

Supplemental Data. Wamboldt et al., (2009) Participation of Leaky Ribosome Scanning in Protein Dual Targeting by Alternative Translation Initiation in Higher Plants

**Supplemental Table 1. Primers used in the study**

Construction	Primer name	Sequence (5'-3')
UTR (IVTT)	At1g50840-UTR-IVTT-F2 At1g50840-IVTT-R2	AGTCCTCGAGGACAAAATTCGCCACCATA AGTCCTCGAGAGCAATTTGACCATTTCTTTCTCTAAG
ATG (IVTT)	At1g50840-ATG-IVTT-F2 At1g50840-IVTT-R2	AGTCCTCGAGGATTAAGTTCGCTTATGGCC AGTCCTCGAGAGCAATTTGACCATTTCTTTCTCTAAG
UTR:ATG-1>TTG	At1g50840-1stATGmut-F At1g50840-1stATGmut-R	GGGTAGATTAAGTTCGCTTTTGGCCATGGGGGTTTCTC GAGAAACCCCATGGCCAAAAGCGAACTTAATCTACCC
UTR:ATG-2>TTG	At1g50840-2ndATGmut-F At1g50840-2ndATGmut-R	GATTAAGTTCGCTTATGGCCTTGGGGGTTTCTCTTACTTCC GGAAGTAAGAGAAAACCCCAAGGCCATAAGCGAACTTAATC
UTR-L7M	L-7Mf1 L-7Mr1	CGTCACTTCTCCTTCAAGATGGGTAGATTAAGTTCGC GCGAACTTAATCTACCCATCTTGAAGGAGAAGTGACG
UTR-L7L	L-7Lf1 L-7Lr1	CGTCACTTCTCCTTCAAGCTCGGTAGATTAAGTTCGC GCGAACTTAATCTACCGAGCTTGAAGGAGAAGTGACG
UTR-M1LM3L	M1LM3Lf1 M1LM3Lr1	GATTAAGTTCGCTTTTGGCCTTGGGGGTTTCTC GAAACCCCAAGGCCAAAAGCGAACTTAATC
AAG>ACG	At1g50840-AAG-ACG-F AT1G50840-AAG-ACG-R	CTGTCGTCACCTTCTCCTTCCAGCTGGGTAGATTAAGTTCGC GCGAACTTAATCTACCCAGCGTGAAGGAGAAGTGACGACAG
AAG>CAG	At1g50840-AAG-CAG-F AT1G50840-AAG-CAG-R	CTCTGTGTCACCTTCTCCTTCCAGCTGGGTAGATTAAGTTCGC GCGAACTTAATCTACCCAGCTGGAAGGAGAAGTGACGACAGAG
AAG>TTC	AT1G50840-AAG-TTC-F AT1G50840-AAG-TTC-R	CTGTCGTCACCTTCTCCTTCTTCTGGGTAGATTAAGTTCGC GCGAACTTAATCTACCCAGGAAGAAGGAGAAGTGACGACAG
AAG deleted	At1g50840-CTT-AAGdel-F AT1G50840-CTT-AAGDEL-R	GACACAGACGTCACATCACCATCCTGGGTAGATTAAGTTCGCTTATG CATAAGCGAACTTAATCTACCCAGGATGGTGATGTGACGCTCTGTGTC
AAGdel + stop	At1g50840-AAGstop-F AT1G50840-AAGSTOP-R	CCGACTCTGTCGTCACCTTCTAATTCCTGGGTAGATTAAGTTC GAACTTAATCTACCCAGGAATTAGAAGTGACGACAGAGTCCG
ATA>AGG	At1g50840-ATA-AGG-F AT1G50840-ATA-AGG-R	GAGGACAAAATTCGCCACCAGGAACCCATTTTTTAATCTCCG CGGAGATTAATAATAGGGTTCTGTTGGCGAATTTGTCTCT
DEL*	At1g50840-CTmut-F1 At1g50840-CTmut-R1	TTAATCTCCGACTCTGTCGTCAAAGCTGGGTAGATTAAGTTCGC GCGAACTTAATCTACCCAGCTTTGACGACAGAGTCCGAGATTA
MUT*	At1g50840-CTT2-F At1g50840-CTT2-R	CCCTATTTTTAATCTCCGACACAGACGTCACATCACCATCAAGCTG CAGCTTGATGGTGATGTGACGCTGTGTGCGGAGATTAATAATAGGG
At2g15790 WT	At2g15790-UTR-IVTT-WT At2g15790-IVTT-Rev	AGCTCTCGAGAGGAAGAAGAAGAAGAAGAAGATG TGACCTCGAGGTTGGGACCAGAGTTAGCCATAGAGAGCAT
At2g15790 CTG	At2g15790-CTG-IVTT-For At2g15790-IVTT-Rev	AGCTCTCGAGAGACTGAGGAAGAAGAAGAAGAAGAAGATG TGACCTCGAGGTTGGGACCAGAGTTAGCCATAGAGAGCAT
At2g15790 CTG1	At2g15790-CTG-IVTT-For At2g15790-IVTT-Rev	AGCTCTCGAGAGACTGAGGAAGAAGAAGAAGAAGAAGATG TGACCTCGAGGTTGGGACCAGAGTTAGCCATAGAGAGCAT
At2g15790 CTG2	At2g15790-CTG-F2 At2g15790-IVTT-Rev	AGTCCTCGAGTTCAAGCTGGGTAGAAAGAAGAAGAAGAAGATG TGACCTCGAGGTTGGGACCAGAGTTAGCCATAGAGAGCAT
At2g15790 CTG3	At2g15790-CTG-F3 At2g15790-IVTT-Rev	AGTCCTCGAGAAGCTGGGTAGATTAAGAAGAAGAAGAAGATGGG TGACCTCGAGGTTGGGACCAGAGTTAGCCATAGAGAGCAT
At2g15790 ATG	At2g15790-ATG-IVTT-For At2g15790-IVTT-Rev	AGCTCTCGAGATGGGTAGGTCAAAGTGTTCATGGACATT TGACCTCGAGGTTGGGACCAGAGTTAGCCATAGAGAGCAT
At3g05580 UTR	At3g05580-IVTT-UTR-For	TTGCAAGCTTATTCTGGTGAAAAGGTTGGGATCAGAGGA

