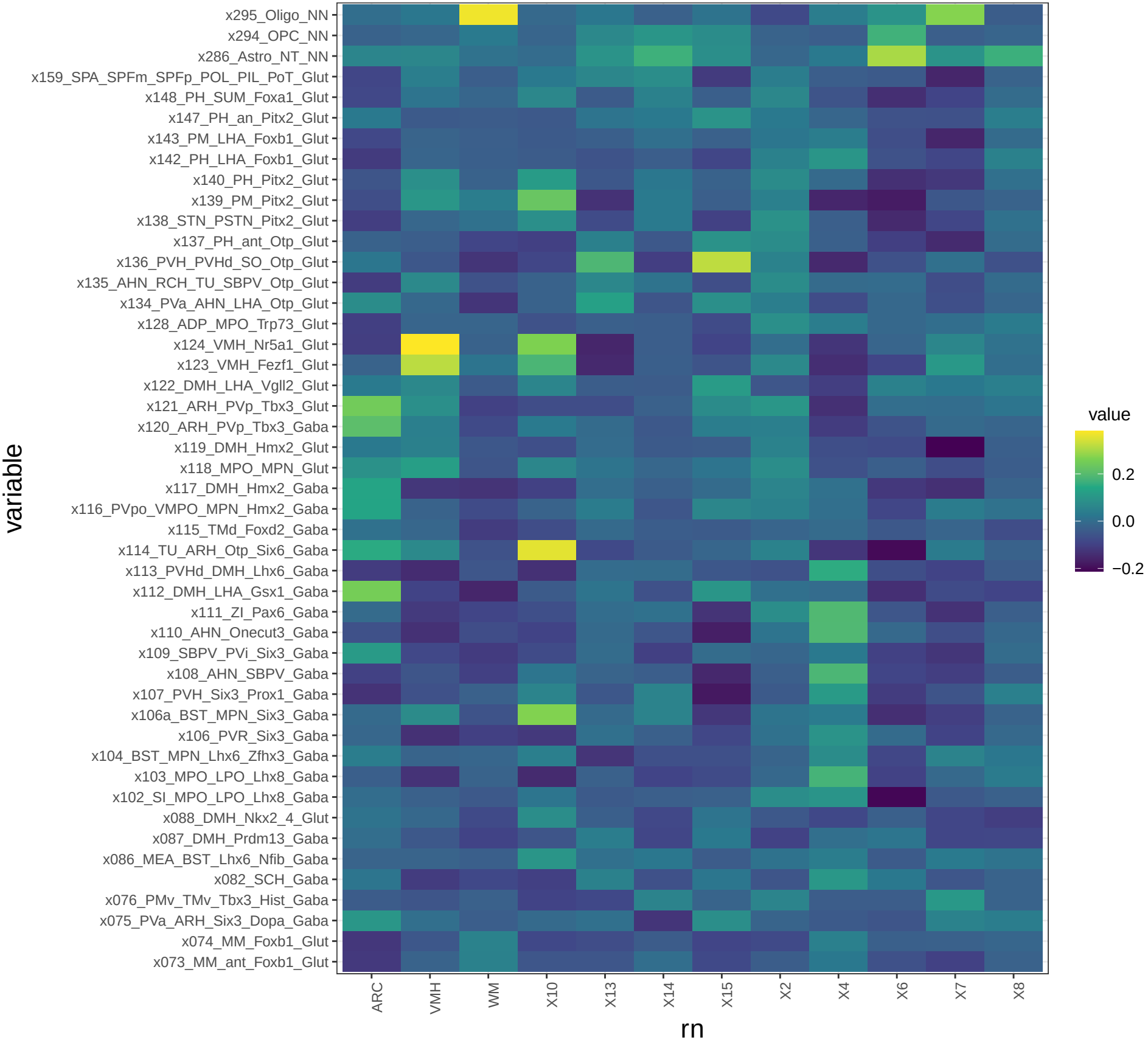ABA23 HYP subclass to sphypk15 collapsed