

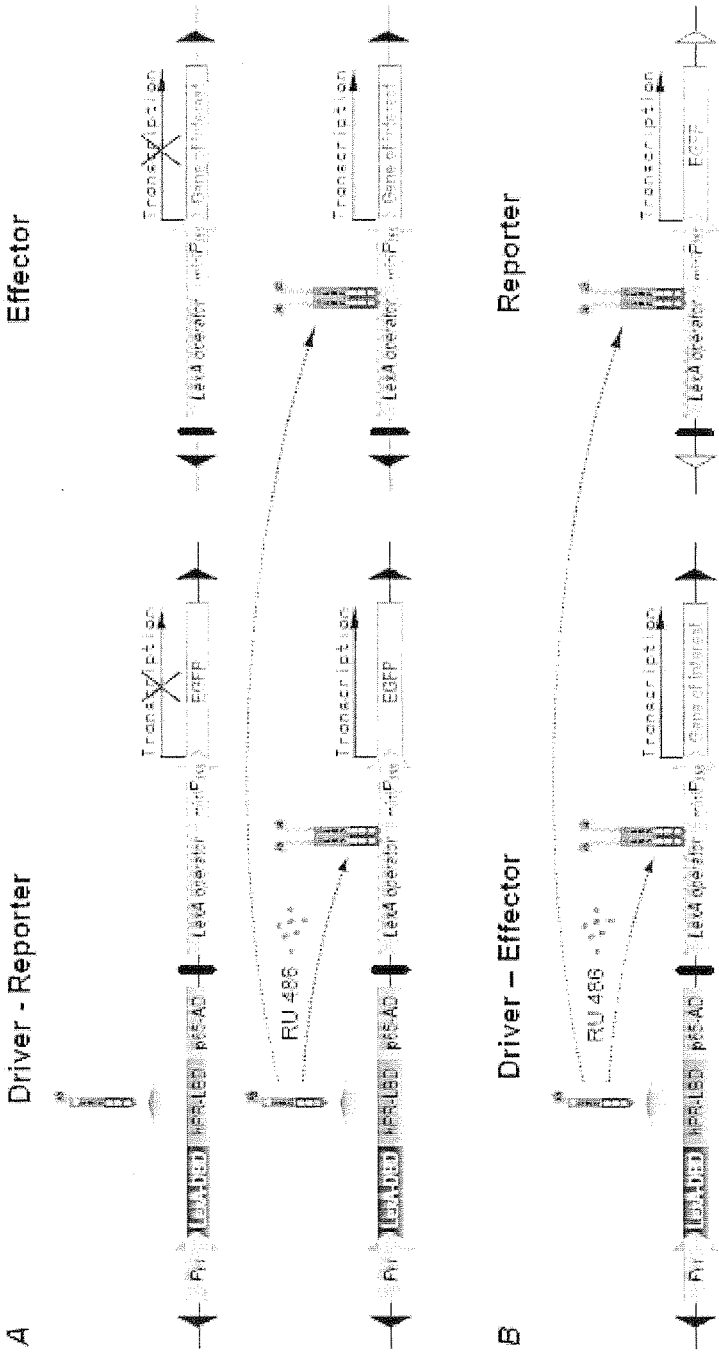


FIGURE 1

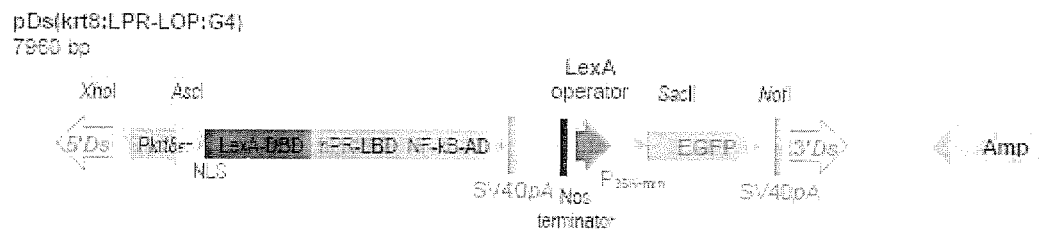


FIGURE 2

