

**Table S2 Primer sequences used in this study**

<b>Name</b>	<b>Sequence</b>
<b>Cloning Primers</b>	
AUBarm1-F <i>Bs</i> WI	TCGTACGCTCTCCATGTAGCGAAAAGCGTATAG
AUBarm1-R <i>As</i> cl	TGGCGCGCCAATGCATATATTCGTATGAAATGAGC
AUBarm2-F <i>Acc</i> 65I	TGGTACCTTCCAGCAACGGAACCTTTATAGAC
AUBarm2-R <i>Not</i> I	TGCGGCCGCTGGTTACGAAGAGTCGTGCTGGCG
<b>Sequencing Primers</b>	
AUBarm1-s1	GTGACAGTCGCTGCCATCGTATTATTGG
AUBarm1-s2	CTGACAAGTGGACTGTCTGCAGTGGGTG
AUBarm1-s3	CTTTATATCGAAGGGTAAGTACATG
AUBarm1-s4	GA CT CGA ACG AT GA A G A A C A A C A C C A G C G
AUBarm2-s1	GTAGCGAGAATTAATGCGCTTGGATAC
AUBarm2-s2	GTGTCACCACCTGCGATGGCACC GGTC
AUBarm2-s3	CCGGTGGCAACACGCGTGCTGGAATCTC
AUBarm2-s4	CGATTGAAAGTCGACATCGTCAATGCG
aub arm1-RS1	GGGCAACTCAAAAAGTGGTAACAAG
aub arm2-RS1	GATATATGTATGTAGATATGTACATC
AUBarm1-R3	CTTGTTTATTTACATGTAAGTACTGTCC
AUBarm1-R4	CCTGGTCAACCCCTTAAATGCAGATGC
AUBarm1-R5	GCTTAGTAAATAAGTTAACACAATTTAC
AUB HN1 VR	CCGCAACGGCACTTACTCCCAAGCG
<b>Mutagenic Primers</b>	
AUB HN m1 F	GATGGGAGCTCCCTGGTAGGTAGTCATCCCCCTCCACGGTCTGA
AUB HN m1 R	TCAGACCGTGGAGGGGGATGACTACCTACCAGGGAGCTCCCATC
aub E721A R	GGTCAGCTCTACCAGGTGGTAAACAGCGCGGTGAACACCCTAAAGGACAGG
aub E721A F	CCTGTCCTTTAGGGTGTTACCGCGCTGTTTACCACCTGGTAGAGCTGACC
<b>Arm Specific Validation Primers</b>	
AUBarm2-V1	CTTGATGAACATAAAGGGATCC
AUBarm2-V2	CGTCGATTTTACGCCTGATGTGG
AUBarm2-V3	GGCACTCATATTACCGTGCAGGC
AUBarm1-V1	GGTTTATAATTCCACGGACTTC
AUBarm1-V2	CCATAGCGAATGTAGTGTG
AUBarm1-V3	CCCGGACCATCGAAAGTAACTGC
AUBarm2-VR2	CGGTGAACATGGCGTGCGCCCTGAGG
AUBarm1-R3	CTTGTTTATTTACATGTAAGTACTGTCC
AUBarm1-R4	CCTGGTCAACCCCTTAAATGCAGATGC
AUBarm1-R5	GCTTAGTAAATAAGTTAACACAATTTAC

<b>p[W25.2] Specific Validation Primers</b>	
pW-Not 1	CACTGTTACGTCGCACTCGAGGGTAC
pW-Not 2	GCACTCGAGAGCTCGTTACAGTCCG
pW-Bsi 1	CGCACCGGACTGTAACGAGCTAC
pW-Bsi 2	GGCGACTCAACGCAGATGCCGTACC
pW-Asc 1	GTATGCTATACGAAGTTATCTAGACTAGTCTAGGGCG
pW-Asc 2	GCTTGGCTGCAGGTCGACTCTAGAGG
pW-Asc 3	CGATCATTATTTCGCTGCATGAATTAGC
pW-Acc 1	CATTATACGAAGTTATCTAGACTAGTCTAGGGTAC
pW-Acc 2	GACGCTCCGTCGACGAAGCGCTC
pW-Acc 3	GCTCAGCTTGCTTCGCGATGTGTTAC
WTPR	CGCGAACATTTCGAGGCGCGCTCTCTCG
Wt SQ10F	GTGACCTGTTCCGGAGTGATTAGCG
<b>Southern Blotting</b>	
SP6	GCCAAGCTATTTAGGTGACACTATAG
T7	GAATTGTAATACGACTCACTATAGGG
Rsp13 clone sequence	GGAGCTCCACCGCGGTGGCGGCCGGCCCTGCAGATCTGCGGCCGCTCTAGAAGGTGTCTTCTGTTGCGCT GGTACTTGAAATCGAAAAATCACTCATTGACCGCTAAAATGACATAACTTAGTCAATTTATTGTTTTGTG TACCAGGTTTAAATAATCTGTAGAAGGTATCTTCTGTTTGTCTGGTACTTGAAATCGGAAAATCACTCATT TGACCGCTTAAAATGTA AAACTTAGGCAATTTACTGTTTTTCTTACCAGTTGAACAGAATCTCTAGAAGG TGTTCTTCTGTTGCGCTGGTACTTGAAATCGAAAAATCACTCATTGACCGCTAAAATGACATAACTTAGTCA ATTTATTGTTTTGTGTACCAGGTTTAAATAATCTGTAGAAGGTATCTTCTGTTTGTCTGGTACTTGAAATC GGAAAATCACTCATTGACCGCTTAAAATGTA AAACTTAGGCAATTTACTGTTTTTCTTACCAGTTGAAC AGAATCTCTAGAACTAGTGGATCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACC TCGAGGGGGGGCCCGGTACCAGCTTTTGTCCCTTTAGTGAGGGTTAATTCGAGCTTGGCGTAATCATG GTCATAGCTGTTTCTGTGTGAAATTGTTATCCGCTCAC