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A new mutable allele of *vp1*.

--Stinard, PS

A viviparous kernel mutant with large revertant sectors of aleurone color on a colorless background was found segregating on the selfed ear of a colored aleurone *Spm-w* line (genotype [M14/W22 ACR X *a1 Spm-w Sh2; wx1*] selfed). Colored nonviviparous kernels from this ear were planted, and the resulting plants selfed and outcrossed to *vp1-Mc* and *wx1-m8::Spm-I8* testers. This mutant was found to be allelic to *vp1*, and has been named *vp1-Pookie* for the person who identified it. All plants segregating for sectored viviparous kernels segregated for sectored kernels in outcrosses to the *vp1* tester; all such plants also happened to carry *wx1*. However, none of the outcrosses of these same plants to the *wx1-m8* tester segregated for waxy mutable kernels; all waxy kernels were stable, indicating that *Spm* is not responsible for the aleurone sectoring observed in *vp1-Pookie*. Tests will be conducted with receptor alleles for other transposable element systems in order to determine the cause of mutability.