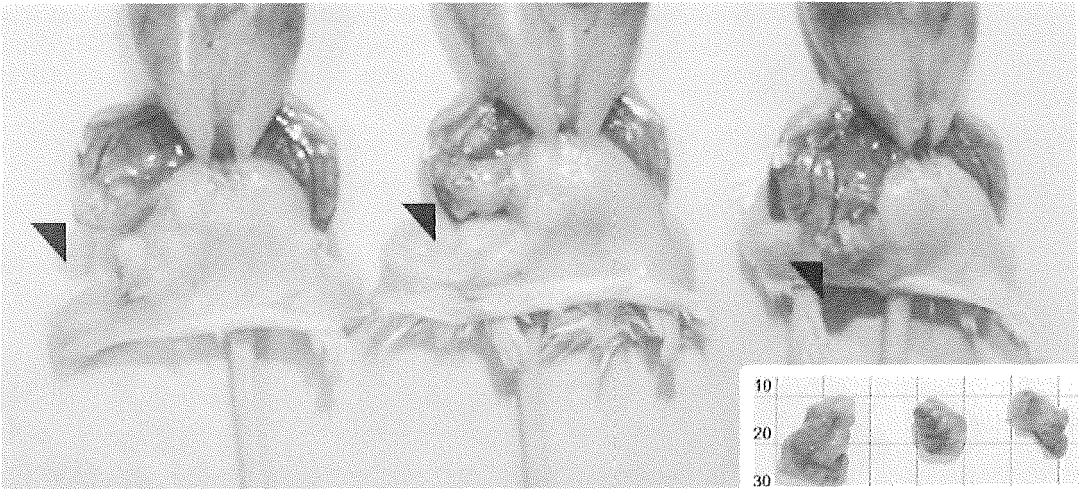


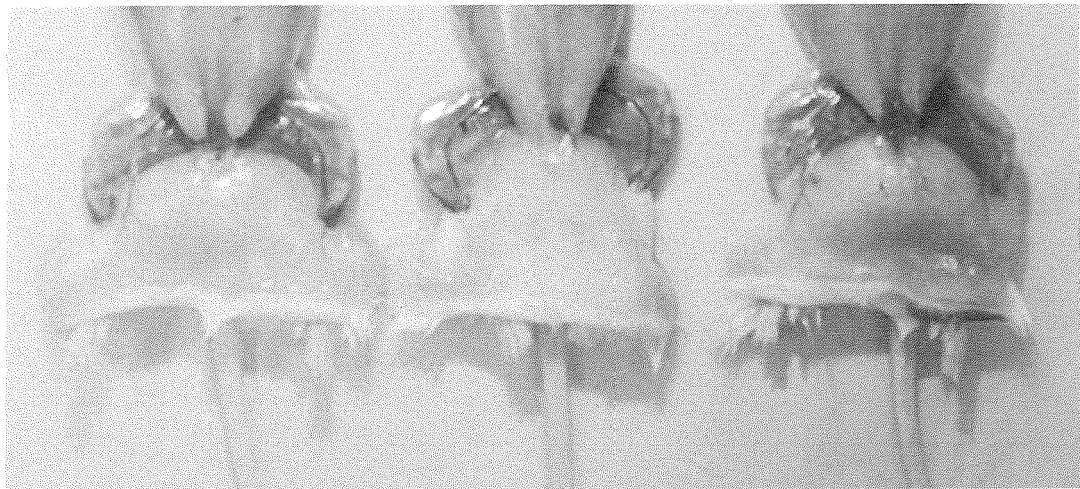
FIGURE 10E

Teratomas

Control hESCs



shELA hESCs



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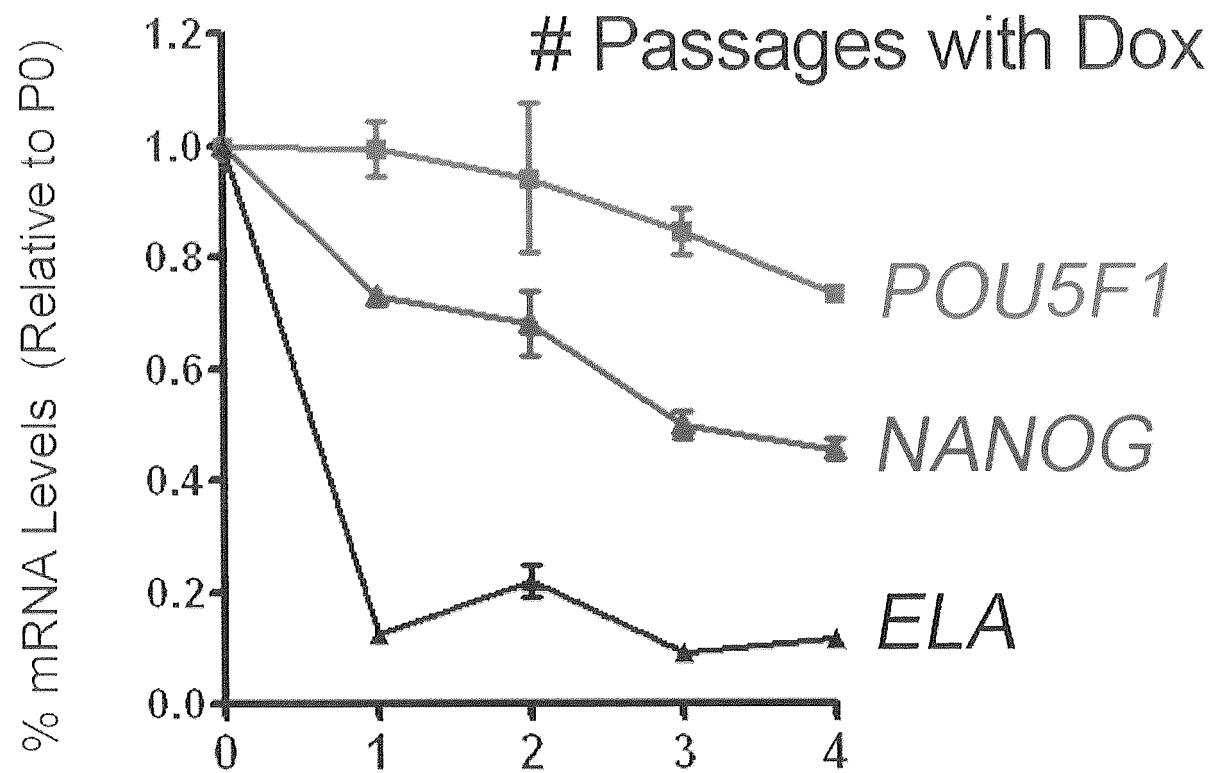
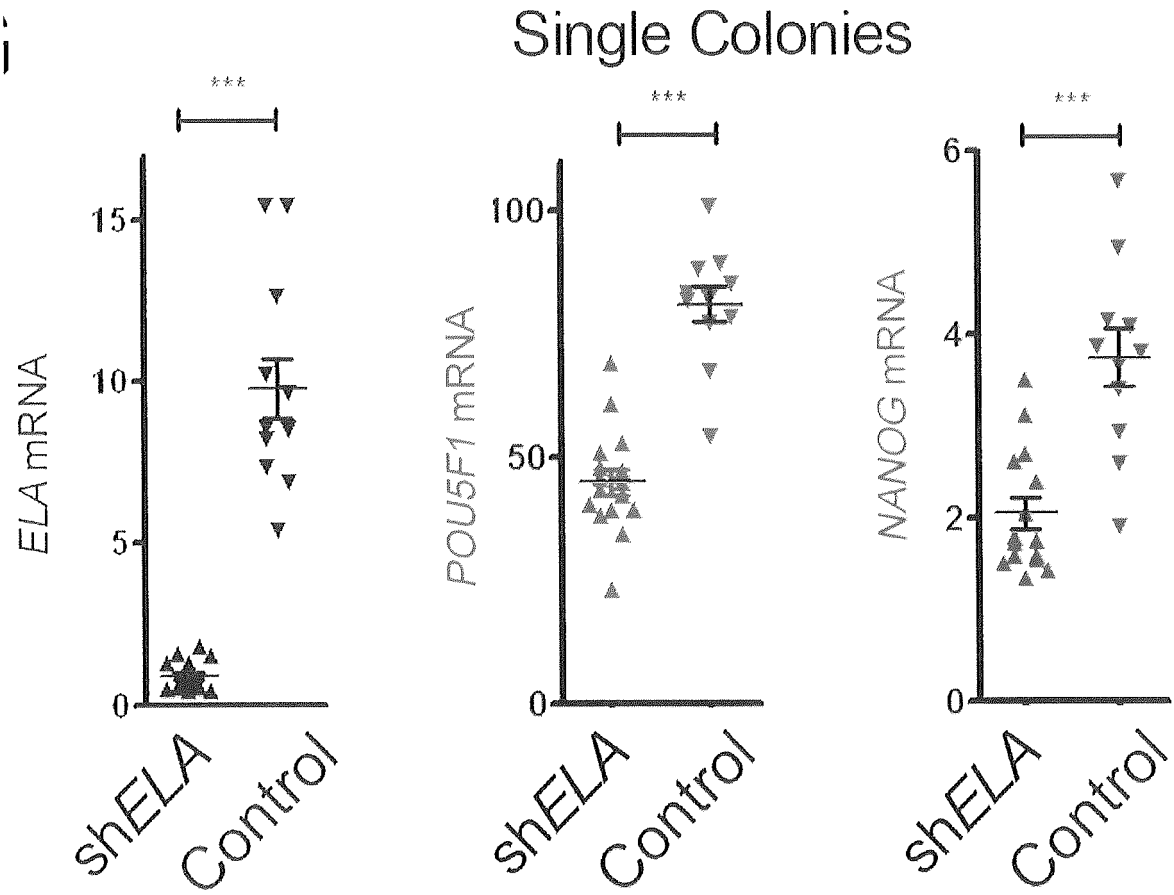
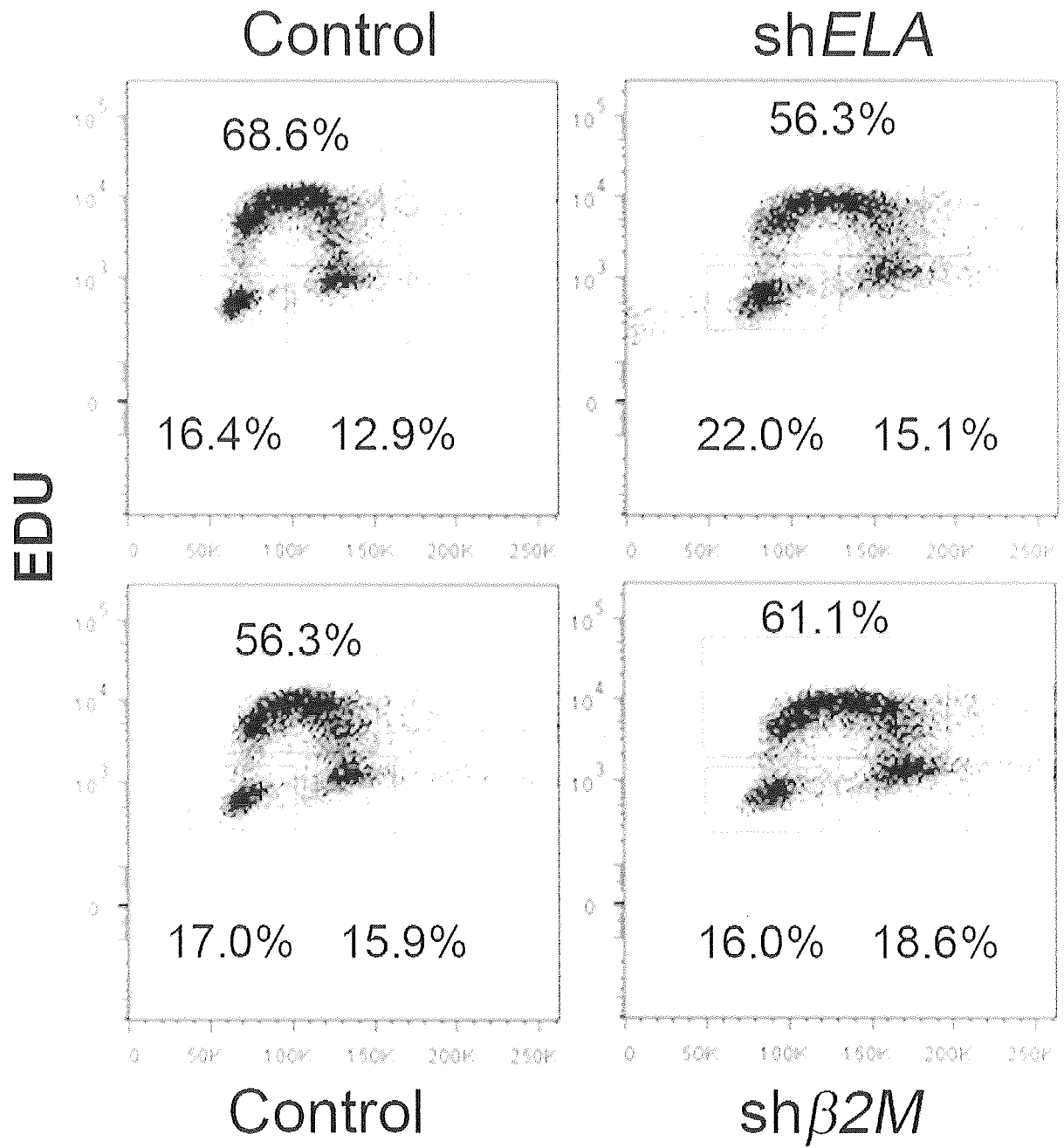
FIGURE 10F

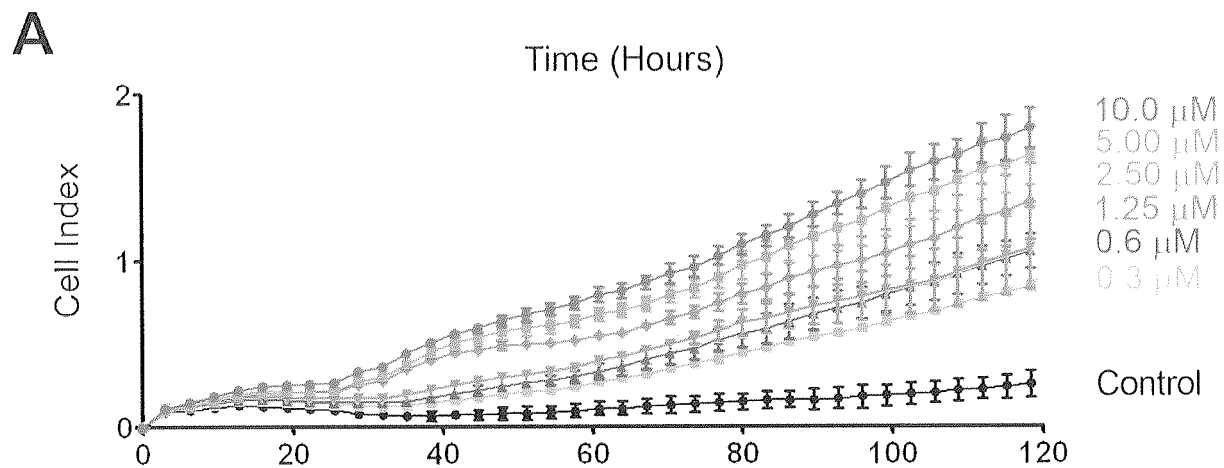
FIGURE 10G



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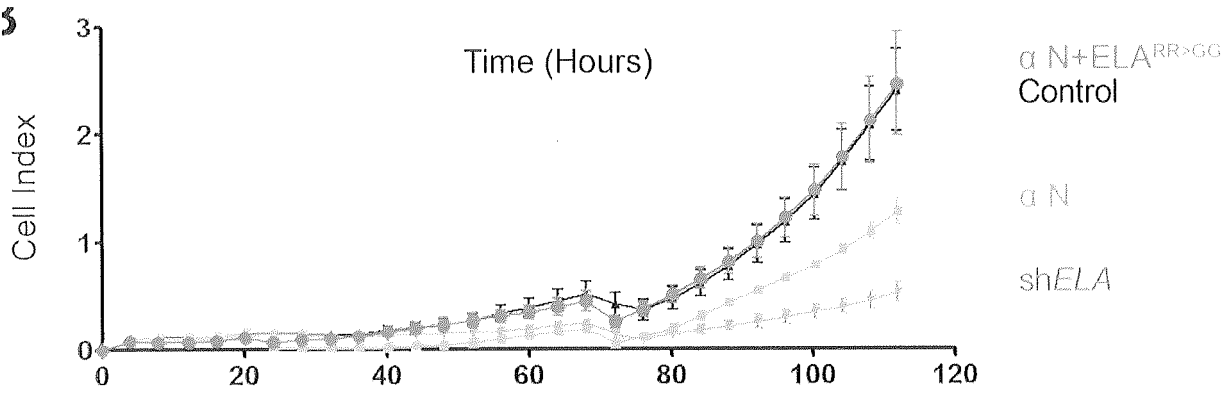
FIGURE 10H

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FIGURE 11A

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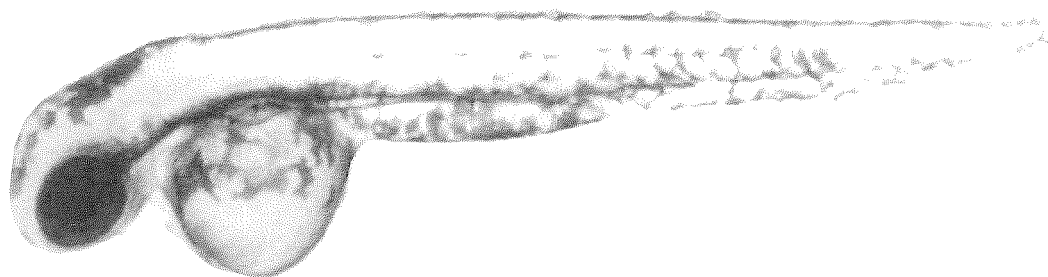
FIGURE 11B



