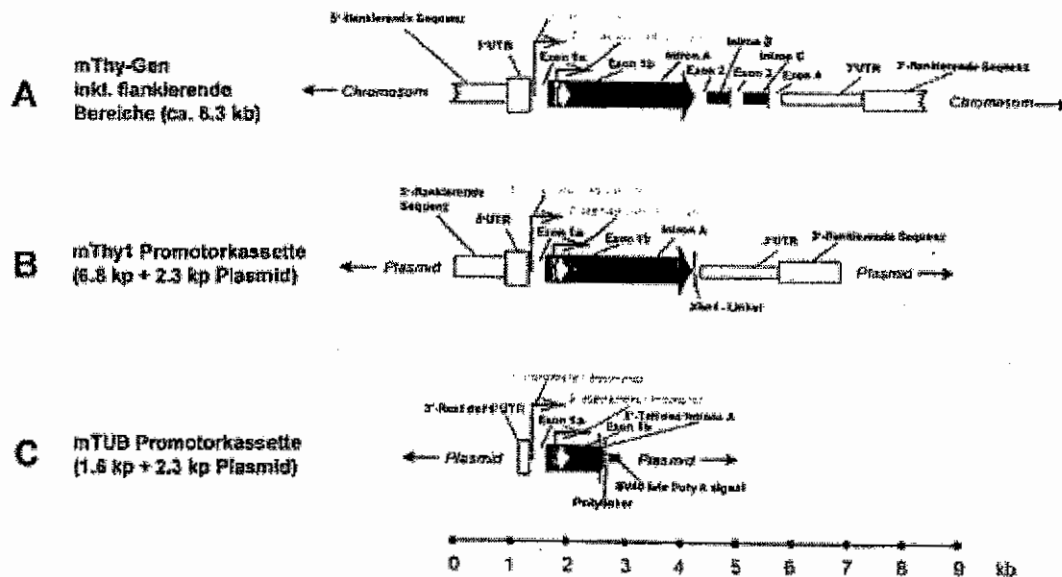


Fig. 1: Correlation Diagram with Thy1-Gene Sequence (A) / mThy1 Promoter Cassette (B) / mTUB Promoter Cassette (C).



[Key to Fig. 1:]

A mThy-Gene incl. flanking regions (about 8.3 kb)

B mThy1 Promoter cassette (6.8 kp + 2.3 kp of plasmid)

C mTUB Promoter cassette (1.6 kp + 2.3 kp of plasmid)

5'-flankierende Sequenz = 5'-Flanking Sequence

Chromosom = Chromosome

3'-flankierende Sequenz = 3'-Flanking Sequence

3'-Rest der 5'UTR = 3'-Radical of the 5'UTR

5'-Teil des Introns A = 5'-Part of Intron A

Fig. 2: Construct for Microinjection before Linearization

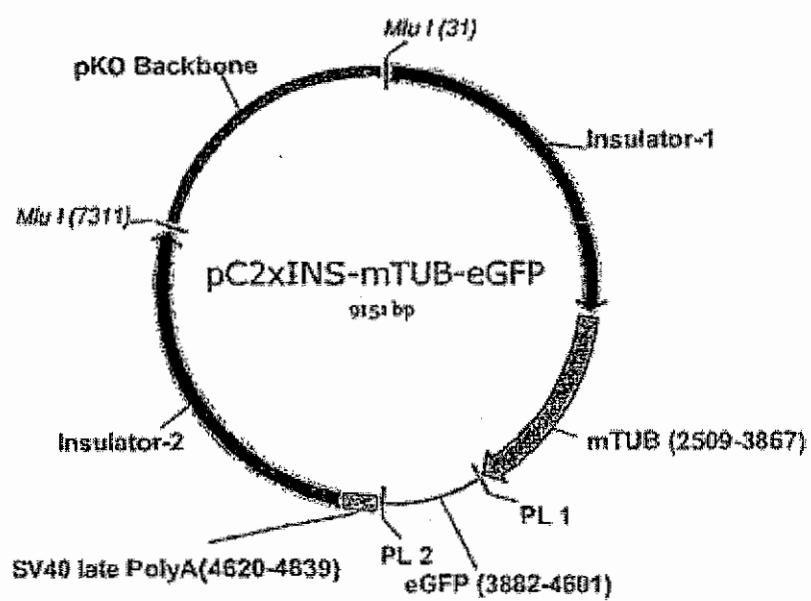


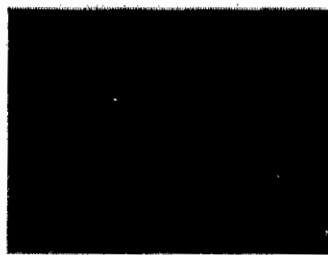
Fig. 3: Sequence of the mTUB Promoter Cassette