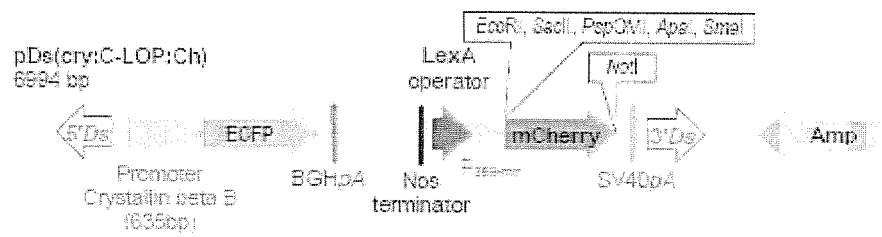


FIGURE 3

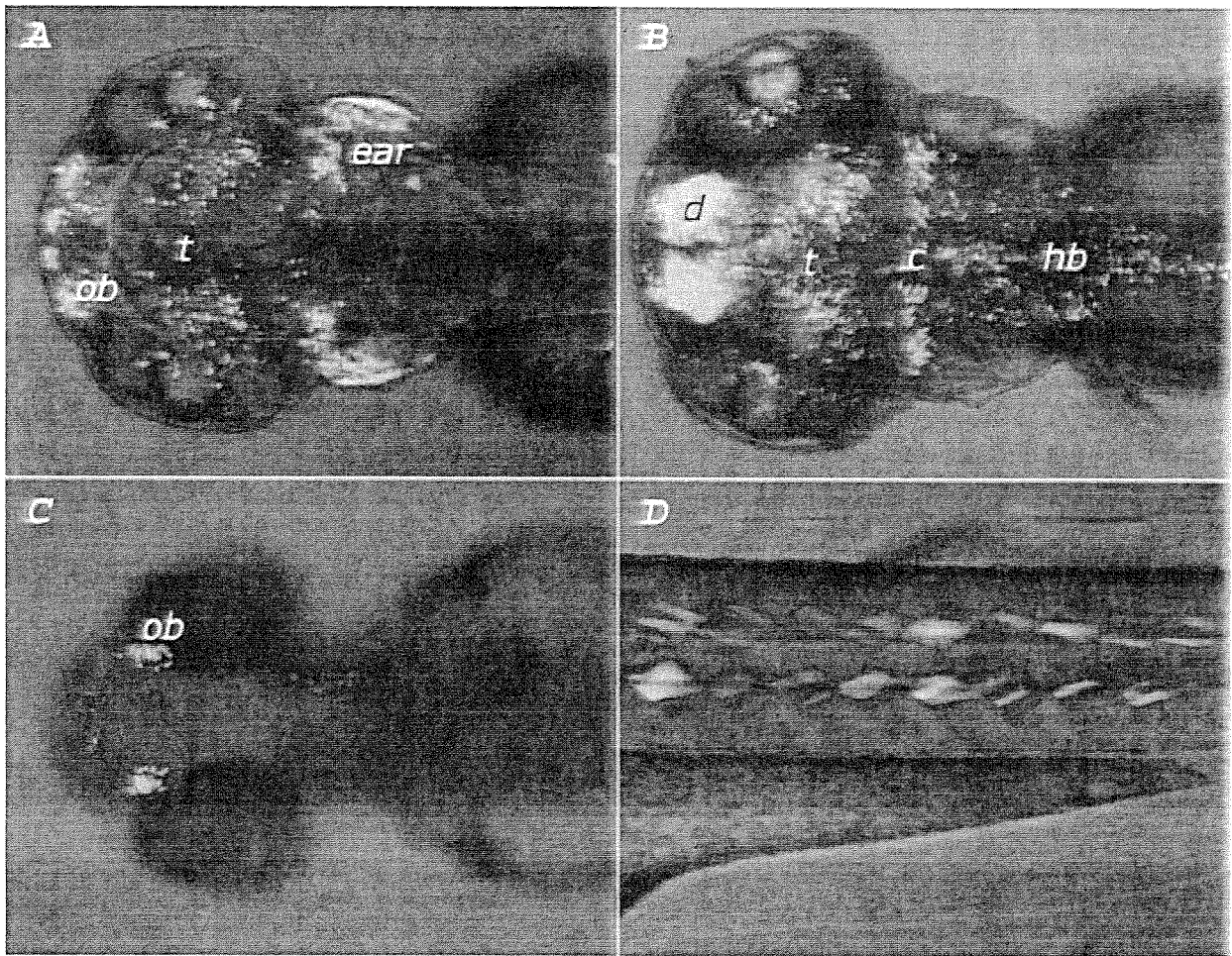


FIGURE 4

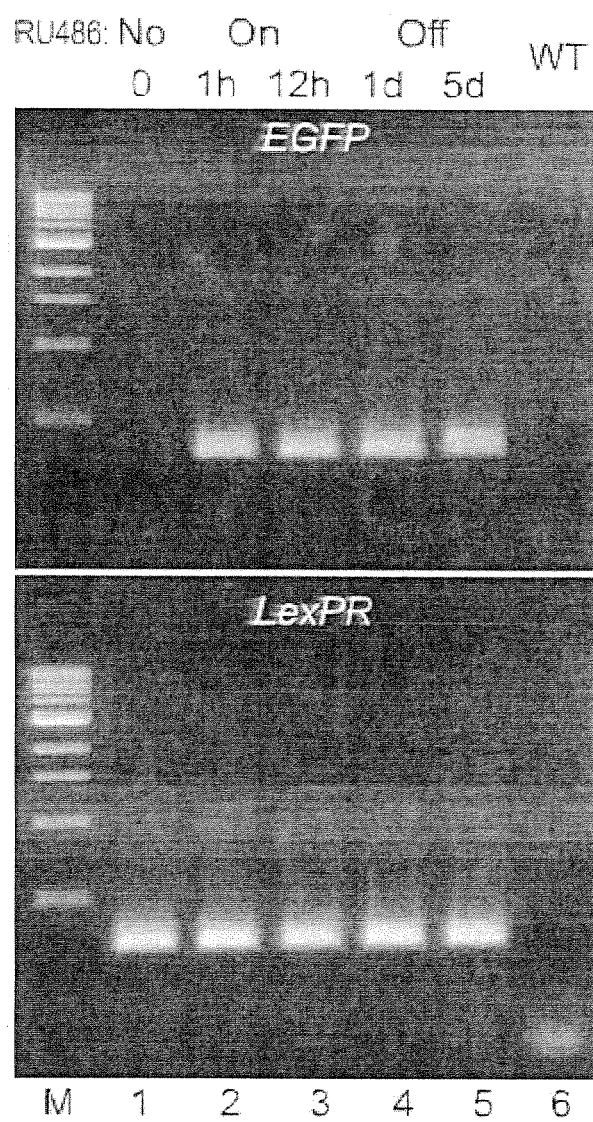