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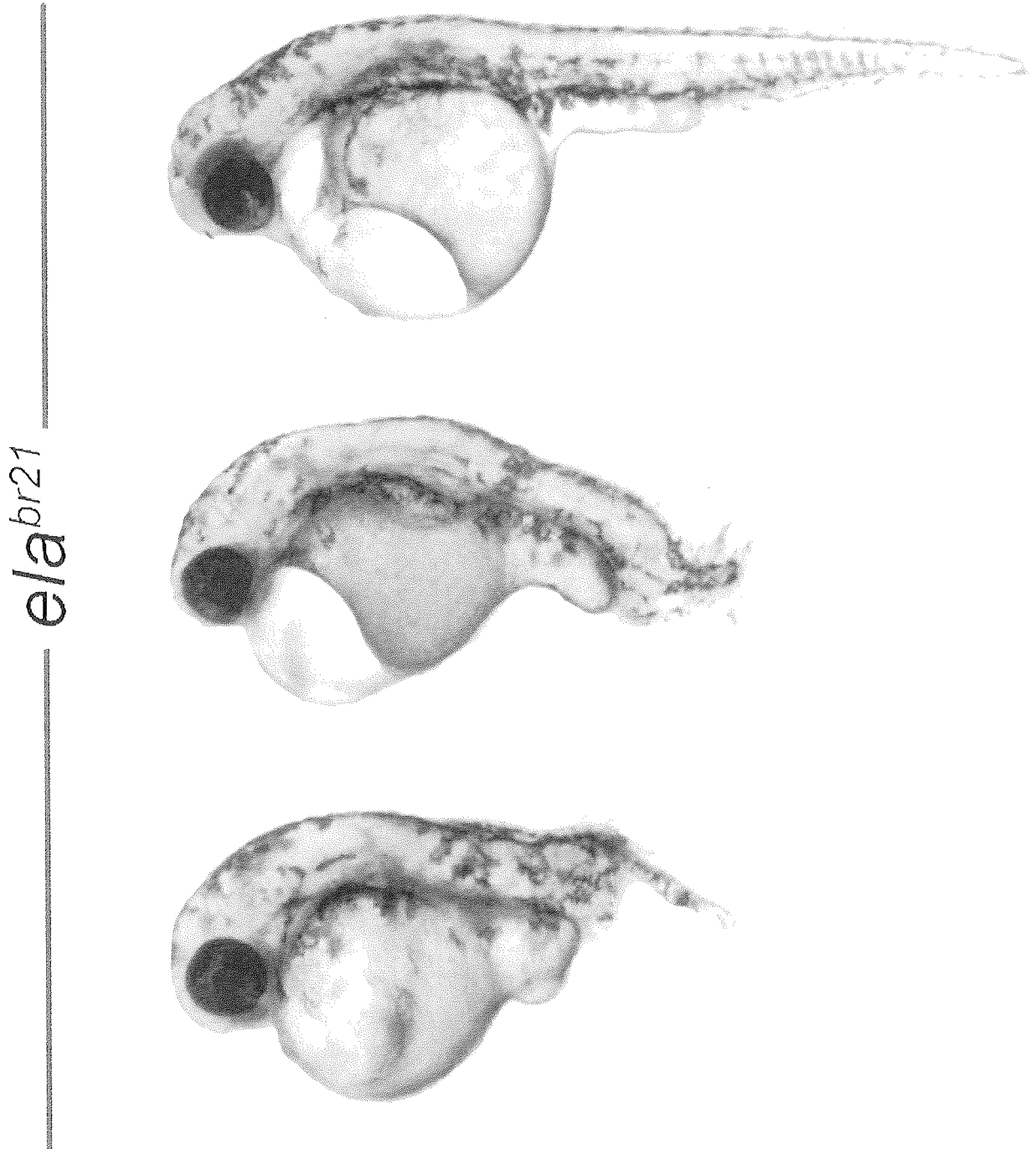
FIGURE 12A

wt



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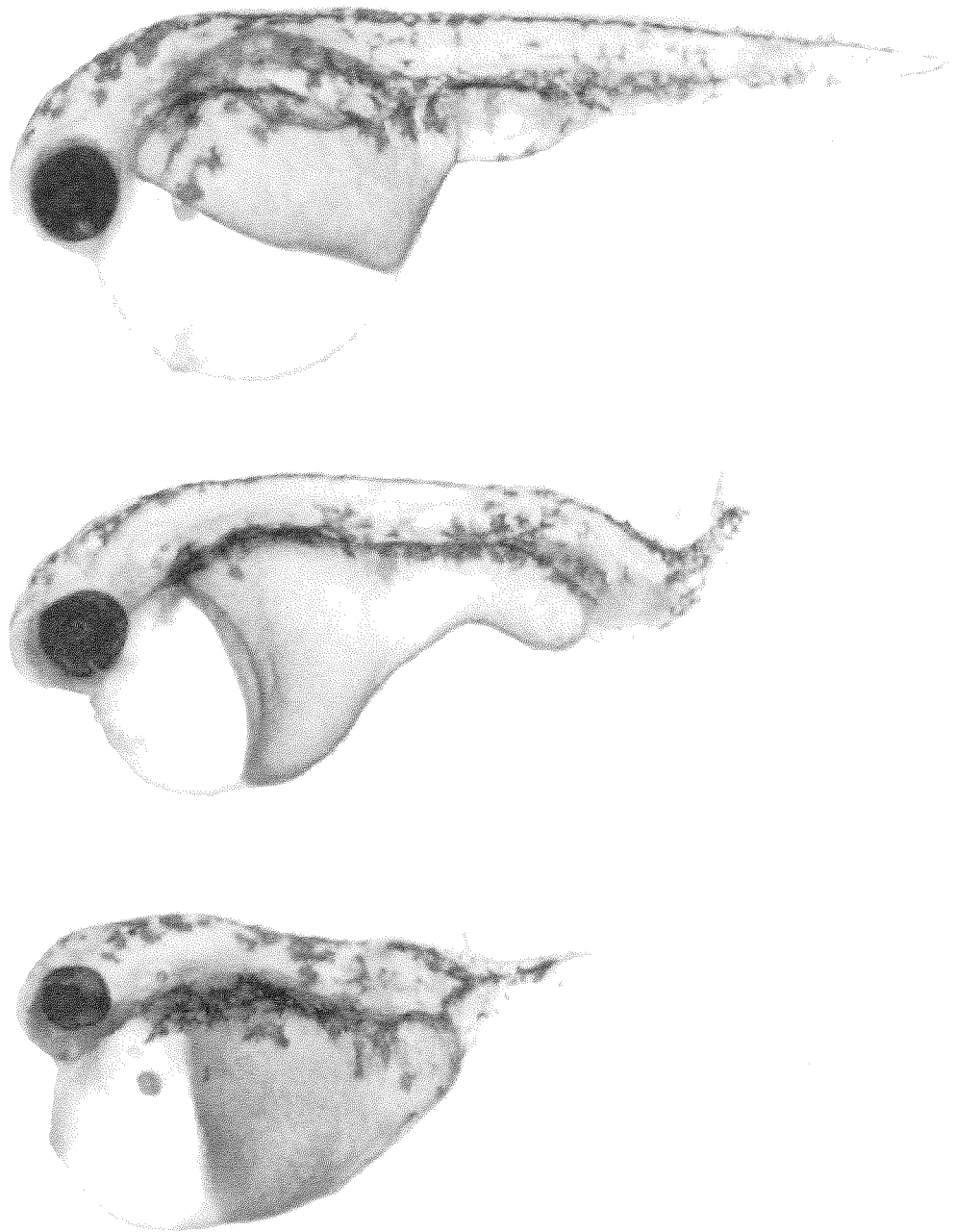
FIGURE 12B



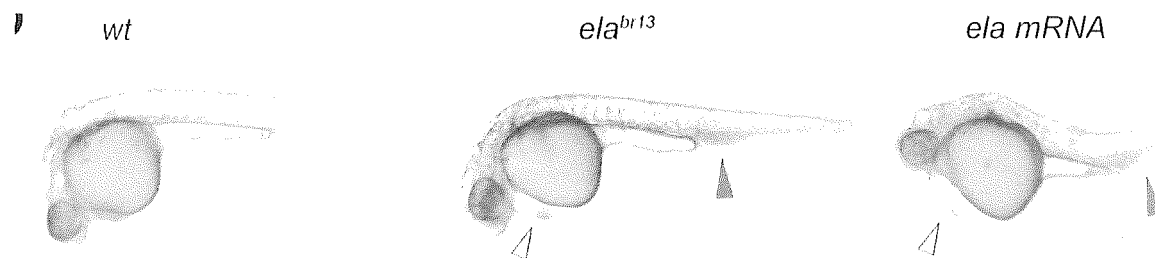
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FIGURE 12C

