

TBX3 CDS and translation

1 ATGAGCCTCTCCATGAGAGATCCGGTCATTCTGGGACAAGCATG
M S L S M R D P V I P G T S M

46 GCCTACCATCCGTTCTACCTACCGGGCGCCGGACTTCGCCATG
A Y H P F L P H R A P D F A M

91 AGCGCGGTGCTGGGTCACCAGCCGCGTTCTTCCCCGCGCTGACG
S A V L G H Q P P F F P A L T

136 CTGCCTCCCAACGGCGCGGGCGGCTCTCGCTGCCGGGCGCCCTG
L P P N G A A A L S L P G A L

181 GCCAAGCCGATCATGGATCAATTGGTGGGGGCGCCGAGACCGGC
A K P I M D Q L V G A A E T G

226 ATCCCGTTCTCCTCCCTGGGGCCCCAGGCGCATCTGAGGCCTTTG
I P F S S L G P Q A H L R P L

271 AAGACCATGGAGCCCGAAGAAGAGGTGGAGGACGACCCCAAGGTG
K T M E P E E E V E D D P K V

316 CACCTGGAGGCTAAAGAACTTTGGGATCAGTTTCACAAGCGGGGC
H L E A K E L W D Q F H K R G

361 ACCGAGATGGTCATTACCAAGTCGGGAAGGCGAATGTTTCCTCCA

T E M V I T K S G R R M F E P
S

P134S

406 TTTAAAGTGAGATGTTCTGGGCTGGATAAAAAAGCCAAATACATT

F K V R C S G L D K K A K Y I

451 TTATTGATGGACATTATAGCTGCTGATGACTGTCGTTATAAATTT

L L M D I I A A D D C R Y K F

496 CACAATTCTCGGTGGATGGTGGCTGGTAAGGCCGACCCCGAAATG

H N S R W M V A G K A D P E M

541 CCAAAGAGGATGTACATTCACCCGGACAGCCCCGCTACTGGGGAA

P K R M Y I H P D S P A T G E

586 CAGTGGATGTCCAAAGTCGTCACCTTCCACAAACTGAAACTCACC

Q W M S K V V T F H K L K L T

631 AACAAATTTTCAGACAAACATGGATTTACTATATTGAACTCCATG

N N I S D K H G F T I L N S M

676 CACAAATACCAGCCCCGGTTCACATTGTAAGAGCCAATGACATC

H K Y Q P R F H I V R A N D I

721 TTGAAACTCCCTTATAGTACATTTTCGGACATACTTGTTCCCCGAA

L K L P Y S T F R T Y L F P E

766 ACTGAATTCATCGCTGTGACTGCATAACCAGAATGATAAGATAACC

T E F I A V T A Y Q N D K I T

811 CAGTTAAAAATAGACAACA^GCCCTTTTGCAAAGGTTTCCGGGAC

Q L K I D N ^N P F A K G F R D

N277S

^S

856 ACTGGAATGGCCGAAGAGAAAAAAGAAAACAGCTCACCCCTGCAG

T G N G R R E K R K Q L T L Q

901 TCCATGAGGGTGTTTGGATGAAAGACACAAAAAGGAGAATGGGACC

S M R V F D E R H K K E N G T

946 TCTGATGAGTCCTCCAGTGAACAAGCAGCTTTCAACTGCTTCGCC

S D E S S S E Q A A F N C F A

991 CAGGCTTCTTCTCCAGCCGCCTCCACTGTAGGGACATCGAACCTC

Q A S S P A A S T V G T S N L

1036 AAAGATTTATGTCCCAGCGAGGGTGAGAGCGACGCCGAGGCCGAG

K D L C P S E G E S D A E A E

1081 AGCAAAGAGGAGCATGGCCCCGAGGCCTGCGACGCGGCCAAGATC

S K E E H G P E A C D A A K I

1126 TCCACCACCACGTCGGAGGAGCCCTGCCGTGACAAGGGCAGCCCC
S T T T S E E P C R D K G S P

