Appendix C Primers for sorghum sugar transporter semi-quantitative RT-PCR analysis, construction of sub-cellular location vector, and construction of yeast complementary research vector

Functional Classification	Primer Name	Primer Sequence
Gene Cloning	SbERD3F/R	5'-CGATGGAGCACGAGGATCAAG-3'/5'-ATCATAAGTGAAAGGGGGGCG-3'
	SbPLT5F/R	5'-AGCACAGAGCAGAGCAAGAGG-3'/5'-GAACCCCCTCAATAAGACCCTC-3'
	SbPLT6F/R	5'-GTAGCCCTTAAGTTAACGATGGC-3'/5'-GTTGGTTTTCCTTCCATCTACATG-3'
	SbSTP3F/R	5'-AGAGGGTTGCTTCATCAGGGA-3'/5'-CCATCAGATGGAGCAGTTAAACG-3'
	SbSTP8F/R	5'-AGAGAGAGAAAGGGAGGGAGC-3'/5'-AATAATGTCCACGAAAGCAAGC -3'
	SbSTP9F/R	5'-CTTCCTGCTTGAGGTTTCTGG-3'/5'-CTGTATGAGTAGATTATTGCCCACC-3'
	SbINT3F/R	5'-TTGATTGAGATTCGGCTTGGC-3'/5'-TGCTGACAGGTAGCCTACGGC-3'
	SbTMT2F/R	5'-TTGTTGGAGGACGAGATGTCG-3'/5'-CTTCTTGGTGAGATCCCTTCAAG-3'
	SbVGT2F/R	5'-AACGAACACGAGCTCCTGCTC-3'/5'-TGGATCAGTCAACTACAGACTCGC-3'
	SbpGlcT1F/R	5'-CACCGTCGTTAAGAGGATGATACG-3'/5'-GTCTCCAGGTCCAAGGATGCTC-3'
	SbSGB2F/R	5'-TCTCGTCTGTCAGCTTTCATTGC-3'/5'-CTCTGCTCTTAAATTCCTCCCCAC-3'
	SbSWEET18F/R	5'-TTCAGTTGTGTCGCAATGGCAG-3'/5'-GCTTGCGATGGAGAGCCTAGAC-3'
	SbSWEET21F/R	5'-AGCAACAATGGTTACTAGCATTCG-3'/5'-GAAAAGCAGACCTTCAAGCTAAGG-3'
	SbSWEET11F/R	5'-TGCTCGATCCATTTAGGTTTCAG-3'/5'-GTAGGCAGCCTCAGTTTTAGGCT-3'
Real-time PCR analysis	SbERD3QF/QR	5'-GACGAAGCAACAGAAATCAAAG-3'/5'-GGCATTCACTCCCCCAAAC-3'
	SbPLT3QF/QR	5'-GGAGTGAGAGGGACACGGTGAC-3'/5'-AGCGTGTTTCTGTCAGTTTGGC-3'
	SbPLT5QF/QR	5'-ATAGAGGGTCTTATTGAGGGGG-3'/5'-ACAAAGCACGAAACACAGGG-3'
	SbPLT6QF/QR	5'-ATGACCTTCCTGTCCCTCTCG-3'/5'-GCATTTCCACCACCTTCTCC-3'
	SbSTP3QF/QR	5'-TCGTGCTGGGCATCAAGGTC-3'/5'-AAGAGCAGGTTGACGCAGACG-3'
	SbSTP8QF/QR	5'-CAGAGAGAGAAAGGGAGGGAGC-3'/5'-AGGTAGAGCGAGGAGGTGAACG-3'
	SbSTP9QF/QR	5'-AGATGGTGCTCGTGTGGAAGT-3'/5'-CTGTATGAGTAGATTATTGCCCACC-3'
	SbSGB2QF/QR	5'-GTCAAATTGGAACATGTCTAGGC-3'/5'-CAGCAACAATAAGAACCCCAG-3'
	SbpGlcT1QF/QR	5'-AGCATCCTTGGACCTGGAGACT-3'/5'-ATGTCAGGGGAGTAAGGGAAGC-3'
	SbINT3QF/QR	5'-GCTTTGAGCAGGTGGAGCAGA-3'/5'-ATCTTAAAAGTGTCGCCGCCA-3'
	SbTMT2QF/QR	5'-GGTCCCCTAATGTCTATGTCCTG-3'/5'-AACAATGAAGGTATCGCGAGC-3'
	SbSWEET11QF/QR	5'-TCTTCGGAGTTTCTGGGAATGTC-3'/5'-GGAGGCAGTTGAGCAGCGTC-3'
	SbSWEET14QF/QR	5'-GCATCTGCTGGACTGCTTACG-3'/5'-CGTGGACTTGTAGTAGATGGCG-3'
	SbSWEET15QF/QR	5'-GTGTTTCTTTCGCCACTGCC-3'/5'-ATCCAGCCGAGCACTTTGAC-3'
	SbSWEET18QF/QR	5'-TGTGTCGGCTTCTCCGTCAG-3'/5'-ATAGAGGAACCAGACGACAGCG-3'
	SbSWEET21QF/QR	5'-CAATAAACCACCGAAAGCAGTC-3'/5'-TTGCAGGTGCTATGTATGTCCC-3'
	ActinQF/ActinQR	5'-ATGTTCCCTGGGATTGCTGA-3'/5'-CGTACTCAGCCTTGGCAATC-3'
Sub-cellular Location	SWEET11GFPF	5'-ATTTGGAGAGGACAGGGTACCATGGAGCATATCGCCAGGTTC-3'
