

Table 1 Suppl. Primers designed for testing differential expression of transposable elements (TEs). The signature of the identified TEs, TE-related expressed sequence tags, and the corresponding library are listed in columns 1, 2 and 3, whereas the designed primer name, its sequence, and the expected amplicon size are shown in the subsequent columns.

Identified TE	TE-containing ESTs	Library	Primer name	Sequence 5'-3'	Size [bp]
F524_SINE_ <i>Oryza sativa</i>	EH190997	Ec03	Sine1_F Sine1_R	CGCACACTCACCCCTATGAA ACGGCATTGTGCTTTCAGC	153
F524_SINE_ <i>Oryza sativa</i>	EH188637	Ec02	Sine2_F Sine2_R	CTCAGGTCCTGGGTTTGACT GTCGCCTACCACTGAAAGCA	78
SINE2-1_TAe_SINE2/tRNA_ <i>Triticum</i>	EH189341	Ec02	Sine3_F Sine3_R	GGTCCTTGCCCTTTGGATCT AAGTCCTGAAAACAGCCTCG	72
MuDR-13_SBi_MuDR_ <i>Sorghum</i> <i>bicolor</i>	EH192111	Ec03	MuDR13_F MuDR13_R	GCATGGTCTTCATCTCATTCATGG CCCATTCACTAGCACCATCTG	109
MuDR-9_ZM_MuDR_ <i>Zea mays</i>	EH186963, EH183711, EH184869, EH185446	Ec01	MuDR9_F MuDR9_R	GGGCCAACTTTGAGGAGCTT CGAACAGGGGGCTGAGATAC	177
CRMA1_LTR_Gypsy_ <i>Oryza sativa</i> Japonica Group	EH189614	Ec02	GypsyCRMA1_F GypsyCRMA1_R	TTTACGGGTGAGCTCGTTCC GTGCAGACTGCTCTTGGACT	221
Gypsy-12_SB-I_Gypsy_ <i>Sorghum</i> <i>bicolor</i>	EH191456	Ec03	Gypsy12_F Gypsy12_R	CATCGATCCTGGGCAATGGG CTAGTCATCACCGTGGGG	132
Gypsy-9_BD-I_Gypsy_ <i>Brachypodium</i> <i>distachyon</i>	EH187182	Ec02	Gypsy9_F Gypsy9_R	CACCTGCATGTGATTCTCTGC CATGATGGGTTTTTGGTTAGAGC	88
Copia28-ZM_I_Copia_ <i>Zea mays</i>	EH194637, EH192502	Ec04	Copia28_F Copia28_R	GCAAGCAAAAAGCCACCAAC CCAACAGAATCGGGTGCAGG	105
Copia10-ZM_I_Copia_ <i>Zea mays</i>	EH186646, EH183457	Ec01	Copia10_F Copia10_R	GCCTCCAGTTTCATCGCTCT ACTGCATTAGCAACAGCAGC	205
ENSPM1_ZM_EnSpm_ <i>Zea</i>	EH185006	Ec01	EnSpm1_F EnSpm1_R	CGCTCAGTGAGTACACCTC CATGCTTCTTACCCCTCCC	115
EnSpm-37_SBi_EnSpm_ <i>Sorghum</i>	EH192894, EH194905	Ec04	EnSpm2_F EnSpm2_R	AGGCATACAAGGCAGTCACC GCGTGTTCCTGATGCAGTTG	145
Copia3-ZM_I_Copia_ <i>Zea mays</i>	EH190917	Ec03	Copia3_F Copia3_R	AGCGCCGAGGCTGAATAC CTCCACATGTTTGGTGCGTT	180

Table 2 Suppl. Accession numbers of transposable elements (TE)-containing expressed sequence tags (ESTs) analysis searched for the existence of protein-coding-like sequences though *BLAST2GO*. This table shows TEs identified in ESTs (column 1) and the accession numbers of the analyzed ESTs that contain each TE (column 2), proving additional information to Table 3.

Identified TE	ESTs accession No.
<i>CASTAWAY_Harbinger_Oryza</i>	EH188185; EH188139
<i>Copia10-ZM_I_Copia_Zea</i>	EH186646; EH183457
<i>Copia-18_BD-I_Copia_Brachypodium</i>	Contig #1 (EH188311, EH190189, EH190473, EH190793, EH187648, EH192062); Contig #2 (EH192072, EH192075, EH185157, EH191928, EH190791, EH190823, EH191683); EH184831; EH186138; EH183895; EH188920; EH189769; EH189765; EH188310; EH187201 EH191384; EH192319; EH191303; EH191377;
<i>Copia-28-ZM_I_Copia_Zea</i>	EH192502; EH194637
<i>Copia-33_BD-I_Copia_Brachypodium</i>	EH193675; EH193528; EH194778
<i>Copia-3-ZM_I_Copia_Zea</i>	EH190917
<i>CRMA1_LTR_Gypsy_Oryza</i>	EH189614
<i>DNA-8-1N_SBi_DNA</i>	EH191233; EH191947
<i>ENSPM1_ZM_EnSpm_Zea</i>	EH185006
<i>EnSpm-3_TA_EnSpm_Triticum</i>	EH191605
<i>EnSpm-37_SBi_EnSpm_Sorghum</i>	EH192894; EH194905
<i>F524_SINE_Oryza</i>	EH188637 EH190997
<i>Gypsy-12_SB-I_Gypsy_Sorghum</i>	EH191456
<i>Gypsy-124N_SBi-I_Gypsy_Sorghum</i>	EH183700
<i>Gypsy-28_SB-LTR_Gypsy_Sorghum</i>	EH189664; EH190418
<i>Gypsy-36-ZM_I_Gypsy_Zea</i>	EH188684
<i>Gypsy-9_BD-I_Gypsy_Brachypodium</i>	EH187182
<i>HARB-7_SBi_Harbinger_Sorghum</i>	EH184802
<i>Helitron-3_ZM_Helitron_Zea</i>	EH192469
<i>Helitron-4_ZM_Helitron_Zea</i>	EH183581; EH186760; EH183890
<i>Helitron-N3_ZM_Helitron_Zea</i>	EH189988; EH189989
<i>MuDR-12_SBi_MuDR_Sorghum</i>	EH189448
<i>MuDR-13_SBi_MuDR_Sorghum</i>	EH192111
<i>MuDR-9_ZM_MuDR_Zea</i>	EH184869; EH185446; EH183711; EH186963
<i>MUTRIM1_MuDR_Triticum</i>	EH191550
<i>SINE2-1_TAe_SINE2/tRNA_Triticum</i>	EH189341