













Demethylase gain from Discoba on Demethylase gain from Euglenozoa (Demethylase gain from Jakoba on CupinJmjC n=6 CupinJmjC n=1 N=6 at p>=0.50 N=1 at p>=0.50 N=1 at p>=0.50 Demethylase gain from Discicristata Demethylase gain from Jakobida or N=5 at p>=0.50 N=1 at p>=0.50 Demethylase gain from Heterolobosea Demethylase gain from Histionina o CupinJmjC n=4 CupinJmjC n=1-N=4 at p>=0.50 N=1 at p>=0.50 Demethylase gain from TetraPhary c Demethylase gain from JakSec on

N=1 at p>=0.50

N=2 at p>=0.50