

**Table S1.** Pairwise comparisons between AP-2 factors with additional all-by-all percentage of identity.

Comparison	Percentage of identity	Included in Figure 2A?
TFAP2A vs TFAP2B	66.026%	
TFAP2A vs TFAP2C	60.965%	
TFAP2A vs TFAP2D	45.188%	✓
TFAP2A vs TFAP2E	57.456%	
TFAP2B vs TFAP2C	56.144%	
TFAP2B vs TFAP2D	43.340%	✓
TFAP2B vs TFAP2E	58.071%	
TFAP2C vs TFAP2D	41.365%	✓
TFAP2C vs TFAP2E	51.073%	
TFAP2D vs TFAP2E	42.505%	✓
All-by-all comparison	29.377%	✓