
Inductive Amendment
1.
5'
3'
G
T
T
G
Desmin Promoter
Serum Albumin Gene
ROSA26
Promoter
ROSA26
Gene

Figure 1.

Inductive Amendment

2.

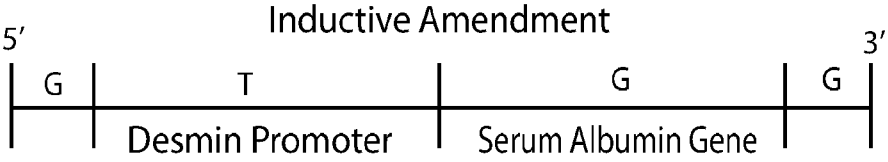


Figure 2.

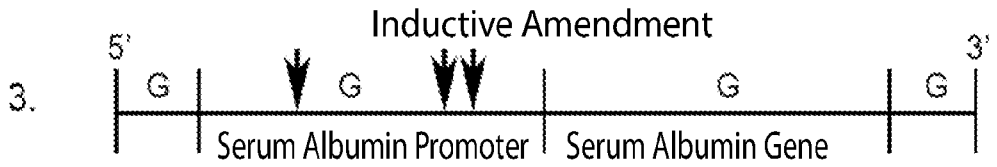

Inductive Amendment
3.
5'
3'
G
G
G
G
Serum Albumin Promoter
Serum Albumin Gene

Figure 3.

Inductive/Supressive Amendment

4.

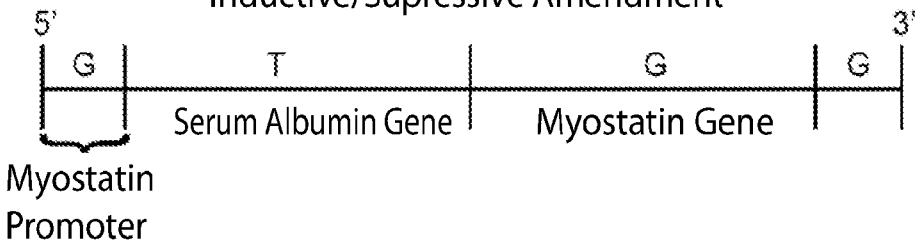


Figure 4.

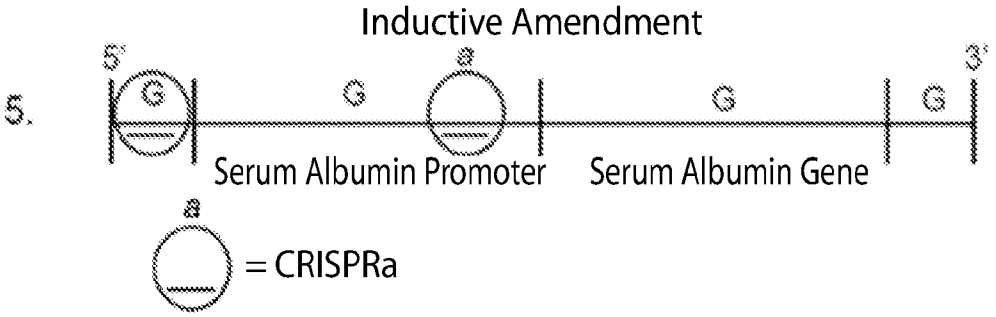

Inductive Amendment
5.
5'
G
G
G
G
3'
Serum Albumin Promoter
Serum Albumin Gene
= CRISPRa

Figure 5.

