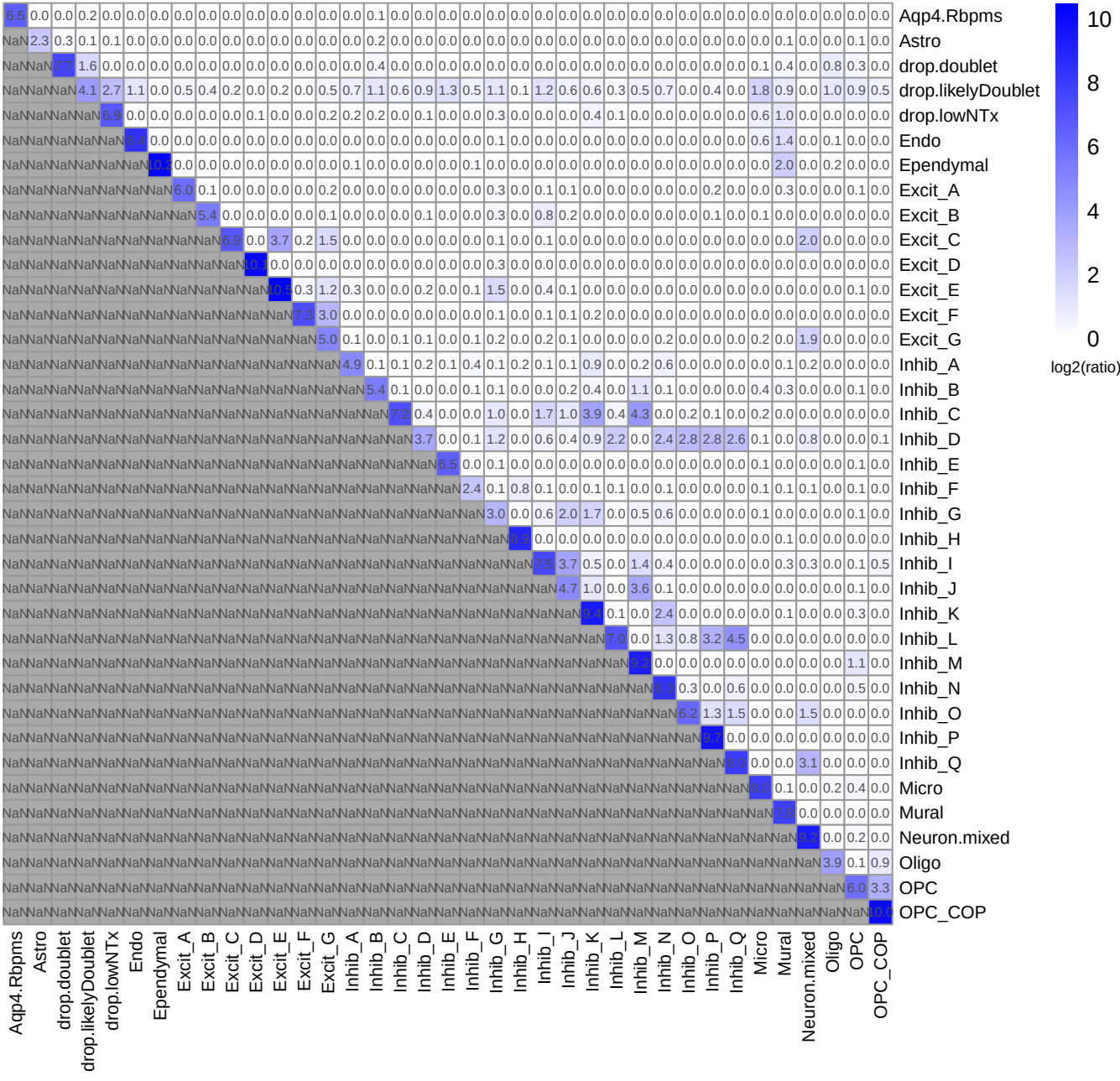Modularity ratio for 37 graph−based clusters in LS (n=4)