gatcgcgcc	gcgatccccg	gggtatgggt	agaagactgc	tccaccccg	50
ccccagggt	ccctaaccgt	cttttccctg	ggcgagtcag	cccaatcaca	100
ggactgagag	tgcctcttta	gtagcagcaa	gccacttcgg	acacccaaat	150
ggaacacctc	cagtcagccc	tcgccgacca	ccccaccccc	tccatccttt	200
tccttcagcc	tccgattggc	tgaatctaga	gtccctccct	gtccccccct	250
ctctccccac	ccctggtgaa	aactgcgggc	ttcagcgctg	ggtgcagcaa	300
ctggaggcgt	tggcgcacca	ggaggaggct	gcagctaggg	gagtcaggt	350
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gaggatgcaa	gccttcccca	gctacagttt	tgggaaagga	taccagggcg	450
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ggtgggagag	gaaggcagtg	cggggtcacg	ggctttctcc	ctgctaacgg	550
acgcttttca	agagtgggtg	cgggaggaga	accatgagga	aggacatcaa	600
ggacagcctt	tgggtcccaa	gctcaaactg	ctttagtggg	gcgaatagag	650
ggaggagggt	ggtggcaaac	tggaggaggt	ccccagcggg	tgacctcgtg	700
gctggctggg	tgcggggcac	cgcaggttaag	aaaacgcgaa	tggtgcggga	750
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tggtcctcgg	tcgcagctcc	ccccacccca	ggctgacatt	cactgccata	1350
gcccacccgg	aaatcctagt	ctatttcccc	atgggcctta	gg	1392
atg gtg agc	aag ggc gag	gag ctg ttc	acc ggg gtg	gtg ccc	1434
atc ctg gtc	gag ctg gac	ggc gac gta	aac ggc cac	aag ttc	1476
agc gtg tcc	ggc gag ggc	gag ggc gat	gcc acc tac	ggc aag	1518
ctg acc ctg	aag ttc atc	tgc acc acc	ggc aag ctg	ccc gtg	1560
ccc tgg ccc	acc ctc gtg	acc acc ttg	acc tac ggc	gtg cag	1602
tgc ttc gcc	cgc tac ccc	gac cac atg	aag cag cac	gac ttc	1644
ttc aag tcc	gcc atg ccc	gaa ggc tac	gtc cag gag	cgc acc	1686
atc ttc ttc	aag gac gac	ggc aac tac	aag acc cgc	gcc gag	1728
gtg aag ttc	gag ggc gac	acc ctg gtg	aac cgc atc	gag ctg	1770
aag ggc atc	gac ttc aag	gag gac ggc	aac atc ctg	ggg cac	1812
aag ctg gag	tac aac tac	aac agc cac	aag gtc tat	atc ac	1854
gcc gac aag	cag aag aac	ggc atc aag	gtg aac ttc	aag acc	1896
cgc cac aac	atc gag gac	ggc agc gtg	cag ctc gcc	gac cac	1938
tac cag cag	aac acc ccc	atc ggc gac	ggc ccc gtg	ctg ctg	1980
ccc gac aac	cac tac ctg	agc acc cag	tcc gcc ctg	agc aaa	2022
gac ccc aac	gag aag cgc	gat cac atg	gtc ctg ctg	gag ttc	2064
gtg acc gcc	gcc ggg atc	act ctc ggc	atg gac gag	ctg tac	2106
aag taa aag	cttgcta gcg	gatccag acat	gataaag atac	attgat	2152
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tgaaatttgt	gatgctattg	ctttatttgt	aaccattata	agctgcaata	2252
aacaagttaa	caacaacaat	tgcatcatt	ttatgtttca	ggttcagggg	2302
gaggtgggga	ggttttttaa	agcaagtaaa	acctctacaa	atgttgta	2350

Fig. 4: Fluorescence-Microscopic Brain Sections of an mTUB-eGFP-tg Mouse in Comparison to a Non-tg Mouse (C57BI6)

Brain

C57B16 ntg Mouse



20x

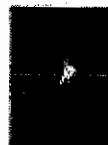
mTUB-eGFP-tg Mouse



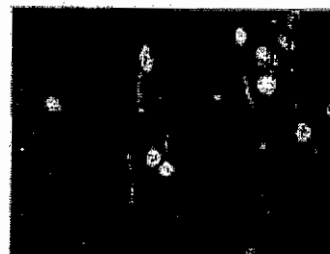
20x



20x



20x



40x