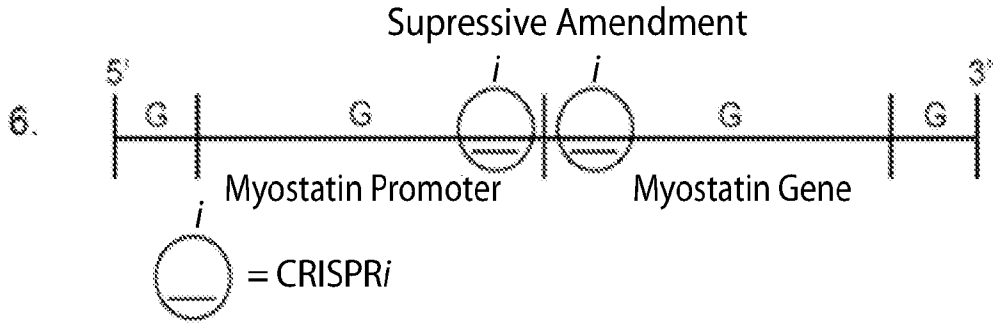

Supressive Amendment
6.
5'
3'
G
G
G
G
i
i
i
Myostatin Promoter
Myostatin Gene
= CRISPRi

Figure 6.

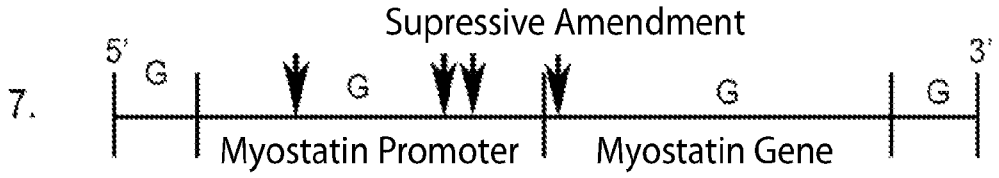

7.
Supressive Amendment
5'
3'
G
G
G
G
Myostatin Promoter
Myostatin Gene

Figure 7.

8.

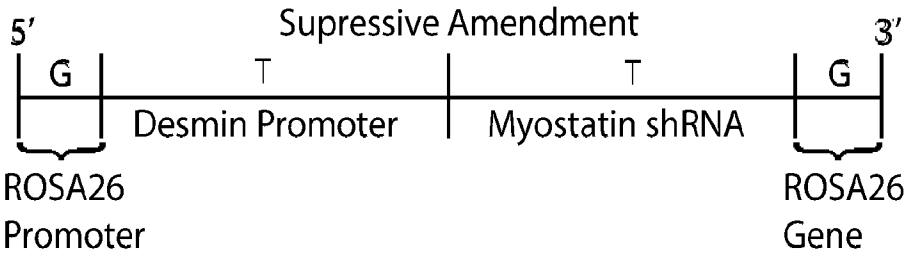

Supressive Amendment
5'
3'
G
T
T
G
Desmin Promoter
Myostatin shRNA
ROSA26
Promoter
ROSA26
Gene