ela^{br15}



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FIGURE 12D

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FIGURE 13A

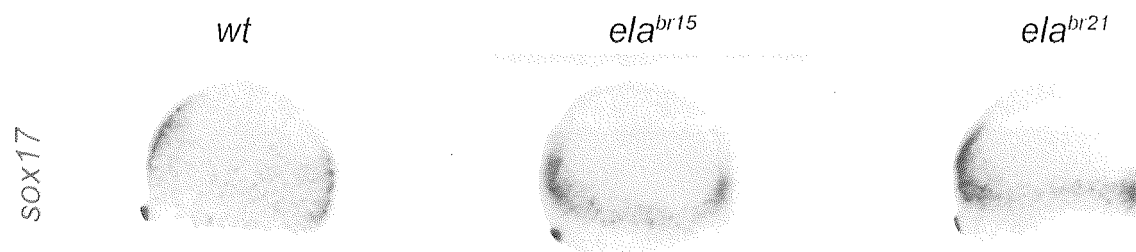


FIGURE 13B

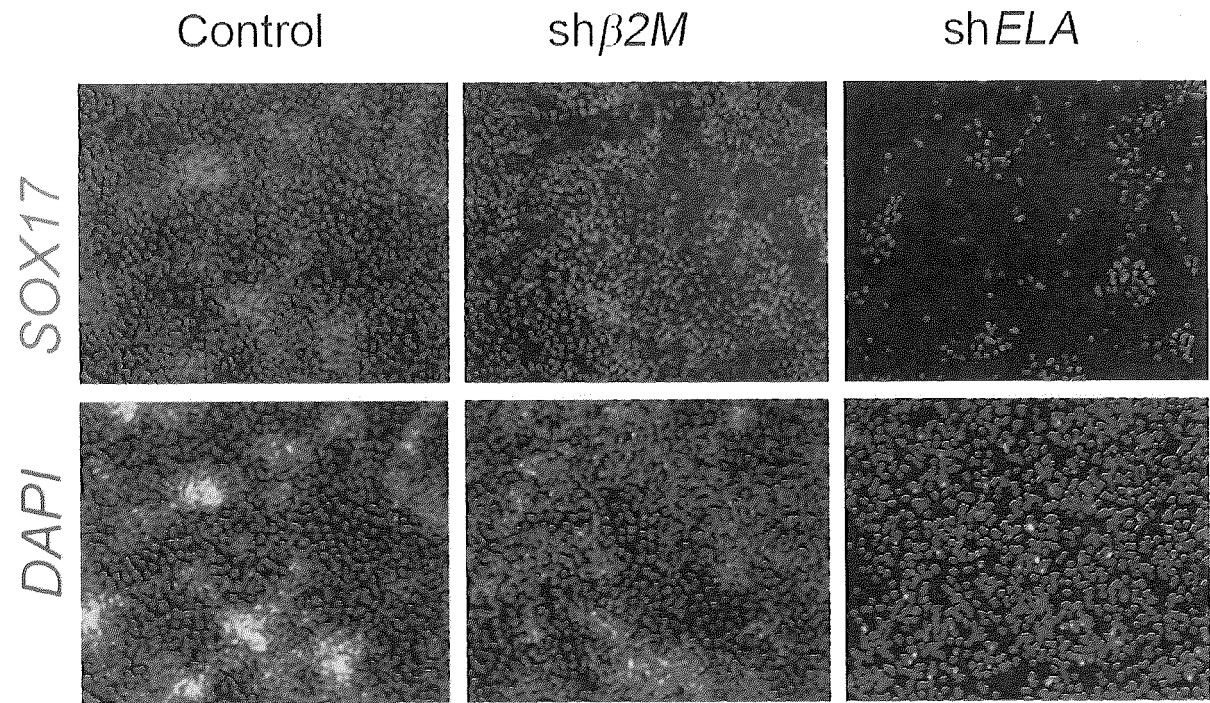


FIGURE 13C

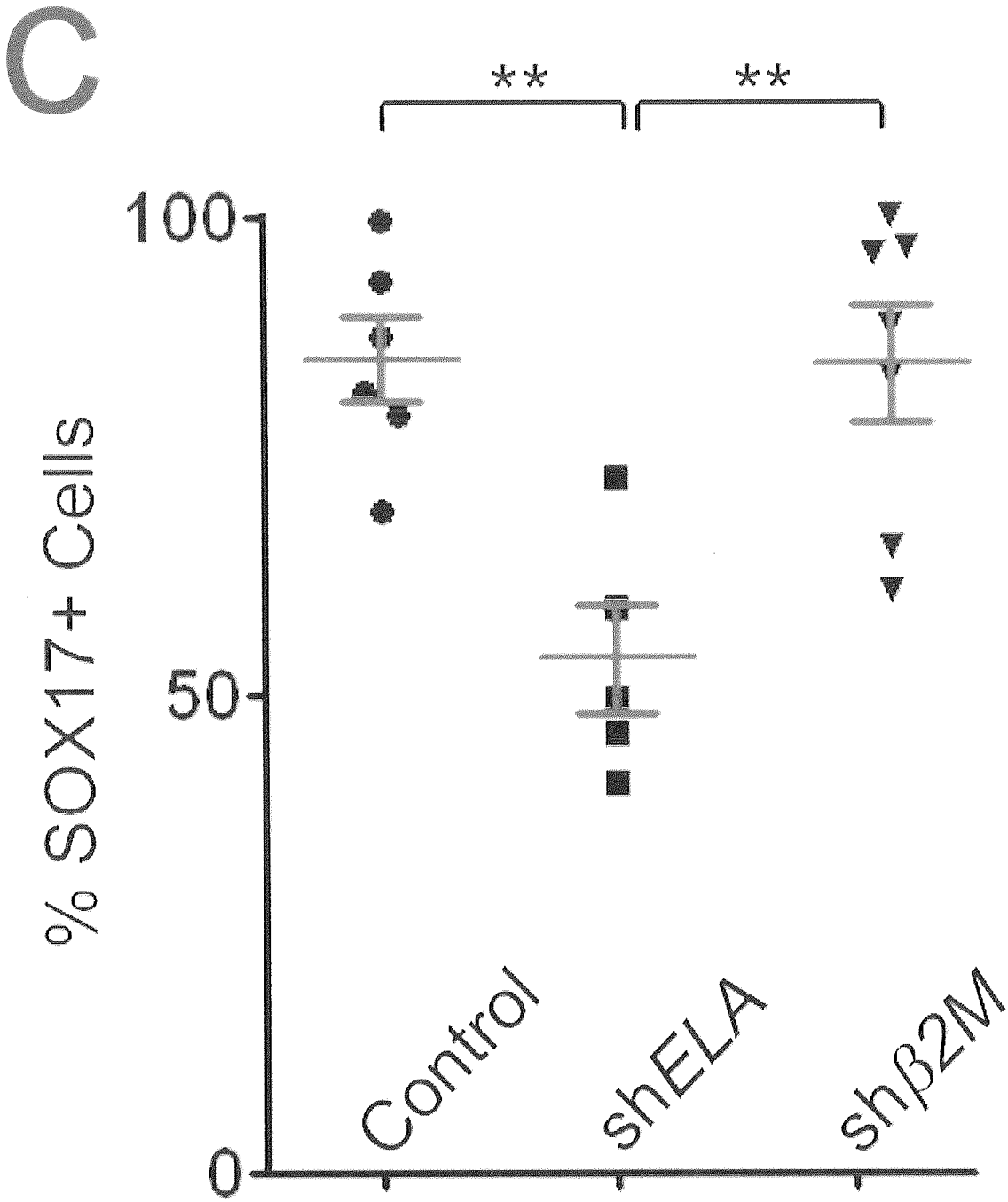


FIGURE 14A

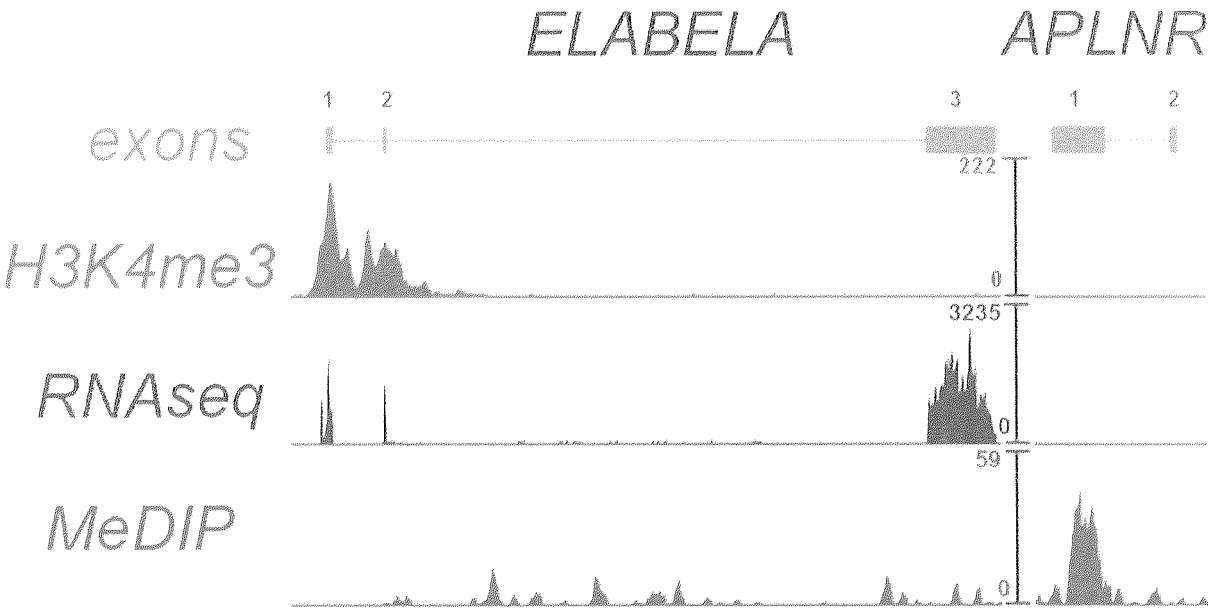
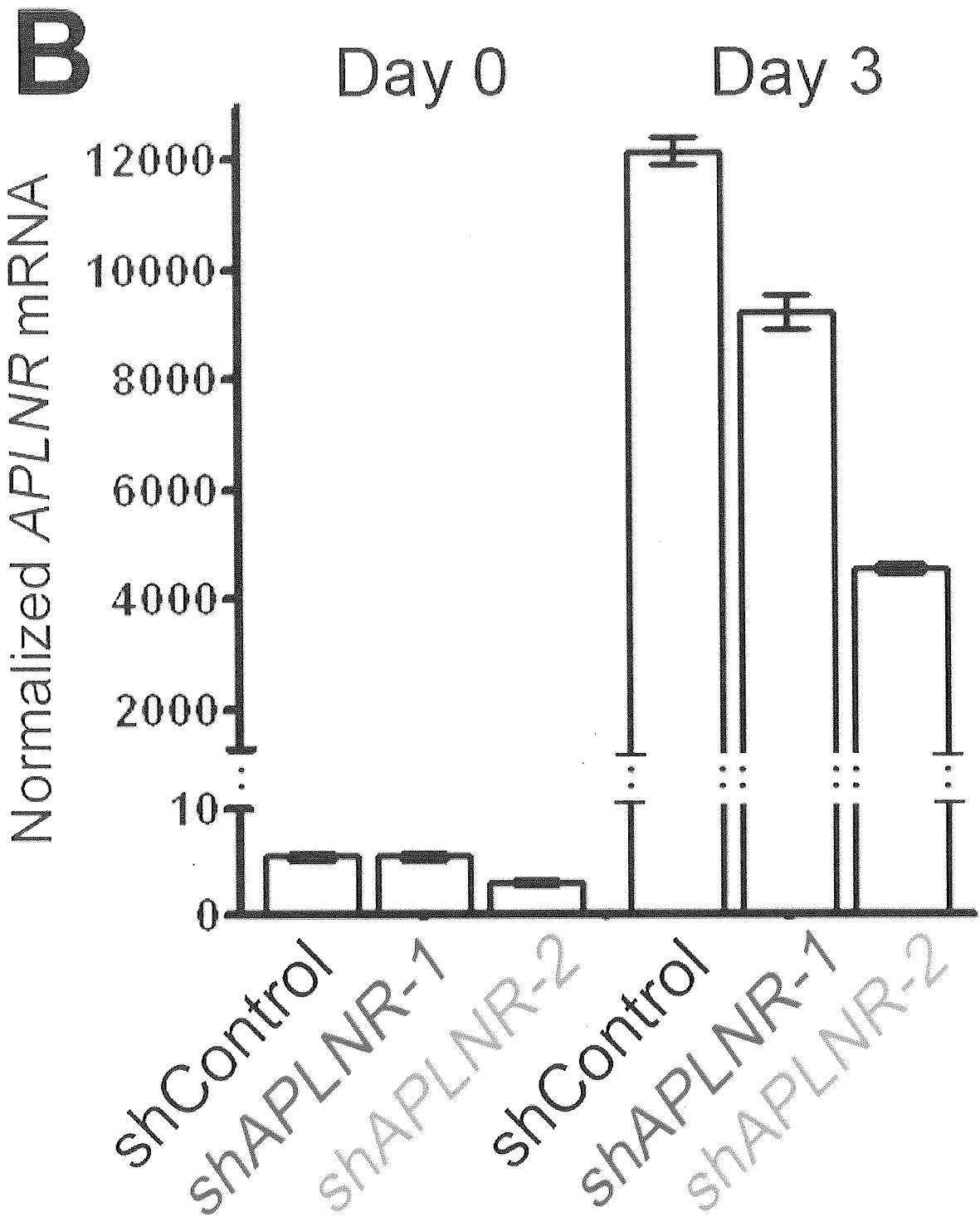
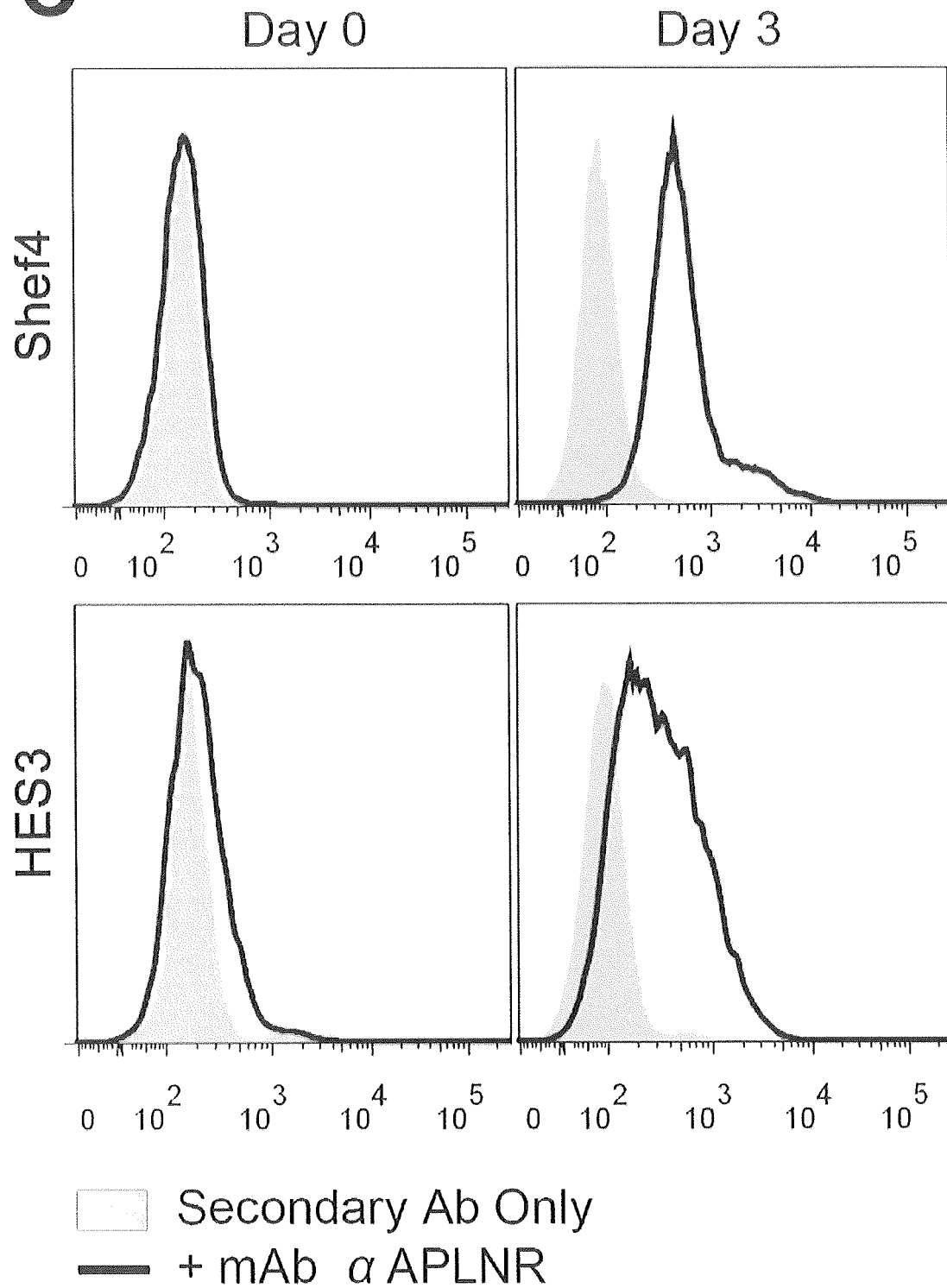


FIGURE 14B



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FIGURE 14C



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FIGURE 14D

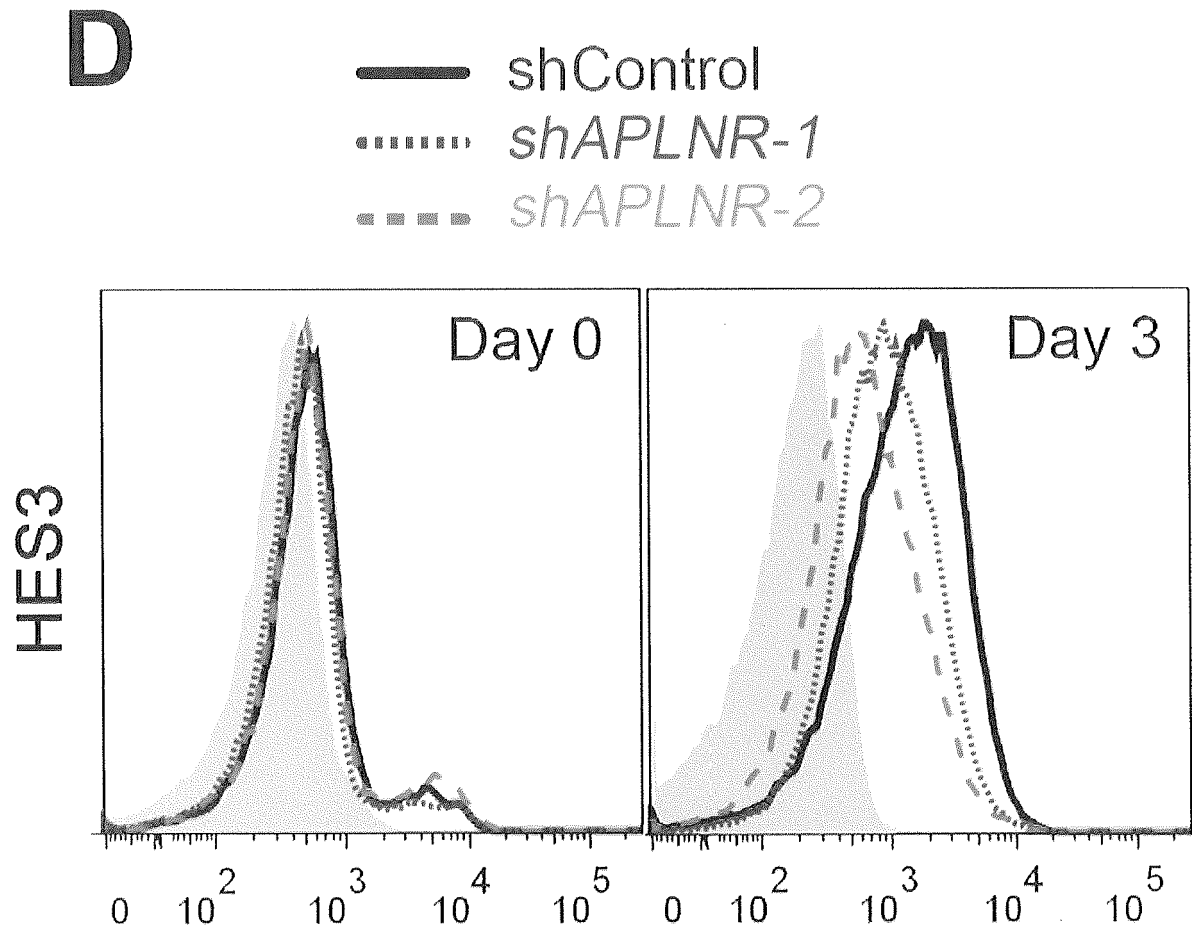


FIGURE 14E

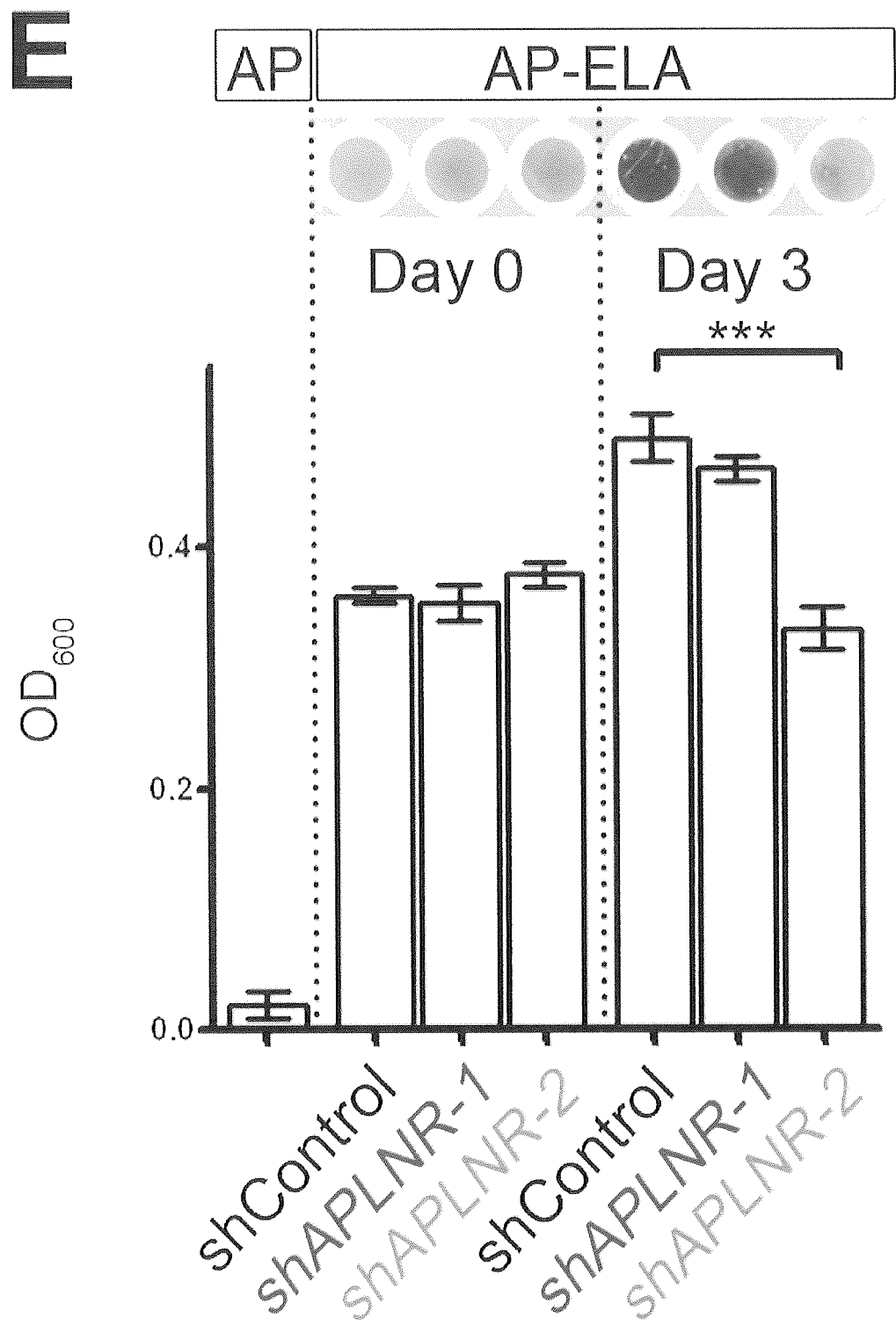
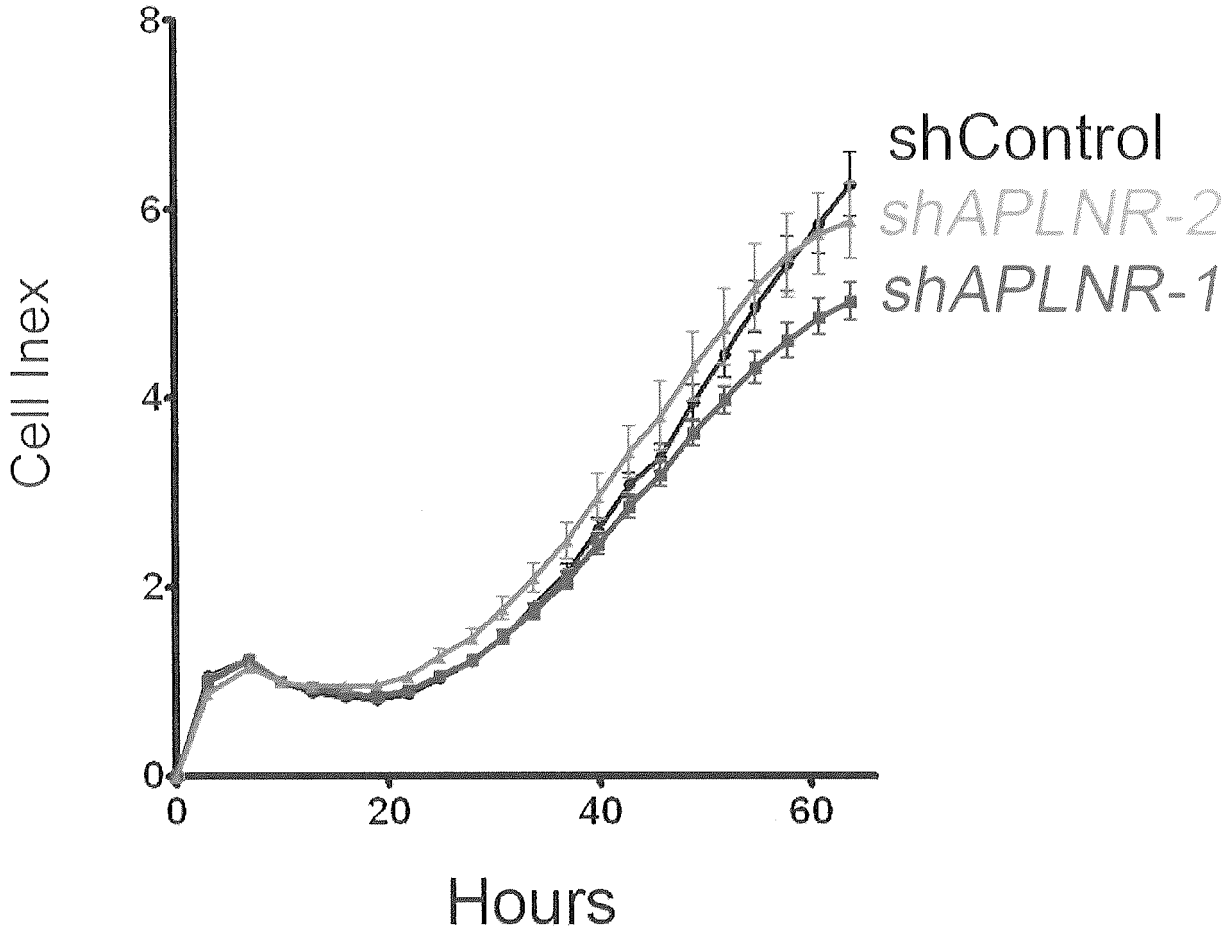


FIGURE 14F



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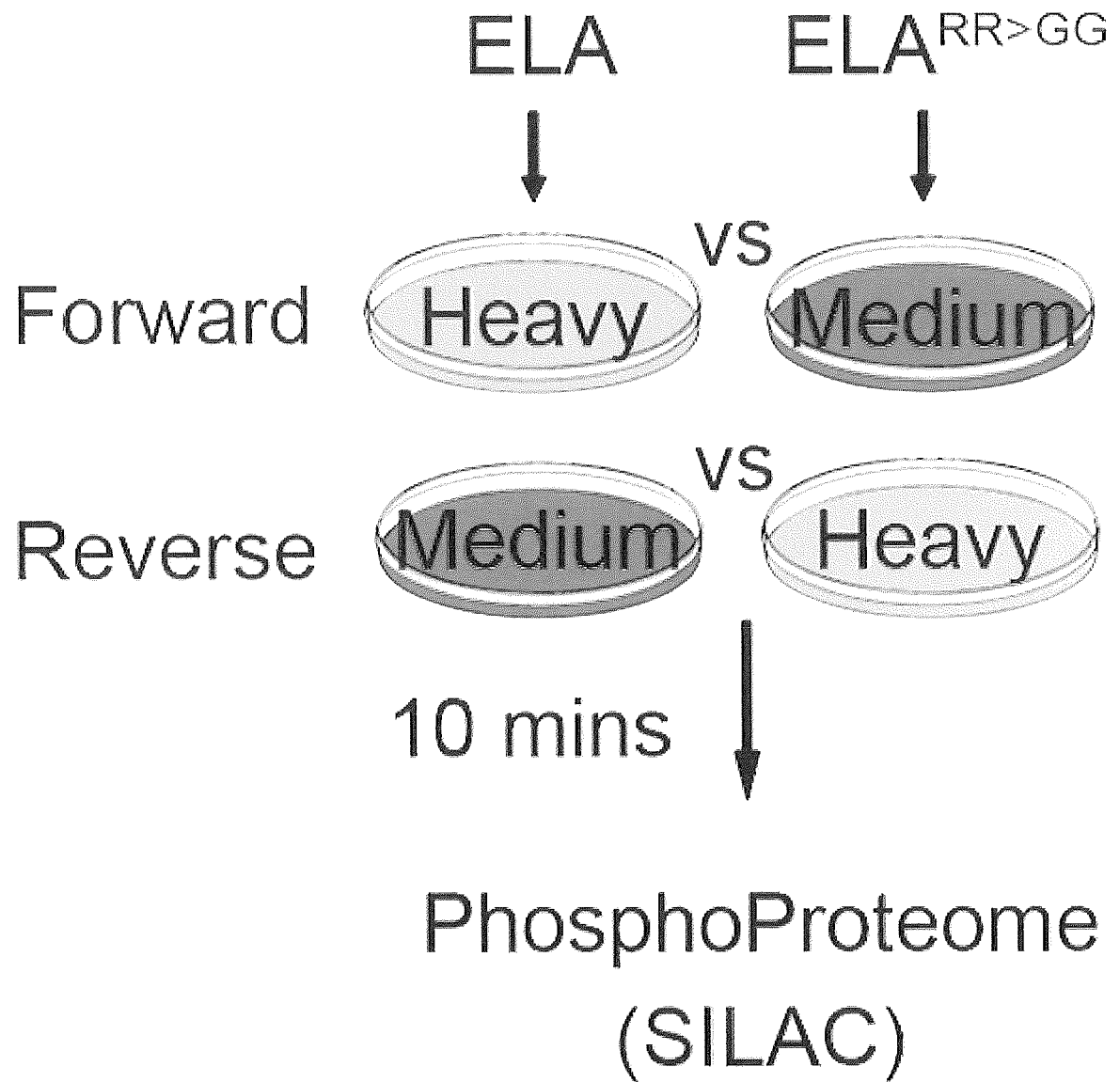
FIGURE 15A