1171 GCGGTCAAGGCTCACCTTTTCGCTGCTGAGCGGCCCCGGGACAGC
A V K A H L F A A E R P R D S

1216 GGGCGGCTGGACAAAGCGTCGCCCCGACTCACGCCATAGCCCCGCC
G R L D K A S P D S R H S P A

1261 ACCATCTCGTCCAGCACTCGCGGCCTGGGCGCGGAGGAGCGCAGG
T I S S S T R G L G A E E R R

1306 AGCCCGGTTTCGCGAGGGCACAGCGCCGGCCAAGGTGGAAGAGGCG
S P V R E G T A P A K V E E A

1351 CGCGCGCTCCCGGGCAAGGAGGCCTTCGCGCCGCTCACGGTGCAG
R A L P G K E A F A P L T V Q

1396 ACGGACGCGGCCCGCCGCGCACCTGGCCCAGGGCCCCCTGCCTGGC
T D A A A A H L A Q G P L P G

1441 CTCGGCTTCGCCCCGGGCCTGGCGGGCCAACAGTTCTTCAACGGG
L G F A P G L A G Q Q F F N G

1486 CACCCGCTCTTCCTGCACCCCAGCCAGTTTGCCATGGGGGGCGCC
H P L F L H P S Q F A M G G A

1531 TTCTCCAGCATGGCGGCCGCTGGCATGGGTCCCCTCCTGGCCACG

F S S M A A A G M G P L L A T

1576 GTTTCTGGGGCCTCCACCGGTGTCTCGGGCCTGGATTCCACGGCC

V S G A S T G V S G L D S T A

T

M

T539M

1621 ATGGCCTCTGCCGCTGCGGCGCAGGGACTGTCCGGGGCGTCCGCG

M A S A A A A Q G L S G A S A

1666 GCCACCCTGCCCTTCCACCTCCAGCAGCACGTCCTGGCCTCTCAG

A T L P F H L Q Q H V L A S Q

1711 GGCTGGCCATGTCCCCTTTCGGAAGCCTGTTCCCTTACCCCTAC

G L A M S P F G S L F P Y P Y

1756 ACGTACATGGCCGCAGCGGCGGCCCTCCTCTGCGGCAGCCTCC

T Y M A A A A A A S S A A A S

1801 AGCTCGGTGCACCGCCACCCCTTCCTCAATCTGAACACCATGCGC

S S V H R H P F L N L N T M R

1846 CCGCGGCTGCGCTACAGCCCCTACTCCATCCCGGTGCCGGTCCC

P R L R Y S P Y S I P V P V P

1891 GACGGCAGCAGTCTGCTCACCACCGCCCTGCCCTCCATGGCGGCG

D G S S L L T T A L P S M A A
 1936 GCCGCGGGGCCCTGGACGGCAAAGTCGCCGCCCTGGCCGCCAGC
 A A G P L D G K V A A L A A S
 1981 CCGGCCTCGGTGGCAGTGGACTCGGGCTCTGAACTCAACAGCCGC
 P A S V A V D S G S E L N S R
 2026 TCCTCCACGCTCTCCTCCAGCTCCATGTCCTTGTCGCCCAAACCTC
 S S T L S S S S M S L S P K L
 2071 TGCGCGGAGAA^AAGAGGCGGCCACCAGCGAACTGCAGAGCATCCAG
 C A E K E A A T S E L Q S I Q
 R G G H Q R T A E H P **E695R**
 2116 CGGTTGGTTAGCGGCTTGGAAGCCAAGCCGGACAGGTCCCGCAGC
 R L V S G L E A K P D R S R S
 A V G *
 2161 GCGTCCCCGTAG
 A S P *

Supplementary Material 2. Position of the four point variants (with the corresponding amino acid changes in the TBX protein), that have been introduced in the TBX CDS and cloned in the *pUAS-attB* vector (see also Materials and Methods).