	AT3G05580-IVTT-REV	TTGCAAGCTTAGCATCTTCATGGTTTCCTCTCAAGAGAAA
At3g05580 ATG	At3g05580-IVTT-ATG-For AT3G05580-IVTT-REV	TTGCAAGCTTATGATGACGAGTATGGAAGGGATGATGGAG TTGCAAGCTTAGCATCTTCATGGTTTCCTCTCAAGAGAAA
At4g15850 UTR	At4g15850-IVTT-UTR-For At4g15850-IVTT-Rev	TTGCCTCGAGAAGCTGGTGGTATGGGGAGAGATAAAGAAG TTGCCTCGAGACCCACAGCTGAGCCAACAGATAATCCTAC
At4g15850 ATG	At4g15850-IVTT-ATG-For At4g15850-IVTT-Rev	TTGCCTCGAGATGGATTCCGGTTGTTCCATGGATGAGAGCT TTGCCTCGAGACCCACAGCTGAGCCAACAGATAATCCTAC
At2g20680 UTR	At2g20680-IVTT-UTR-For At2g20680-IVTT-Rev	TTGCCTCGAGAAACTGGCGAGATTACAAGCGATTGTGAAA TTGCCTCGAGGGCCTCTGCGATTACATGATCTAAGGCCTT
At2g20680 ATG	At2g20680-IVTT-ATG-For At2g20680-IVTT-Rev	TTGCCTCGAGATGGCGGCTCCTACAGGGAACGGGCCAGTG TTGCCTCGAGGGCCTCTGCGATTACATGATCTAAGGCCTT
Poly 1 UTR	At3g20540-IVTT-UTR-For At3g20540_IVTT_Rev	AGTCCTCGAGATAGAGCAATGGCTACCAGCTCAGCTTTGT AGTCCTCGAGTTTGGGGACAAAGCCTTTTAAAATATAACT
Poly 1 ATG	At3g20540_IVTT_ATG_For At3g20540_IVTT_Rev	AGTCCTCGAGATGGGGTTTCTCTTCGTCACTTGTCTCCT AGTCCTCGAGTTTGGGGACAAAGCCTTTTAAAATATAACT

\* Primers made specifically for Poly 2 in Figure 2.ig 2.