

Percent Identity

Divergence		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
	1	████	90.7	90.7	92.5	85.7	81.7	83.5	72.9	82.1	62.9	71.9	82.1	71.8	74.7	14.9	27.3	1	TRIAE_CS42_5DL_TGACv1_435145_AA1446640
	2	9.9	████	92.5	88.1	85.3	83.0	83.0	72.9	83.5	63.8	71.9	82.1	71.3	73.3	14.9	27.3	2	EXPA6 Brachypodium
	3	9.9	7.9	████	89.8	87.5	87.5	87.1	74.7	87.5	64.7	73.3	87.1	72.2	74.2	14.9	27.3	3	LOC_Os03g60720.1 EXPA RICE
	4	7.9	13.0	11.0	████	84.4	81.7	82.6	71.9	83.0	62.9	70.6	83.5	70.4	72.9	15.8	26.9	4	Alpha-expansin4_Zea.mays
	5	15.9	16.4	13.7	17.6	████	90.2	88.8	76.5	91.1	66.2	75.6	89.3	73.6	76.5	16.8	27.8	5	EXPA soybean
	6	21.0	19.3	13.7	21.0	10.6	████	86.6	75.1	95.5	66.2	73.8	95.5	73.1	75.6	16.8	27.3	6	Expa7 sunflower
	7	18.7	19.3	14.3	19.9	12.1	14.8	████	75.6	85.7	65.8	74.7	86.2	73.1	76.0	14.9	26.9	7	EXPA4 Arabidopsis
	8	33.7	33.7	31.0	35.1	28.3	30.3	29.6	████	75.1	68.6	83.7	75.1	80.6	95.9	17.4	26.8	8	Putative EXP1 HaT13I014971
	9	20.5	18.7	13.7	19.3	9.5	4.6	15.9	30.3	████	66.2	73.8	94.6	72.7	75.6	16.3	27.3	9	Putative EXP3 HaT13I005436
	10	50.7	49.1	47.4	50.7	44.7	44.7	45.5	40.5	44.7	████	67.7	65.8	65.6	65.9	16.4	29.4	10	Putative EXP11 HaT13I018566
	11	35.1	35.1	33.0	37.3	29.6	32.3	31.0	18.4	32.3	42.1	████	73.3	88.0	82.4	18.9	29.1	11	Putative EXPA1 HaT13I009552
	12	20.5	20.5	14.3	18.7	11.6	4.6	15.3	30.3	5.6	45.5	33.0	████	72.2	75.6	15.8	27.3	12	Putative EXPA4 HaT13I004607
	13	35.4	36.2	34.7	37.7	32.5	33.3	33.3	22.6	34.0	45.9	13.2	34.7	████	78.7	17.5	28.8	13	Putative EXPA10 Ha412T4I900C0S1
	14	31.0	33.0	31.6	33.7	28.3	29.6	28.9	4.2	29.6	45.3	20.2	29.6	25.1	████	16.9	27.2	14	Putative EXPA15 HaT13I025136
	15	332.0	332.0	332.0	311.0	292.0	292.0	332.0	282.0	301.0	299.0	260.0	311.0	282.0	291.0	████	12.8	15	EXLX1 Bacillus subtilis
	16	178.7	178.7	178.7	182.3	175.2	178.7	182.3	183.1	178.7	163.6	165.8	178.7	167.6	179.3	386.0	████	16	EXPB1 Maize
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		

Figure S1