FIGURE 5

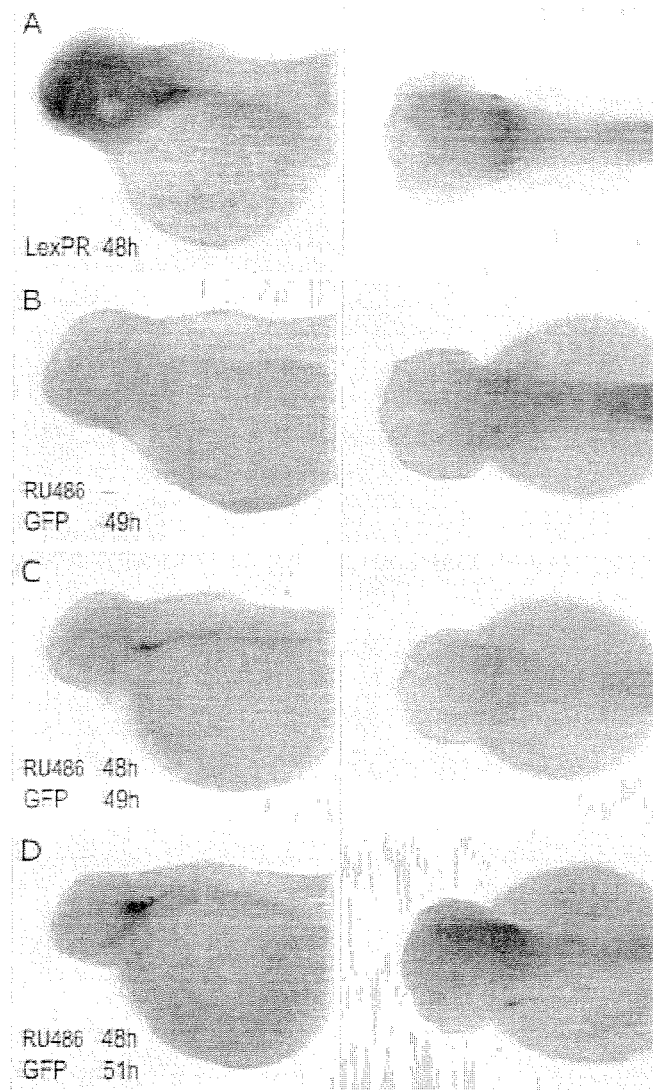


FIGURE 6

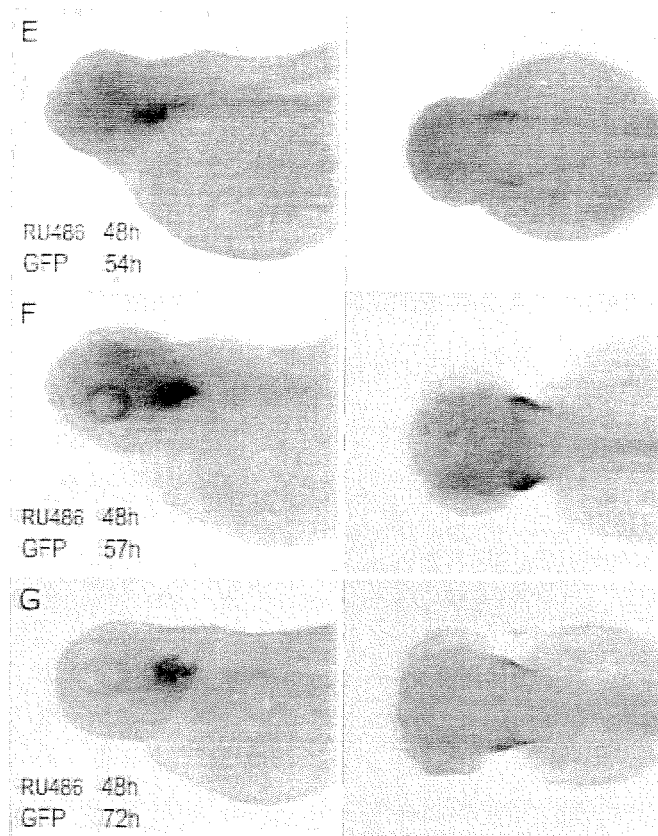


FIGURE 6 (CON'T)