Figure 8.

```
                                  1         10        20        30        40        50        60
                                  |         |         |         |         |         |         |
1. p16 (Mus musculus) SEQ ID NO 17  MESAADRLARAAAQGRVHDVRALLEAGVSPNAPNSFGRTPIQVMMMGNVHVAALLLLNYGADS
2. p16 (Sus scrofa) SEQ ID NO 19    MEPSADWLASAAARGREGEVRALLEAGALANAPNRYGRTPIQVMMMGSTRVAELLLLHGADP
3. p16 (Bos taurus) SEQ ID NO 18 (PREDICTED) METSADLLAAAAALGWAEEVRALLEAGASANAPNRYGRSAIQVMMMGSAEVAELLLLHGADP

                                      70        80        90        100       110       120
                                      |         |         |         |         |         |
1. p16 (Mus musculus) SEQ ID NO 17  NCEDPTTFSRPVHDAAREGFLDTLVVLHGSGARLDVRDAWGRLPLDLAQERGHQDIVRYLRS
2. p16 (Sus scrofa) SEQ ID NO 19    NCEDPATLTRPVHDAAREGFLDTLVVLHRAGARLDVRDAWGRLPVDLAEERGHRDVAGYLRA
3. p16 (Bos taurus) SEQ ID NO 18 (PREDICTED) NCADPATLTRPVHDAAREGFLDTLVALHRAGARLDVRDAWGRLPVDLAEERGHRDVARYLRA

                                      130       140       150       160       168
                                      |         |         |         |         |
1. p16 (Mus musculus) SEQ ID NO 17  AGCSLCSAGWSLCTAGNVAQTDGHSFSSSTPRALELRGQSQEQS
2. p16 (Sus scrofa) SEQ ID NO 19    ----------NAGRTEGGSHARSNSGEDPADISNLQNH
3. p16 (Bos taurus) SEQ ID NO 18 (PREDICTED) ----------AAEDTEGGSHASADSAEGPADSSDLKKD
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Figure 9a.

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                                1               10              20              30              40              50
                                |               |               |               |               |               |
1. p15 (Gallus gallus) SEQ ID NO 20  MAQRAASTAADELANAAARGDLLRVKELLDGAADPNAVNSFGRTPIQVMMLGSPRVA
2. p15 (Mus Musculus) SEQ ID NO 21     MLGGSSDAGLATAAARGQVETVRQLLEAGADPNALNRFGRRPIQVMMMGSAQVA
3. p15 (Sus scrofa) SEQ ID NO 22       MLSGGGGDAGLANAAARGQVETVRQLLEAGADPNGLNHFGRRPIQVMMMGSARVA
4. p15 (Bos Taurus) SEQ ID NO 23       MLSGGGGDADLANAAARGQVEAVRQLLEAGVDPNRLNRFGRRPIQVMMMGSARVA
5. p15 (Oncorhynchus mykiss) SEQ ID NO 24  MTMPLEDDLASAAATGNTNRVKILLQSGVDVNGVNCFGRTPLQVMMMGGSPVA
6. p15 (Oreochromis niloticus) SEQ ID NO 25 (PREDICTED)  MTLQDELTTAAAKGNTAAVKALLDRGAQVNGTNSFGRTALQVMMMGSTSVA

                                60              70              80              90              100             110
                                |               |               |               |               |               |
1. p15 (Gallus gallus) SEQ ID NO 20  EILLLQRGADPNRPDPRTGCRPAHDAARAGFLDTLAALHRAGARLDLPDGRGLPIDV
2. p15 (Mus Musculus) SEQ ID NO 21   EILLLLHGAEPNCADPATLTRPVHDAAREGFLDTLVVLHRAGARLDVCDAWGRLPVDL
3. p15 (Sus scrofa) SEQ ID NO 22     EILLLLHGADPNCADPATLTRPVHDAAREGFLDTLVALRRAGARLDVQDAWGRLPVDL
4. p15 (Bos taurus) SEQ ID NO 23     EILLLLHGADPNCADPATLTRPVHDAAREGFLDTLVALHRAGGRLDVRDAWGRLPVDL
5. p15 (Oncorhynchus mykiss) SEQ ID NO 24  QLLLMQGADPNIADRHTGTTPLHDAARMGFLDTVEILVQFLADPNSRDNRNCRPIDL
6. p15 (Oreochromis niloticus) SEQ ID NO 25 (PREDICTED)  QLLLEHGANPNVGDSSTGASPLHDAARTGFVDTVHLLVQHHADPQARDKLNRLPVDL

                                120             130     139
                                |               |       |
1. p15 (Gallus gallus) SEQ ID NO 20  AAGGPHGPVGCYLRRLPALPRAPLP
2. p15 (Mus Musculus) SEQ ID NO 21   AEEQGHRDIARYLHAATG------D
3. p15 (Sus scrofa) SEQ ID NO 22     AEERGHRDVARFLRAAAG------D
4. p15 (Bos taurus) SEQ ID NO 23     AEERGHRDVARYLRATAG------D
5. p15 (Oncorhynchus mykiss) SEQ ID NO 24  AIESGHNNVVAFLKAL
6. p15 (Oreochromis niloticus) SEQ ID NO 25 (PREDICTED)  ARQHGHGDVVDFLESLQN------P
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Figure 9b.