FIGURE 15C

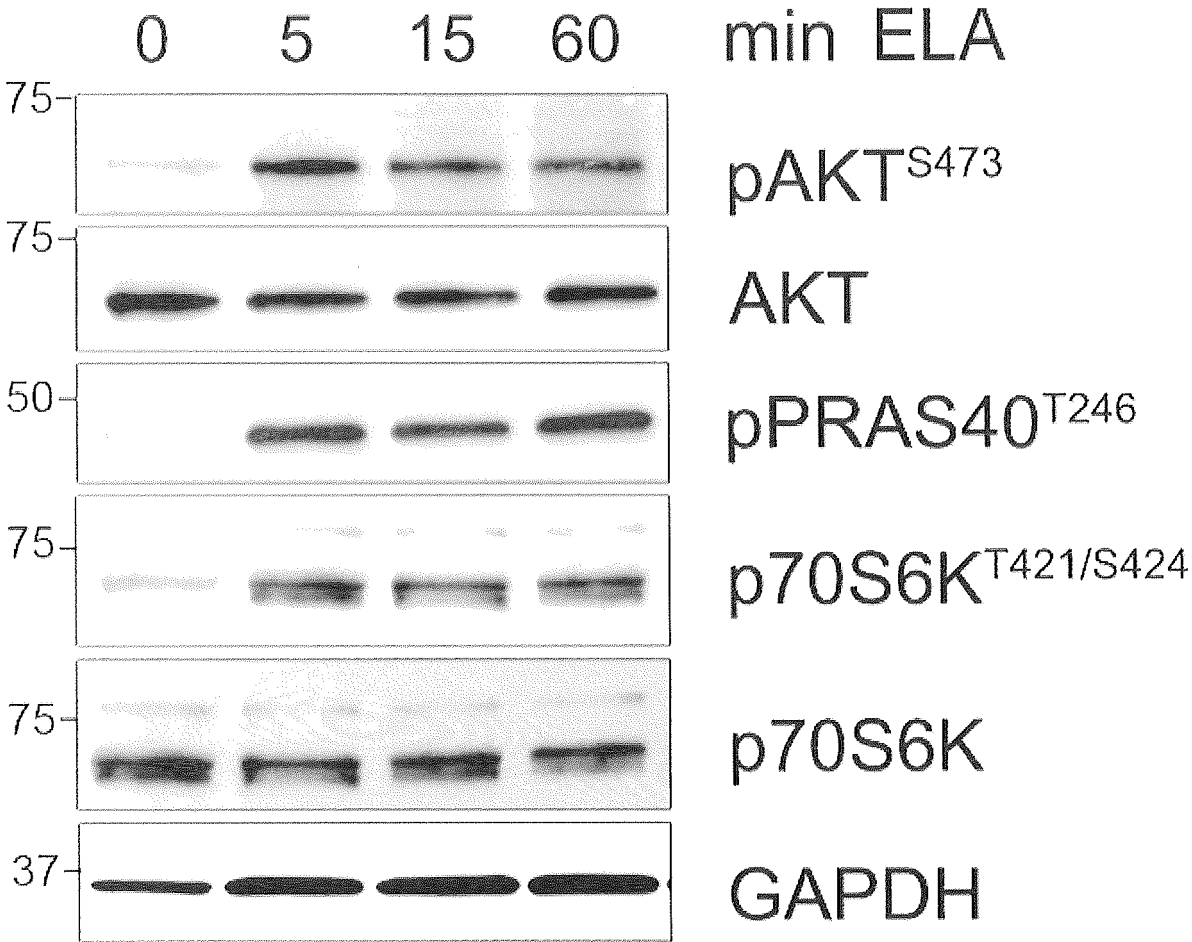


FIGURE 15D

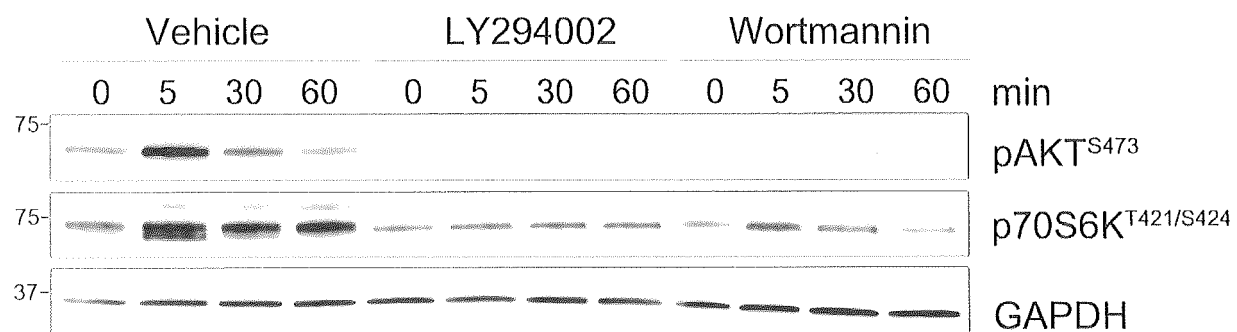


FIGURE 15E

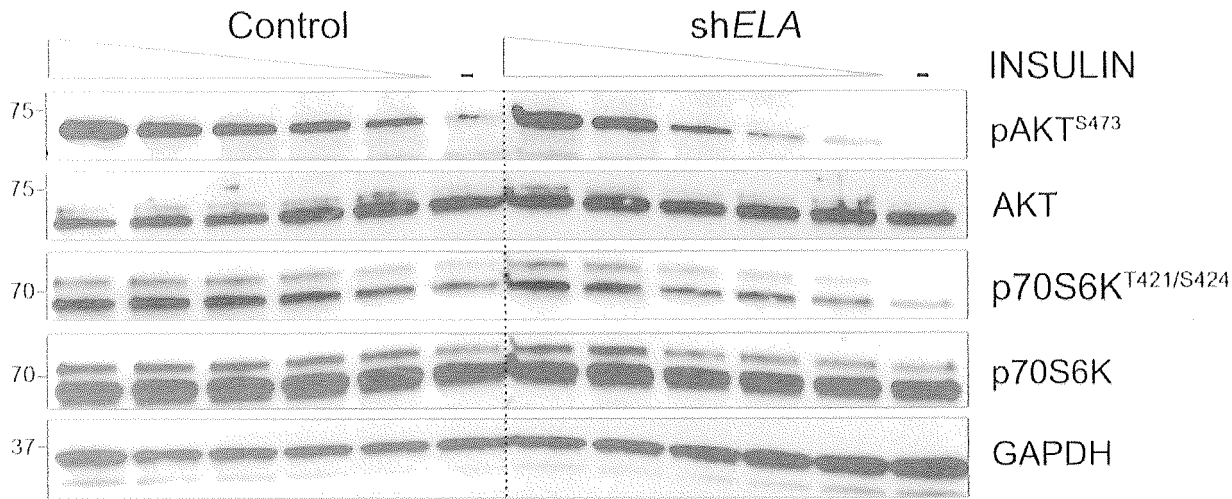
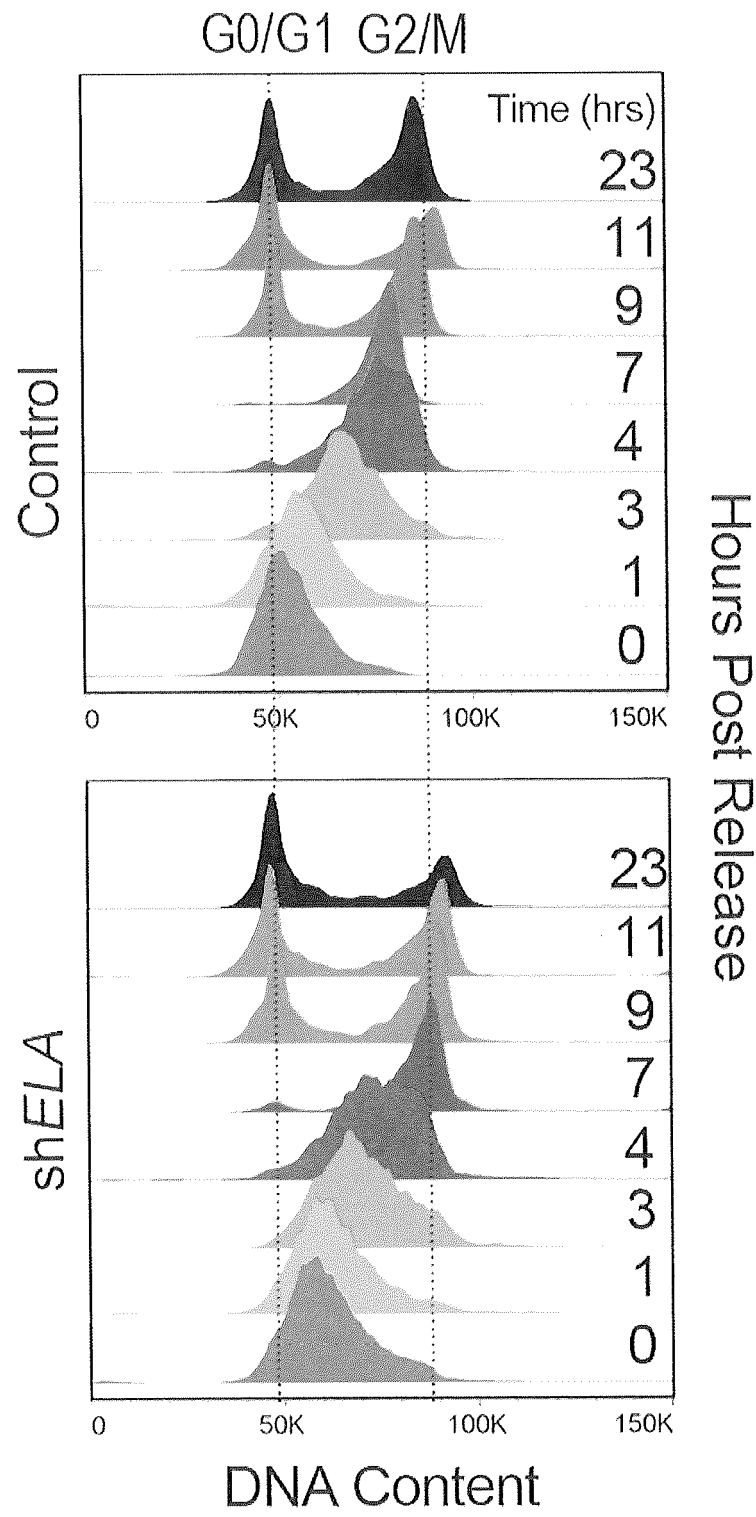


FIGURE 15F



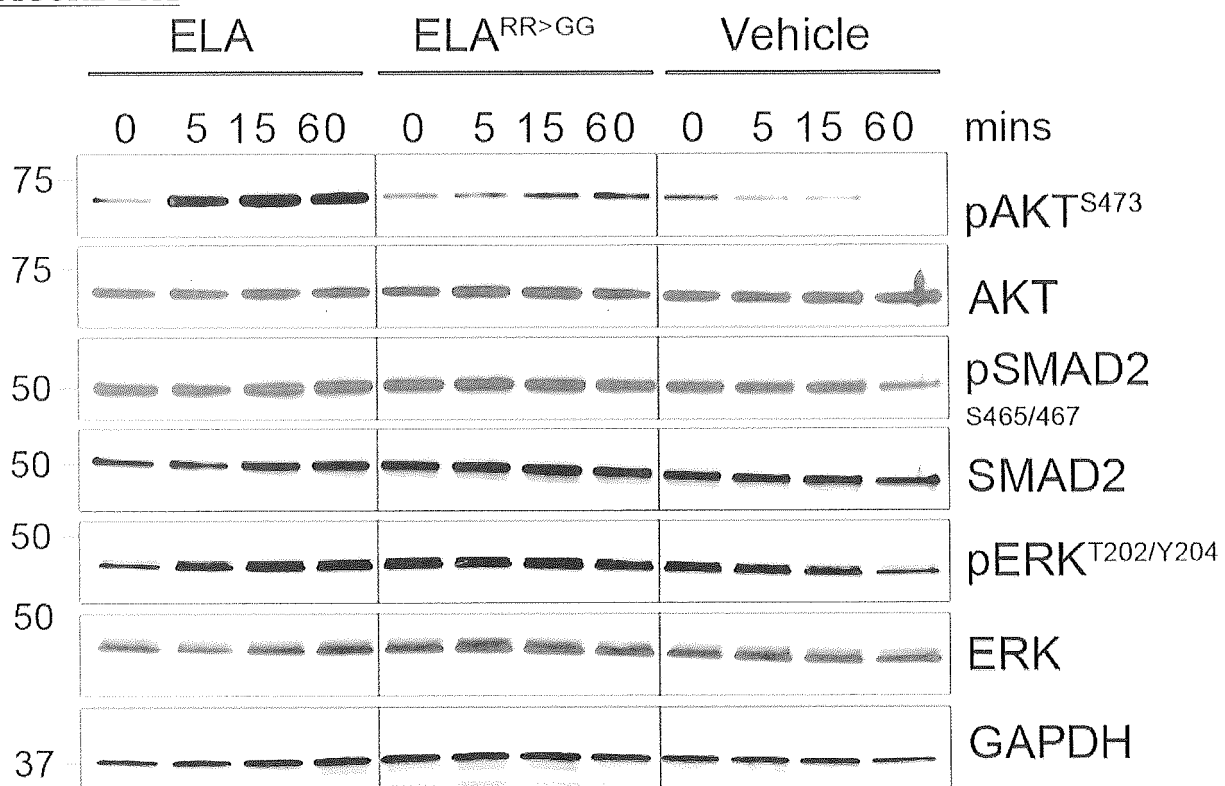
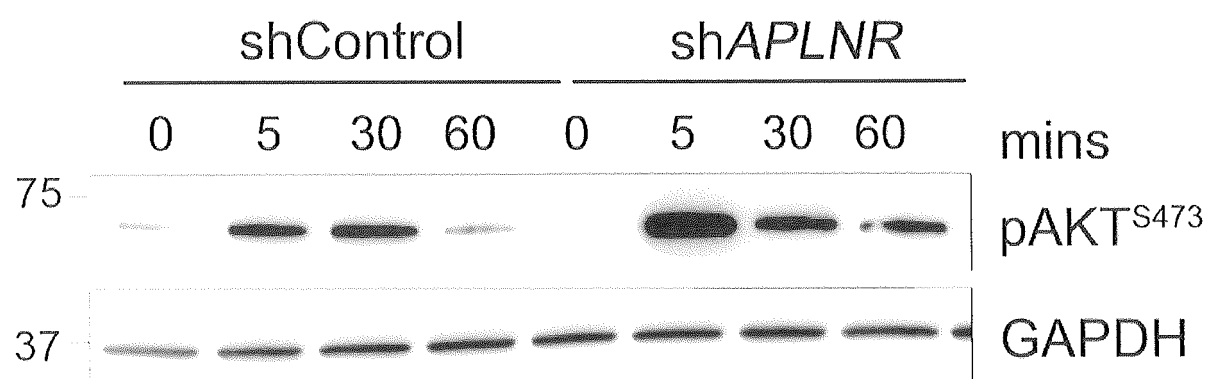
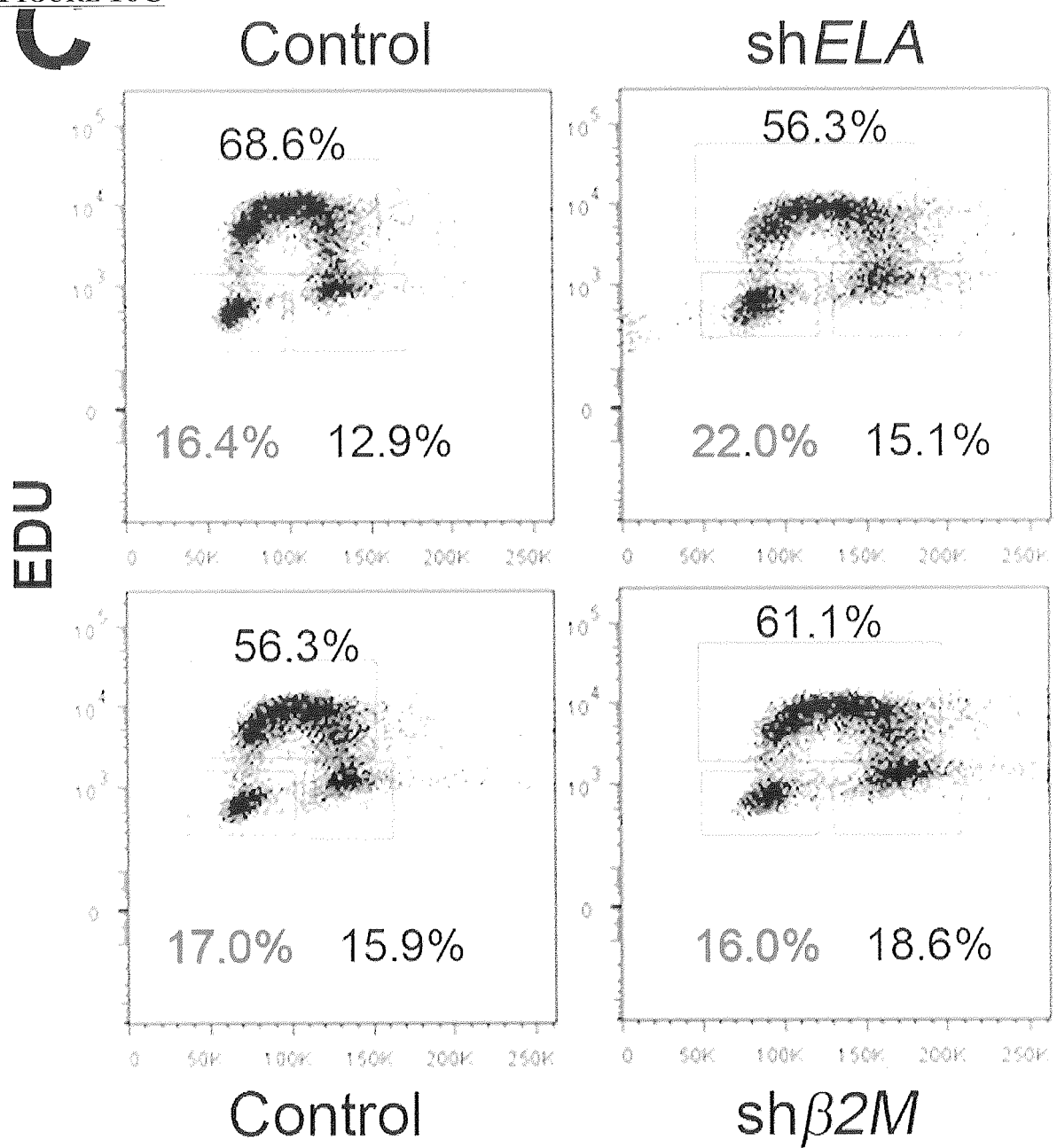


