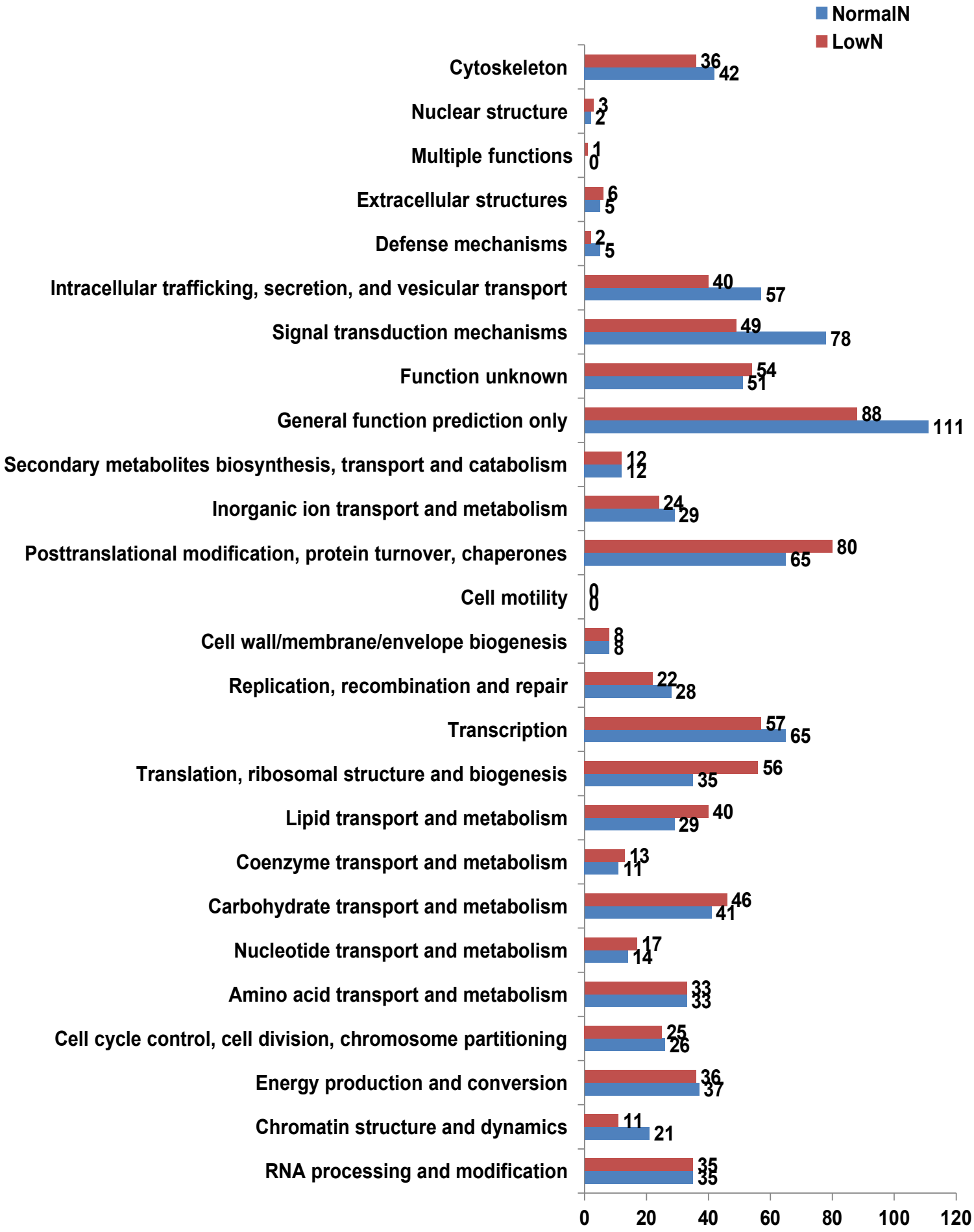H3K4me2 differentially marked genes