

Supplemental data

1. Sequences of the STAPs

The 19 base long DNA binding site of the TALE is indicated in bold letters

>PAGT582_1

GGAGGTTATCACACTTGGTAATTT**CCCCGCATAGCTGAACAT**CTATACAACACTCATCG
CGCGGAGAAACGCGCAACAAATTGGAGGCGCATTAAATG

>PAGT582_2

GGAGCTTACGTAGCAGCACGGCCT**CCCCGCATAGCTGAACAT**CTATATAAATCTTAGCC
CGACTGCACCGTGAGGAAAAGAGGGTTTATATATAATG

>PAGT582_3

GGAGGTCGTCAAATGATAAGTACT**CCCCGCATAGCTGAACAT**CTATATAACGCAGCAAA
TGTTGAAACGTATTAGCAACAGCTAACCTTCGAATGT

>PAGT582_4

GGAGGCGTGTTCGTTTTAGTGAGGT**CCCCGCATAGCTGAACAT**CTATATAAGGTTTTGCT
ATTCATTGAAAGCAGTAGTACTGATTTGTATATAATG

>PAGT582_5

GGAGGTTCTGTGGGTTTTTTGGGT**CCCCGCATAGCTGAACAT**CTATATAATGAGAAACA
GGGGCAAATCCCCGAAAACAAATAACGCGAAGCAATG

>PAGT582_7

GGAGATGTGCCATGGTTCGGGGGCT**CCCCGCATAGCTGAACAT**CTATATAATCGGAATG
AATTGCAAATAGGGATGTTATAGGGTTATCTCGGCAATG

>PAGT582_8

GGAGAGATGATTGTTTCGTAATATT**CCCCGCATAGCTGAACAT**CTATATAAGAGACGAGC
TACCACGATAAGCGCAGCAAAAGACACATACGTTAATG

>PAGT582_9

GGAGGTGCCTTTTTAAAGGGTTT**CCCCGCATAGCTGAACAT**CTATATAAGAAACACGG
ACGCCGAAACCCCCCGCCTAGTTGACTCTCCGGAATG

>PAGT582_10

GAGTGTGAACGTGGTGATGTGGT**CCCCGCATAGCTGAACAT**CTATATAAAAACGTAAAC
AGAAGTCTGCTCAACTAGTCTCCAACATATAAATG

>PAGT582_13

GGAGGTAAGTTCTGGCCTCTGGGT**CCCCGCATAGCTGAACAT**CTATATAATAGGACAG
TAAGATATGCCAGACAATGTAGCACGTAGAACGGAAATG

>PAGT582_14

GGAGCACCTTGGAACAGGTGGT**CCCCGCATAGCTGAACAT**CTATATAAGAAATTAGT
AACTACGCTTTCAAAGACATCTTAATTAATTAGAATG

>PAGT582_15

GGAGAGTGGGCGCGTTTTGGTAAGT**CCCCGCATAGCTGAACAT**CTATATAAATAAGCTG
CCTACGATTTAGCGCGACACAATTCGACGGTTGGAATG

>PAGT582_21

GGAGGCCGTGGGGGGGGGTCTGT**CCCCGCATAGCTGAACAT**CTATATAATACCGGTT
ATCCAGCGACAACCGTCAATAACTTAACATTGAACAATG

>PAGT582_23

GGAGTTAAGTAGGCTGTTCTTATT**CCCCGCATAGCTGAACAT**CTATATAAATAGCTCAGT
TGCCTTAAACGTAGACAGTCTATTACACTAATAAATG

>PAGT582_24

GGAGGTTTATACTTTCTCTAATTT**CCCCGCATAGCTGAACAT**CTATATAAACTGGAACCTT
TCACTGACCTGACAGTGCTTTCATTGACGCGCGAATG

>PAGT582_25

GGAGAAGCTCACCTGCATCCTTGT**CCCCGCATAGCTGAACAT**CTATATAAAATTTATAC
ATTTAAACCAAACCCCTATAAAATTTCTGTCCGCGAATG

>PAGT582_29

GGAGTAATGTACAGCTTCGCGGGCT**CCCCGCATAGCTGAACAT**CTATATAATAACTGTTC
TACATACTCTCGGATAAATAACGCAACTTAATATAATG

>PAGT582_30

GGAGTCCCGGATCCTGGTTTCACT**CCCCGCATAGCTGAACAT**CTATATAAAACAAATCT
CGTCAAGCAAACCAATTACGATGGTCCGGGAAGGAATG

>PAGT582_34

GGAGGGGTGGGGGGGTTACCGTCT**CCCCGCATAGCTGAACAT**CTATATAAAACCAATC
GACGACTCATTGGAATGCGTCCTGCTCCAAATAGCAATG

>PAGT582_36

GGAGCTGCAATGCTTACTGTTATT**CCCCGCATAGCTGAACAT**CTATATAAAGGTTGAGA
AGTGCACTTGCAATAATTGCCGGGCCCATGGGAAATG

>PAGT582_37

GGAGAGAGGTGGGTTCGCGGGCATT**CCCCGCATAGCTGAACAT**CTATATAAAAAGCAGT
TCATACGGGAACGCAGACTAGTCACGAAATTCGCAATG

>PAGT582_38

GGAGGCGCGTTTGATTGGGGGGGT**CCCCGCATAGCTGAACAT**CTATATAAAACTGATA
ACTTAGTCAGACTAGCAAATGCTCACAATACAAAGAATG