FIGURE 16B

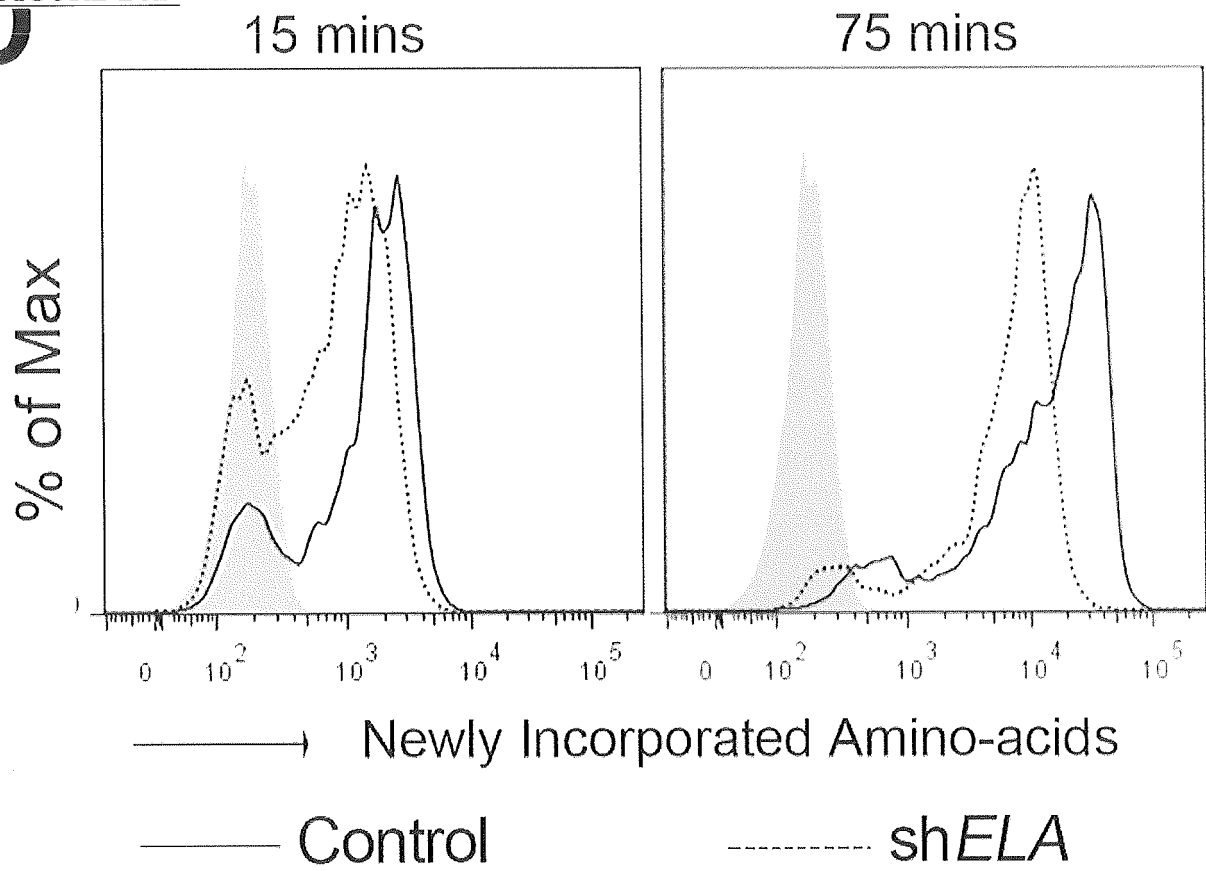


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FIGURE 16C



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FIGURE 16D

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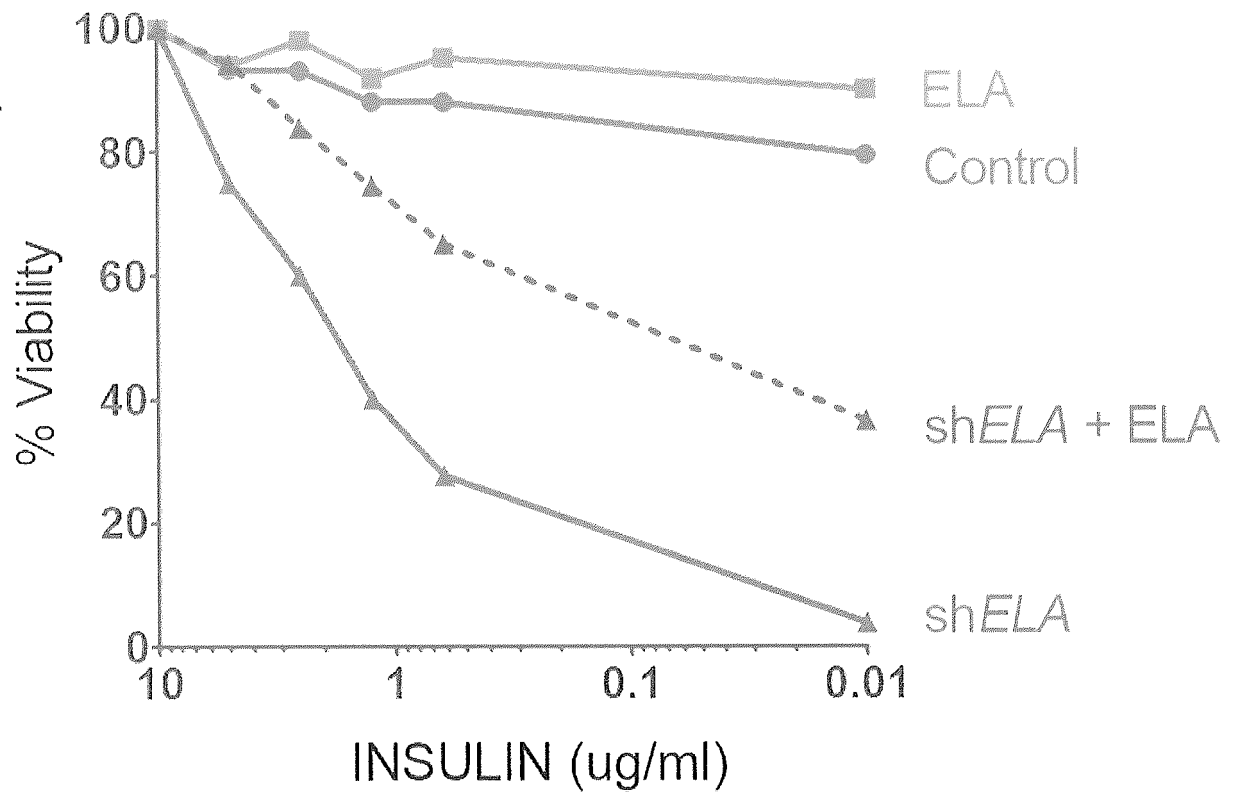
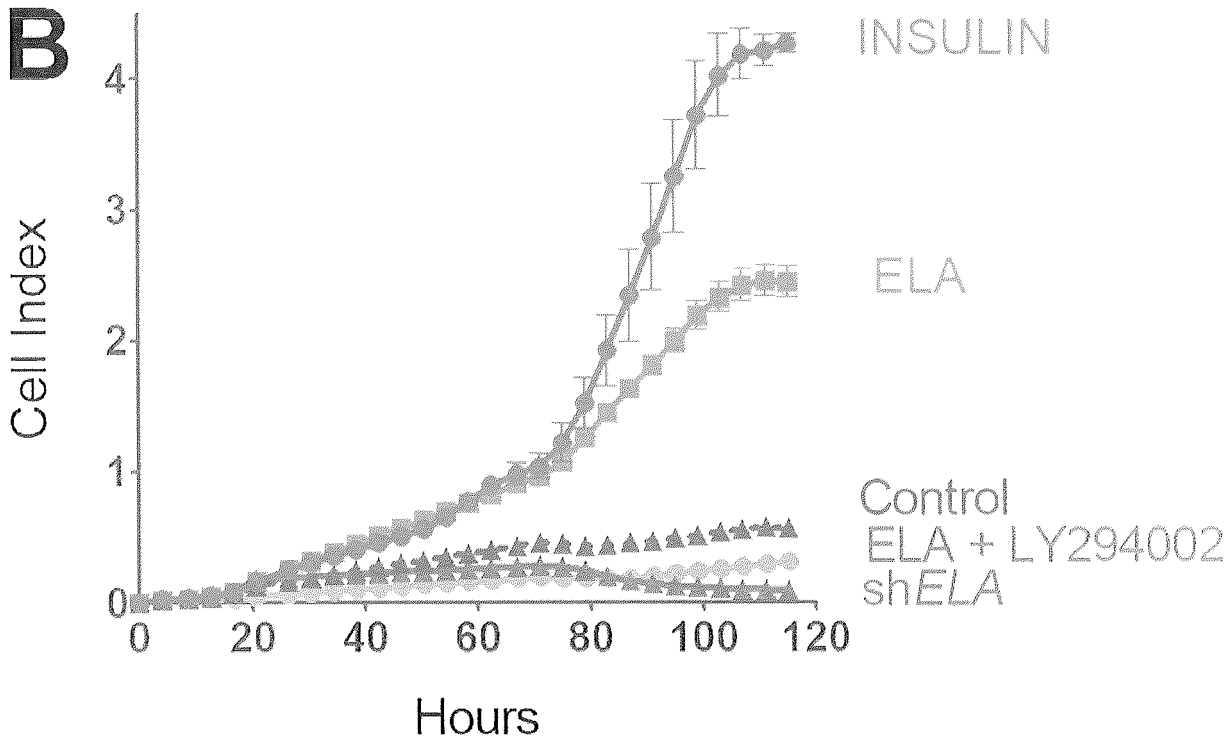
FIGURE 17A

FIGURE 17B



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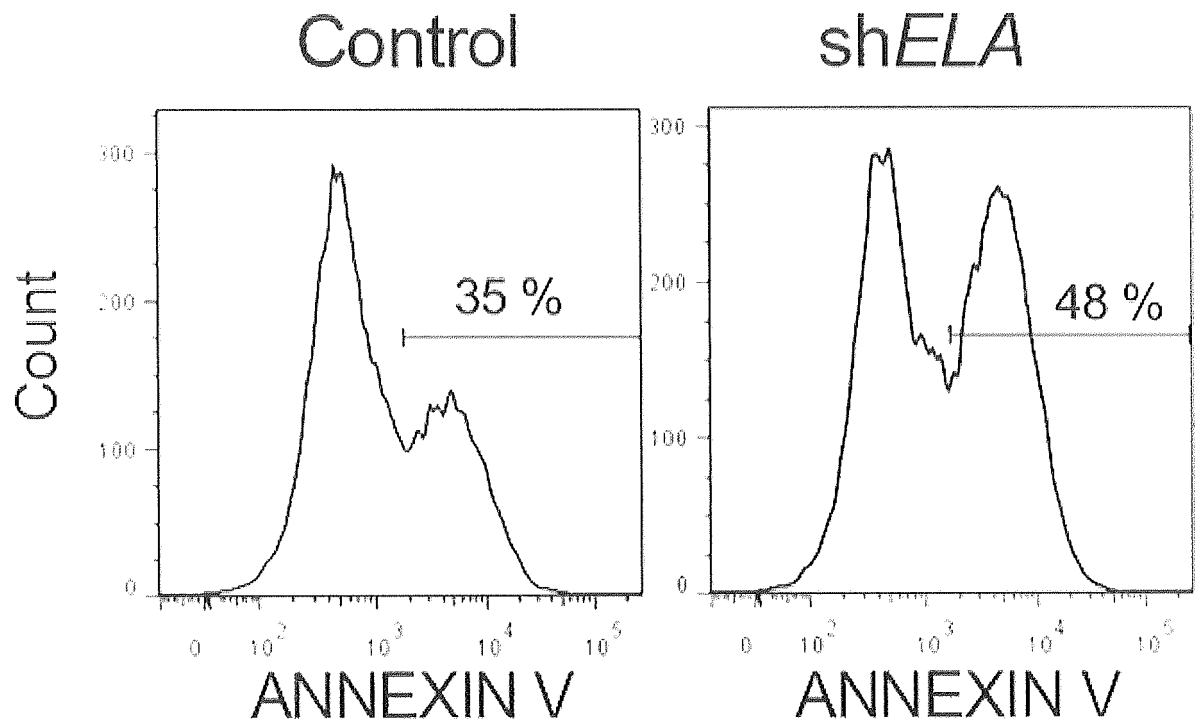
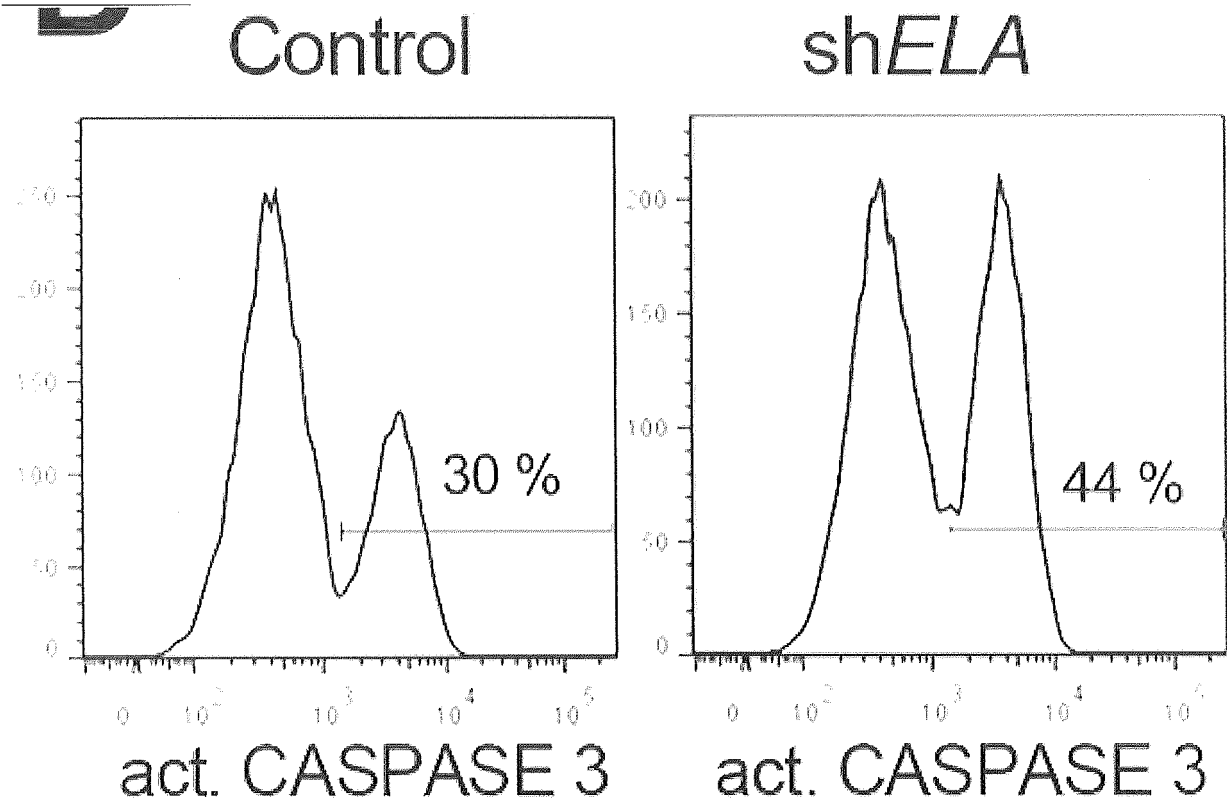
FIGURE 17C

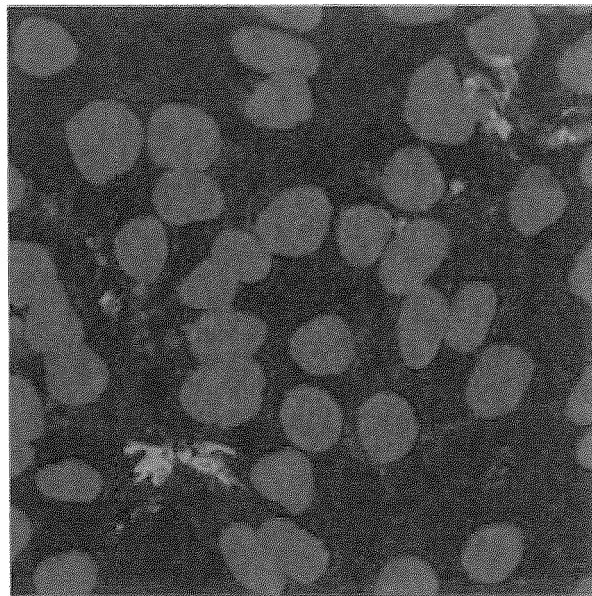
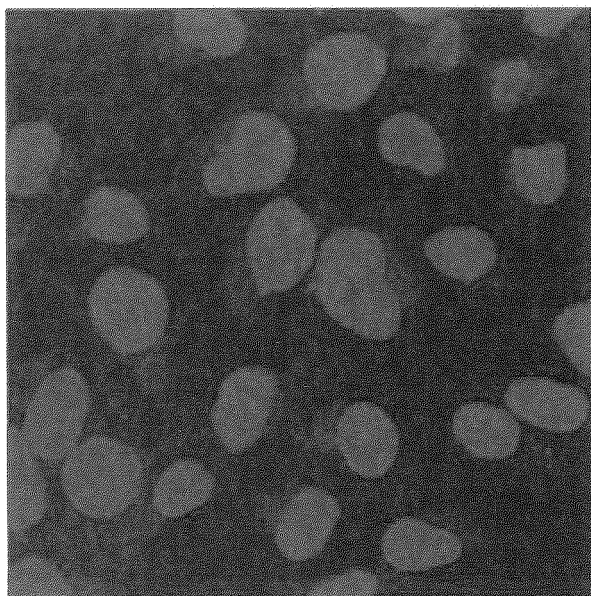
FIGURE 17D