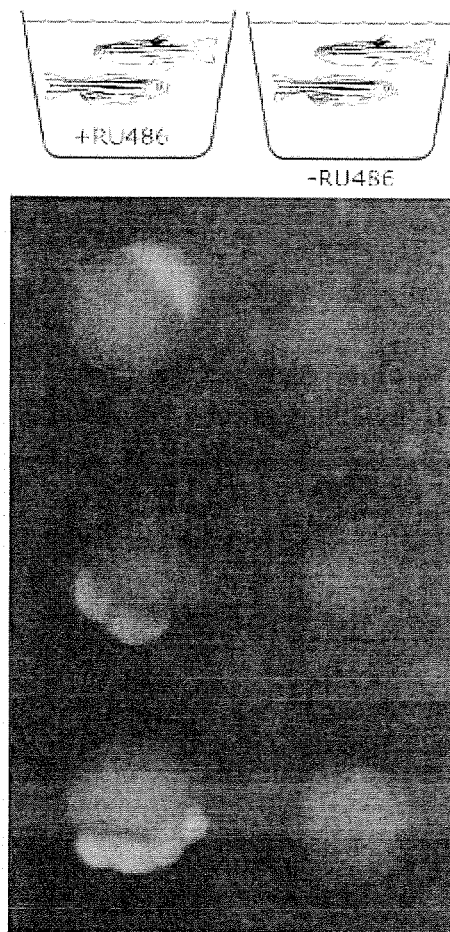


FIGURE 7

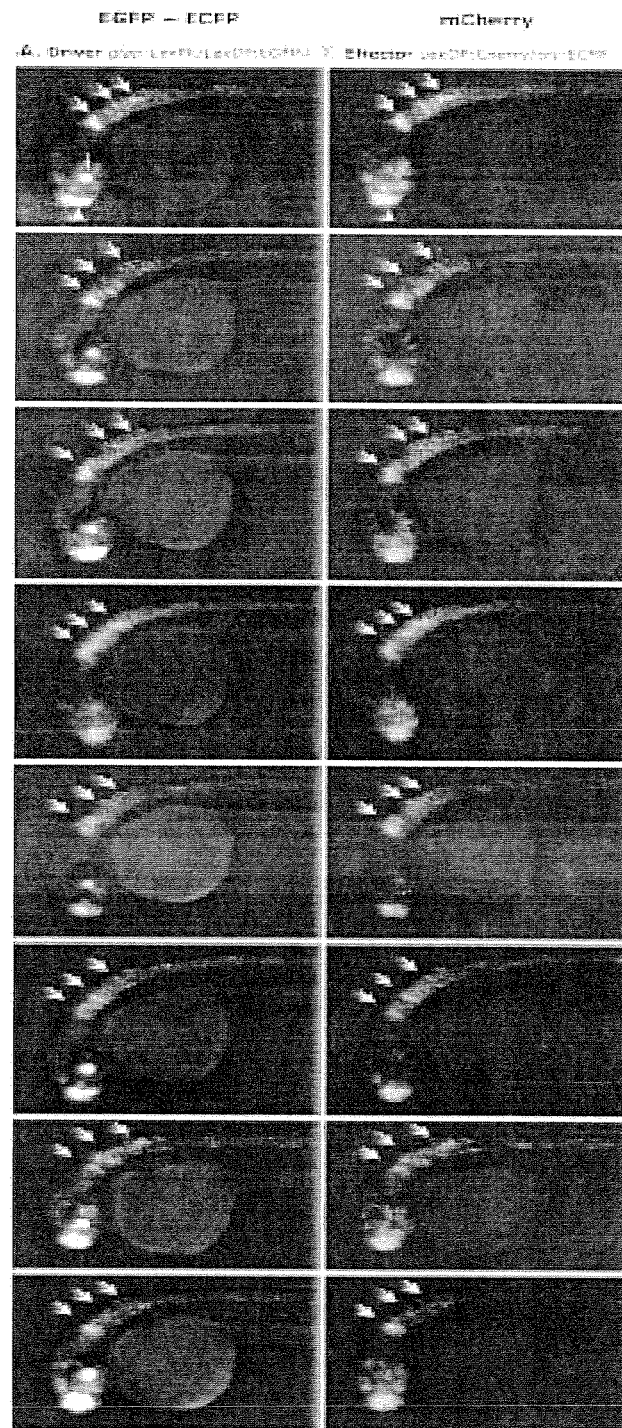


FIGURE 8A

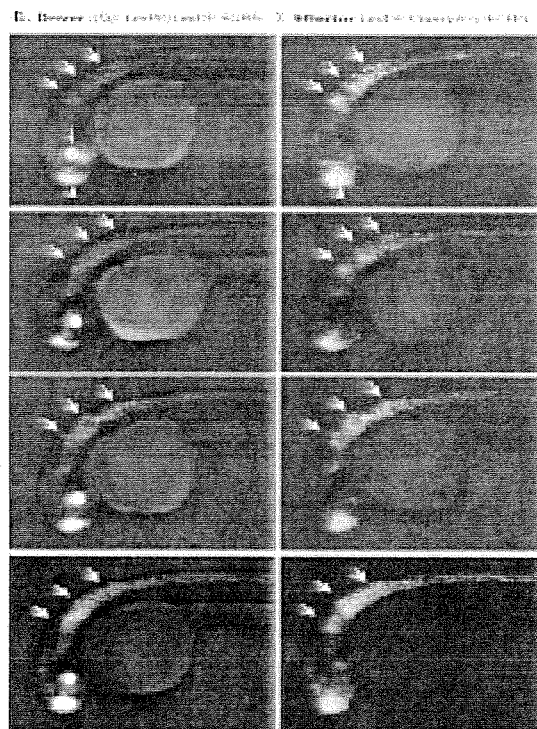


FIGURE 8B

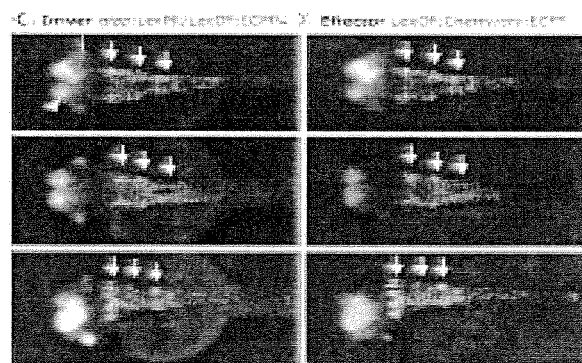


FIGURE 8C

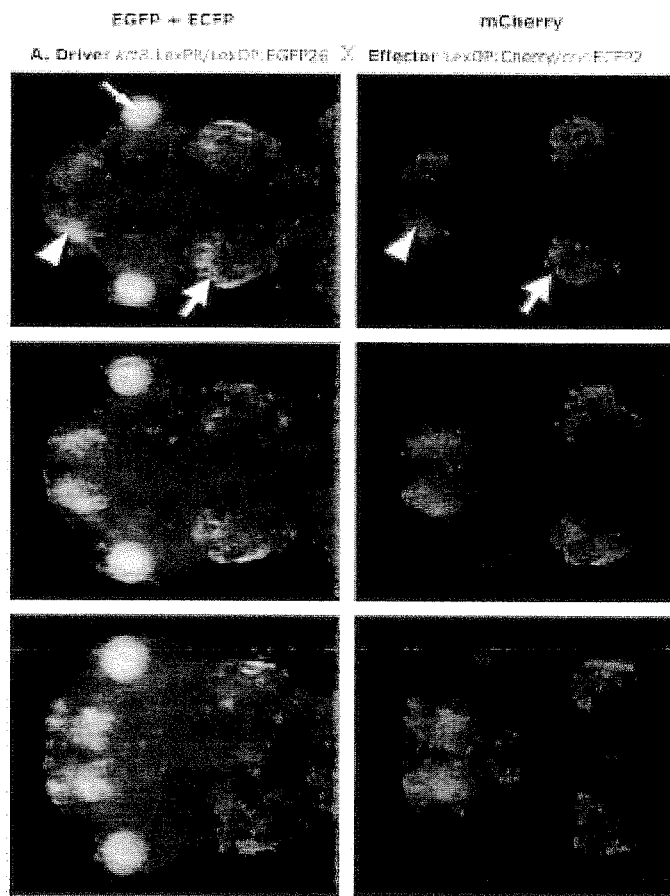


FIGURE 9A

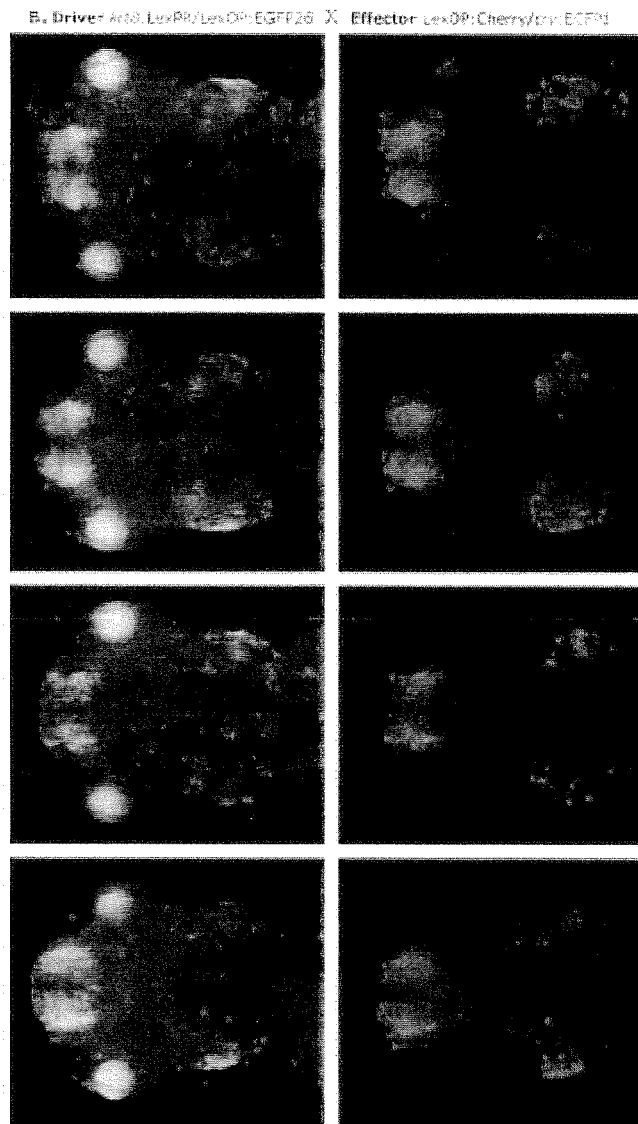