>PAGT582_39

GGAGGAACCGCGGTTTCGGGAGCGT**CCCCGCATAGCTGAACAT**CTATATAACAGGGGC
GGGATATGATATAGAAACACCAGGGTTAGTAACAAGAATG

>PAGT582_40

GGAGCAATGGCAGAGGGGTATGGT**CCCCGCATAGCTGAACAT**CTATATAAAATTGGGA
CCTATGATAATGCTGTAGAACCTCATAAATGATGGAATG

>PAGT582_41

GGAGGGTTTGTACCGTGTATTCT**CCCCGCATAGCTGAACAT**CTATATAACGAGCGGTC
GAAAGCTTCAAATTCATGAGTAAGACCCCAACAATG

>PAGT582_42

GGAGTCTTGCCCATACTCAGTTCT**CCCCGCATAGCTGAACAT**CTATATAATGTCTCTCG
AATGACACCGATACTTCGATTTAGCAGGCTGCCCAATG

>PAGT582_43

GGAGGCATTACGGGCGTAGTTTGT**CCCCGCATAGCTGAACAT**CTATATAATCGACCAG
AGCAACGTTCTCGCCTAGGCGCGCCTTACCGGGAAAATG

>PAGT582_44

GGAGGTATCCCGAGGGCGAATGG**TCCCGCATAGCTGAACAT**CTATATAAGGCATCTG
GTTAGCAAGCCTCACCAGCCGTGAACAATATAATCAATG

>PAGT582_45

GGAGTCAGAGTGTGGTTCGTGTTTT**TCCCGCATAGCTGAACAT**CTATATAAGTTTACACC
TGCCCGACCTATTCCTTGATGAGCTCGCGCACCGAATG

>PAGT582_47

GGAGCACTTAGGTTAACTGCGCGT**TCCCGCATAGCTGAACAT**CTATATAAGGAACAGA
CGGCTAACCCATCAATGGAACAACGAACGGCCATAATG

>PAGT582_48

GGAGTGGTTTTAGCACAGACA**ACTTCCCGCATAGCTGAACAT**CTATATAAGGAACCGAC
TCTCTCCCGCCCCGACACAGGACCCCTCTGGTAATG

>PAGT582_52

GGAGCATGCTGGGGTTGGAGGGGT**TCCCGCATAGCTGAACAT**CTATATAACCCGGCC
CCTCAATTAACCCCTGCTCAAAGCAAAGCAACAATCAATG

>PAGT582_53

GGAGTGGGCTGAGGGGGACGGGT**TCCCGCATAGCTGAACAT**CTATATAACCCAACGT
GAGATCACGTTTACAATACTCGTCTTGACTGACACAATG

>PAGT582_54

GGAGGGCATGAGGTTAGCTAGTTT**TCCCGCATAGCTGAACAT**CTATATAATGAATGTGT
GAGAAGCTTTGACAAGCTTCGCCAGCGGCCCTAAATGT

>PAGT582_56

GGAGATATTCCTCGGCTGTC**ACTTCCCGCATAGCTGAACAT**CTATATAATCAAATTCCT
AGGGGCTGCCATGGTTACCCCTTGCTATGTAGCAATG

>PAGT582_58

GAGTGCGGGGAGTTGGTATGGGT**TCCCTGCATAGCTGAACAT**CTATATAAATAACGGCC
CTGAGTGTCGCTAGCAAATGCACCAAACCAACTCAATG

>PAGT582_60

GGAGCGATATGTTTAAATCGGCAT**TCCCGCATAGCTGAACAT**CTATATAAATCCGCGCC
TTAAATACGGTTGTTTGCCTATTTTGAGCGAGTAAATG

>PAGT582_62

GGAGTATTGGTCCACTTGCTCCGT**TCCCGCATAGCTGAACAT**CTATATAACGCAGAAAC
CTCGCAACTGACGTTCCGATTGCGATAAACACACAATG

>PAGT582_65

GGAGTTGTAAACTCCAGGTTAGAT**TCCCGCATAGCTGAACAT**CTATATAAATCGCCCAT
TGCCAGGACACGCAACCCTGCAACAATCAGTACAATG

>PAGT582_69

GGAGCCCTTGCTATGACGATGCCT**TCCCGCATAGCTGAACAT**CTATATAAAAATTCCAT
AACGTACAGAACGAAGAACGGACCCATATACAATAATG

>PAGT582_73

GGAGGCGCGGGCAGGGGTTGGGT**TCCCGCATAGCTGAACAT**CTATATAATCACCCAA
CGCCGCATGCAACA**ACTAGTAACA**AGGCCATTGAGAATG

>PAGT582_78

GGAGCTTTTTACGGGGCACCTGTT**CCCCGCATAGCTGAACAT**CTATATAACAAAATAAC
AGATTGTCTGTCCAAGAGGCAGACATTCGTTCATAATG

2. Sequences of the primers used for quantitative gene expression analysis

NsCBTS2a-1106F, 5'- CGATCCAAAGATGGGACGA-3',

NsCBTS2a-1257R, 5'- CATCTCTTTTTTCGCATAGTAGATGT-3',

NtGGPPS2-85F, 5'- CCTCCACAGAGACATTCTTATAGTTTC-3',

NtGGPPS2-227R, 5'- TCAAAGTCAAACCTTAGGCAAGATG-3',

SIDXS2-556F, 5'- AGCATCTCCGCTGGTCTT-3',

SIDXS2-699R, 5'- CGAGTCAAGGAATCCTGCAT-3'.