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FIGURE 17E

Control

sh*ELA*

act CASPASE 3 DAPI

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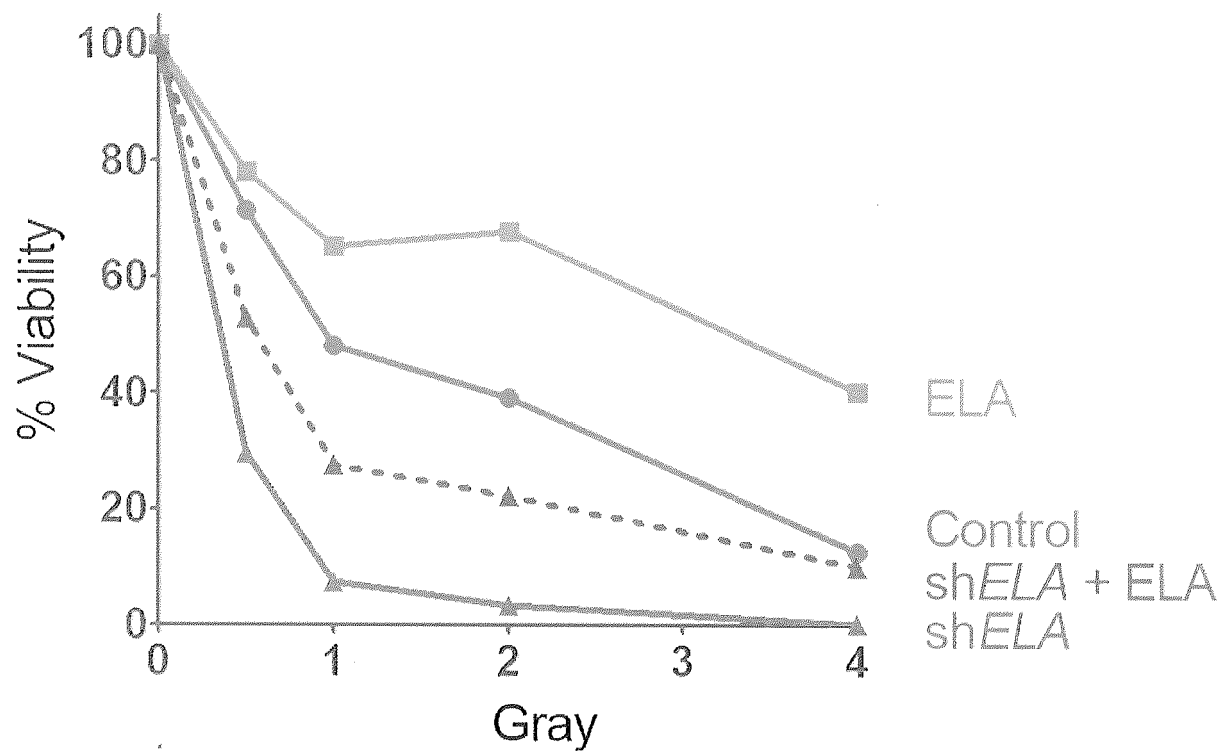
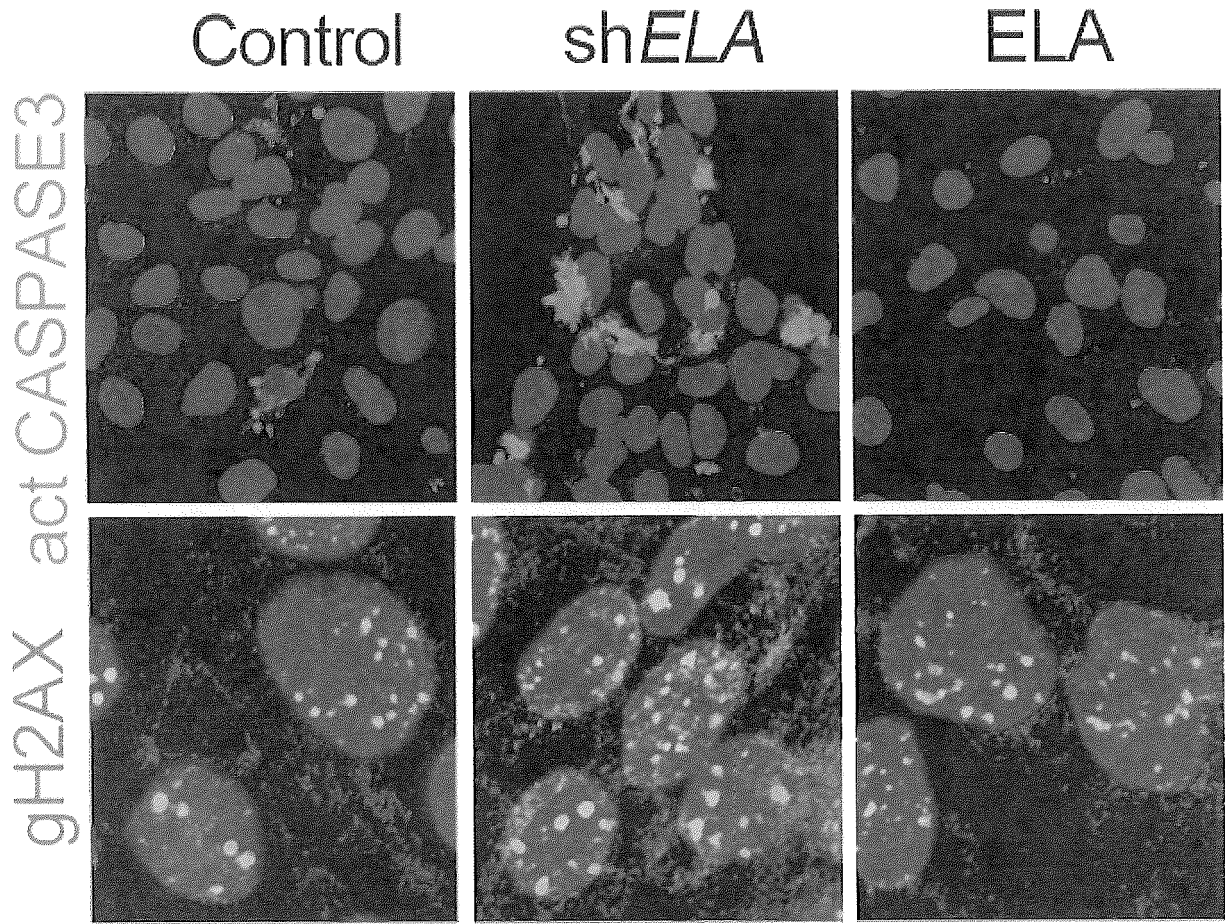
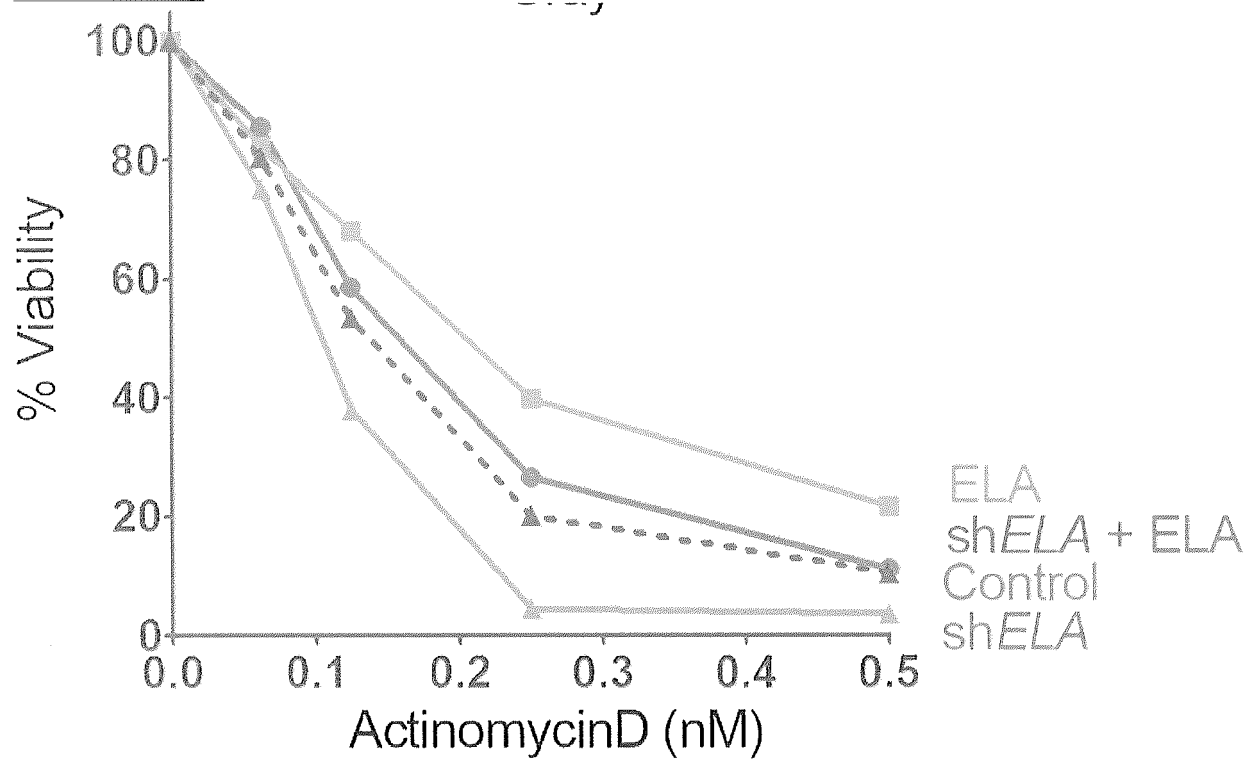
FIGURE 17F

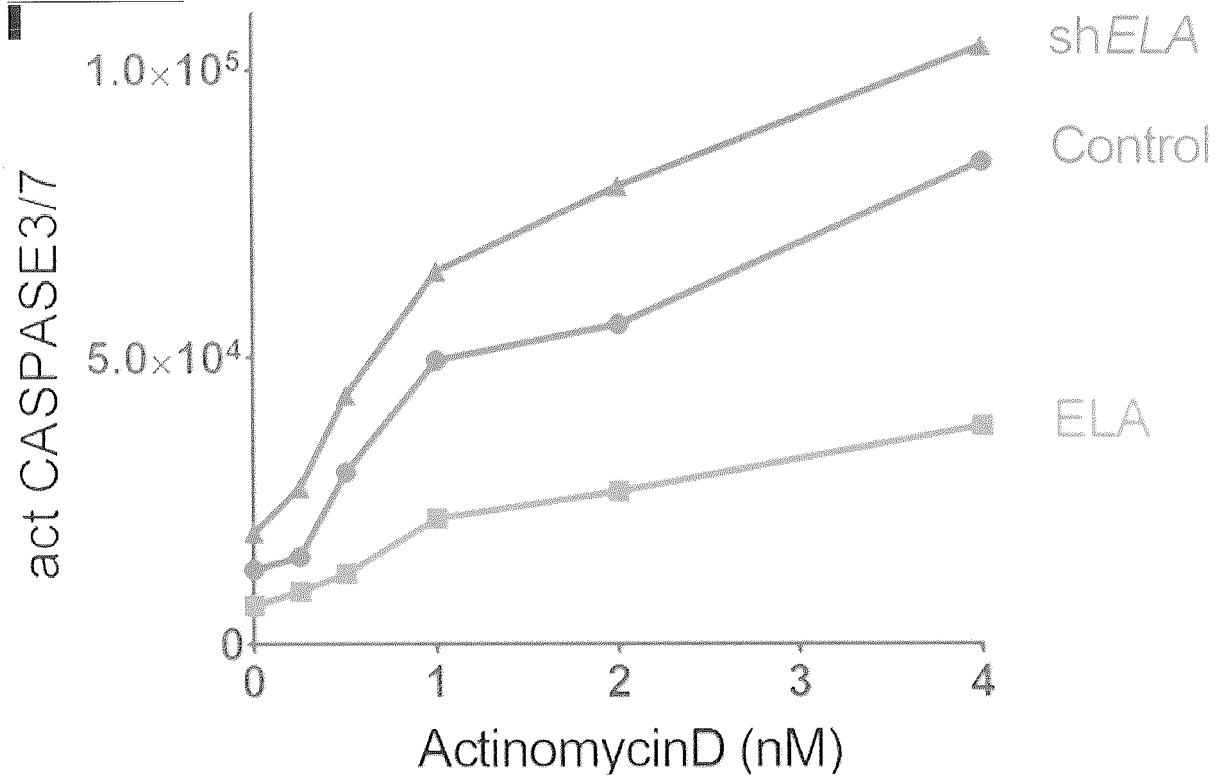
FIGURE 17G



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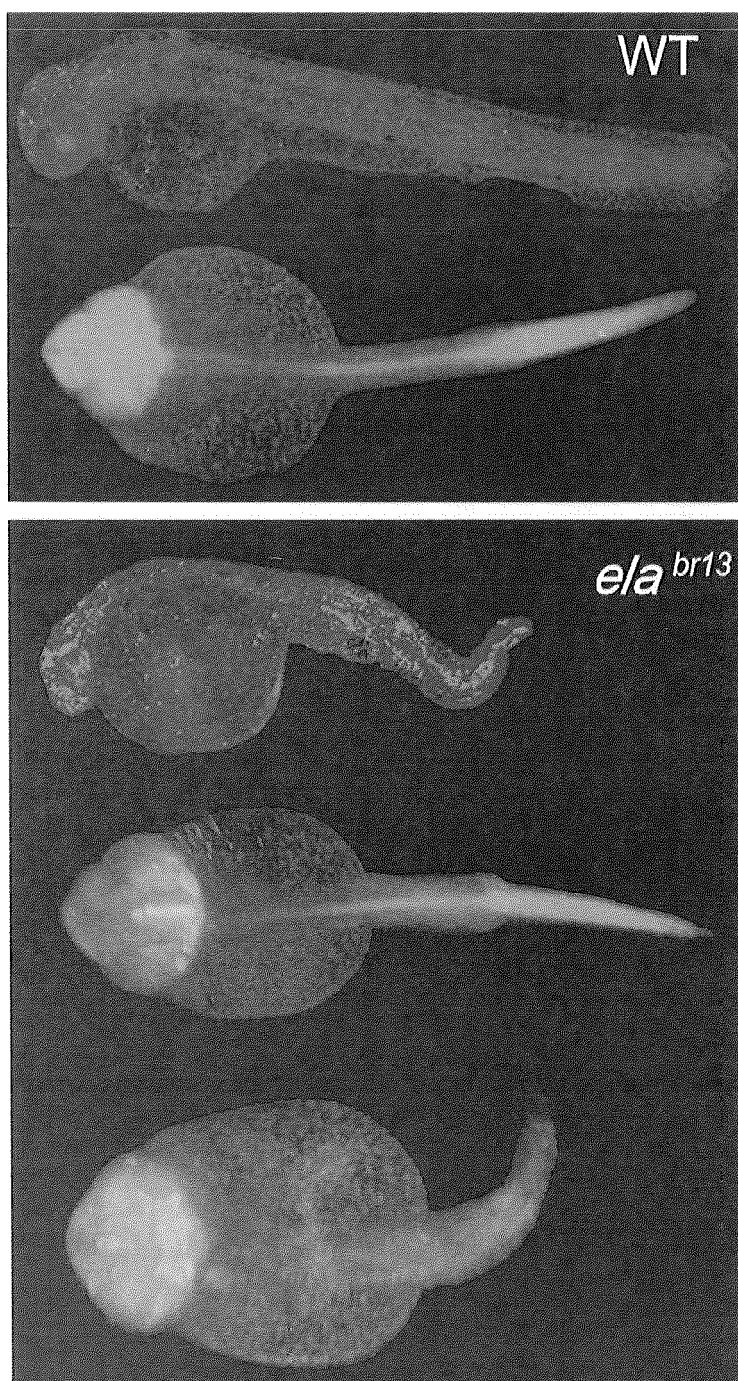
FIGURE 17H

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FIGURE 17I

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FIGURE 17J



act Caspase 3
DAPI/DAPI

FIGURE 18A

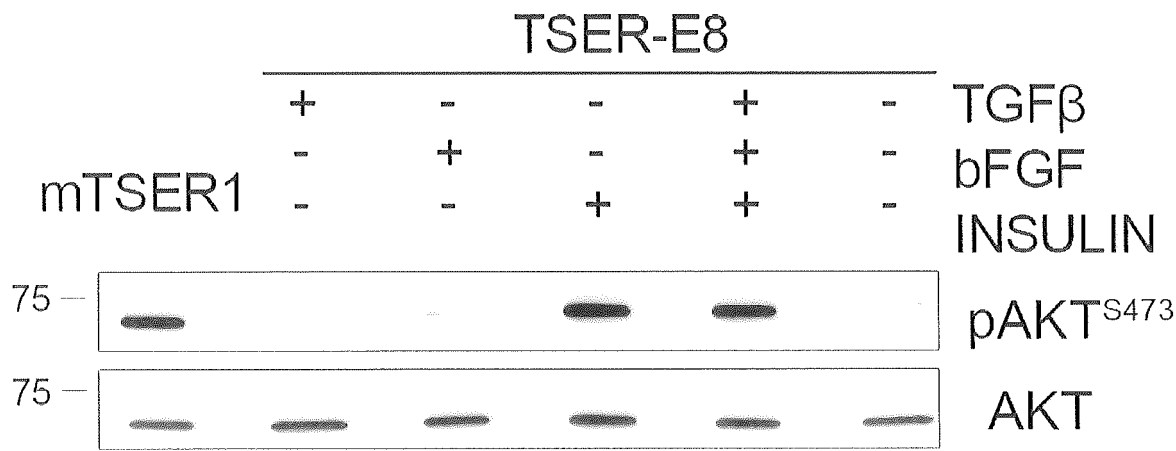
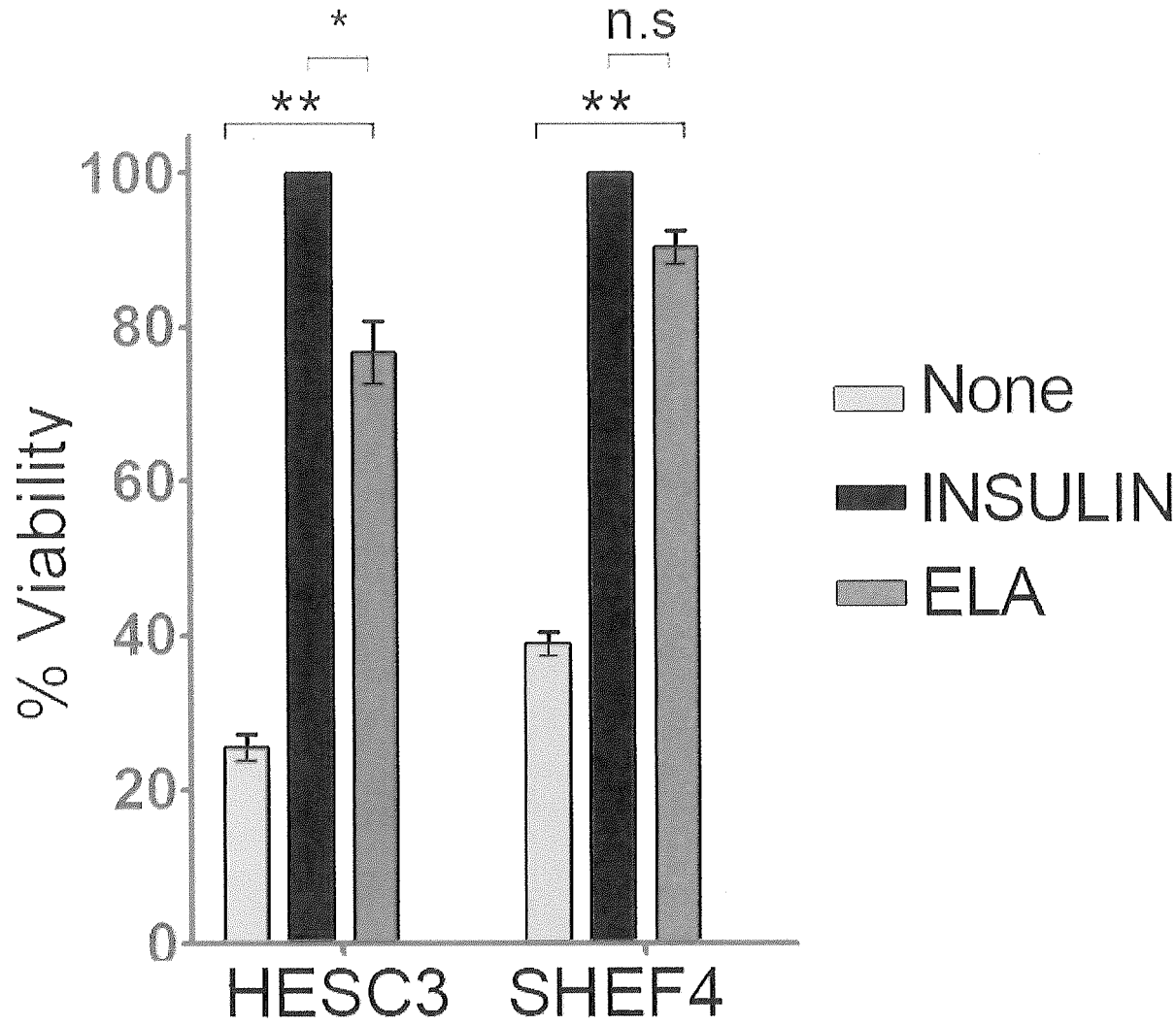