FIGURE 9B

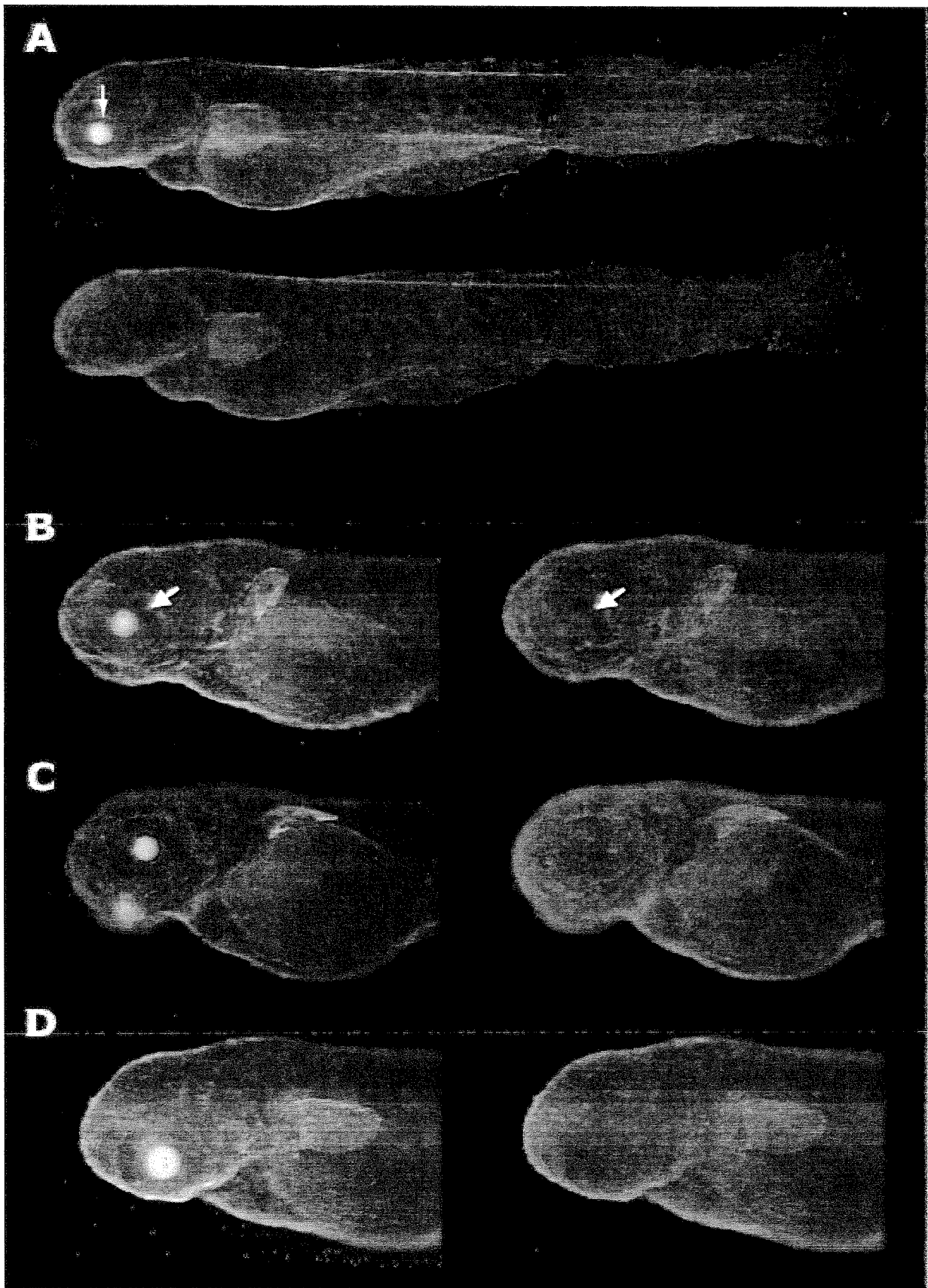


FIGURE 10

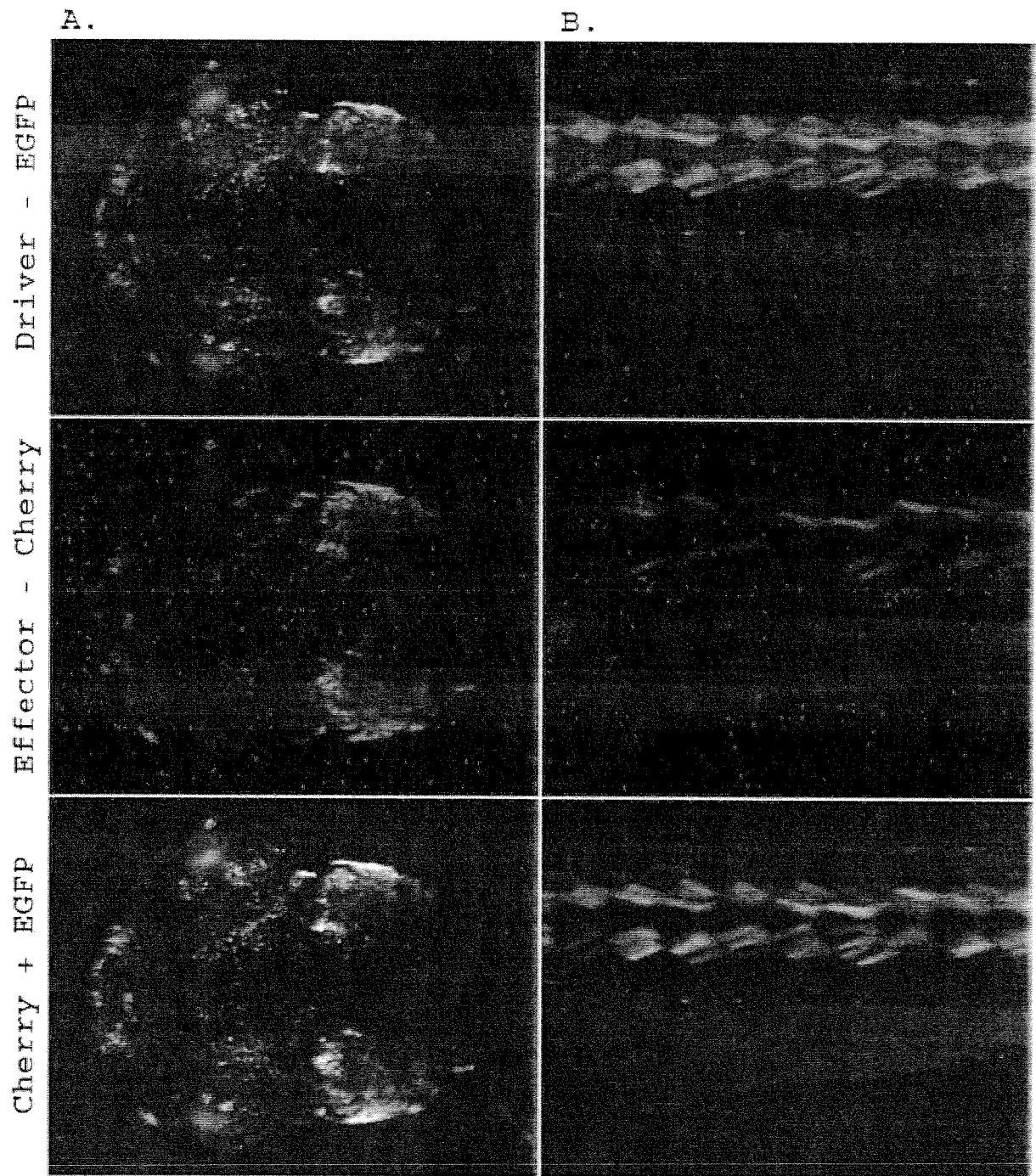


FIGURE 11

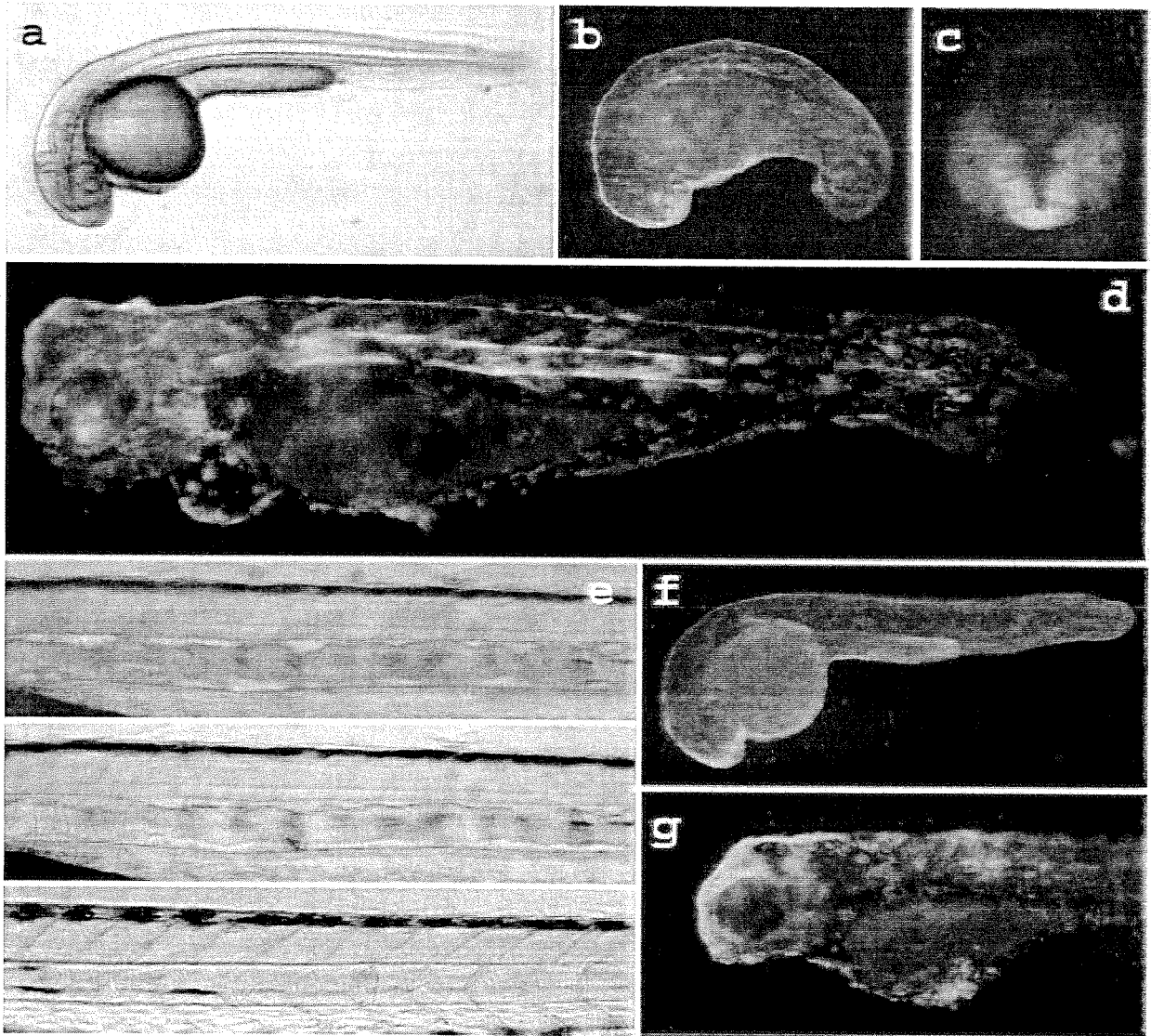


FIGURE 12

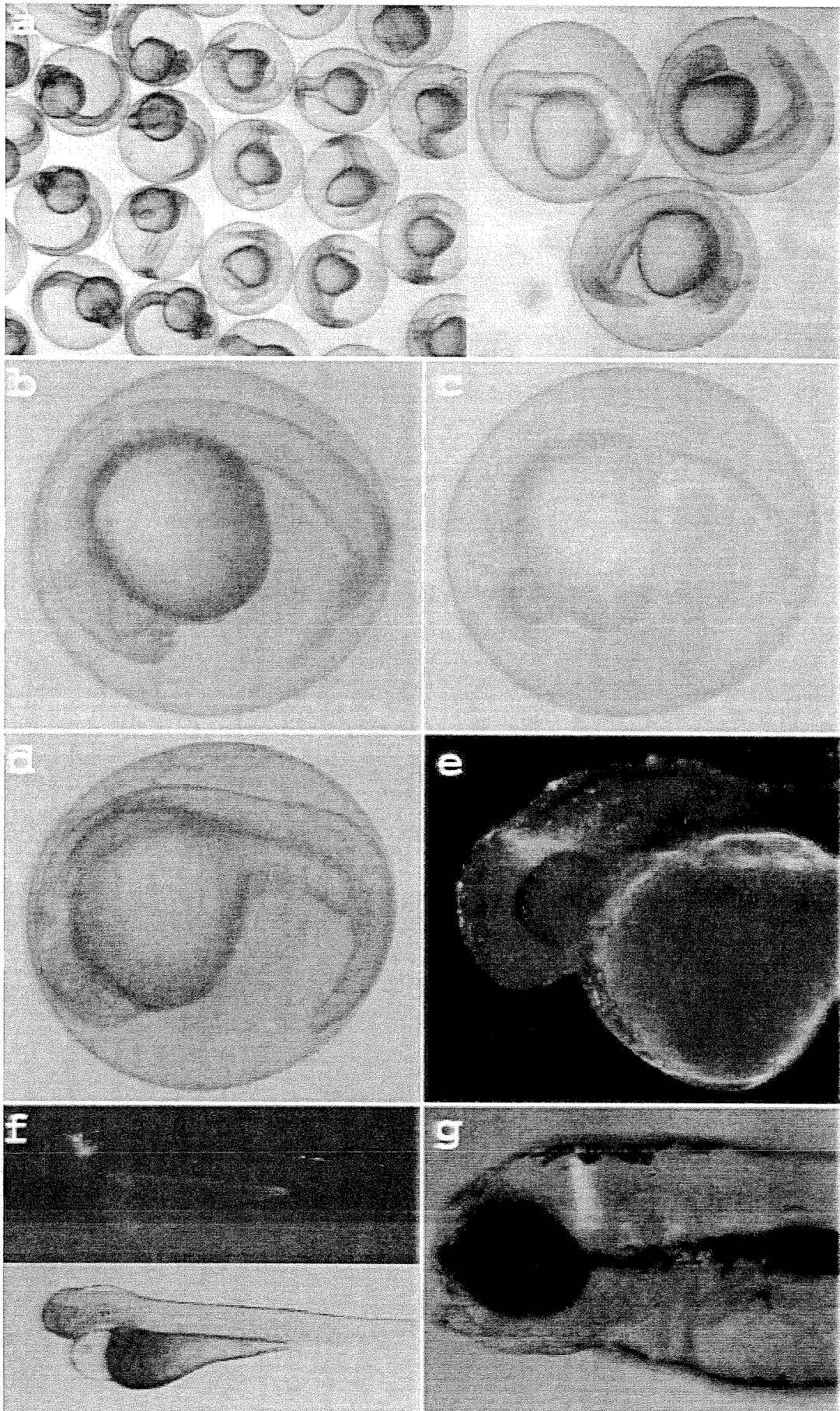


FIGURE 13

SEQUENCE LISTING

<110> Temasek Life Sciences Laboratory Limited

<120> LexA Based Chemical Inducible Gene Expression System for Use in Transgenic Animals

<130> FP4259

<150> US 60/948,250

<151> 2007-07-06

<160> 48

<170> PatentIn version 3.3

<210> 1

<211> 662

<212> DNA

<213> Artificial

<220>

<223> pBluescript SK(+) vector DNA

<400> 1

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<210> 2

<211> 236

<212> DNA

<213> Zea mays

<400> 2

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atatacaaaa cggtaaacgg aaacggaaac ggtagagcta gtttcccgac cgtttcaccc      180
ggatcccgtt tttaatcggg atgatcccgt ttcgttaccc tatTTTctaa ttcggc      236