	SWEET11GFPR	5'- GGTACTAGTGTCGACTCTAGACACCTGGCTGGCGACGACC-3'
	SWEET18GFPF	5'-ATTTGGAGAGGACAGGGTACCATGGCAGGCCTATCTCTGCA-3'
	SWEET18GFPR	5'- GGTACTAGTGTCGACTCTAGAGACCACGTGGACGGCTGGGC-3'
	SbERD3GFPF	5'-ATTTGGAGAGGACAGGGTACCATGGAGCACGAGGATCAAGA-3'
	SbERD3GFPR	5'-GGTACTAGTGTCGACTCTAGATAAGTGAAAGGGGGGCGTTA-3'
	SbPLT5GFPF	5'- ATTTGGAGAGGACAGGGTACCATGGCTTCCGCTGCGCTGCC-3'

	SbPLT5GFPR	5'- GGTACTAGTGTCGACTCTAGAGTTGGTGGCGGCCATTTCGA-3'
	SbSTP3GFPF	5'- ATTTGGAGAGGACAGGGTACCATGCCGGCCGGAGGGTTCTC-3'
	SbSTP3GFPR	5'- GGTACTAGTGTCGACTCTAGAAACGGAGGCGCCATTGTTGG-3'
	SbINT3GFPF	5'-ATTTGGAGAGGACAGGGTACCATGACGATCGACATGTCCAT-3'
	SbINT3GFPR	5'-GGTACTAGTGTCGACTCTAGACGGCGCAGCAGCACCCAAA-3'
	SbpGlcT1GFPF	5'-ATTTGGAGAGGACAGGGTACCATGATACGCTGCGCTGTAAC-3'
	SbpGlcT1GFPR	5'-GGTACTAGTGTCGACTCTAGATTCTGCTACACTTAATTCCCG-3'
Construction of Yeast Complementary Research Vector	SbSWEET11-DRF	5'-TCCCCCGGGCTGCAGGAATTC ATGGAGCATATCGCCAGGTT-3'
	SbSWEET11-DRR	5'-GGGCCCCCCCTCGAGGTCGAC CTACACCTGGCTGGCGACG-3'
	SbSWEET18-DRF	5'-TCCCCCGGGCTGCAGGAATTC ATGGCAGGCCTATCTCTGCA-3'
	SbSWEET18-DRR	5'-GGGCCCCCCCTCGAGGTCGAC CTAGACCACGTGGACGGCTG-3'
	SbSWEET21-DRF	5'-TCCCCCGGGCTGCAGGAATTCATGGTTACTAGCATTCGCTT-3'
	SbSWEET21-DRR	5'-GGGCCCCCCCTCGAGGTCGACCTAAGGCTTACAGCCATTTG-3'
	SbPLT5-DRF	5'-TCCCCCGGGCTGCAGGAATTC ATGGCTTCCGCTGCGCTGC-3'
	SbPLT5-DRR	5'-GGGCCCCCCCTCGAGGTCGAC TTAGTTGGTGGCGGCCATT-3'
	SbPLT6-DRF	5'-TCCCCCGGGCTGCAGGAATTCATGGCTTCCGCCGACCTCG-3'
	SbPLT6-DRR	5'-GGGCCCCCCCCTCGAGGTCGACCTACATGGTGGGCATTTCCA-3'
	SbSTP3-DRF	5'-TCCCCCGGGCTGCAGGAATTCATGCCGGCCGGAGGGTTCTC-3'
	SbSTP3-DRR	5'-GGGCCCCCCCCTCGAGGTCGACTTAAACGGAGGCGCCATTGTT-3'
	SbSTP8-DRF	5'-TCCCCCGGGCTGCAGGAATTC ATGGCGGGCGGCGGGATG-3'
	SbSTP8-DRR	5'-GGGCCCCCCCCTCGAGGTCGAC TCACTTGTGATTGTTGGTGGCA-3'
	SbSTP9-DRF	5'-TCCCCCGGGCTGCAGGAATTCATGGCCGGCGGCGTGGTTGT-3'
	SbSTP9-DRR	5'-GGGCCCCCCCCTCGAGGTCGACCTACTGCATGCCGACGAGCT-3'
	SbTMT2-DRF	5'-TCCCCCGGGCTGCAGGAATTC ATGTCGGGGGCTGTTCTTGT-3'
	SbTMT2-DRR	5'-GGGCCCCCCCCTCGAGGTCGACTTAGGCTTTTGCAGCCGCTT-3'
	SbINT3-DRF	5'-TCCCCCGGGCTGCAGGAATTCATGACGATCGACATGTCCATG-3'
	SbINT3-DRR	5'-GGGCCCCCCCCTCGAGGTCGACCTACGGCGCAGCAGCACCCA-3'
	SbVGT2-DRF	5'-TCCCCCGGGCTGCAGGAATTCATGGCCTCCCATCCTCCTC-3'
	SbVGT2-DRR	5'-GGGCCCCCCCCTCGAGGTCGACCTACAGACTCGCTTCAATCTC-3'
	SbSGB2-DRF	5'-TCCCCCGGGCTGCAGGAATTCATGCCGACGCCCCTCGCCC-3'
	SbSGB2-DRR	5'-GGGCCCCCCCCTCGAGGTCGACCTACTCTTGCTTGCCAGGGGTAG-3'
	SbpGlcT1-DRF	5'-TCCCCCGGGCTGCAGGAATTCATGATACGCTGCGCTGTAAC-3'
	SbpGlcT1-DRR	5'-GGGCCCCCCCCTCGAGGTCGACTCATTCTGCTACACTTAATTC-3'
	SbERD3-DRF	5'-TCCCCCGGGCTGCAGGAATTCATGGAGCACGAGGATCAAGAA-3'
	SbERD3-DRR	5'-GGGCCCCCCCCTCGAGGTCGACTCATAAGTGAAAGGGGGGCG-3'