FIGURE 18B



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FIGURE 18C

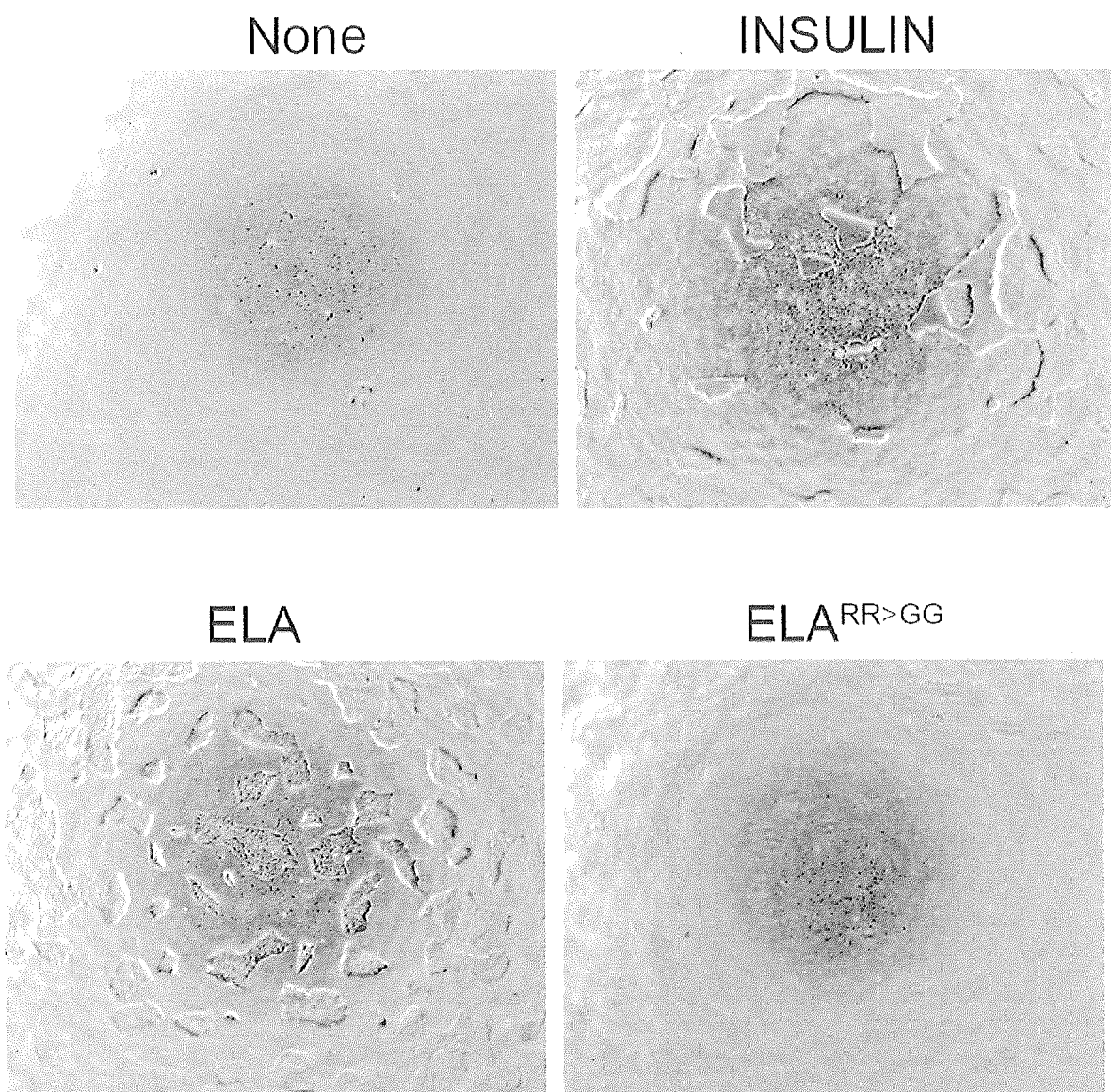


FIGURE 18D

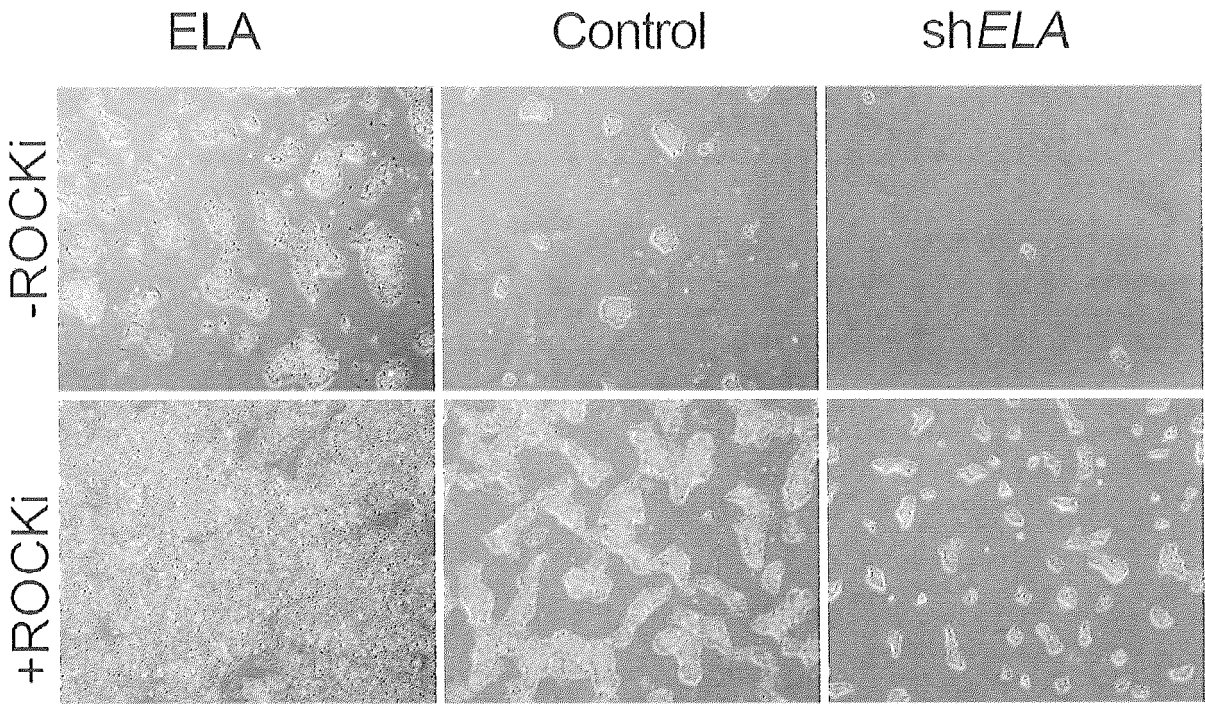


FIGURE 18E

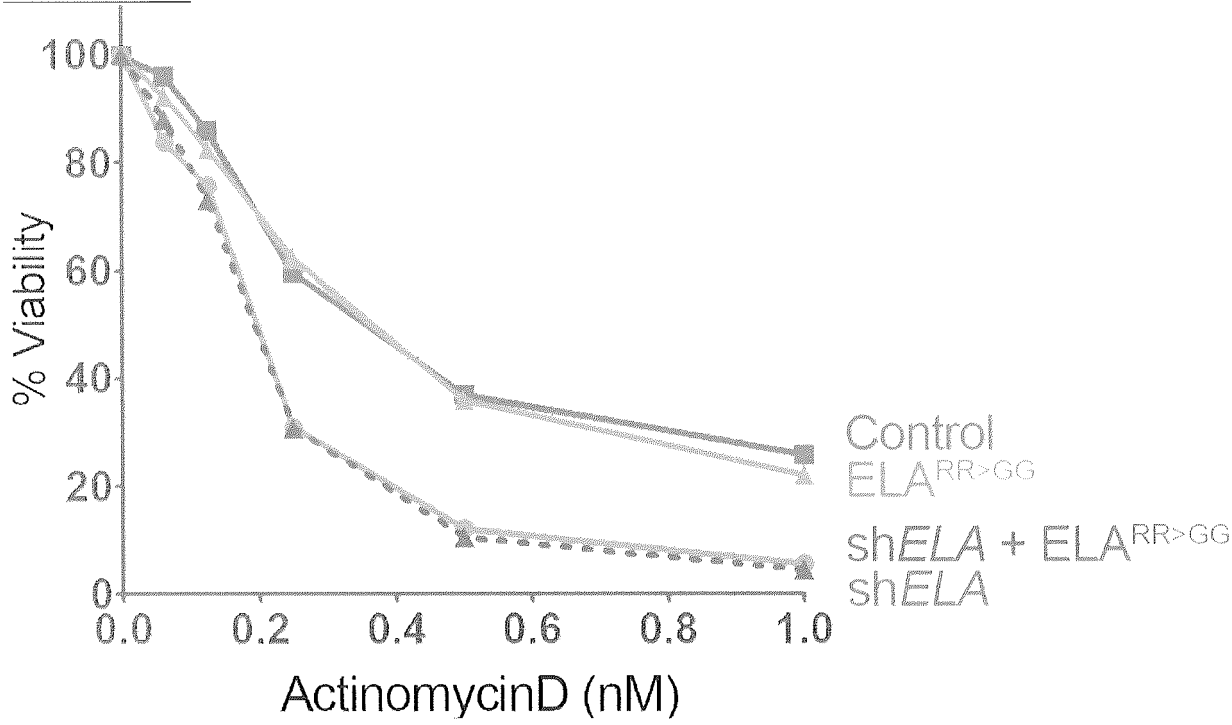


FIGURE 18F

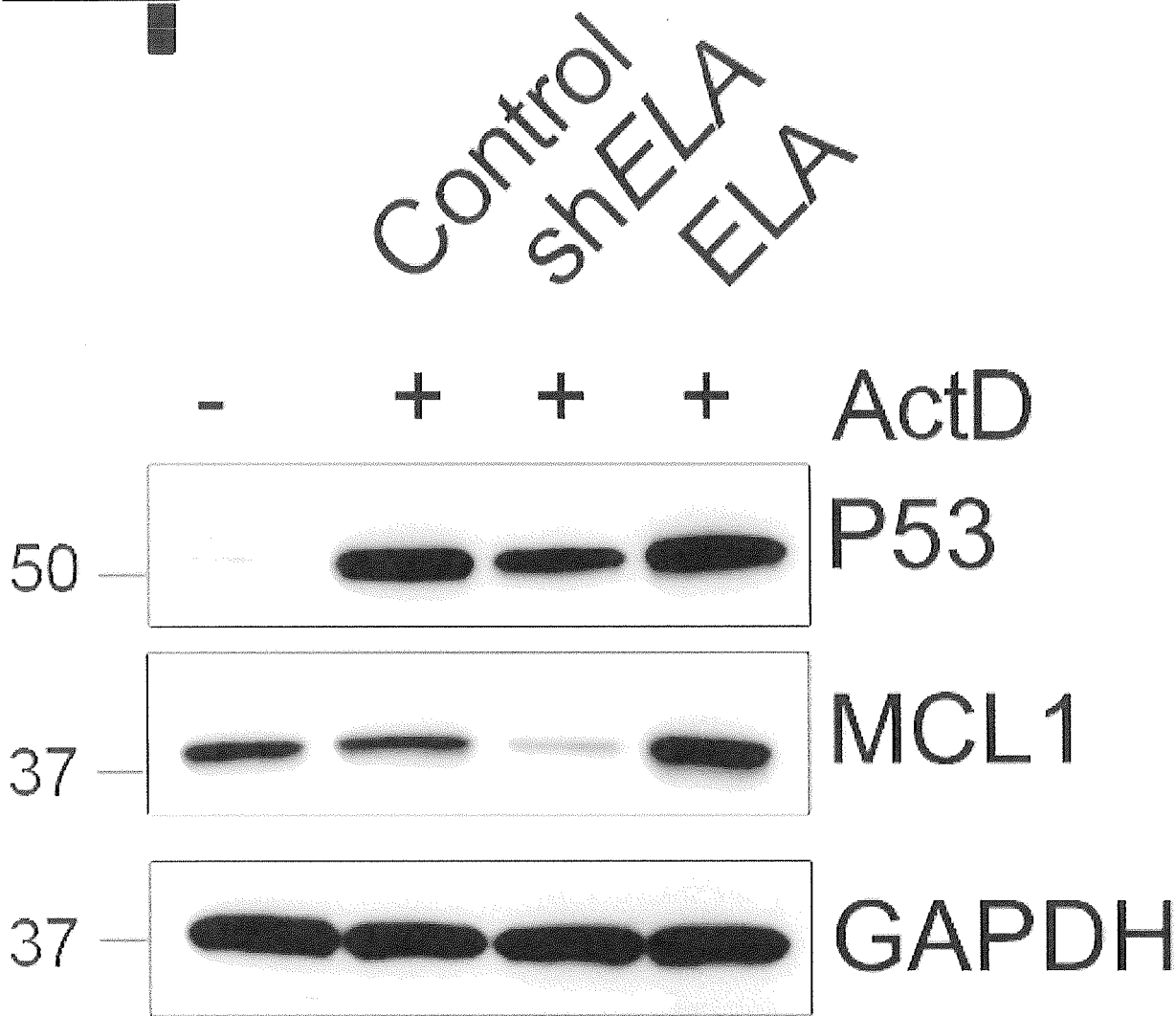
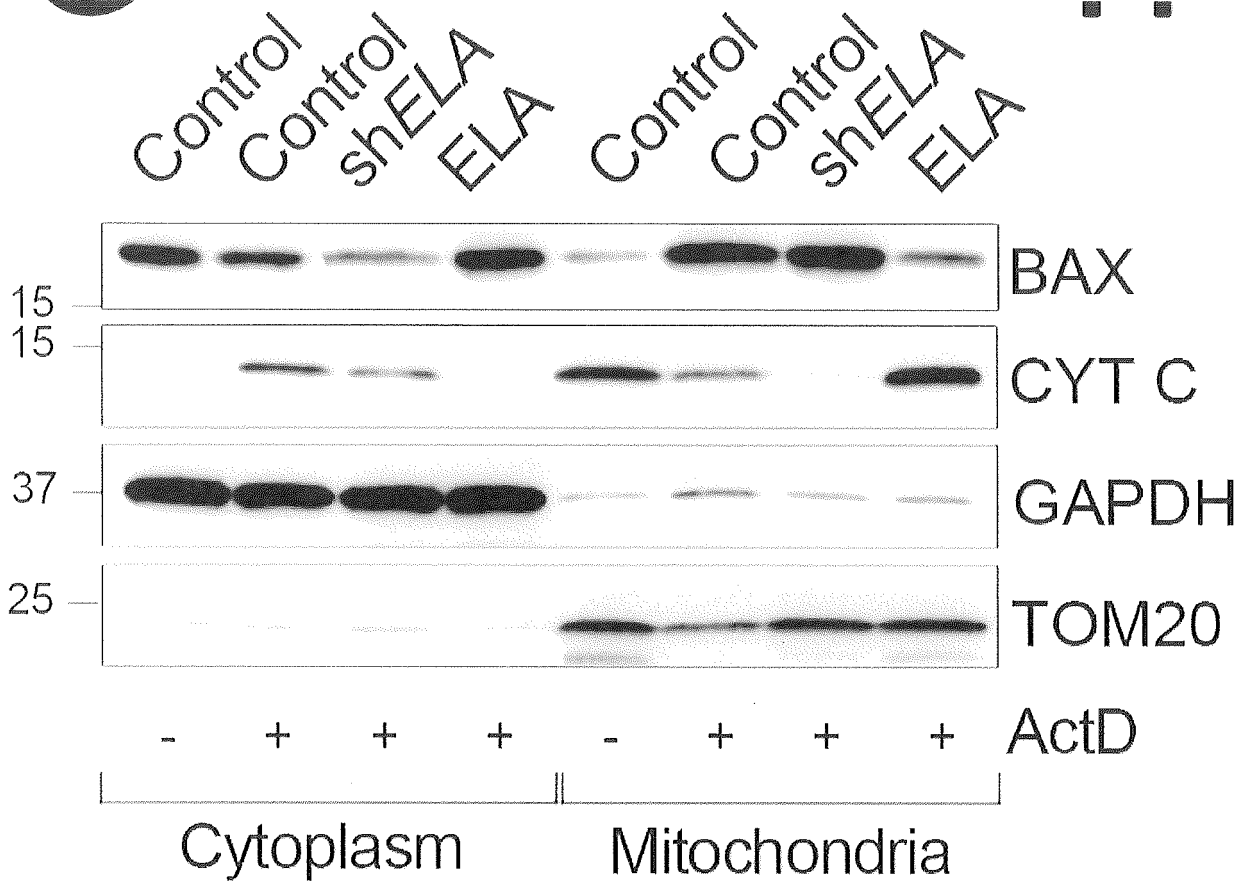