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<210> 3

<211> 24
 <212> DNA
 <213> artificial

<220>
 <223> synthetic polylinker sequence

<400> 3
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<210> 4
 <211> 565
 <212> DNA
 <213> Danio rerio

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 agtgaatgga aaaaagcctt tcattaatgt gaaagttgct gcgcgccccca cccagataaa 120
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<220>
 <223> Synthetic filler DNA sequence

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<210> 6
 <211> 297
 <212> DNA
 <213> Escherichia coli

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<212> DNA
<213> Simian virus 40

<400> 7
atggcaccga agaagaagag gaag 24

<210> 8
<211> 24
<212> DNA
<213> artificial

<220>
<223> Synthetic filler DNA sequence

<400> 8
accgaattcc cgggtgtcga ccag 24

<210> 9
<211> 1641
<212> DNA
<213> Homo sapiens

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ctgctgagtc agatcagctc c 1641

<210> 10
<211> 244
<212> DNA
<213> artificial

<220>
<223> simian virus 40 and plasmid pEGFPN1 DNA

<400> 10
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gcttttaaaaa acctcccaca cctccccctg aacctgaaac ataaaatgaa tgcaattgtt 120
gttgtaact tgtttattgc agcttataat ggttacaaat aaagcaatag catcacaaat 180
ttcacaaata aagcattttt ttcactgcat tctagtgtg gtttgtccaa actcatcaat 240
gtat 244

<210> 11
<211> 51
<212> DNA
<213> Simian virus 40

<400> 11
ataaagcaa tagcatcaca aatttcacaa ataaagcatt tttttcactg c 51

<210> 12
<211> 30
<212> DNA
<213> artificial

<220>
<223> synthetic filler DNA sequence

<400> 12
cttaagttaa aacgcgttaa caattggaaa 30

<210> 13
<211> 618
<212> DNA
<213> artificial

<220>
<223> Sequence derived from pER10 plasmid

<400> 13
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gttaagcatg taataattaa catgtaatgc atgacgttat ttatgagatg ggtttttatg 120
attagagtcc cgcaattata catttaatac gcgatagaaa acaaaatata gcgcgcaaac 180

taggataaat tatcgcgcg ggtgtcatct atgttactag atcgggaatt gatccccct 240
 cgacagcttg catgccgctt gggctgcagg tcgaggctaa aaaactaatc gcattatcat 300
 cccctcgacg tactgtacat ataaccactg gttttatata cagcagtact gtacatataa 360
 ccactggttt tatatacagc agtcgacgta ctgtacatat aaccactggg tttatataca 420
 gcagtactgt acatataacc actgggtttta tatacagcag tcgaggtaag attagatatg 480
 gatatgtata tggatatgta tatgggtgga atgccatgta atatgctcga ctctaggatc 540
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 ctagtcgact ctagcctc 618

<210> 14
 <211> 247
 <212> DNA
 <213> Agrobacterium tumefaciens

<400> 14
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 attagagtcc cgcaattata catttaatac gcgatagaaa acaaaatata gcgcgcaaac 180
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 cgacagc 247

<210> 15
 <211> 152
 <212> DNA
 <213> Escherichia coli

<400> 15
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 acatataacc actgggtttta tatacagcag tc 152

<210> 16
 <211> 60
 <212> DNA
 <213> Cauliflower mosaic virus

<400> 16
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<210> 17
 <211> 1012
 <212> DNA
 <213> artificial

<220>
 <223> Sequence derived from pEGFPN1

<400> 17
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 agggcgagga gctgttcacc ggggtggtgc ccatcctggg cgagctggac ggcgacgtaa 120

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acggccacaa gttcagcgtg tccggcgagg gcgagggcga tgccacctac ggcaagctga      180
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ccctgacctt cggcgtgcag tgcttcagcc gctaccccga ccacatgaag cagcacgact      300
tcttcaagtc cgccatgccc gaaggctacg tccaggagcg caccatcttc ttcaaggacg      360
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<210> 18
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 <212> DNA
 <213> artificial

<220>
 <223> Coding sequence for EGFP derived from pEGFPN1

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<400> 18
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<210> 19
 <211> 374
 <212> DNA
 <213> Zea mays

<400> 19
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 cgttttcatc ccta 374

<210> 20
 <211> 2210
 <212> DNA
 <213> artificial

<220>
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<210> 21
 <211> 25
 <212> DNA
 <213> artificial

<220>
 <223> PCR primer

<400> 21 25
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<210> 22
 <211> 45
 <212> DNA
 <213> artificial

<220>
 <223> PCR primer

<400> 22 45
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<210> 23
 <211> 60
 <212> DNA
 <213> artificial

<220>
 <223> PCR primer

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<210> 24

<211> 30
 <212> DNA
 <213> artificial

<220>
 <223> PCR primer

<400> 24 30
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<210> 25
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 <212> DNA
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<220>
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<210> 26
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<220>
 <223> PCR primer

<400> 26 38
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<210> 27
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 <213> Artificial

<220>
 <223> PCR primer

<400> 27 36
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<210> 28
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<220>
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<220>
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 <223> synthetic filler DNA sequence

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<210> 32
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 <213> Danio rerio

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tctgtatttt tgctagggga tcc 143

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caagtaa 727

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<400> 36
agcggccaaa cccgc 15

<210> 37
<211> 266
<212> DNA
<213> artificial

<220>
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pGene/V5-HisA

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 tctgaggcgg aaagaaccag cacgtg 266

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<220>
 <223> Synthetic filler DNA sequence

<400> 38
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<210> 39
 <211> 31
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<220>
 <223> Synthetic filler DNA sequence

<400> 39
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<210> 40
 <211> 733
 <212> DNA
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<220>
 <223> Sequence coding mCherry fluorescence protein derived from PCS2+mCherry

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<220>
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<400> 42
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<210> 43
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<400> 43
 agcccttcca aaggaattgt 20

<210> 44
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<220>
 <223> oligonucleotide primer

<400> 44
 acgtaaacgg ccacaagttc 20

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<220>
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<400> 45
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