FIGURE 18G



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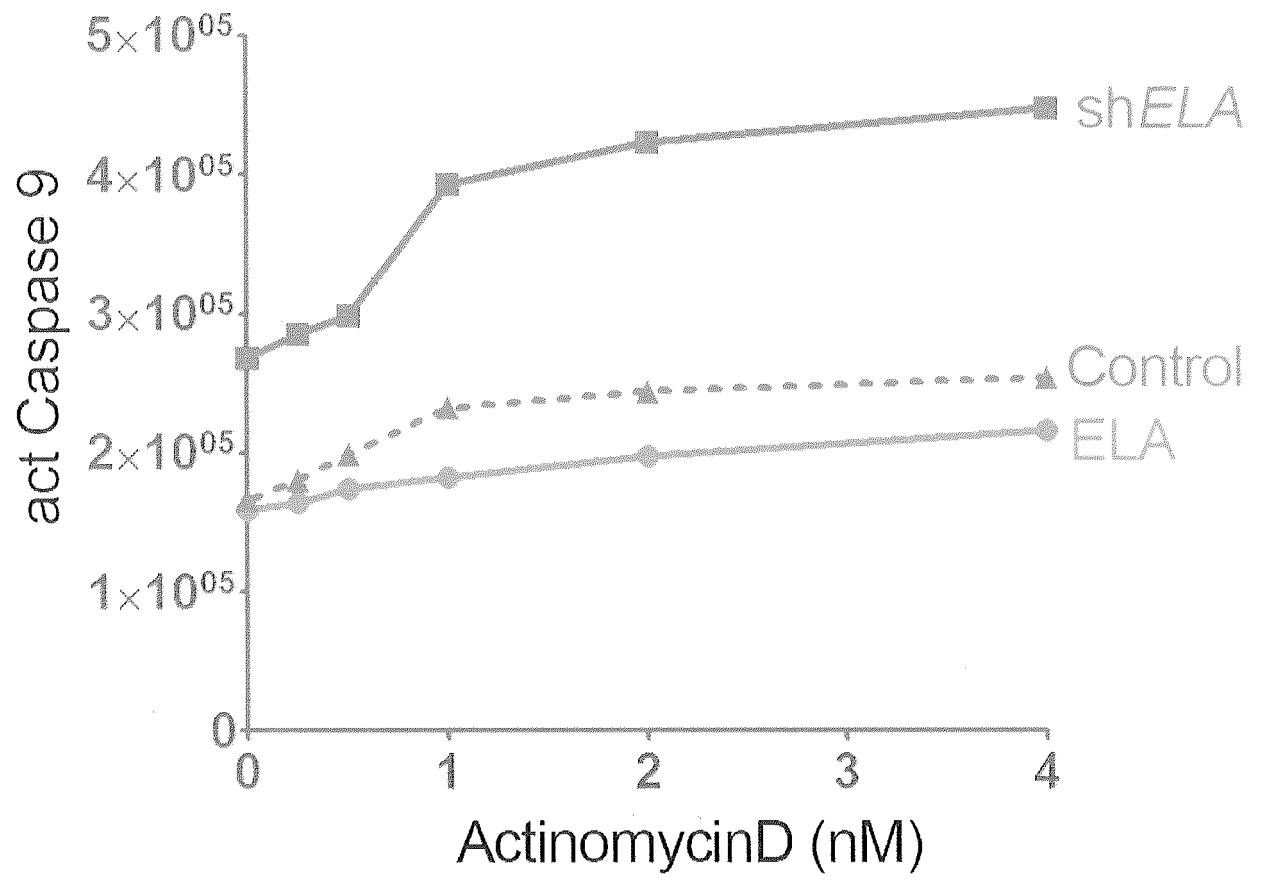
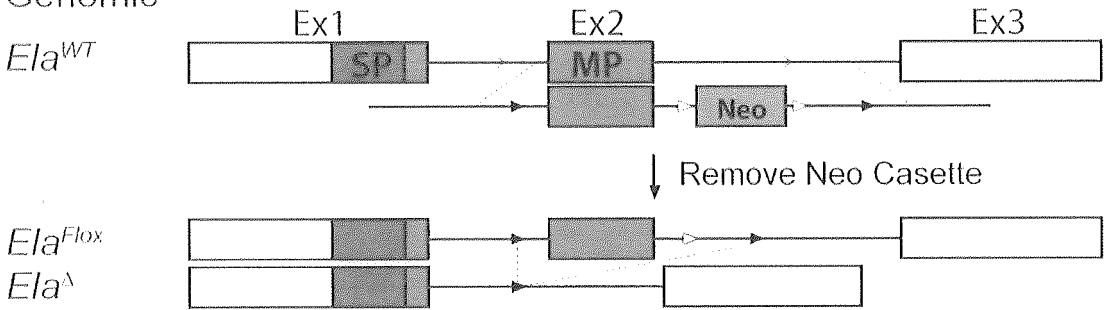
FIGURE 18H

FIGURE 19A

Genomic



Protein

Ela^{WT} MRFQPLFWVFFIFAMSLLFISEQKPVNFPRRRKLYRHNCFRRRCIPLHSRVFPF.
Ela^Δ MRFQPLFWVFFIFAMSLLFISEQKPENL.

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FIGURE 19B

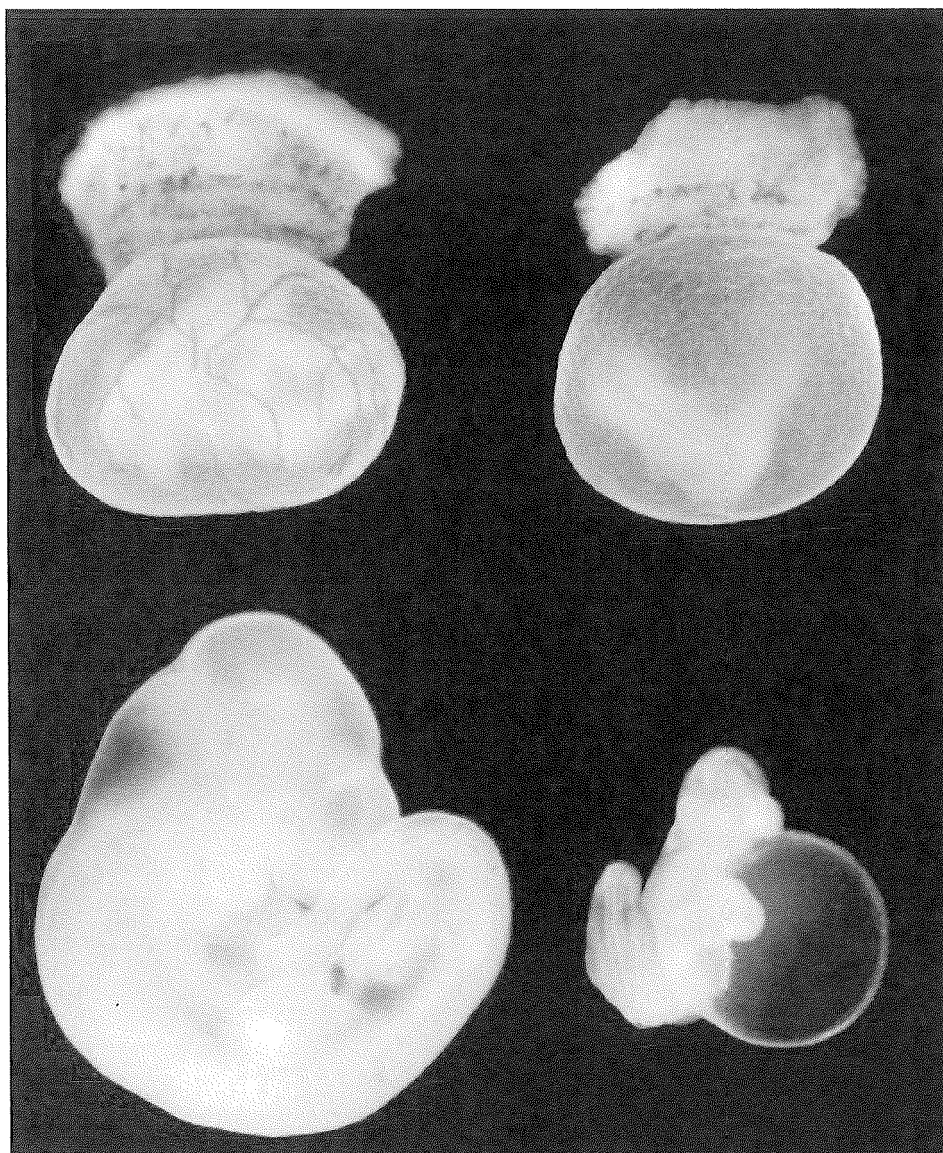
	♀ $Ela^{\Delta/+}$	x	♂ $Ela^{\Delta/+}$	
		$Ela^{+/+}$	$Ela^{\Delta/+}$	$Ela^{\Delta/\Delta}$
Weaning	31	65	18	
$Ela^{\Delta/\Delta}$ underrepresented ($\chi^2 = 0.074$)				

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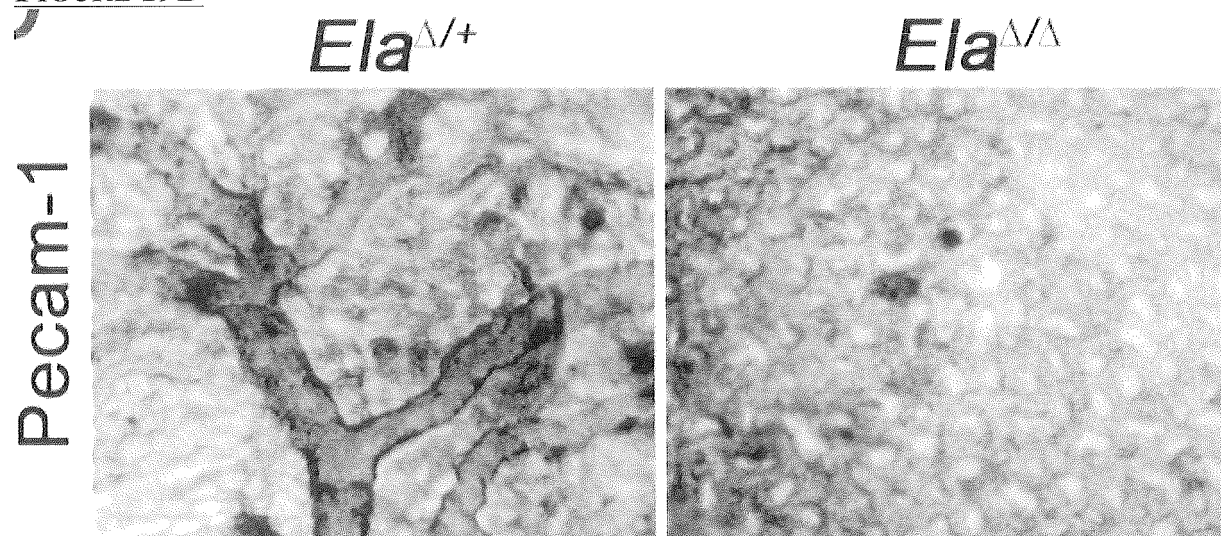
FIGURE 19C

Ela^{Δ/+}

Ela^{Δ/Δ}

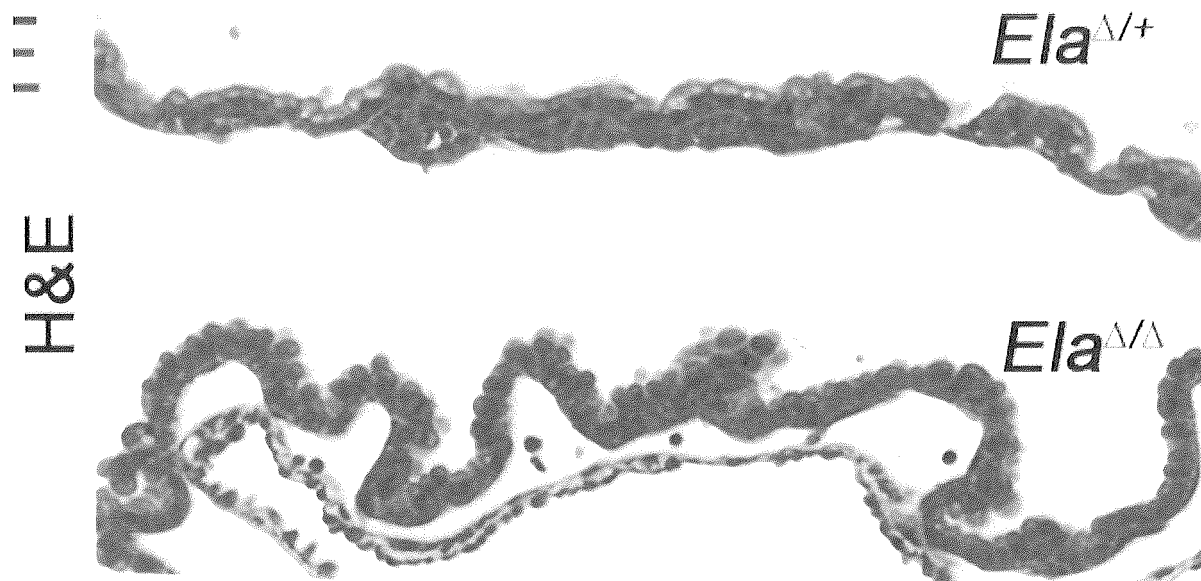


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FIGURE 19D

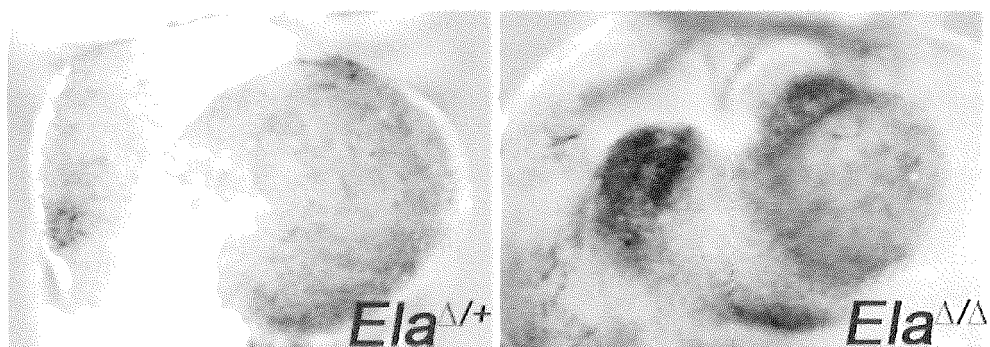
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FIGURE 19E



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FIGURE 19F



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FIGURE 19G

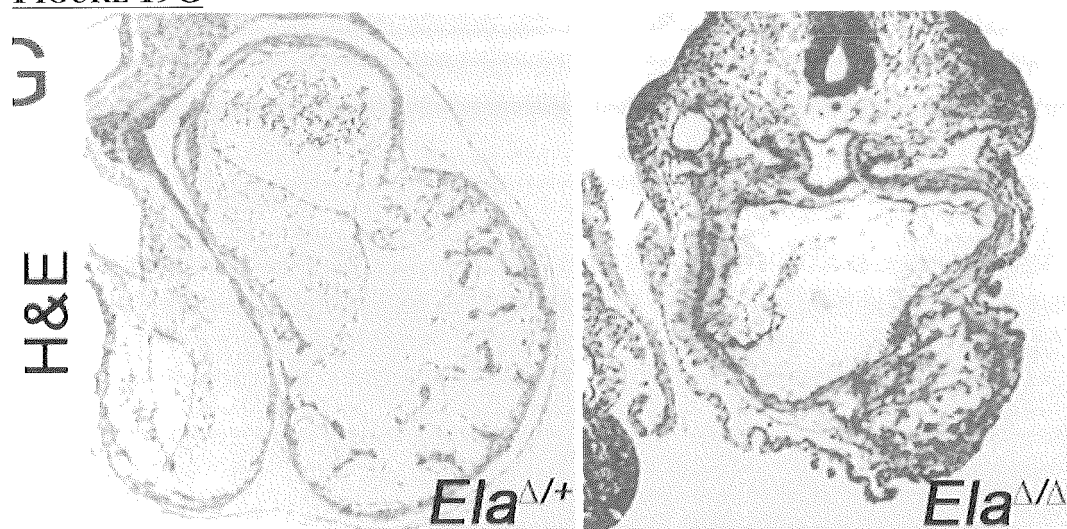
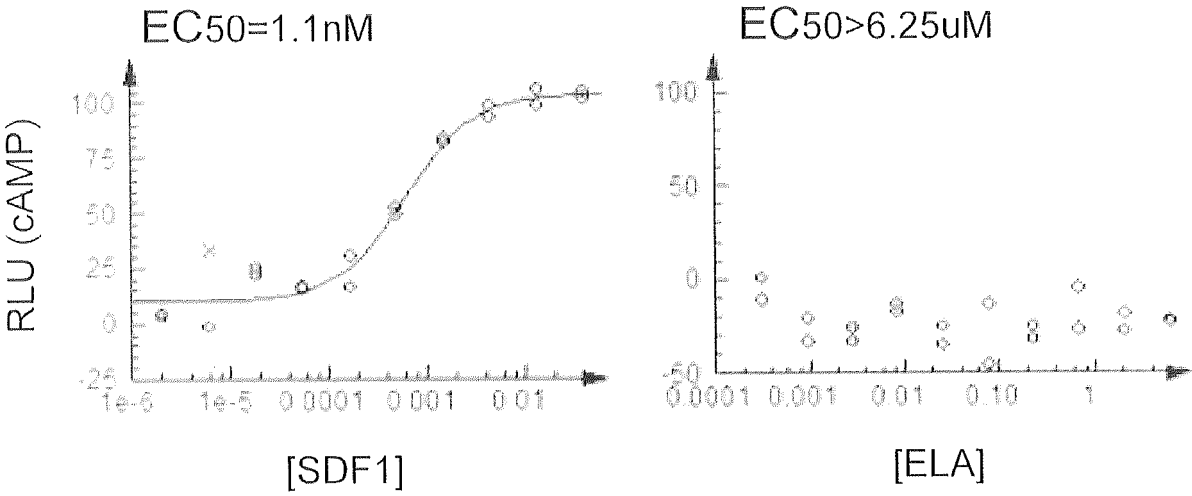


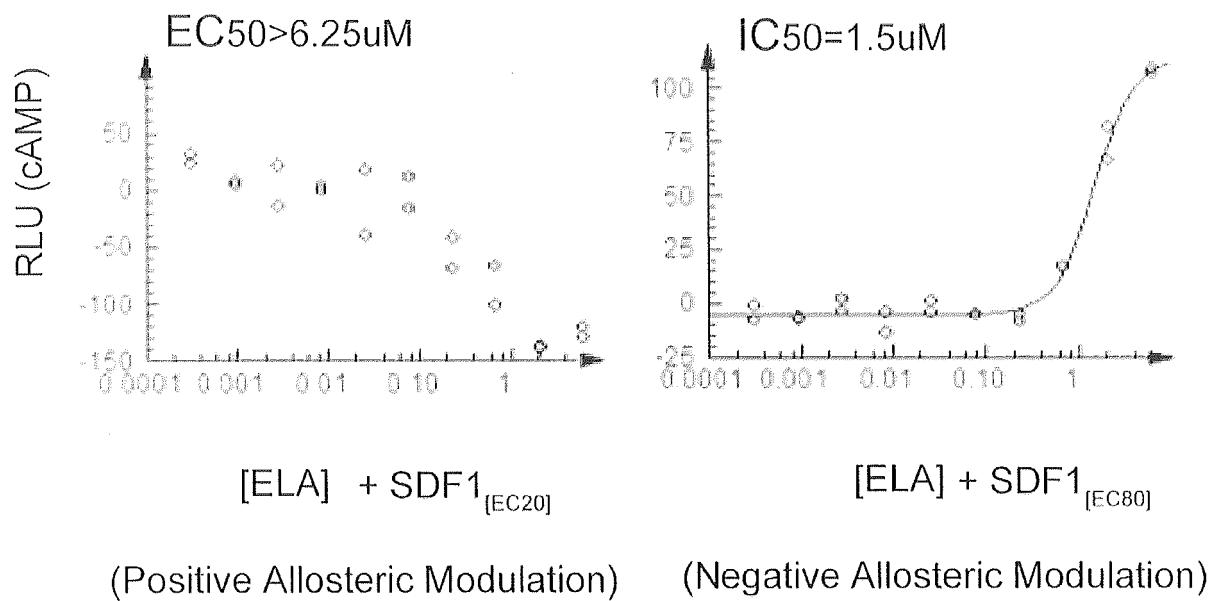
FIGURE 20A



FIGURE 20B



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FIGURE 20C

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FIGURE 20D

